APPENDIX 11. FOREST PLOTS

ASSERTIVE COMMUNITY TREATMENT

1.1 Assertive community treatment compared with treatment as usual

Mental health

1.1.1 Brief Psychiatric Rating Scale (24-item)

		АСТ			TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Fletcher 2008a	1.83	0.76	47	1.83	0.62	24	49.0%	0.00 [-0.49, 0.49]	
Fletcher 2009b	1.85	0.77	53	1.83	0.62	24	51.0%	0.03 [-0.46, 0.51]	-
Total (95% CI)			100			48	100.0%	0.01 [-0.33, 0.36]	•
Heterogeneity: Tau ² =									
Test for overall effect:	Z = 0.08) (P = 0).94)						Favours ACT Favours TAU

1.1.2 Depression (Depressive Symptom Scale)

	Enhanced ca	ise manage	ement		TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Striley 2013	3.13	2.04	64	3.35	2.25	56	100.0%	-0.10 [-0.46, 0.26]	
Total (95% CI)			64			56	100.0%	-0.10 [-0.46, 0.26]	•
Heterogeneity: Not ap Test for overall effect:	•	58)						Favou	-4 -2 0 2 4 rrs case management Favours TAU

1.1.3 Mental Health Treatment Index (MHTI)

	Enhanced ca	ase manage	ement		TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% Cl
Striley 2013	0.02	0.07	64	0.01	0.03	56	100.0%	0.18 [-0.18, 0.54]	
Total (95% CI)			64			56	100.0%	0.18 [-0.18, 0.54]	-
Heterogeneity: Not ap Test for overall effect:		33)						Favour	-1 -0.5 0 0.5 1 s case management Favours TAU

1.1.4 Homicidal-Suicidal Thought Index (HSTI)

	Enhanced ca	ase manage	ement		TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Striley 2013	0.32	0.81	64	0.34	0.75	56	100.0%	-0.03 [-0.38, 0.33]	
Total (95% CI)			64			56	100.0%	-0.03 [-0.38, 0.33]	
Heterogeneity: Not ap Test for overall effect:		89)						Favours En	-1 -0.5 0 0.5 1 hanced case management Favours TAU

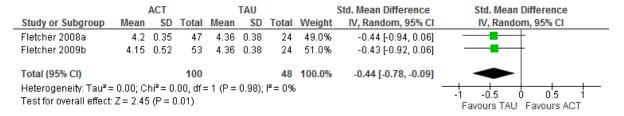
Substance use

1.1.5 Severity of alcohol and drug use

		АСТ		1	TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Fletcher 2008a	2.73	1.25	47	2.44	1.2	24	48.9%	0.23 [-0.26, 0.73]	-+
Fletcher 2009b	2.58	1.11	53	2.44	1.2	24	51.1%	0.12 [-0.36, 0.60]	
Total (95% CI)			100			48	100.0%	0.18 [-0.17, 0.52]	•
Heterogeneity: Tau ² =									
Test for overall effect:	Z=1.00) (P = ().32)						Favours ACT Favours TAU

Acceptability of services

1.1.6 Service user satisfaction



Adaptive functioning

1.1.7 Housing (days living in stable housing)

		ACT		Stan	dard ca	are		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Fletcher 2008a	15.99	12.49	47	11.81	14.25	24	48.8%	0.32 [-0.18, 0.81]	
Fletcher 2009b	13.55	13.45	53	11.81	14.25	24	51.2%	0.13 [-0.36, 0.61]	
Total (95% CI)			100			48	100.0%	0.22 [-0.13, 0.56]	-
Heterogeneity: Tau ² =									
Test for overall effect:	Z=1.24	(P = 0.1)	22)						Favours TAU Favours ACT

Service utilisation

1.1.8 Mean number of days of contact with assigned treatment programme

		АСТ			TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Fletcher 2008a	4.56	3.48	47	2.45	3.64	24	49.4%	0.59 [0.09, 1.09]	
Fletcher 2009b	5.13	3.81	53	2.45	3.64	24	50.6%	0.71 [0.21, 1.20]	
Total (95% CI)			100			48	100.0%	0.65 [0.30, 1.00]	•
Heterogeneity: Tau ² =	•								
Test for overall effect	: Z = 3.61	(P = t	1.0003)						Favours TAU Favours ACT

