Appendix O: Clinical evidence – forest plots for all studies

Abbreviations

ABCS	Abel and Becker Cognitions Scale
ACT	acceptance and commitment therapy
APQ	Alabama Parenting Questionnaire
ASI-6	Addiction Severity Index-6
BDI	Beck Depression Inventory
BSI	Brief Symptom Inventory
CBT	cognitive behavioural therapy
CES-D	Centre for Epidemiological Studies Depression scale
CIB	Coding Interactive Behaviour scales
CJS	criminal justice system
CMHS (-M/W)	Correctional Mental Health Screen (for Men/Women)
ECBI	Eyberg Child Behaviour Inventory
HELP-PC	
MORS	Mother's Object Relations Scale
MPA	medroxyprogesterone acetate
PANAS	Positive and Negative Affect Scale
PDI	Parent Development Interview
PSS	Perceived Stress Scale
RDS	Referral Decision Scale
ROC	receiver operating characteristic
RCT	randomised controlled trial
SCL-90-R	Symptom Checklist-90-Revised
SIP	Short Inventory of Problems
SOR	sex offender's register
SOTP	sex offender treatment programme
VISCI	Viennese Instrument for Suicidality in Correctional Institutions

O.1 Assessment tools

O.1.1 Tools for the recognition of mental health problems

Figure 1: Sensitivity and specificity of index tests for the recognition of depression

HELP-PC

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
McKinnon 2014	21	60	7	235	0.75 [0.55, 0.89]	0.80 [0.75, 0.84]

Referral Decision Scale (RDS): Depression Subscale - Cut-Off 2

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Harrison 2007	11	44	2	43	0.85 [0.55, 0.98]	0.49 [0.39, 0.60]
Teplin 1989a	33	14	3	678	0.92 [0.78, 0.98]	0.98 [0.97, 0.99]
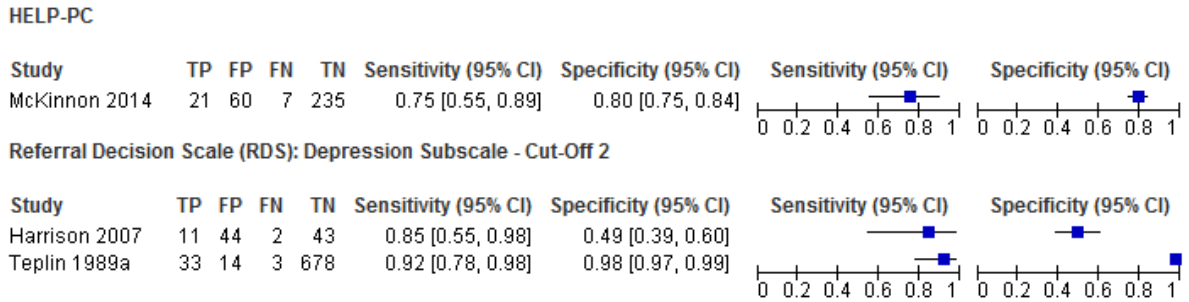
Figure 2: Summary ROC curves for the index tests for depression

Legend
- ○ HELP-PC
- ◇ Referral Decision Scale (RDS): Depression Subscale - Cut-Off 2
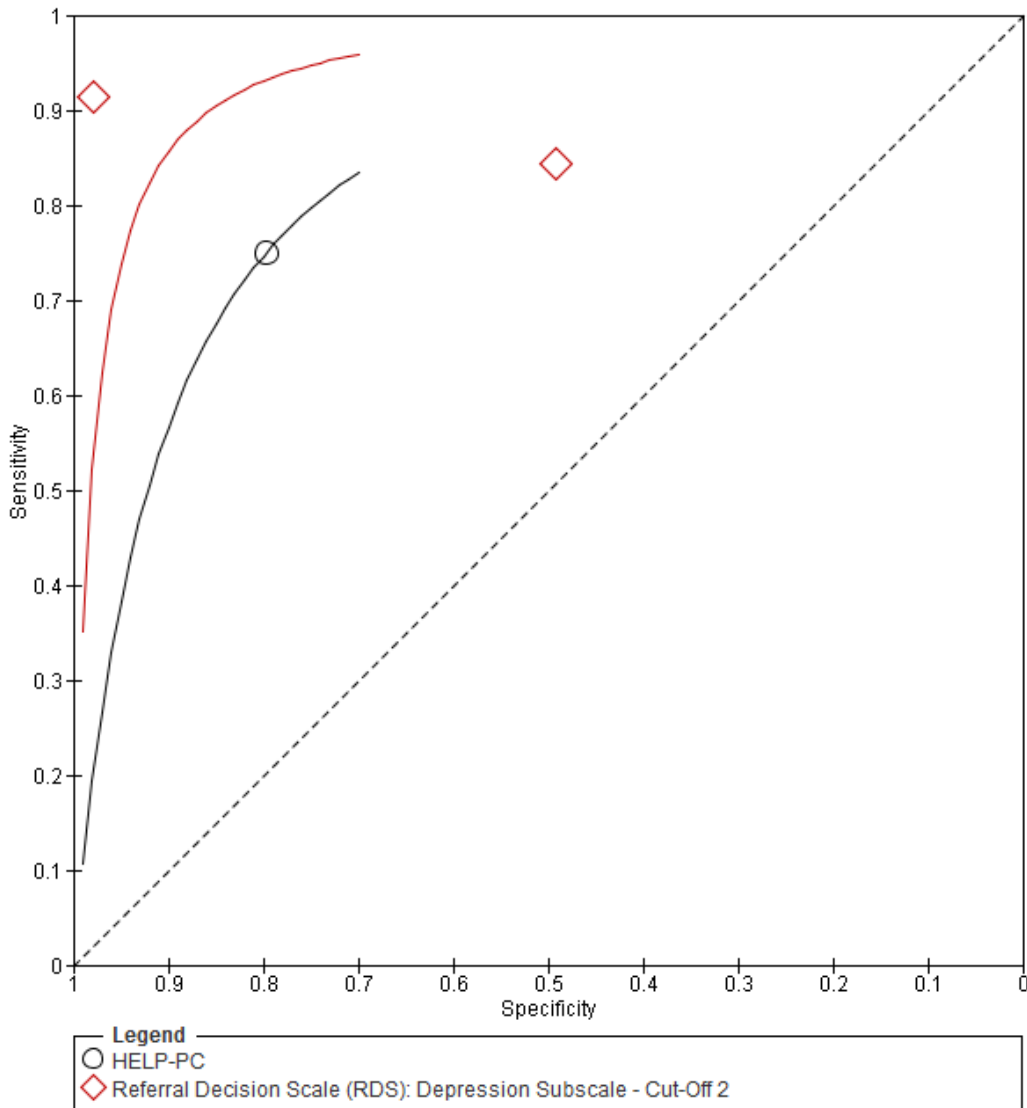
Figure 3: Sensitivity and specificity of the RDS for the recognition of bipolar disorder

