APPENDIX 14: CLINICAL EVIDENCE FOREST PLOTS

Service Models

1	Integrated service models versus non-integrated service models (critical outcomes)	2
2	Integrated service models versus non-integrated service models (non-critical outcomes)7	7
3	Integrated ACT versus standard case management (critical outcomes))
4	Integrated ACT versus standard case management (non-critical outcomes)	4
5	Staffed accommodation versus standard care (critical outcomes)1	17
Psy	chological/psychosocial interventions	

1	CBT versus standard care (critical outcomes)	21
2	CBT versus standard care (non-critical outcomes)	23
3	Motivational interviewing versus standard care (critical outcomes)	27
4	Motivational interviewing versus standard care (non-critical outcomes)	28
5	CBT + motivational interviewing versus standard care (critical outcomes)	29
6	CBT + motivational interviewing versus standard care (non-critical outcomes)	34
7	Group psychoeducation versus standard care (critical outcomes)	41
8	Group psychoeducation versus standard care (non-critical outcomes)	43
9	Contingency management versus standard care (critical outcomes)	44

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% Cl	IV, Random, 95% Cl
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 app	olicable								
Test for overall effect:	Z = 0.93	8 (P = 0	0.35)						
1.1.2 by 12 months									
MORSE2006	3.07	0.96	46	2.78	1.18	49	100.0%	0.27 [-0.14, 0.67]	
Subtotal (95% CI)			46			49	100.0%	0.27 [-0.14, 0.67]	
Heterogeneity: Not app	olicable								
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	49	100.0%	0.12 [-0.29, 0.52]	
Subtotal (95% CI)			46			49	100.0%	0.12 [-0.29, 0.52]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.56	6 (P = 0	0.57)						
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 app	olicable								
Test for overall effect: 2	Z = 0.60) (P = ().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	C	ontrol		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
1.2.1 by 6 months									
MORSE2006	6.88	6.61	46	6.34	7.52	49	100.0%	0.08 [-0.33, 0.48]	
Subtotal (95% Cl)			46			49	100.0%	0.08 [-0.33, 0.48]	
Heterogeneity: Not appli	icable								
Test for overall effect: Z	= 0.37	(P=0	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% Cl)			46			49	100.0%	0.11 [-0.30, 0.51]	
Heterogeneity: Not appli	icable								
Test for overall effect: Z	= 0.51	(P = (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% Cl)			46			49	100.0%	0.09 [-0.31, 0.49]	
Heterogeneity: Not appli	icable								
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% Cl)			46			49	100.0%	0.13 [-0.28, 0.53]	
Heterogeneity: Not appli	icable								
Test for overall effect: Z	= 0.61	(P = 0	0.54)						
									1 -0.5 0 0.5

Favours treatment Favours control

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

	Tre	eatmen	t	C	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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]	+- <mark></mark>
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:	Z = 1.13	(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:	Z = 2.19	(P = 0.	03)						
									-10 -5 0 5 10
									Favours control Favours treatm

Favours control Favours treatment

1.4 versus Non-integrated ACT - 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% Cl	IV, Random, 95% Cl
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% Cl)			46			54	100.0%	0.14 [-0.25, 0.53]	
Heterogeneity: Not appl	icable								
Test for overall effect: Z	2 = 0.69	(P = 0).49)						
1.4.2 by 12 months									
MORSE2006	3.07	0.96	46	2.86	1.32		100.0%	0.18 [-0.22, 0.57]	
Subtotal (95% CI)			46			54	100.0%	0.18 [-0.22, 0.57]	
Heterogeneity: Not appl	icable								
Test for overall effect: Z	2 = 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% Cl)			46			54	100.0%	-0.15 [-0.54, 0.25]	
Heterogeneity: Not appl	icable								
Test for overall effect: Z	2 = 0.73	(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 appl	icable								
Test for overall effect: Z	2 = 0.25	(P = 0).81)						
									-1 -0.5 0 0.5

-1 -0.5 0 0.5 1 Favours treatment Favours control

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% Cl	IV, Random, 95% Cl
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 appl	licable								
Test for overall effect: Z	2 = 0.43	8 (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 appl	licable								
Test for overall effect: Z	2 = 1.34	(P = 0	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% Cl)			46			54	100.0%	0.09 [-0.30, 0.48]	
Heterogeneity: Not appl	licable								
Test for overall effect: Z	2 = 0.45	6 (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 appl	licable								
Test for overall effect: Z	2 = 0.38	8 (P = 0).70)						
									-1 -0.5 0 0.5

-1 -0.5 0 0.5 1 Favours treatment Favours control

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

	Tre	eatmen	t	C	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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 ap	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% Cl)			46			54	100.0%	0.31 [-4.42, 5.04]	\rightarrow
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.13	(P = 0.	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 ap	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% Cl)			46			54	100.0%	0.51 [-4.36, 5.38]	\rightarrow
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.21	(P = 0.	84)						
									-10 -5 0 5 10

Favours control Favours treatment

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% C	M-H, Random, 95% Cl
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 app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 1.07 (P = 0.2	8)				0.5 0.7 1 1.5 2 Favours treatment Favours control

2.2 Lost to evaluation

Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
42	103	26	79	100.0%	1.24 [0.84, 1.83]	
	103		79	100.0%	1.24 [0.84, 1.83]	
42		26				
olicable						
Z = 1.07 (P = 0.2	8)				
						0.1 0.2 0.5 1 2 5 10
	Events 42 42 blicable	42 103 103 42 blicable	Events Total Events 42 103 26 103 26 42 2	Events Total Events Total 42 103 26 79 103 79 79 42 26 26 blicable 26 26	Events Total Events Total Weight 42 103 26 79 100.0% 103 79 100.0% 79 100.0% 42 26 26 26 26	Events Total Events Total Weight M-H, Random, 95% CI 42 103 26 79 100.0% 1.24 [0.84, 1.83] 103 79 100.0% 1.24 [0.84, 1.83] 42 26

Favours treatment Favours control

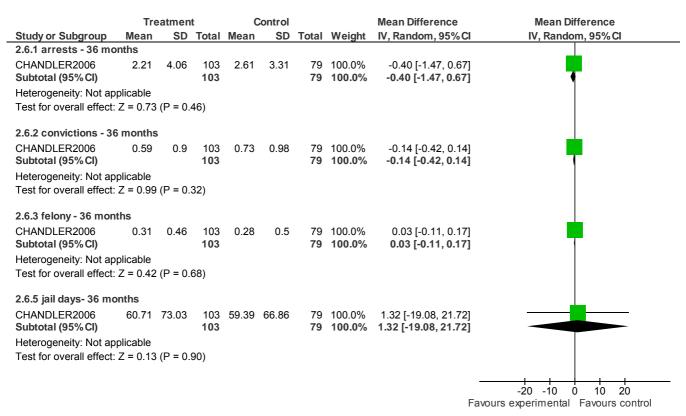
2.3 Mental state: 1. Relapse (hospitalization days and crisis care) (skewed data)

	Tre	atmer	nt	C	Control		:	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
2.3.1 Relapse - 36 mo	onths								
CHANDLER2006	1.25	3.27	103	5.03	13.88	79	100.0%	-0.40 [-0.69, -0.10]	
Subtotal (95% Cl)			103			79	100.0%	-0.40 [-0.69, -0.10]	•
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 2.63	(P=0	(800.0						
									-4 -2 0 2 4 Favours treatment Favours control