1.1.9 Mean number of days discussing substance use problems with assigned programme

		АСТ			TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Fletcher 2008a	0.88	1.53	47	0.69	2.46	24	49.3%	0.10 [-0.39, 0.59]	
Fletcher 2009b	0.27	0.72	53	0.69	2.46	24	50.7%	-0.28 [-0.76, 0.20]	
Total (95% CI)			100			48	100.0%	-0.09 [-0.46, 0.28]	-
Heterogeneity: Tau ² = Test for overall effect	-1 -0.5 0 0.5 1 Favours TAU Favours ACT								

1.1.10 Mean number of days they had speaking with assigned programme on the phone

		АСТ			TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Fletcher 2008a	4.69	5.22	47	0.82	1.46	24	49.5%	0.88 [0.37, 1.39]	
Fletcher 2009b	4.06	3.76	53	0.82	1.46	24	50.5%	0.99 [0.48, 1.50]	
Total (95% CI)			100			48	100.0%	0.94 [0.58, 1.30]	•
Heterogeneity: Tau ² =	-2 -1 0 1 2								
Test for overall effect:	Z = 5.08) (P < 0	0.00001	1)					Favours TAU Favours ACT

INTEGRATED TREATMENT¹

1.2 Integrated treatment compared with treatment as usual

Mental health

1.2.1 Mental health (composite score based on scores from: Brief Psychiatric Rating Scale, Wing Negative Symptom Scale, Raskin Depression Scale and Covi Anxiety Scale)

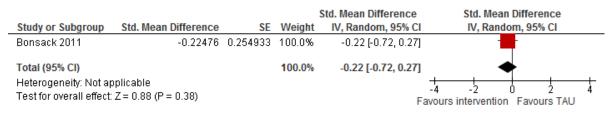
	Inte	rventio	on		TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Eack 2015	64.14	13.6	22	61.43	11.19	9	100.0%	0.20 [-0.57, 0.98]	
Total (95% CI)			22			9	100.0%	0.20 [-0.57, 0.98]	•
Heterogeneity: Not ap Test for overall effect:	•).61)					Fa	-10 -5 0 5 10 avours intervention Favours TAU

1.2.2 Psychotic symptoms (PANSS total)

Study or Subgroup	Std. Mean Difference	SE		Std. Mean Difference IV, Random, 95% Cl	Std. Mean Difference IV, Random, 95% Cl
Barrowclough 2001	-0.47	0.377551	13.4%	-0.47 [-1.21, 0.27]	
Barrowclough 2010	0.2	0.109694	53.6%	0.20 [-0.01, 0.41]	+∎-
Hjorthøj 2013	-0.03502	0.198083	33.0%	-0.04 [-0.42, 0.35]	
Total (95% CI)			100.0%	0.03 [-0.27, 0.33]	+
Heterogeneity: Tau² = Test for overall effect:	0.03; Chi² = 3.57, df = 2 Z = 0.21 (P = 0.83)	(P = 0.17); I	²= 44%	Fa	-1 -0.5 0 0.5 1 vours intervention Favours TAU

¹ Integrated treatment here refers to any intervention which was delivered in the context of a multidisciplinary team in combination with usual care

1.2.3 Psychotic symptoms (PANSS positive scale)



1.2.4 Psychotic symptoms (PANSS negative scale)

				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Bonsack 2011	-0.2952	0.255511	100.0%	-0.30 [-0.80, 0.21]	
Total (95% CI) Heterogeneity: Not ap Test for overall effect:			100.0%	-0.30 [-0.80, 0.21] Fav	-1 -0.5 0 0.5 1 vours intervention Favours TAU

1.2.5 Relapse (number of people with an exacerbation of symptoms for ≥2 weeks or hospital admission)

	Intervention TAU		J		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Barrowclough 2001	7	18	12	18	100.0%	0.58 [0.30, 1.13]	
Total (95% CI)		18		18	100.0%	0.58 [0.30, 1.13]	-
Total events	7		12				
Heterogeneity: Not ap	plicable						
Test for overall effect: Z = 1.59 (P = 0.11)						F	Favours intervention Favours TAU