Referral Decision Scale (RDS): Bipolar Subscale - Cut-off 1

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Teplin 1989a	24	92	0	612	1.00 [0.86, 1.00]	0.87 [0.84, 0.89]

Referral Decision Scale (RDS): Bipolar Subscale - Cut-off 2

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Teplin 1989a	22	14	2	690	0.92 [0.73, 0.99]	0.98 [0.97, 0.99]

Referral Decision Scale (RDS): Bipolar Subscale - Cut-off 3

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Teplin 1989a	20	0	4	704	0.83 [0.63, 0.95]	1.00 [0.99, 1.00]

Figure 4: Summary ROC curves for the RDS for bipolar disorder

Legend
- ○ Referral Decision Scale (RDS): Bipolar Subscale - Cut-off 1
- ◇ Referral Decision Scale (RDS): Bipolar Subscale - Cut-off 2
- ☐ Referral Decision Scale (RDS): Bipolar Subscale - Cut-off 3
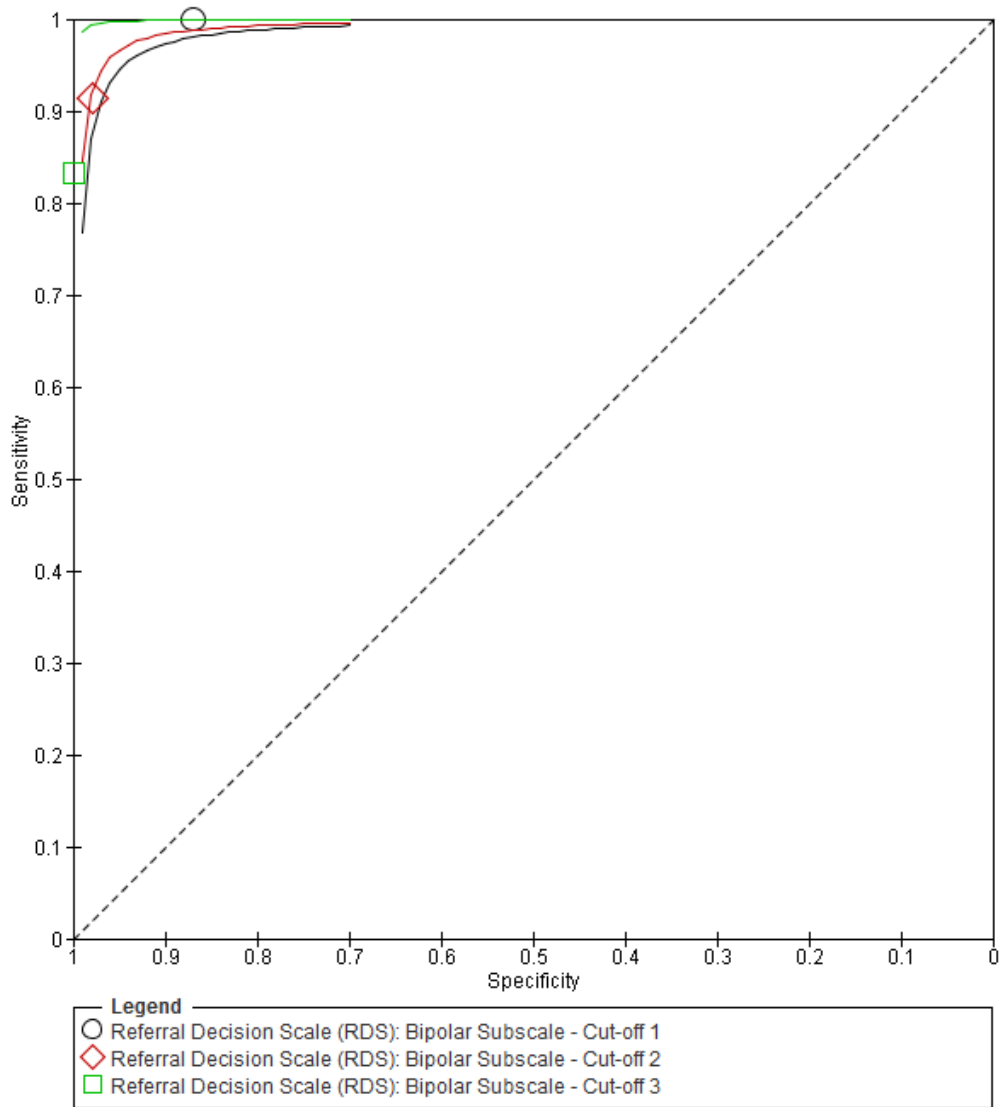
Figure 5: Sensitivity and specificity of index tests for the recognition of affective disorder

Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 7 - All Men

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	20	48	4	129	0.83 [0.63, 0.95]	0.73 [0.66, 0.79]

Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 7 - Caucasian Men

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	17	18	1	62	0.94 [0.73, 1.00]	0.78 [0.67, 0.86]

Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 7 - Black Men

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	3	20	0	46	1.00 [0.29, 1.00]	0.70 [0.57, 0.80]

Correctional Mental Health Screen for Women (CMHS-W) - Cut-off 5

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	24	20	9	47	0.73 [0.54, 0.87]	0.70 [0.58, 0.81]