2.4 Mental state: 2. Total symptoms (BPRS, 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% Cl	IV, Random, 95% Cl
2.4.1 by 6 months									
MORSE2006	1.94	0.42	46	1.98	0.58	49	100.0%	-0.08 [-0.48, 0.32]	
Subtotal (95% Cl)			46			49	100.0%	-0.08 [-0.48, 0.32]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.38	8 (P = 0	0.70)						
2.4.2 by 12 months									
MORSE2006	1 82	0.52	46	1 92	0.54	49	100.0%	-0.19 [-0.59, 0.22]	
Subtotal (95% CI)	1.02	0.02	46		0.01	49	100.0%	-0.19 [-0.59, 0.22]	
Heterogeneity: Not ap	plicable							- / -	-
Test for overall effect:	•	(P = (0.36)						
			,						
2.4.3 by 18 months									
MORSE2006	1.81	0.54	46	1.98	0.56	49	100.0%	-0.31 [-0.71, 0.10]	— — — — —
Subtotal (95% CI)			46			49	100.0%	-0.31 [-0.71, 0.10]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.48	8 (P = (0.14)						
2.4.4 by 24 months									
MORSE2006	1.66	0.46	46	1.86	0.6	49	100.0%	-0.37 [-0.78, 0.04]	
Subtotal (95% Cl)			46			49	100.0%	-0.37 [-0.78, 0.04]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.78	8 (P = 0	0.07)						
									-1 -0.5 0 0.5
									Favours treatment Favours c

2.6 Functioning: 2. Forensic measures (skewed data)



2.7 Functioning: 3. Outpatient medication service (mean no. of hours) - 36 months

	Tre	atmer	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% Cl
CHANDLER2006	6.52	0.82	86	3.02	0.6	49	100.0%	3.50 [3.26, 3.74]	
Total (95%Cl)			86			49	100.0%	3.50 [3.26, 3.74]	
Heterogeneity: Not ap Test for overall effect:	•	2 (P <	0.0000)1)					-10 -5 0 5 10 Favours control Favours treatment

3 INTEGRATED ACT versus STANDARD CASE MANAGEMENT (critical outcomes)

3.1 Death - by 36 months

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 9	5% CI
DRAKE1998	3	109	4	114	56.3%	0.78 [0.18, 3.42]		
ESSOCK2006	4	99	2	99	43.7%	2.00 [0.37, 10.67]		→
Total (95% CI)		208		213	100.0%	1.18 [0.39, 3.57]		
Total events	7		6					
Heterogeneity: Tau ² =				° = 0.41); I² = 0%		0.2 0.5 1	2 5
Test for overall effect:	Z = 0.29 (P = 0.7	7)				Favours treatment Favo	urs control

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

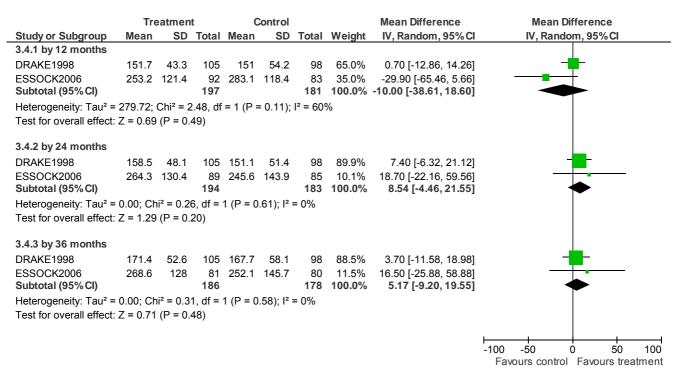
	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
3.2.1 alcohol							
DRAKE1998	43	75	34	68	100.0%	1.15 [0.84, 1.56]	
Subtotal (95% Cl)		75		68	100.0%	1.15 [0.84, 1.56]	\bullet
Total events	43		34				
Heterogeneity: 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]	\bullet
Total events	26		26				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.68 (P = 0.4	9)				
							-++++++++++++++++++++++++++++++++++++
							Favours treatment Favours control

3.3 Substance use: 2. Substance abuse (SATS, low=poor)

		atmei			ontrol			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
3.3.1 by 6 months									
DRAKE1998		1.32	105		1.19	98	53.6%	0.06 [-0.22, 0.33]	_
ESSOCK2006 Subtotal (95% CI)	3.3	1.6	93 1 98	3.3	1.5	83 181	46.4% 100.0%	0.00 [-0.30, 0.30] 0.03 [-0.17, 0.23]	•
Heterogeneity: Tau ² =	-			= 1 (P =	0.79);	l² = 0%	, D		
Test for overall effect:	Z = 0.29) (P = (0.77)						
3.3.2 by 12 months									
DRAKE1998	3.99	1.6	105	4.1	1.59	98	51.9%	-0.07 [-0.34, 0.21]	
ESSOCK2006 Subtotal (95% Cl)	3.8	1.7	87 192	3.4	1.5	84 182	48.1% 100.0%	0.25 [-0.05, 0.55] 0.08 [-0.23, 0.39]	
Heterogeneity: Tau ² =	0.03; Cł	ni² = 2.	32, df =	= 1 (P =	0.13);	l² = 57	%		
Test for overall effect:	Z = 0.53	6 (P = 0	0.60)						
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	1.9	88	3.9	1.8	84	45.9%	0.05 [-0.25, 0.35]	
Subtotal (95% CI)		-	193		-	182	100.0%	-0.02 [-0.22, 0.19]	•
Heterogeneity: Tau ² =	0.00; Cł	ni² = 0.	38, df =	= 1 (P =	0.54);	l² = 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]	+- s
Subtotal (95% CI)			184			181	100.0%	0.11 [-0.14, 0.37]	
Heterogeneity: Tau ² =	0.01; Cł	ni² = 1.	53, df =	= 1 (P =	0.22);	l² = 34	%		
Test for overall effect:	Z = 0.88	8 (P = 0	0.38)						
3.3.5 by 30 months									
DRAKE1998	4.76	1.92	105	4.48	1.88	98	56.6%	0.15 [-0.13, 0.42]	-+ -
ESSOCK2006	4.1	2	80	4	1.9	75	43.4%	0.05 [-0.26, 0.37]	
Subtotal (95% Cl)		-	185				100.0%	0.11 [-0.10, 0.31]	
Heterogeneity: Tau ² =	,		'	= 1 (P =	0.65);	l² = 0%	, D		
Test for overall effect:	Z = 0.99) (P = (0.32)						
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 Subtotal (95% Cl)	4.4	1.8	78 183	4.3	2.1	79 177	43.6% 1 00.0%	0.05 [-0.26, 0.36] 0.05 [-0.15, 0.26]	
Heterogeneity: Tau ² = Test for overall effect:	-			= 1 (P =	0.98);			_ / _	
			,						
									-1 -0.5 0 0.5 1 Favours control Favours treatme