1.2.6 Relapse (number of people with an exacerbation of symptoms for ≥2 weeks)

	Intervention		TAU	J		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% CI
Barrowclough 2010	63	161	61	161	100.0%	1.03 [0.78, 1.36]	
Total (95% CI)		161		161	100.0%	1.03 [0.78, 1.36]	-
Total events	63		61				
Heterogeneity: Not ap	plicable						
Test for overall effect:	2)			F	avours intervention Favours TAU		

1.2.7 Hospital admission (number of people admitted)

	Intervention TAU			Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Barrowclough 2010	38	163	33	163	75.6%	1.15 [0.76, 1.74]	
Bonsack 2011	9	30	11	32	24.4%	0.87 [0.42, 1.80]	
Total (95% CI)		193		195	100.0%	1.08 [0.75, 1.54]	+
Total events	47		44				
Heterogeneity: Tau² = Test for overall effect: .				= 0.51); I² = 0%		0.1 0.2 0.5 1 2 5 10 avours intervention Favours TAU

Substance use

1.2.8 Substance use (mean % of days abstinent from main drug)

	Intervention TAU			Std. Mean Difference Std. Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Barrowclough 2010	51.29	39.8	129	48.77	39.69	117	100.0%	0.06 [-0.19, 0.31]	-
Total (95% CI)			129			117	100.0%	0.06 [-0.19, 0.31]	+
Heterogeneity: Not applicable Test for overall effect: Z = 0.49 (P = 0.62)								Fa	-1 -0.5 0 0.5 1 vours intervention Favours TAU

1.2.9 Substance use (mean % of days abstinent from any drug)

	Intervention				TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Barrowclough 2010	44.25	38.36	130	37.18	36.89	117	100.0%	0.19 [-0.06, 0.44]	│
Total (95% CI)			130			117	100.0%	0.19 [-0.06, 0.44]	►
Heterogeneity: Not applicable Test for overall effect: Z = 1.46 (P = 0.14)				F	-1 -0.5 0 0.5 1 Favours intervention Favours TAU				

1.2.10 Substance use (abstinence from drugs or alcohol by the end of the study)

Study or Subgroup	Std. Mean Difference	SE		Std. Mean Difference IV, Random, 95% Cl	Std. Mean Difference IV, Random, 95% Cl
Eack 2015	-0.37825	0.398589	100.0%	-0.38 [-1.16, 0.40]	
Total (95% CI)			100.0%	-0.38 [-1.16, 0.40]	
Heterogeneity: Not ap Test for overall effect:				Fa	-1 -0.5 0 0.5 1 vours Intervention Favours TAU

Adaptive functioning

1.2.11 Global assessment of functioning

				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Barrowclough 2001	0.4	0.375	8.0%	0.40 [-0.33, 1.13]	
Barrowclough 2010	-0.02	0.112245	75.1%	-0.02 [-0.24, 0.20]	-#-
Bonsack 2011	-0.25484	0.255161	16.9%	-0.25 [-0.75, 0.25]	
Total (95% CI)			100.0%	-0.03 [-0.24, 0.18]	•
Heterogeneity: Tau ² = Test for overall effect:	: 0.00; Chi ² = 2.10, df = 2 Z = 0.24 (P = 0.81)	(P = 0.35); I	²= 5%		-1 -0.5 0 0.5 1 urs intervention Favours TAU
				Favo	uis intervention Favouis TAO

1.2.12 Quality of life (Manchester Short Assessment of Quality of Life)

				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Hjorthøj 2013	-0.2107	0.198616	100.0%	-0.21 [-0.60, 0.18]	
Total (95% CI)			100.0%	-0.21 [-0.60, 0.18]	-
Heterogeneity: Not ap Test for overall effect:				Fa	-1 -0.5 0 0.5 1 vours intervention Favours TAU

1.2.13 Social functioning (composite score based on scores from: Social Adjustment Scale-II, Major Role Adjustment Inventory and the Global Assessment Scale)

	Intervention			TAU				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean SD Total Mean SD Total		al Weight IV, Random, 95% Cl IV, Rando		IV, Random, 95% CI				
Eack 2015	60.15	12.031	22	57.56	10.77	9	100.0%	0.22 [-0.56, 0.99]	
Total (95% CI)			22			9	100.0%	0.22 [-0.56, 0.99]	+
Heterogeneity: Not ap Test for overall effect:	•		9)					Fa	-4 -2 0 2 4 avours intervention Favours TAU