Figure 6: Summary ROC curves for the index tests for affective disorder

Legend
- ○ Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 7 - All Men
- ◇ Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 7 - Caucasian Men
- □ Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 7 - Black Men
- △ Correctional Mental Health Screen for Women (CMHS-W) - Cut-off 5
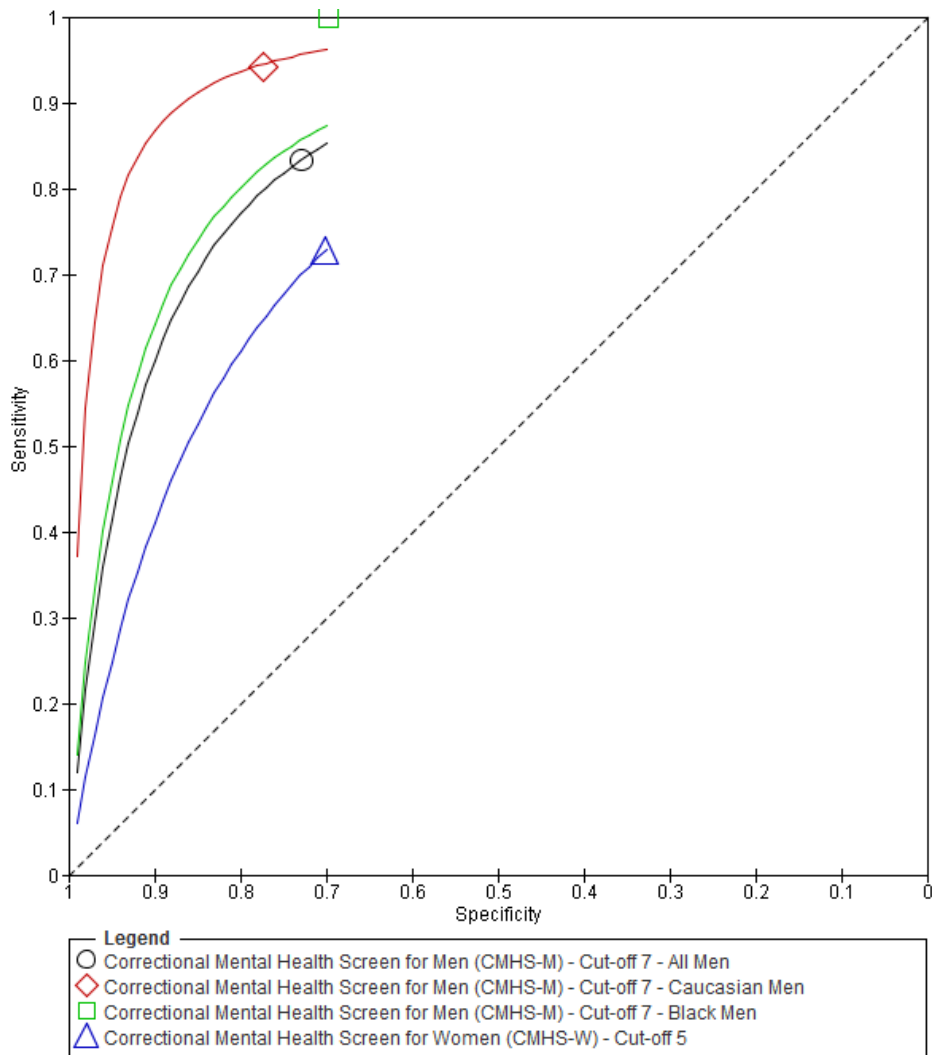
Figure 7: Sensitivity and specificity of the HELP-PC (cut-off 1) for the recognition of learning disabilities

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
McKinnon 2015	5	41	1	304	0.83 [0.36, 1.00]	0.88 [0.84, 0.91]		

Figure 8: Summary ROC curve for the HELP-PC for learning disabilities
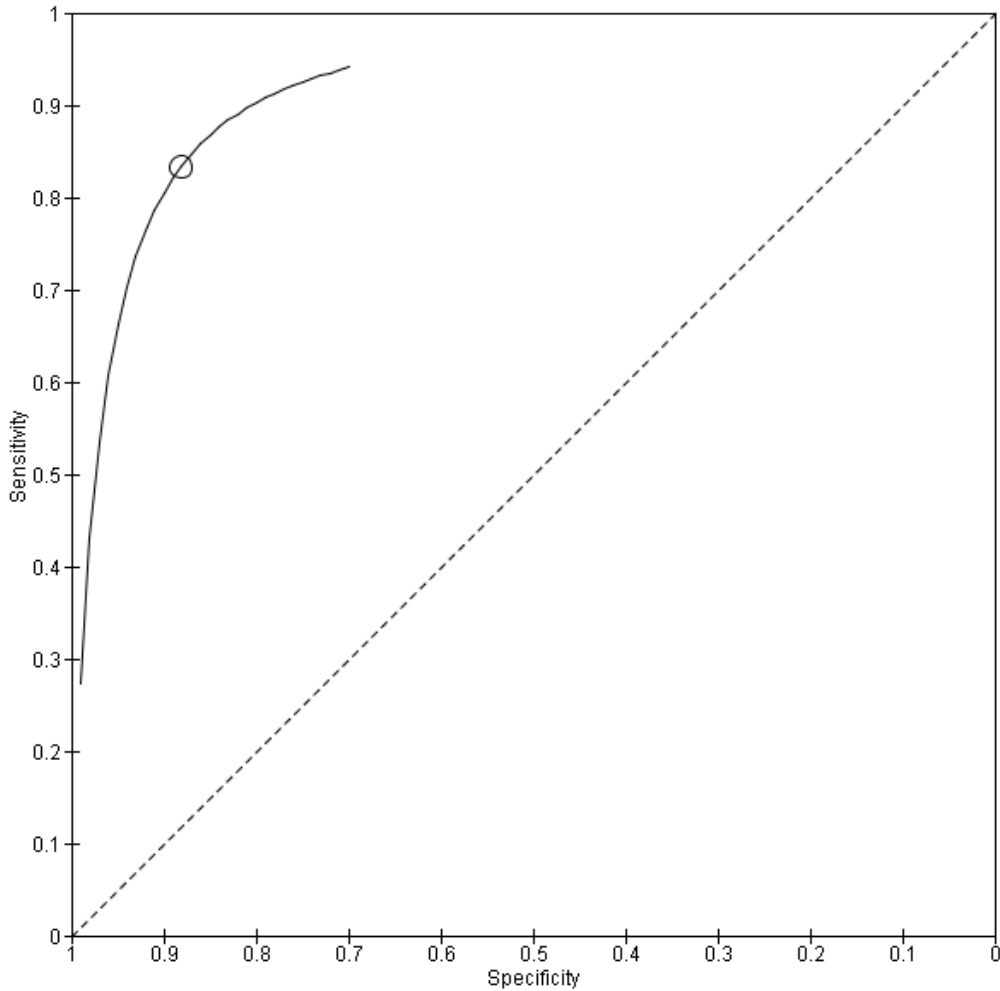
Figure 9: Sensitivity and specificity of RDS: schizophrenia subscale (cut-off 1) for the recognition of schizophrenia

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Teplin 1989a	21	28	3	676	0.88 [0.68, 0.97]	0.96 [0.94, 0.97]		