Favours control Favours treatment

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



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

	Tre	atmer	nt	Co	ontro	I	:	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
3.5.1 by 6 months									
ESSOCK2006	41.9	8.9	87	40.8	8.5		100.0%	0.13 [-0.18, 0.43]	
Subtotal (95% CI)			87			75	100.0%	0.13 [-0.18, 0.43]	-
Heterogeneity: Not ap	•								
Test for overall effect:	Z = 0.80	(P = ().43)						
3.5.2 by 12 months									
ESSOCK2006	40.4	9.9	89	39.7	8.6	82	100.0%	0.07 [-0.23, 0.38]	
Subtotal (95% Cl)			89			82	100.0%	0.07 [-0.23, 0.38]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.49	(P = (0.62)						
3.5.3 by 18 months									
ESSOCK2006	40.6	10 1	90	39.6	72	86	100.0%	0.11 [-0.18, 0.41]	_
Subtotal (95% CI)	40.0	10.1	90	00.0	1.2		100.0%	0.11 [-0.18, 0.41]	
Heterogeneity: Not ap	plicable								Ť
Test for overall effect:		(P = (0.45)						
			,						
3.5.4 by 24 months									
ESSOCK2006	41.7	9.5	81	40	9.4		100.0%	0.18 [-0.13, 0.48]	
Subtotal (95% CI)			81			85	100.0%	0.18 [-0.13, 0.48]	
Heterogeneity: Not ap	•	(D (
Test for overall effect:	Z = 1.15	(P = ().25)						
3.5.5 by 30 months									\perp
ESSOCK2006	39.8	9.4	84	40.4	9.9	80	100.0%	-0.06 [-0.37, 0.24]	
Subtotal (95% Cl)			84			80	100.0%	-0.06 [-0.37, 0.24]	•
Heterogeneity: Not ap	•								
Test for overall effect:	Z = 0.40	(P = (0.69)						
3.5.6 by 36 months									
ESSOCK2006	43	9.2	85	42.6	9.9	85	100.0%	0.04 [-0.26, 0.34]	
Subtotal (95% CI)			85				100.0%	0.04 [-0.26, 0.34]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.27	(P = (0.79)						
									-1 -0.5 0 0.5

Favours control Favours treatment

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

	Tre	atmer	nt	С	ontrol		9	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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% Cl)			189			172	100.0%	-0.07 [-0.28, 0.14]	
Heterogeneity: Tau ² = Test for overall effect:	-			= 1 (P =	0.55);	l² = 0%)		
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% Cl)			193			179	100.0%	0.01 [-0.19, 0.22]	
Heterogeneity: Tau ² =	0.00; Cł	ni² = 0.	20, df =	= 1 (P =	0.66);	l² = 0%	5		
Test for overall effect:	Z = 0.13	8 (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; Cł	ni² = 1.	31, df =	= 1 (P =	0.25);	l² = 24	%		
Test for overall effect:									
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; Cł	ni² = 1.	07, df =	= 1 (P =	0.30);	l² = 7%			
Test for overall effect:	Z = 0.13	8 (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				100.0%	0.02 [-0.19, 0.22]	
Heterogeneity: Tau² = Test for overall effect:			-	= 1 (P =	0.89);	² = 0%)		
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 = Test for overall effect:				= 1 (P =	0.94);	² = 0%)		
									-0.5 -0.25 0 0.25 0.
									Favours control Favours treatme

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

4.1 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	M-H, Random, 95% Cl
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% Cl)		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	° = 0.31); I² = 3%		
Test for overall effect:						F	0.5 0.7 1 1.5 2 Favours treatment Favours control

4.2 Lost to evaluation

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
4.2.1 by 6 months							
ESSOCK2006	6	99	15	99	100.0%	0.40 [0.16, 0.99]	
Subtotal (95% CI)		99		99	100.0%	0.40 [0.16, 0.99]	
Total events	6		15				
Heterogeneity: Not app							
Test for overall effect:	Z = 1.98 (P = 0.0	5)				
4.2.2 by 12 months							_
ESSOCK2006	7	99	13	99	100.0%	0.54 [0.22, 1.29]	
Subtotal (95% CI)		99		99	100.0%	0.54 [0.22, 1.29]	
Total events	7		13				
Heterogeneity: Not app							
Test for overall effect:	Z = 1.39 (P = 0.1	7)				
4.2.3 by 24 months							
ESSOCK2006	12	99	12	99	100.0%	1.00 [0.47, 2.12]	
Subtotal (95% CI)		99		99	100.0%	1.00 [0.47, 2.12]	
Total events	12		12				
Heterogeneity: Not app							
Test for overall effect:	Z = 0.00 (P = 1.0	0)				
4.2.4 by 36 months							
DRAKE1998	4	109	16	114	44.9%	0.26 [0.09, 0.76]	← ●
ESSOCK2006	13	99	14	99	55.1%	0.93 [0.46, 1.87]	
Subtotal (95% CI)		208		213	100.0%	0.53 [0.15, 1.84]	
Total events	17		30				
Heterogeneity: Tau ² =	,			9 = 0.05	5); l² = 74%	0	
Test for overall effect: 2	Z = 1.01 (P = 0.3	1)				
							0.1 0.2 0.5 1 2 5 10
							Favours treatment Favours control

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

	Tre	eatmen	t	C	Control		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
4.3.1 Relapse - 36 m	onths								
DRAKE1998	10	31.62	105	12.45	35.65	98	50.6%	-0.07 [-0.35, 0.20]	📫
ESSOCK2006	23	68	99	26	48	99	49.4%	-0.05 [-0.33, 0.23]	+
Subtotal (95% CI)			204			197	100.0%	-0.06 [-0.26, 0.13]	♦
Heterogeneity: Tau ² = Test for overall effect:	-			1 (P = 0	.91); l²	= 0%			
								<u> </u>	+ + + +

-4 -2 0 2 4 Favours treatment Favours control

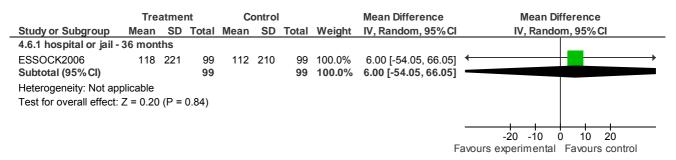
4.4 Mental state: 2. Average score (BPRS, skewed data)

	Tre	eatmen	t	C	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
4.4.1 6 months									
DRAKE1998	42.2	12.18	105	42.85	12.09	98	55.2%	-0.65 [-3.99, 2.69]	
ESSOCK2006	46.1	13.7	78	43.4	11.2	75	44.8%	2.70 [-1.26, 6.66]	
Subtotal (95% Cl)			183			173	100.0%	0.85 [-2.42, 4.11]	\bullet
Heterogeneity: Tau ² =	= 2.12; Cł	ni² = 1.6	1, df =	1 (P = 0	.20); l² :	= 38%			
Test for overall effect:	: Z = 0.51	(P = 0.	61)						
4.4.2 12 months									
DRAKE1998	41.57	10.8	105	43.19	11.96	98	53.5%	-1.62 [-4.76, 1.52]	
ESSOCK2006	46.2	13.8	86	43.6	11.5	82	46.5%	2.60 [-1.23, 6.43]	
Subtotal (95% Cl)			191			180	100.0%	0.34 [-3.78, 4.47]	
Heterogeneity: Tau ² =	= 5.71; Cł	ni² = 2.78	8, df =	1 (P = 0	.10); l² :	= 64%			
Test for overall effect:	: Z = 0.16	6 (P = 0.	87)						
4.4.3 18 months									
DRAKE1998	43.89	11.58	105	44.37	13.39	98	53.0%	-0.48 [-3.93, 2.97]	
ESSOCK2006	45.6	12.5	89	45	12.1	84	47.0%	0.60 [-3.07, 4.27]	_
Subtotal (95% Cl)			194			182	100.0%	0.03 [-2.49, 2.54]	\bullet
Heterogeneity: Tau ² =	= 0.00; Ch	ni² = 0.18	8, df =	1 (P = 0	.67); l² :	= 0%			
Test for overall effect:	: Z = 0.02	2 (P = 0.	98)						
4.4.4 24 months									
DRAKE1998	42.45	11.03	105	43.32	12.36	98	58.6%	-0.87 [-4.10, 2.36]	B
ESSOCK2006	43.7	12.4	79	45.9	12.8	86	41.4%	-2.20 [-6.05, 1.65]	
Subtotal (95% Cl)			184			184	100.0%	-1.42 [-3.89, 1.05]	
Heterogeneity: Tau ² =	= 0.00; Ch	ni² = 0.2	7, df =	1 (P = 0	.60); l² :	= 0%			
Test for overall effect:	: Z = 1.13	6 (P = 0.	26)						
4.4.5 30 months									
DRAKE1998	39.63	9.6	105	42.27	12.13	98	56.7%	-2.64 [-5.66, 0.38]	8 +
ESSOCK2006	46.6	16.1	83	44.6	12.8	77	43.3%	2.00 [-2.49, 6.49]	
Subtotal (95% Cl)			188			175	100.0%	-0.63 [-5.14, 3.88]	
Heterogeneity: Tau² =	-			1 (P = 0	.09); I² :	= 65%			
Test for overall effect:	. Z = 0.27	(P = 0.	(0)						
4.4.6 36 months						_			
DRAKE1998		10.82		41.11		98	57.6%	-0.22 [-3.32, 2.88]	
ESSOCK2006 Subtotal (95% Cl)	43	11.2	85 1 90	43.2	12.5	81 1 79	42.4% 1 00.0%	-0.20 [-3.82, 3.42] -0.21 [-2.57, 2.14]	
Heterogeneity: Tau ² =				1 (P = 0	.99); l² :	= 0%			
Test for overall effect:	. Z = 0.18	6 (P = 0.	80)						
									-10 -5 0 5 10