1.2.14 Social functioning (Social Functioning Scale)

	Intervention			TAU			Std. Mean Difference	Std. Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Barrowclough 2001	106.6	28.157	15	100.23	37.491	14	100.0%	0.19 [-0.54, 0.92]	
Total (95% CI) Heterogeneity: Not ap Test for overall effect:			15 I)			14	100.0%	0.19 [-0.54, 0.92]	-4 -2 0 2 4 Favours TAU Favours intervention

1.2.15 Social and occupational functioning (Social and Occupational Functioning Assessment Scale)

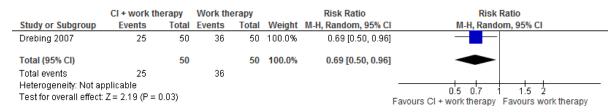
Study or Subgroup	Std. Mean Difference	SE	Weight	Std. Mean Difference IV, Random, 95% Cl	Std. Mean Difference IV, Random, 95% Cl
Bonsack 2011	-0.16446	0.254561	100.0%	-0.16 [-0.66, 0.33]	
Total (95% CI) Heterogeneity: Not ap Test for overall effect:			100.0%	-0.16 [-0.66, 0.33] Fa	-1 -0.5 0 0.5 1 vours intervention Favours TAU

OTHER INTERVENTIONS

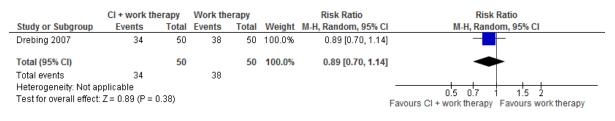
1.3 Contingency management combined with compensated work therapy compared with compensated work therapy alone

Substance use

1.3.1 Substance use relapse (16 weeks' follow-up)



1.3.2 Substance use relapse (39 weeks' follow-up)



Adaptive functioning

1.3.3 Employment

	CI + work th	erapy	Work the	егару		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Rand	om, 95% Cl	
Drebing 2007	25	50	14	50	100.0%	1.79 [1.06, 3.02]			
Total (95% CI)		50		50	100.0%	1.79 [1.06, 3.02]		◆	
Total events	25		14						
Heterogeneity: Not ap Test for overall effect:		0.03)					0.01 0.1 Favours work therapy	1 10 Favours CI + w	100 ork therapy

1.4 Time-limited care co-ordination compared with a matched attention control

Substance use

1.4.1 Alcohol use (in the previous 30 days)

	Interver	ntion	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Smelson 2012	13	40	14	26	100.0%	0.60 [0.34, 1.07]	
Total (95% CI)		40		26	100.0%	0.60 [0.34, 1.07]	•
Total events	13		14				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Test for overall effect: $Z = 1.73$ (P = 0.08)						Favours intervention Favours control

Service utilisation

1.4.2 Attending an outpatient appointment

	Interver	ntion	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Smelson 2012	27	39	8	24	100.0%	2.08 [1.14, 3.80]	
Total (95% CI)		39		24	100.0%	2.08 [1.14, 3.80]	
Total events	27		8				
Heterogeneity: Not ap	oplicable						
Test for overall effect:	Z= 2.37 (P = 0.02	2)				Favours control Favours intervention

1.5 Shelter-based psychiatric clinic compared with treatment as usual

Adaptive functioning

1.5.1 Employment (number of participants)

	Shelter base	l clinic	Standard	l care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% CI
Bradford 2005	17	50	10	49	100.0%	1.67 [0.85, 3.27]	+=-
Total (95% CI)		50		49	100.0%	1.67 [0.85, 3.27]	•
Total events	17		10				
Heterogeneity: Not a Test for overall effect		14)					0.01 0.1 1 10 100 Favours standard care Favours shelter clinic

1.5.2 Housing (number of participants)

	Shelter based	l clinic	Standard	l care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Bradford 2005	22	49	18	47	100.0%	1.17 [0.73, 1.89]	
Total (95% CI)		49		47	100.0%	1.17 [0.73, 1.89]	
Total events	22		18				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 0.65 (P = 0.9	51)					Favours standard care Favours shelter clinic