Figure 10:   Summary ROC curve for the RDS: schizophrenia subscale for schizophrenia
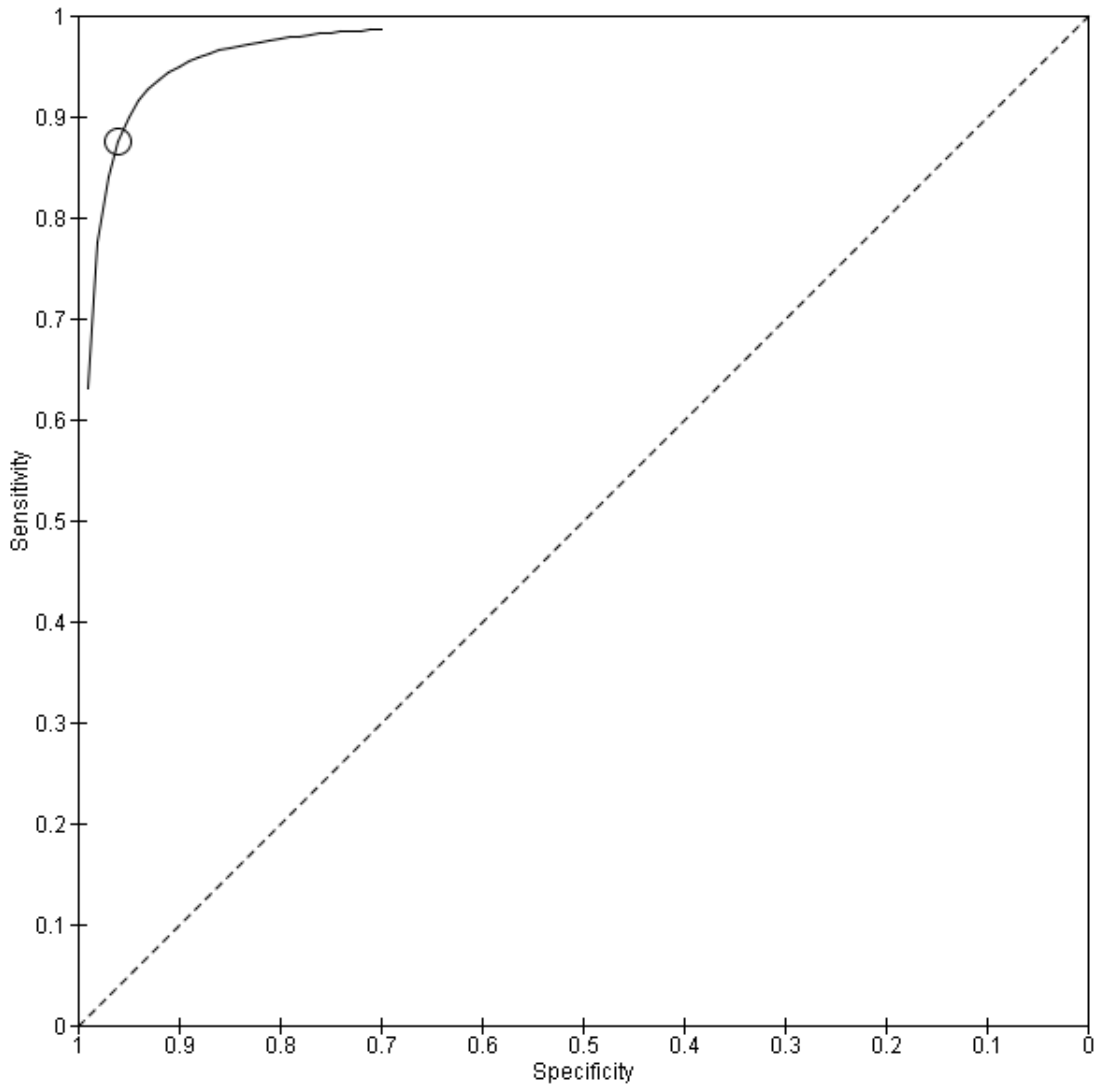
Figure 11:   Sensitivity and specificity of the HELP-PC (cut-off not reported) for the recognition of psychosis

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
McKinnon 2014	26	55	2	240	0.93 [0.76, 0.99]	0.81 [0.76, 0.86]		

Figure 12:   Summary ROC curve for the HELP-PC for psychosis
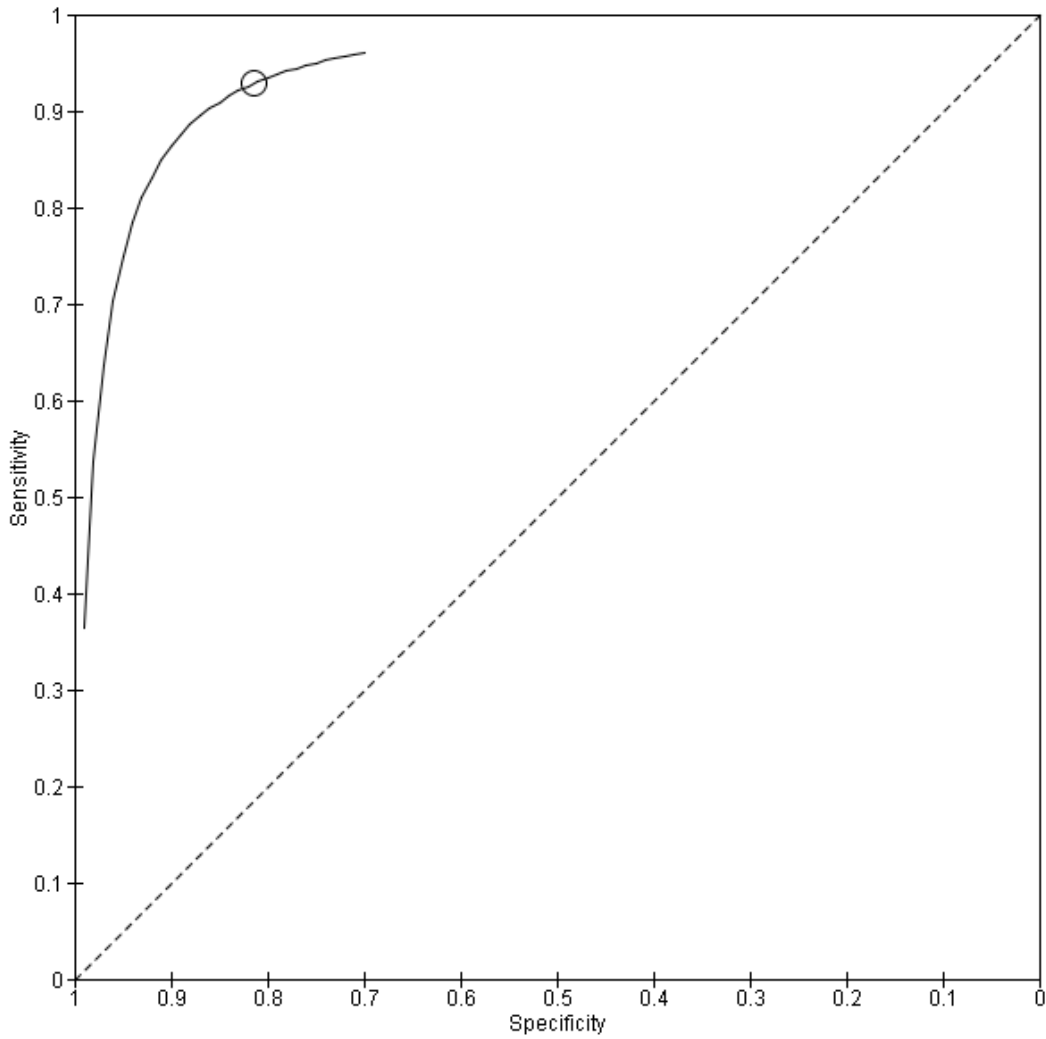
Figure 13:   Sensitivity and specificity of the CMHS-W (cut-off 4) for the recognition of Axis-I or Axis-II disorder