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% C	M-H, Random, 95% Cl
ESSOCK2006	42	99	48	99	100.0%	0.88 [0.64, 1.19]	
Total (95% Cl)		99		99	100.0%	0.88 [0.64, 1.19]	
Total events	42		48				
Heterogeneity: Not ap	plicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 0.85 (P = 0.3	9)				Favours treatment Favours control

4.6 Functioning: 2. Forensic measures (skewed data)



5 STAFF ACCOMMODATION versus STANDARD CARE (critical outcomes)

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

		т	reatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
5.1.1 3 months							
BURNAM1995	-0.317	0.198	57	47	100.0%	-0.32 [-0.71, 0.07]	
Subtotal (95% Cl)			57	47	100.0%	-0.32 [-0.71, 0.07]	
Heterogeneity: Not appl	licable						
Test for overall effect: Z	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%	0.00 [-0.40, 0.40]	
Heterogeneity: Not appl	licable						
Test for overall effect: Z	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 appl	licable						
Test for overall effect: Z							
	· · · ·						

-2 -1 0 1 Favours treatment Favours control

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

		Т	reatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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 app	olicable						
Test for overall effect: 2	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 app	blicable						
Test for overall effect: 2	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 app	blicable						
Test for overall effect: 2	Z = 0.95 (P = 0.34)						
	. ,						
						ł	

-2 -1 0 1 Favours treatment Favours control

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

		Tre	eatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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 app	blicable						
Test for overall effect: 2	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]	\bullet
Heterogeneity: Not app	blicable						
Test for overall effect: 2	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 app	blicable						
Test for overall effect:							

-2 -1 0 1 Favours treatment Favours control

5.4 Substance use: 4. Severity of drug use (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% Cl
5.4.1 3 months							
BURNAM1995	-0.138	0.197	57	47	100.0%	-0.14 [-0.52, 0.25]	
Subtotal (95% Cl)			57	47	100.0%	-0.14 [-0.52, 0.25]	\bullet
Heterogeneity: Not appli	icable						
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% Cl)			49	48	100.0%	-0.18 [-0.57, 0.22]	
Heterogeneity: Not appli	icable						
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% Cl)			45	37	100.0%	-0.16 [-0.60, 0.28]	
Heterogeneity: Not appli	icable						
Test for overall effect: Z	= 0.72 (P = 0.47)						
	. ,						

-2 -1 0 1 Favours treatment Favours control

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

		Т	reatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
5.5.1 3 months							
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]	\bullet
Heterogeneity: Not app	olicable						
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 app	olicable						
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 app	olicable						
Test for overall effect:	Z = 0.45 (P = 0.65)						

-2 -1 0 1 Favours treatment Favours control

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% Cl	IV, Random, 95% Cl
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 control

1 CBT versus STANDARD CARE (critical outcomes)

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

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
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]	\bullet
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 Favours control

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

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
1.2.1 alcohol							
SCHMITZ2002	7	25	1	21	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	2 = 1.72 (P = 0.08	8)				
1.2.2 drugs							
SCHMITZ2002	12	25	5	21	100.0%	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	<u>z</u> = 1.58 (P = 0.1	1)				
1.2.3 alcohol or drugs							
WEISS2009	20	31	26	30	100.0%	0.74 [0.55, 1.00]	
Subtotal (95% CI)		31		30	100.0%	0.74 [0.55, 1.00]	\bullet
Total events	20		26				
Heterogeneity: Not app	licable						
Test for overall effect: 2	<u>Z</u> = 1.95 (P = 0.0	5)				
							0.05 0.2 1 5 20
							Favours treatment Favours control

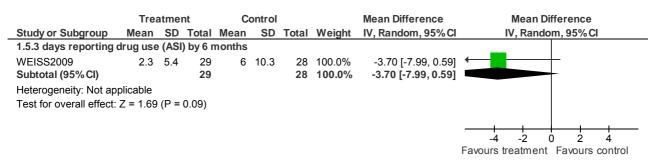
1.3 Substance use: 3. Any substance (skewed data)

	Tre	atmer	it	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
1.3.1 average score (A	ASI) by 3	3 mon	ths						
NEISS2007	0.2	0.18	31	0.27	0.17	31	100.0%	-0.07 [-0.16, 0.02]	
Subtotal (95% Cl)			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)						
1.3.2 average score (/	ASI) by	6-9 mo	onths						
NEISS2007	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]	4
Heterogeneity: Not app	licable								
Test for overall effect:	Z = 1.14	(P=0).25)						
1.3.3 days reporting a	ny subs	stance	use (/	ASI) by :	3 mon	ths			
NEISS2009	4.4	7.2	31	6.5	7.9		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			_
NEISS2009	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:	Z = 1.16	(P=0).25)						
									-4 -2 0 2 4
									Favours treatment Favours control

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% Cl	IV, Random, 95% CI
1.4.1 days reporting of	drug use	e (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% Cl)			25			21	73.3%	0.40 [-1.47, 2.27]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.42	(P =	0.68)						
1.4.2 days reporting of	drug use	(AS	l) by 3 r	nonths					
WEISS2009	2.1	4.2	29	3	7.3	28	26.7%	-0.90 [-4.01, 2.21]	
Subtotal (95% Cl)			29			28	26.7%	-0.90 [-4.01, 2.21]	
Heterogeneity: Not app	plicable								
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 = C	.49, df	= 1 (P =	0.48	3); l ² = ()%		
Test for overall effect:	-			,		,,			-4 -2 0 2 4 Favours treatment Favours control

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



1.6 Substance use: 6. Alcohol 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% Cl	IV, Random, 95% Cl
1.6.4 days reporting a	alcohol u	use in	n previo	ous 4 w	eeks	(not A	SI) by 3 m	onths	
SCHMITZ2002 Subtotal (95% Cl)	0.1	0.3	25 25	3	3	21 21	64.7% 64.7%	-2.90 [-4.19, -1.61] -2.90 [-4.19, -1.61]	•
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 4.41	(P <	0.0001)					
1.6.5 days reporting a	alcohol u	use (A	ASI) by	3 mont	hs				
WEISS2009 Subtotal (95% Cl)	3.6	6.5	29 29	3.8	5.6	28 28	35.3% 35.3%	-0.20 [-3.35, 2.95] -0.20 [-3.35, 2.95]	
Heterogeneity: Not app	olicable								
Test for overall effect:		(P =	0.90)						
Total (95% Cl)			54			49	100.0%	-1.95 [-4.48, 0.58]	
Heterogeneity: Tau ² = 2.14; Chi ² = 2.42, df = 1 (P = 0.12); l ² = 59% Test for overall effect: Z = 1.51 (P = 0.13)									-4 -2 0 2 4 Favours treatment Favours control