Service utilisation

1.5.3 Attending community mental health appointment (attending ≥1 community mental health appointments)

	Shelter based	d clinic	Standard	l care		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl			
Bradford 2005	33	51	19	51	100.0%	1.74 [1.15, 2.62]				
Total (95% CI)		51		51	100.0%	1.74 [1.15, 2.62]	•			
Total events	33		19							
Heterogeneity: Not ap	pplicable									
Test for overall effect	: Z = 2.64 (P = 0.	008)					Favours standard care Favours shelter clinic			

1.5.4 Attending community mental health appointment (attending ≥2 community mental health appointments)

	Shelter based of	linic	Standard	l care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Bradford 2005	17	51	9	51	100.0%	1.89 [0.93, 3.84]	⊢ ∎
Total (95% CI)		51		51	100.0%	1.89 [0.93, 3.84]	-
Total events	17		9				
Heterogeneity: Not ap Test for overall effect:	•	3)					0.1 0.2 0.5 1 2 5 10 Favours standard care Favours shelter clinic

1.5.5 Attending community mental health appointment (attending ≥3 community mental health appointments)

	Shelter based	l clinic	Standard	l care		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl			
Bradford 2005	10	51	7	51	100.0%	1.43 [0.59, 3.46]				
Total (95% CI)		51		51	100.0%	1.43 [0.59, 3.46]				
Total events	10		7							
Heterogeneity: Not ap	oplicable									
Test for overall effect:	Z = 0.79 (P = 0.	43)					Favours standard care Favours shelter clinic			

1.5.6 Attending substance use programme (includes only participants who had a substance use disorder)

	Shelter based	clinic	Standard	l care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Bradford 2005	19	37	4	32	100.0%	4.11 [1.56, 10.82]	
Total (95% CI)		37		32	100.0%	4.11 [1.56, 10.82]	-
Total events	19		4				
Heterogeneity: Not ap	oplicable						
Test for overall effect:	est for overall effect: Z = 2.86 (P = 0.004)						Favours standard care Favours shelter clinic

1.6 Staff training compared with no training

Mental health

1.6.1 Brief Psychiatric Rating Scale (24-item)

	Train	ing st	aff	No	trainin	g		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	37	9.8	109	41.6	11.2	97	100.0%	-0.44 [-0.71, -0.16]	
Total (95% CI)			109			97	100.0%	-0.44 [-0.71, -0.16]	-
Heterogeneity: Not a Test for overall effect			1.002)						-1 -0.5 0 0.5 1 Favours training staff Favours no training

1.6.2 Hospital admission (mean days in hospital)

	Trai	Training staff No training						Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	74.9	142.6	113	71.8	128.1	97	100.0%	0.02 [-0.25, 0.29]	
Total (95% CI)			113			97	100.0%	0.02 [-0.25, 0.29]	🔶 .
Heterogeneity: Not a Test for overall effect			87)						-1 -0.5 0 0.5 1 Favours training staff Favours no training

1.6.3 Hospital admission (number of participants admitted)

	Training	ning staff No training				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Johnson 2007	49	113	47	97	100.0%	0.89 [0.67, 1.20]	
Total (95% CI)		113		97	100.0%	0.89 [0.67, 1.20]	-
Total events	49		47				
Heterogeneity: Not applicable Test for overall effect: Z = 0.74 (P = 0.46)							0.2 0.5 1 2 5 Favours training staff Favours no training

Substance use

1.6.4 Alcohol use (total standard units)

	Trai	ning sta	aff	No	trainin	9		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% Cl
Johnson 2007	104.7	169.4	76	130.4	223.2	76	100.0%	-0.13 [-0.45, 0.19]	
Total (95% CI)			76			76	100.0%	-0.13 [-0.45, 0.19]	
Heterogeneity: Not ap Test for overall effect:			43)						-1 -0.5 0 0.5 1 Favours training staff Favours no training