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2009	51	5	17	27	0.75 [0.63, 0.85]	0.84 [0.67, 0.95]		

Figure 14:   Summary of ROC curve for the CMHS-W for Axis-I or Axis-II disorder
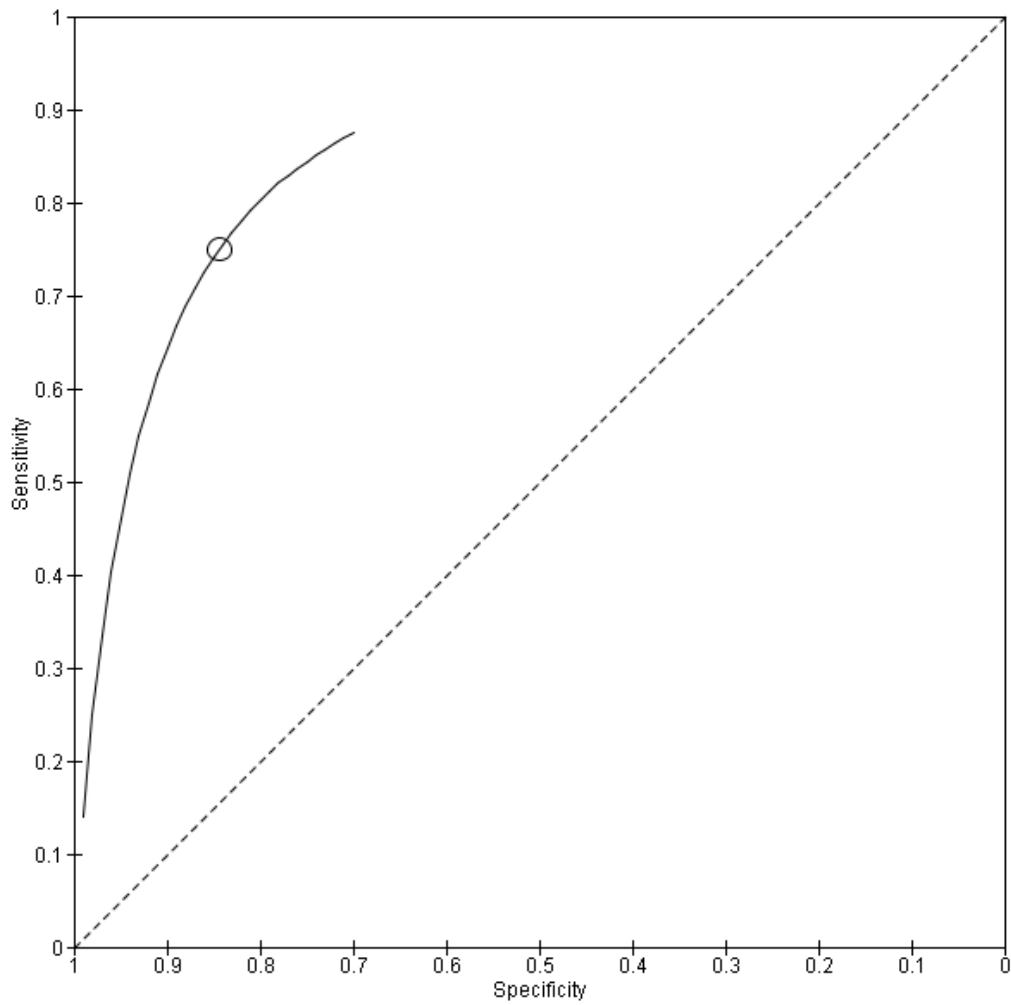
Figure 15:   Sensitivity and specificity of index tests for the recognition of Axis-I or Axis-II disorder excluding Anti-Social Personality Disorder

Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 5

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2009	37	13	9	47	0.80 [0.66, 0.91]	0.78 [0.66, 0.88]

Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 6

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	51	33	18	99	0.74 [0.62, 0.84]	0.75 [0.67, 0.82]
Ford 2009	32	10	14	50	0.70 [0.54, 0.82]	0.83 [0.71, 0.92]

Correctional Mental Health Screen for Men (CMHS-M) - Cut off 6 - Caucasian Men

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	27	14	6	50	0.82 [0.65, 0.93]	0.78 [0.66, 0.87]

Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 6 - Black Men

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	16	14	4	35	0.80 [0.56, 0.94]	0.71 [0.57, 0.83]

Correctional Mental Health Screen for Women (CMHS-W) - Cut-off 4

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2009	45	11	16	28	0.74 [0.61, 0.84]	0.72 [0.55, 0.85]

Referral Decision Scale (RDS) - Cut-off 3

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Ford 2007	11	2	4	10	0.73 [0.45, 0.92]	0.83 [0.52, 0.98]

Figure 16: Summary ROC curves for the index tests for Axis-I or Axis-II disorder excluding Anti-Social Personality Disorder