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% Cl	IV, Random, 95% Cl
1.7.6 days reporting	alcohol u	use (/	ASI) by	6 mont	hs				
WEISS2009	4.2	5.9	29	4.2	8	28	100.0%	0.00 [-3.66, 3.66]	
Subtotal (95% CI)			29			28	100.0%	0.00 [-3.66, 3.66]	
Heterogeneity: Not ap	plicable								
Test for overall effect	: Z = 0.00	(P =	1.00)						
									-4 -2 0 2 4 Favours treatment Favours control

2 CBT versus STANDARD CARE (non-critical outcomes)

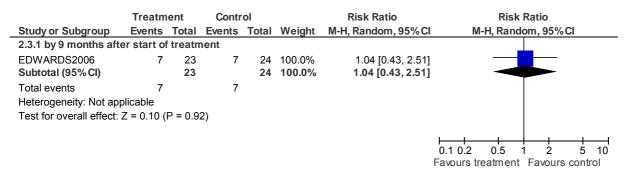
2.1 Lost to treatment

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
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	e = 0.64); $I^2 = 0\%$		
Test for overall effect:	-						
			,				
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	e = 0.31); 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]	
Total events	23		35				
Heterogeneity: Tau ² =	0.00; Chi²	= 1.37					
Test for overall effect:	Z = 2.42 (P = 0.0	2)				Favours treatment Favours control

2.2 Lost to treatment - sensitivity analysis (bipolar only)

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl		
2.2.1 by 3 months									
SCHMITZ2002	9	25	14	21	50.3%	0.54 [0.30, 0.99]			
Subtotal (95% CI)		25		21	50.3%	0.54 [0.30, 0.99]			
Total events	9		14						
Heterogeneity: Not ap	plicable								
Test for overall effect:	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 =	0.01; Chi ²	= 1.05	, df = 1 (F	e = 0.31); l² = 4%				
Test for overall effect:	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 =	0.00; Chi ²	= 1.19	, df = 2 (F	e = 0.55	5); l ² = 0%				
Test for overall effect:	Z = 2.46 (P = 0.0	1)		•		0.2 0.5 1 2 5 Favours treatment Favours control		
						Г	avours iteaunent Favours contion		

2.3 Lost to evaluation



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

	Tre	atmer	nt	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
2.4.1 3 months									
EDWARDS2006 Subtotal (95% CI)	44.1	13.8	23 23	47.7	18.2		100.0% 100.0%	-3.60 [-12.81, 5.61] -3.60 [-12.81, 5.61]	
Heterogeneity: Not a	oplicable								
Test for overall effect		(P = (0.44)						
2.4.2 6 months									
EDWARDS2006	45.6	13.5	23	44.8	15.4	24	100.0%	0.80 [-7.47, 9.07]	
Subtotal (95% CI)			23			24	100.0%	0.80 [-7.47, 9.07]	
Heterogeneity: Not ap	oplicable								
Test for overall effect	: Z = 0.19	(P=0).85)						
									-10 -5 0 5 10
									Favours treatment Favours control

Favours treatment Favours control

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% Cl	IV, Random, 95% Cl
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 ap	plicable								
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 ap	plicable								
Test for overall effect	Z = 0.44	(P =	0.66)						
								-	

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% Cl	IV, Random, 95% Cl
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 = 0).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	licable								
Test for overall effect:	Z = 0.95	(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)

	Tre	atme	nt	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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; Cł	ni² = 0	.13, df	= 1 (P =	0.72	2); I ² = ()%		
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; Cł	ni² = 0	.01, df	= 1 (P =	0.92	2); I ² = ()%		
Test for overall effect	: Z = 0.74	(P =	0.46)						
									-10 -5 0 5 10
									Favours treatment Favours control

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

Study or Subgroup Mo 2.8.1 3 months	ean	SD	Total	Meen									
2.8.1 3 months				wean	SD	Total	Weight	IV, Random, 95% C	I	IV, Ra	ndom, 9	5% CI	
SCHMITZ2002	0.8	1.3	25	0.7	1.2	21	100.0%	0.10 [-0.62, 0.82					
Subtotal (95% CI)			25			21	100.0%	0.10 [-0.62, 0.82			•		
Heterogeneity: Not applica	able												
Test for overall effect: Z =	0.27	(P =	0.79)										
												<u>_</u>	
									-10 Favour	-5 s treatm	ont Fa		10 Introl

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

	Tre	atmer	nt	Co	ontro	I		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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	oplicable								
Test for overall effect	: Z = 0.69	(P = (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	oplicable								
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% Cl	M-H, Random, 95% Cl
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	olicable						
Test for overall effect:	Z = 1.85 (P = 0.0	6)				0.5 0.7 1 1.5 2 Favours treatment Favours control

2.11 Adherence: 2. Medication adherence rate

	Tre	atmer	nt	C	ontrol			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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]	•
Heterogeneity: Not app	licable								
Test for overall effect: 2	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 app	licable								
Test for overall effect: 2	Z = 0.50) (P = (0.62)						

-10 -5 0 5 10 Favours experimental Favours control

3 MOTIVATIONAL INTERVIEWING versus STANDARD CARE (critical outcomes)

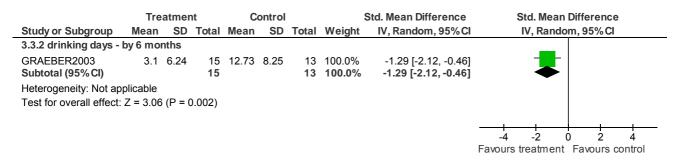
3.1 Substance use: 1. Not abstinent or not improved on all substances - by 12 months

	Treatment		Treatment Control			Risk Ratio	Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	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	olicable										
Test for overall effect:	Z = 1.72 (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	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
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 app	olicable						
Test for overall effect: 2	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 app	olicable						
Test for overall effect: 2	Z = 2.72 (P = 0.0	06)				
						F	0.1 0.2 0.5 1 2 5 10 Favours treatment Favours control
						ſ	

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



4 MOTIVATIONAL INTERVIEWING versus STANDARD CARE (non-critical outcomes)

4.1 Lost to evaluation

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
4.1.1 less than 3 mont	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	9 = 0.84); l ² = 0%		
Test for overall effect: 2	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	9 = 0.84); l ² = 0%		
Test for overall effect: 2	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	licable						
Test for overall effect: 2	Z = 1.66 (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% Cl	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 =)	0.60)					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	Control				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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% Cl)			58			61	100.0%	0.37 [-0.01, 0.75]	
Heterogeneity: Not app	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% Cl)			58			61	100.0%	0.19 [-0.22, 0.60]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.90	(P=0	0.37)						
									-0.5 -0.25 0 0.25 0.
									-0.5 -0.25 0 0.25 0.