1.6.5 Alcohol use (number of participants using)

	Training	staff	No trai	ning		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Johnson 2007	56	76	54	76	100.0%	1.04 [0.85, 1.26]	
Total (95% CI)		76		76	100.0%	1.04 [0.85, 1.26]	+
Total events	56		54				
Heterogeneity: Not ap Test for overall effect:	•	° = 0.72)				0.2 0.5 1 2 5 Favours training staff Favours no training

1.6.6 Cannabis use (total monetary value)

	Training staff			aff No training				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	35.11	70.26	76	32.71	98.07	76	100.0%	0.03 [-0.29, 0.35]	
Total (95% CI)			76			76	100.0%	0.03 [-0.29, 0.35]	+
Heterogeneity: Not ap Test for overall effect:			86)						-1 -0.5 0 0.5 1 Favours training staff Favours no training

1.6.7 Cannabis use (number of participants using)

	Training staff		No trai	ning		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Johnson 2007	24	76	27	76	100.0%	0.89 [0.57, 1.39]	
Total (95% CI)		76		76	100.0%	0.89 [0.57, 1.39]	-
Total events Heterogeneity: Not ap Test for overall effect:	•	° = 0.61	27				0.05 0.2 1 5 20 Favours training staff Favours no training

1.6.8 Other drug use (total monetary value)

	Tra	ining sta	ff	No	training			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	33.36	154.38	76	124.79	470.22	76	100.0%	-0.26 [-0.58, 0.06]	
Total (95% CI)			76			76	100.0%	-0.26 [-0.58, 0.06]	-
Heterogeneity: Not a Test for overall effect			1)						-1 -0.5 0 0.5 1 Favours training staff Favours no training

1.6.9 Other drug use (number of participants using)

	Training	staff	No trai	ning		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Johnson 2007	12	76	13	76	100.0%	0.92 [0.45, 1.89]	
Total (95% CI)		76		76	100.0%	0.92 [0.45, 1.89]	-
Total events	12		13				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.83)				0.1 0.2 0.5 1 2 5 10 Favours training staff Favours no training

Adaptive functioning

1.6.10 Social functioning (Life Skills Profile)

	Training staff			No training				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	121	16.3	109	120.5	15.8	97	100.0%	0.03 [-0.24, 0.30]	
Total (95% CI)			109			97	100.0%	0.03 [-0.24, 0.30]	• • • •
Heterogeneity: Not ap Test for overall effect:			1.82)						-2 -1 0 1 2 Favours no training Favours training staff

1.6.11 Quality of life (Manchester Short Assessment of Quality of Life)

	Trair	ning st	aff	No	trainin	g		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	53.4	12.1	109	50	12.8	97	100.0%	0.27 [-0.00, 0.55]	
Total (95% CI)			109			97	100.0%	0.27 [-0.00, 0.55]	◆
Heterogeneity: Not ap Test for overall effect:	•		1.05)						-1 -0.5 0 0.5 1 Favours no training Favours training staff

Acceptability of services

1.6.12 Service user satisfaction (Client Satisfaction Questionnaire)

	Training staff			No training			1	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	23.5	6.5	109	23.4	6.3	97	100.0%	0.02 [-0.26, 0.29]	
Total (95% CI)			109			97	100.0%	0.02 [-0.26, 0.29]	🔶
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	.91)						-2 -1 0 1 2 Favours no training Favours training staff

1.6.13 Treatment satisfaction (Treatment Perceptions Questionnaire)

	Training staff			No training				Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Johnson 2007	21.5	0.8	109	21.1	0.75	97	100.0%	0.51 [0.23, 0.79]	
Total (95% CI)			109			97	100.0%	0.51 [0.23, 0.79]	▲ · · · · · · · · · · · · · · · · · · ·
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	.0003)						-2 -1 0 1 2 Favours no training Favours training staff

1.7 Supportive housing compared with treatment as usual

Mental health

1.7.1 Mental health (Colorado Symptom Index)

	Suppor	tive hou	sing		TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Aubry 2015	33.26	11.9	469	34.51	12.48	481	100.0%	-0.10 [-0.23, 0.02]	
Total (95% CI)			469			481	100.0%	-0.10 [-0.23, 0.02]	•
Heterogeneity: Not ap Test for overall effect:	•	P = 0.11))						-0.5 -0.25 0 0.25 0.5 Favours housing Favours TAU