Legend
○ Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 5
◇ Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 6
□ Correctional Mental Health Screen for Men (CMHS-M) - Cut off 6 - Caucasian Men
△ Correctional Mental Health Screen for Men (CMHS-M) - Cut-off 6 - Black Men
✕ Correctional Mental Health Screen for Women (CMHS-W) - Cut-off 4
✛ Referral Decision Scale (RDS) - Cut-off 3
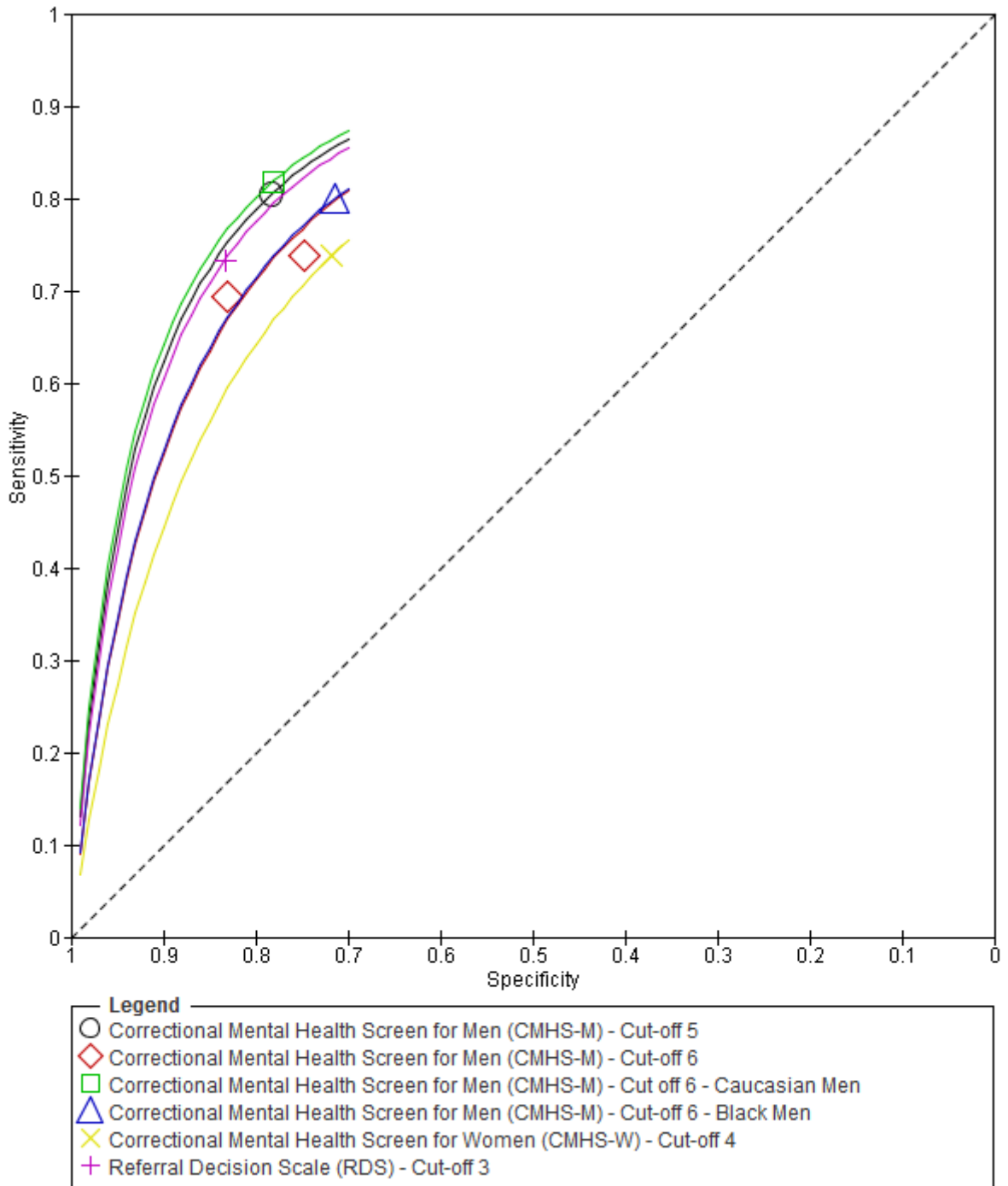
Figure 17: Sensitivity and specificity of the current prison reception health screen (cut-off 1) for the recognition of serious mental illness

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Grubin 2002	29	20	1	100	0.97 [0.83, 1.00]	0.83 [0.75, 0.90]		

Figure 18: Summary of ROC curve for the current prison reception health screen for serious mental illness
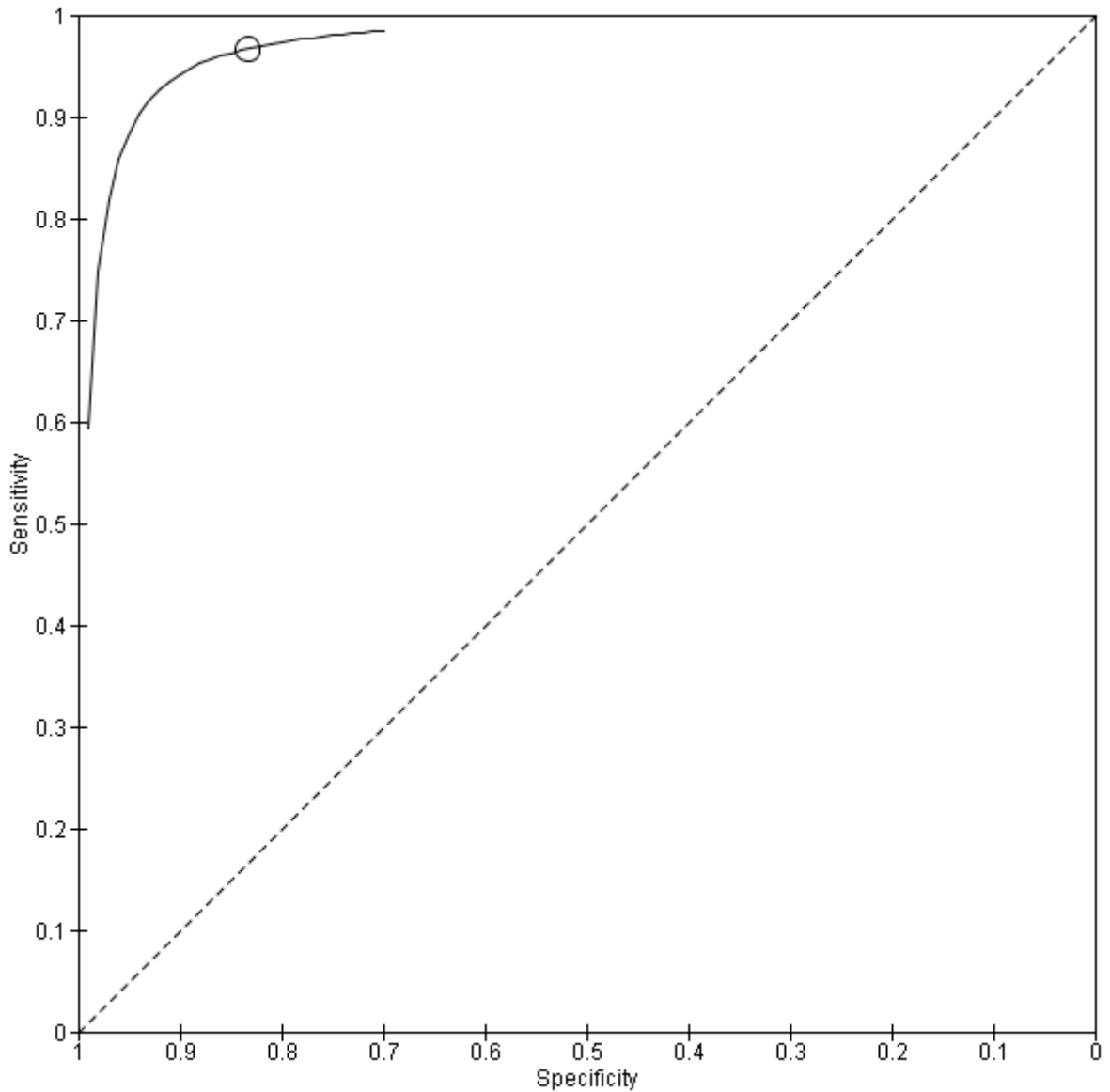
O.1.2 Risk assessment tools