Favours treatment Favours control

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

	Tre	atmer	nt	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
5.3.1 alcohol - estima	ated dail	y cons	sumption	on - pas	st mon	th - 3 n	nonths		
BAKER2006 Subtotal (95% Cl)	4.92	4.69	21 21	3.35	4.1		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	5 (P = 0).21)						
5.3.2 alcohol - estima	ated dail	y cons	umptio	on - pas	st mon	ith - 6 n	nonths		
BAKER2006 Subtotal (95% Cl)	3.73	4.07	21 21	2.52	4.2		100.0% 1 00.0%	1.21 [-1.07, 3.49] 1.21 [-1.07, 3.49]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.04	+ (P = 0	0.30)						
5.3.3 alcohol - estima	ated dail	y cons	umpti	on - pas	st mon	th - 12	months		
BAKER2006 Subtotal (95% CI)	3.58	4.8	18 18	2.19	3.04	28 28	100.0% 100.0%	1.39 [-1.10, 3.88] 1.39 [-1.10, 3.88]	
Heterogeneity: Not ap	plicable								_
Test for overall effect:	•) (P = ().27)						
									-4 -2 0 2 4
									Favours treatment Favours control

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

	Tre	atmer	nt	С	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% C	I IV, Random, 95% Cl
5.4.4 amphetamine-	estimate	ed dail	y cons	umptio	n - pas	st mont	h - 3 mon	iths	
BAKER2006	0.34	0.53	11	0.25	0.57	9	100.0%	0.09 [-0.40, 0.58]	
Subtotal (95% CI)			11			9	100.0%	0.09 [-0.40, 0.58]	↓
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.36	6 (P = 0).72)						
5.4.5 amphetamine-	estimate	ed dail	y cons	umptio	n - pas	st mont	h - 6 mon	ths	
BAKER2006	0.19	0.41	11	1.47	2.28	9	100.0%	-1.28 [-2.79, 0.23]	
Subtotal (95% Cl)			11			9	100.0%	-1.28 [-2.79, 0.23	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.66	6 (P = 0	0.10)						
5.4.6 amphetamine-	estimate	ed dail	y cons	umptio	n - pas	st mont	h - 12 mo	onths	
BAKER2006	0.14	0.26	9	0.01	0.25	8	100.0%	0.13 [-0.11, 0.37]	
Subtotal (95% Cl)			9			8	100.0%	0.13 [-0.11, 0.37]	↓ ▼
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.05	5 (P = 0	0.29)						
									-4 -2 0 2 4
									Favours treatment Favours control

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

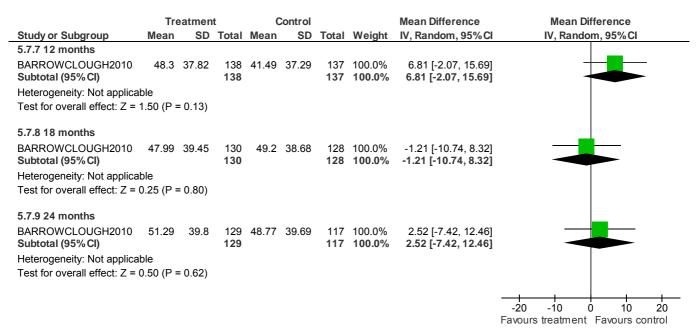
	Tre	eatmen	t	С	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
5.5.7 cannabis- estin	nated da	ily cons	umptio	on - pas	st mor	nth - 3 r	nonths		
BAKER2006 Subtotal (95% Cl)	5.09	7.21	39 39	5.66	8.72		100.0% 100.0%	-0.57 [-4.27, 3.13] -0.57 [-4.27, 3.13]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.30) (P = 0.1	76)						
5.5.8 cannabis- estin	nated da	ily cons	umptio	on - pas	st mor	nth - 6 r	nonths		
BAKER2006 Subtotal (95% CI)	5.37	11.75	39 39	4.67	8.68		100.0% 1 00.0%	0.70 [-4.00, 5.40] 0.70 [-4.00, 5.40]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.29) (P = 0.1	77)						
5.5.9 cannabis- estin	nated da	ily cons	umpti	on - pas	st mor	nth - 12	months		
BAKER2006 Subtotal (95% Cl)	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 ap	plicable								
Test for overall effect:	Z = 1.49	(P = 0.	14)						
								_	-4 -2 0 2 4

-4 -2 0 2 4 Favours treatment Favours control

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

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

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



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

	Treatment			C	ontrol			Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% C		
.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% Cl)			137			136	100.0%	5.73 [-2.62, 14.08]			
leterogeneity: Not applical	ble										
est for overall effect: Z =	1.35 (P =	• 0.18)									
5.8.8 18 months											
ARROWCLOUGH2010	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]			
leterogeneity: Not applical	ble										
est for overall effect: Z = 0	0.07 (P =	• 0.95)									
5.8.9 24 months											
ARROWCLOUGH2010	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]			
leterogeneity: Not applical	ble										
est for overall effect: Z =	1.48 (P =	0.14)									
								-	-20 -10 0 10		

-20 -10 0 10 20 Favours treatment Favours control

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

Study or Subgroup	log[Odds Ratio]	SE	Weight	Odds Ratio IV, Random, 95% Cl	Odds Ratio IV, Random, 95% Cl
5.9.1 Main substance					
BARROWCLOUGH2010 Subtotal (95% Cl)	-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% Cl	IV, Random, 95% Cl
5.10.1 3 months									
BAKER2006	64.76	12.01	58	67.46	12.22	61	100.0%	-2.70 [-7.05, 1.65]	
Subtotal (95% Cl)			58			61	100.0%	-2.70 [-7.05, 1.65]	\bullet
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]	\bullet
Heterogeneity: Not applica									
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 =	2.08 (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		13.56		48.13		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				100.0%	1.87 [-2.36, 6.11]	
Heterogeneity: Tau ² = 8.08	3; Chi² =	5.20, df	= 2 (P	= 0.07);	l² = 62	%			
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]	
BARROWCLOUGH2001		10.90	119			115	86.9%	-0.21 [-2.93, 2.51]	-
Subtotal (95% CI)	00.07	10.00	134	00.10	10.21		100.0%	0.69 [-3.86, 5.25]	
Heterogeneity: Tau ² = 4.29	9; Chi² =	1.22, df	= 1 (P	= 0.27);	l² = 18	%			
Test for overall effect: Z =	-		`	,,					
									-20 -10 0 10 20
									Favours control Favours treatment

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

	Trea	atmen	-		ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
5.11.1 by end of 9 month	treatmen	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 applical	ble								
Test for overall effect: $Z = T$	1.77 (P =	0.08)							
	,	,							
5.11.2 by 12 months (3 m	onths fol	lowing	g treatr	nent enc	I)				
BARROWCLOUGH2001	108.41	8.35	17	101.14	9.94	15	100.0%	7.27 [0.86, 13.68]	-
Subtotal (95% Cl)			17			15	100.0%	7.27 [0.86, 13.68]	
Heterogeneity: Not applical	ble								
Test for overall effect: $Z = 2$	2.22 (P =	0.03)							
	,	- /							
									-20 -10 0 10 20