Substance use

1.7.2 Substance use (≥2 substance-use problems in the past month)

	Supportive ho	TAU	J		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl
Aubry 2015	188	469	192	481	100.0%	1.00 [0.86, 1.17]	-
Total (95% CI)		469		481	100.0%	1.00 [0.86, 1.17]	+
Total events	188		192				
Heterogeneity: Not ap	oplicable						
Test for overall effect:	Z = 0.05 (P = 0.	.96)					Favours housing Favours TAU

Adaptive functioning

1.7.3 Housing (number of participants in stable housing)

	Supportive housing					Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M-H, Random, 95% Cl		
Aubry 2015	316	433	124	400	100.0%	2.35 [2.01, 2.75]			
Total (95% CI)		433		400	100.0%	2.35 [2.01, 2.75]	•		
Total events	316		124						
Heterogeneity: Not ap	pplicable					-			
Test for overall effect	: Z=10.69 (P ≺	0.00001)					Favours TAU Favours housing		

1.7.4 Quality of life (Quality of Life Interview-20)

	Suppo	Supportive housing			TAU		1	Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
Aubry 2015	90.48	20.75	469	83.97	6.94	481	100.0%	0.42 [0.29, 0.55]			
Total (95% CI)			469			481	100.0%	0.42 [0.29, 0.55]	•		
Heterogeneity: Not ap Test for overall effect:		-1 -0.5 0 0.5 1 Favours TAU Favours housing									

1.7.5 General functioning

	Suppor	tive hou	sing		TAU			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Aubry 2015	62.46	8.66	469	60.34	9.09	481	100.0%	0.24 [0.11, 0.37]	
Total (95% CI)			469			481	100.0%	0.24 [0.11, 0.37]	◆
Heterogeneity: Not ap Test for overall effect:		P = 0.001	02)						-1 -0.5 0 0.5 1 Favours TAU Favours housing

1.8 Supportive text messaging compared with control messages

Mental health

1.8.1 Depression (Beck Depression Inventory-II)

	Supportive	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
Agyapong 2013	13.28	8.7	26	15.08	11.37	28	100.0%	-0.17 [-0.71, 0.36]	
Total (95% CI)			26			28	100.0%	-0.17 [-0.71, 0.36]	
Heterogeneity: Not ap Test for overall effect:						Fa	-2 -1 0 1 2 avours text message Favours control		

Substance use

1.8.2 Drink related beliefs (Obsessive-compulsive drinking scale)

	Supportive	text mes	sage	Co	ontro	1		Std. Mean Difference	Std. Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI	
Agyapong 2013	7.7	4.9	26	10.7	7.7	28	100.0%	-0.45 [-1.00, 0.09]		
Total (95% CI)			26			28	100.0%	-0.45 [-1.00, 0.09]	•	
Heterogeneity: Not ap Test for overall effect:		D.10)						Fa	-2 -1 0 1 2 vours text message Favours control	

1.8.3 Alcohol use (mean days abstinent)

	Supportive	Supportive text message						Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
Agyapong 2013	84.14	9.2	26	74.73	28.97	28	100.0%	0.42 [-0.12, 0.97]	+		
Total (95% CI)			26			28	100.0%	0.42 [-0.12, 0.97]	→		
Heterogeneity: Not ap Test for overall effect:	•		-2 -1 0 1 2 Favours control Favours text message								

1.8.4 Confidence in abstaining from alcohol (alcohol abstinence self-efficacy scale)

	Supportive	Control			1	Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Agyapong 2013	75.6	11	26	71.1	14	28	100.0%	0.35 [-0.19, 0.89]	
Total (95% CI)			26			28	100.0%	0.35 [-0.19, 0.89]	◆ 1
Heterogeneity: Not ap Test for overall effect:	•	0.20)						-	-4 -2 0 2 4 Favours control Favours text message

Adaptive functioning

1.8.5 Global assessment of functioning

	Supportive text message			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
Agyapong 2013	83.81	12.34	26	74.1	21.8	28	100.0%	0.53 [-0.01, 1.08]	
Total (95% CI) Heterogeneity: Not ap Test for overall effect:		0.05)	26			28	100.0%	0.53 [-0.01, 1.08]	-2 -1 0 1 2 Favours control Favours text message