O.1.2.1 VISCI for assessment of risk of sexual re-offending

Figure 19: VISCI using a cut-off of 3.38

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)
Frottier 2009	18	9	7	41	0.72 [0.51, 0.88]	0.82 [0.69, 0.91]

O.2   Interventions for staff training

O.2.1   Organisational linkage intervention (OLI) plus Medication-assisted training (MAT) vs Training alone at post-treatment

Figure 20 Familiarity with medication: Methadone

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.4	1.42	383	0.26	1.01	464	100.0%	0.14 [-0.03, 0.31]
Total (95% CI)			383			464	100.0%	0.14 [-0.03, 0.31]

Heterogeneity: Not applicable
Test for overall effect: Z = 1.62 (P = 0.11)

Figure 21 Referral knowledge: Methadone

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.28	0.99	383	0.24	1.23	464	100.0%	0.04 [-0.11, 0.19]
Total (95% CI)			383			464	100.0%	0.04 [-0.11, 0.19]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.52 (P = 0.60)

Figure 22 Intent to refer clients to MAT: Methadone

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.43	1.52	383	0.05	1.24	464	100.0%	0.38 [0.19, 0.57]
Total (95% CI)			383			464	100.0%	0.38 [0.19, 0.57]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.93 (P < 0.0001)
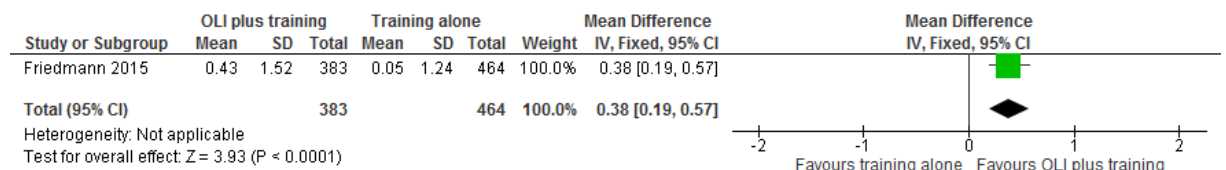
Figure 23 Overall perception and knowledge: Methadone

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.21	0.74	383	0.01	0.04	464	100.0%	0.20 [0.13, 0.27]
Total (95% CI)			383			464	100.0%	0.20 [0.13, 0.27]

Heterogeneity: Not applicable
Test for overall effect: Z = 5.28 (P < 0.00001)
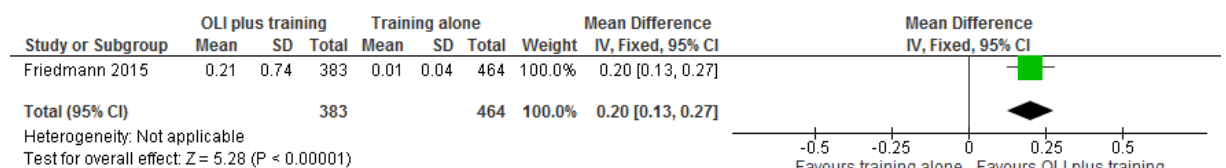
Figure 24 Familiarity with the medication: Buprenorphine

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.4	1.42	383	0.39	1.52	464	100.0%	0.01 [-0.19, 0.21]
Total (95% CI)			383			464	100.0%	0.01 [-0.19, 0.21]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.10 (P = 0.92)
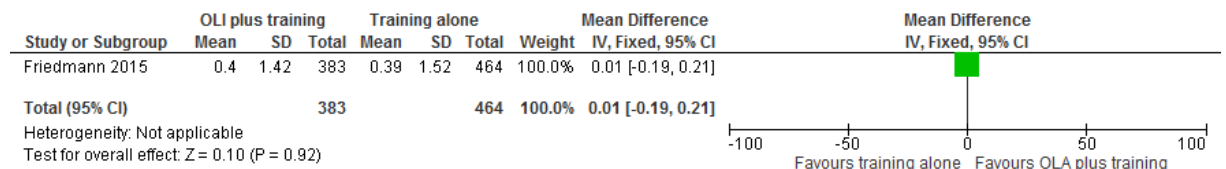
Figure 25 Referral knowledge: Buprenorphine

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.41	1.45	383	0.34	1.33	464	100.0%	0.07 [-0.12, 0.26]
Total (95% CI)			383			464	100.0%	0.07 [-0.12, 0.26]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.73 (P = 0.47)
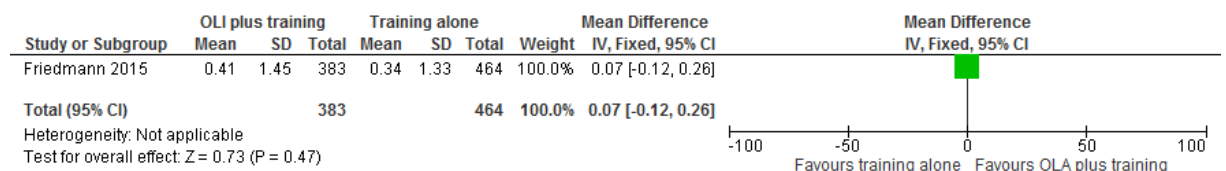
Figure 26 Intent to refer clients to MAT: Buprenorphine