Favours control Favours treatment

6 CBT + MOTIVATIONAL INTERVIEWING versus STANDARD CARE (non-critical outcomes)

6.2 Lost to evaluation

	Treatme	ent	Contro	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
6.2.1 by 3 months							
BAKER2006	5	65	4		100.0%	1.25 [0.35, 4.45]	
Subtotal (95% CI)		65		65	100.0%	1.25 [0.35, 4.45]	
Total events	5		4				
Heterogeneity: Not applicat							
Test for overall effect: Z = 0	0.34 (P = 0	.73)					
6.2.2 by 6 months							
BAKER2006	5	65	2	65	100.0%	2.50 [0.50, 12.42]	
Subtotal (95% Cl)		65		65	100.0%	2.50 [0.50, 12.42]	
Total events	5		2				
Heterogeneity: Not applical	ble						
Test for overall effect: Z =		.26)					
6.2.3 by 9 months							
BARROWCLOUGH2001	2	18	3	18	100.0%	0.67 [0.13, 3.53]	 _
Subtotal (95% Cl)	-	18	2		100.0%	0.67 [0.13, 3.53]	
Total events	2		3				
Heterogeneity: Not applical	ble						
Test for overall effect: Z =		.63)					
6.2.4 by 12 months							
6.2.4 by 12 months	10	6F	10	6F	22.00/	4 60 [0 70 2 26]	
BAKER2006	16	65	10	65	33.9%	1.60 [0.79, 3.26]	<u> </u>
BARROWCLOUGH2001	1	18	3	18	4.5%	0.33 [0.04, 2.91]	•
BARROWCLOUGH2010 Subtotal (95% CI)	29	164 247	29	163	61.6% 100.0%	0.99 [0.62, 1.59] 1.11 [0.70, 1.77]	
. ,	46	241	42	240	100.070	1.11 [0.70, 1.77]	
Total events Heterogeneity: Tau² = 0.04		o df -		201-12	- 170/		
Test for overall effect: Z = 0	-		= 2 (P = 0.	30), I ⁻	= 17%		
	0.45 (F = 0	.00)					
6.2.5 by 18 months							
BARROWCLOUGH2001	3	18	5		100.0%	0.60 [0.17, 2.14]	
Subtotal (95% Cl)	-	18	_	18	100.0%	0.60 [0.17, 2.14]	
Total events	3		5				
Heterogeneity: Not applica		40					
Test for overall effect: Z = 0	u.79 (P = 0	.43)					
6.2.6 by 24 months							
BARROWCLOUGH2010 Subtotal (95% Cl)	35	164 164	46		100.0% 100.0%	0.76 [0.52, 1.11] 0.76 [0.52, 1.11]	
Total events	35		46				
Heterogeneity: Not applica	ble						
Test for overall effect: Z =	1.43 (P = 0	.15)					
							0.1 0.2 0.5 1 2 5
							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% Cl	M-H, Random, 95% Cl
6.3.1 by end of 9 month tr	eatment	ohase					
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 applica	ble						
Test for overall effect: Z =	1.59 (P = 0	0.11)					
6.3.2 by 3 months after tr	eatment 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]	\bullet
Total events	6		12				
Heterogeneity: Not applica	ble						
Test for overall effect: Z =	1.86 (P = 0	0.06)					
6.3.3 by 9-12 months afte	r 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); Chi² = 2.	42, df =	= 1 (P = 0	.12); I²	= 59%		
Test for overall effect: Z =	0.62 (P = 0	0.53)					
							· · · · · · · · · · · · · · · · · · ·
							0.01 0.1 1 10 100
							Favours treatment Favours control

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

	Tre	eatmen	t	C	ontrol			Std. Mean Difference	Std. I	lean Differer	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, R	andom, 95%	CI	
6.4.1 by 9 months												
BARROWCLOUGH2001	58.94	11.44	17	65.53	15.28		100.0%	-0.48 [-1.19, 0.23]				
Subtotal (95% Cl)			17			15	100.0%	-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	57.82	14.1	137	55.3	12.98	137	66.8%	0.19 [-0.05, 0.42]		—		
Subtotal (95% CI)			154			152	100.0%	-0.01 [-0.54, 0.53]		•		
Heterogeneity: Tau ² = 0.10); Chi² =	2.36, df	= 1 (P	= 0.12);	l² = 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	54.56	14.7	129	51.85	11.57	118	64.1%	0.20 [-0.05, 0.45]		—		
Subtotal (95% CI)			144			132	100.0%	-0.04 [-0.67, 0.59]		•		
Heterogeneity: Tau ² = 0.14	; Chi² =	2.82, df	= 1 (P	= 0.09);	l² = 65	%						
Test for overall effect: Z =	0.11 (P =	= 0.91)										
									├ ─── ├ ──			
									-10 -5	0	5	
									Favours treat	nent Favour	s contro	I

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

	Tre	atmen	t	c	Control		:	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
6.5.1 by 3 months									
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	ble								
Test for overall effect: Z =	0.45 (P =	= 0.65)							
6.5.2 by 6 months									
BAKER2006	35.47	9.34	58	34.52	8.53	61	100.0%	0.11 [-0.25, 0.47]	
Subtotal (95% Cl)			58			61	100.0%	0.11 [-0.25, 0.47]	\bullet
Heterogeneity: Not applica	ble								
Test for overall effect: Z =	0.58 (P =	= 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]	+∎
BARROWCLOUGH2010	29.85	7.52	137	27.74	6.94	137	74.1%	0.29 [0.05, 0.53]	
Subtotal (95% Cl)			181			190	100.0%	0.30 [0.10, 0.51]	◆
Heterogeneity: Tau ² = 0.00	; Chi² =	0.04, d	f = 1 (F	⁻ = 0.84); I ² = 0	%			
Test for overall effect: Z =	2.90 (P =	= 0.004	·)						
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% Cl)			144			132	100.0%	-0.40 [-1.84, 1.04]	
Heterogeneity: Tau ² = 0.99	; Chi² =	11.85,	df = 1	(P = 0.0	006); l²	= 92%			
Test for overall effect: Z =	0.55 (P =	= 0.58)							
									-4 -2 0 2
									Favours treatment Favours contro

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% Cl	IV, Random, 95% Cl	
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% Cl)			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% Cl)			154			152	100.0%	-0.15 [-0.63, 0.32]		
Heterogeneity: Tau ² = 0.07	'; Chi² =	1.95, c	df = 1 (F	^D = 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% Cl)			144			132	100.0%	0.11 [-0.13, 0.35]	∮	
Heterogeneity: Tau ² = 0.00); Chi² =	0.09, c	df = 1 (F	⊃ = 0.77	'); ² =	0%				
Test for overall effect: Z =	0.91 (P =	= 0.36)								
									⊢ − − + − − + −	
									-10 -5 0 5	1
									Favours treatment Favours cor	ntrol

6.7 Mental state: 5. Negative symptoms (PANSS/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% Cl	IV, Random, 95% Cl
6.7.1 by 3 months									
BAKER2006	6.24	2.1	58	6.48	2.47	61	100.0%	-0.10 [-0.46, 0.26]	
Subtotal (95% CI)			58			61	100.0%	-0.10 [-0.46, 0.26]	•
Heterogeneity: Not applica	ble								
Test for overall effect: Z =	0.57 (P =	= 0.57))						
6.7.2 by 6 months									
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% Cl)			17				100.0%	-0.81 [-1.54, -0.08]	◆
Heterogeneity: Not applica	ble								
Test for overall effect: Z =		= 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		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	⁻ = 0.45); ² =	0%			
Test for overall effect: Z =	-				,,				
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]	•
Subtotal (95% CI)			144			132	100.0%	-0.51 [-1.71, 0.68]	
Heterogeneity: Tau ² = 0.66	6; Chi² =	8.25, 0	df = 1 (F	- = 0.00)4); ² =	= 88%			
Test for overall effect: Z =	-								
	(-								
									-10 -5 0 5 Favours treatment Favours control

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

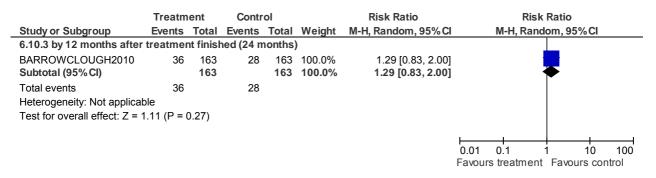
	Tre	eatmen	t	C	ontrol		9	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
6.8.1 by 3 months									
BAKER2006	16.93	12.51	58	10.93	10.43	61	100.0%	0.52 [0.15, 0.88]	
Subtotal (95% Cl)			58			61	100.0%	0.52 [0.15, 0.88]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	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% Cl)			58			61	100.0%	0.40 [0.04, 0.76]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 2.16	(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 ap	plicable								
Test for overall effect:	Z = 3.02	(P = 0.	002)						
								-	-2 -1 0 1
									Favours treatment Favours control

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

	Tre	atmer	nt	C	ontrol		5	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
6.9.1 by 3 months									
BAKER2006	6.43	2.46	58	7.39	3.51	61	100.0%	-0.31 [-0.68, 0.05]	
Subtotal (95% CI)			58			61	100.0%	-0.31 [-0.68, 0.05]	•
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.70) (P = (0.09)						
6.9.2 by 6 months									
BAKER2006	6.38	2.23	58	6.57	3.56	61	100.0%	-0.06 [-0.42, 0.30]	
Subtotal (95% CI)			58			61	100.0%	-0.06 [-0.42, 0.30]	•
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.34	(P=0	0.73)						
6.9.3 by 12 months									
BAKER2006	6.07	1.63	44	6.18	2.32	53	100.0%	-0.05 [-0.45, 0.35]	
Subtotal (95% CI)			44			53	100.0%	-0.05 [-0.45, 0.35]	•
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.26	6 (P = 0).79)						
								E. E	<u> </u>

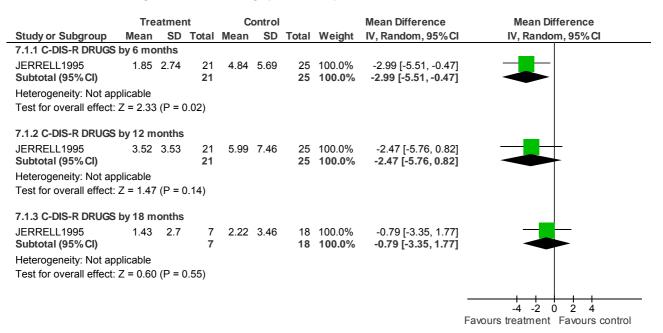
-10 -5 0 5 10 Favours treatment Favours control

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



7 GROUP PSYCHOTHERAPY versus STANDARD CARE (critical outcomes)

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



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

	Tre	atmer	nt	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
7.2.4 C-DIS-R Alcoho	ol by 6 mo	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]	\bullet
Heterogeneity: Not ap	plicable								
Test for overall effect:	: Z = 2.22	2 (P = 0	0.03)						
7.2.5 C-DIS-R Alcoho	ol by 12 m	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).45)						
7.2.6 C-DIS-R Alcoho	ol by 18 m	onths	i						
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]	\bullet
Heterogeneity: Not ap	plicable								
Test for overall effect:	: Z = 0.03	6 (P = 0).97)						
									-4 -2 0 2 4
									-4 -2 0 2 4

Favours treatment Favours control

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

	Tre	atmer	nt	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
7.3.1 by 6 months									
JERRELL1995	12.77	3.98	22	12.16	3.84	25	100.0%	0.61 [-1.63, 2.85]	
Subtotal (95% Cl)			22			25	100.0%	0.61 [-1.63, 2.85]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.53	6 (P = 0	0.59)						
7.3.2 by 12 months									
JERRELL1995	13.09	4.3	22	12.02	3.32	25	100.0%	1.07 [-1.15, 3.29]	
Subtotal (95% Cl)			22			25	100.0%	1.07 [-1.15, 3.29]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.95	6 (P = 0).34)						
7.3.3 by 18 months									
JERRELL1995	10.89	3.99	7	13.44	4.78	18	100.0%	-2.55 [-6.24, 1.14]	
Subtotal (95% Cl)			7			18	100.0%	-2.55 [-6.24, 1.14]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 1.35	6 (P = 0).18)						
									-10 -5 0 5

-10 -5 0 5 10 Favours control Favours treatment

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

	Tre	eatmen	t	С	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl
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% Cl)			22			25	100.0%	-0.92 [-6.58, 4.74]	•
Heterogeneity: Not app	olicable								
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% Cl)			22			25	100.0%	2.58 [-3.39, 8.55]	
Heterogeneity: Not ap	olicable								
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 ap	olicable								
Test for overall effect:	Z = 0.86	(P = 0.	39)						
									-50 -25 0 25 50
									Favours control Favours treatme

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

	Tre	atmer	nt	Co	Control			Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl	IV, Random, 95% Cl			
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 = ().57)						-20 -10 0 10 20 Favours treatment Favours control			

8 GROUP PSYCHOTHERAPY versus STANDARD CARE (non-critical outcomes)

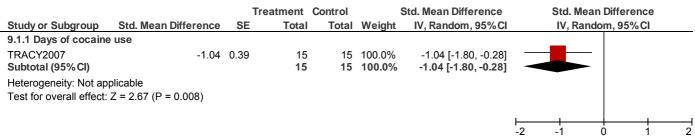
8.1 Lost to treatment

-

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
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	olicable						
Test for overall effect: 2	Z = 2.04 (P = 0.0	4)				
8.1.2 by 12 months							
HELLERSTEIN1995	12	23	18	24	100.0%	0.70 [0.44, 1.10]	 _
JERRELL1995	0	23	0	24	100.070	Not estimable	
Subtotal (95% CI)	0	45	0	49	100.0%	0.70 [0.44, 1.10]	
Total events	12		18				-
Heterogeneity: Not app			10				
Test for overall effect: 2		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	olicable						
Test for overall effect:	Z = 2.53 (P = 0.0	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. No. of days/weeks of drug use (confirmation by urine drug screen)

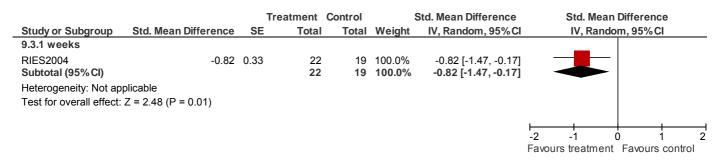


Favours treatment Favours control

9.2 Substance use: 2. No. of days/weeks of alcohol use (confirmation by breathalyzer)

Study or Subgroup 9.2.1 weeks of alcoho	Std. Mean Difference	SE	Freatment Total	Weight	Std. Mean Difference IV, Random, 95% Cl	Std. Mean Difference IV, Random, 95% Cl
RIES2004 Subtotal (95% CI)	-1.16	0.34	22 22	50.0% 50.0%	-1.16 [-1.83, -0.49] -1.16 [-1.83, -0.49]	
Heterogeneity: Not app Test for overall effect: 2						
9.2.2 days of alcohol	use					
TRACY2007 Subtotal (95% Cl)	-1.25	0.34	15 15	50.0% 50.0%	-1.25 [-1.92, -0.58] -1.25 [-1.92, -0.58]	
Heterogeneity: Not app Test for overall effect: 2						
0 ,	0.00; Chi² = 0.04, df = 1 (Z = 5.01 (P < 0.00001)	(P = 0.8	37 85); I² = 0%	100.0%	-1.21 [-1.68, -0.73]	-2 -1 0 1 2 Favours treatment Favours control

9.3 Substance use: 3. No. of days/weeks using both drugs and alcohol (confirmation by urine or breathalyzer)



9.4 Substance use: 4. Alcohol positive breathalyzer samples

		٦	Freatment	Control		Std. Mean Difference		Sto	. Mea	n Diff	erenc	е
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI		IV	Rand	lom, s	95% Cl	
TRACY2007	-1.97	0.54	15	15	100.0%	-1.97 [-3.03, -0.91]	←		-			
Total (95% Cl)			15	15	100.0%	-1.97 [-3.03, -0.91]			•			
Heterogeneity: Not ap Test for overall effect	oplicable : Z = 3.65 (P = 0.0003)						- Favou	2 rs tre	-1 atmen	0 t Fa	1 Ivours	2 control