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.3	1.11	383	0.15	1.35	464	100.0%	0.15 [-0.02, 0.32]	
Total (95% CI)			383			464	100.0%	0.15 [-0.02, 0.32]	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.77 (P = 0.08)

Favours training alone   Favours OLA plus training
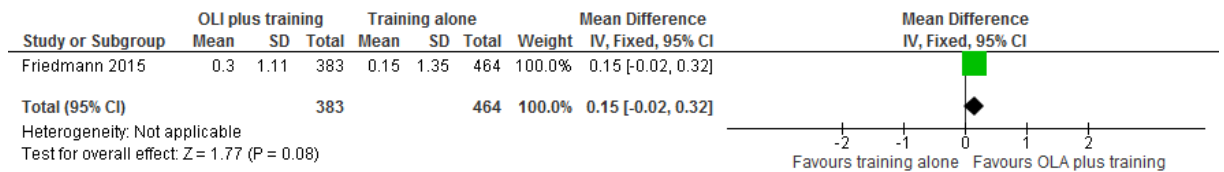
Figure 27 Overall perception and knowledge: Buprenorphine

Study or Subgroup	OLI plus training Mean	SD	Total	Training alone Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Friedmann 2015	0.16	0.57	383	0.03	0.66	464	100.0%	0.13 [0.05, 0.21]	
Total (95% CI)			383			464	100.0%	0.13 [0.05, 0.21]	

Heterogeneity: Not applicable
Test for overall effect: Z = 3.08 (P = 0.002)

Favours training alone   Favours OLI plus training

Note – The scores ranged from 1 (strongly disagree) to 5 (strongly agree).

O.3   Interventions for promoting mental health and well being

O.3.1   Parent training for parent-child attachment versus treatment as usual for women with sub-threshold symptoms at post-treatment

Figure 28:   Mean symptoms of depression as measured by the Center for Epidemiological Studies Depression Scale (CES-D)

Study or Subgroup	Parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
Sleed 2013	13.6	9.4	62	15.3	11.8	53	100.0%	−0.16 [−0.53, 0.21]	
Total (95% CI)			62			53	100.0%	−0.16 [−0.53, 0.21]	

Heterogeneity: Not applicable
Test for overall effect: Z = 0.85 (P = 0.39)

Favours parent training   Favours TAU
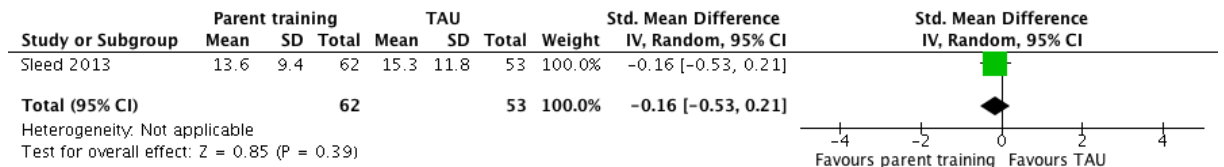
Figure 29:   Number of participants with symptoms of depression (CES-D=>16)

Study or Subgroup	parent training Events	Total	TAU Events	Total	Weight	Risk Ratio M–H, Random, 95% CI	Risk Ratio M–H, Random, 95% CI
Sleed 2013	23	62	25	53	100.0%	0.79 [0.51, 1.21]	
Total (95% CI)		62		53	100.0%	0.79 [0.51, 1.21]	
Total events	23		25				

Heterogeneity: Not applicable
Test for overall effect: Z = 1.09 (P = 0.28)

Favours parent training   Favours TAU
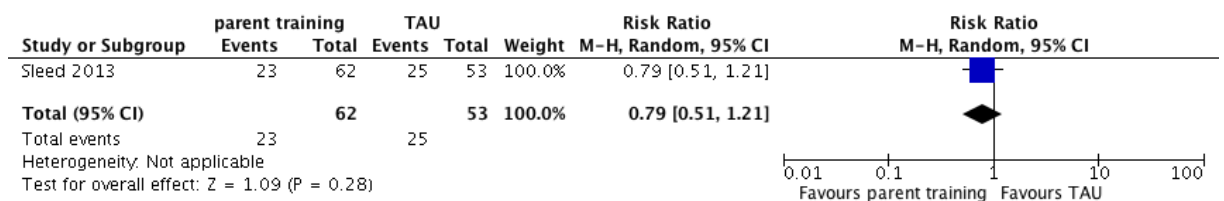
Figure 30:   Mother-child attachment/interaction (after 4 week treatment): mean scores on the Reflective Functioning subscale of the Parent Development Interview (PDI)

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
Sleed 2013	3.54	1.57	57	3.15	1.33	52	100.0%	0.27 [−0.11, 0.64]	
Total (95% CI)			57			52	100.0%	0.27 [−0.11, 0.64]	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.38 (P = 0.17)

Favours TAU   Favours parent training
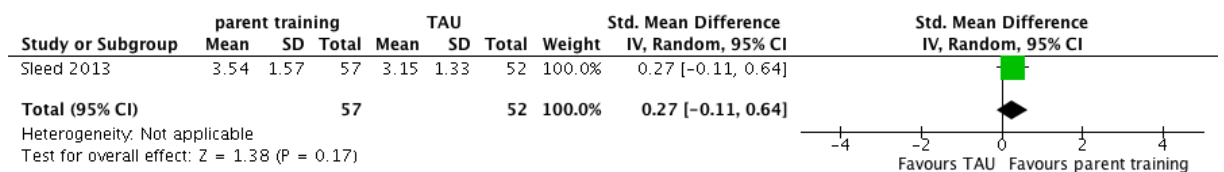
Figure 31:   Mother-child attachment/interaction (after 4 week treatment): mean scores for dyadic attunement based on behavioural observation of mother-

infant interaction during free-play coded using Coding Interactive Behaviour (CIB) scales

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sleed 2013	34.98	8.5	51	38.06	7.3	37	100.0%	−0.38 [−0.81, 0.05]
Total (95% CI)			**51**			**37**	**100.0%**	**−0.38 [−0.81, 0.05]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.75 (P = 0.08)

Favours TAU   Favours parent training
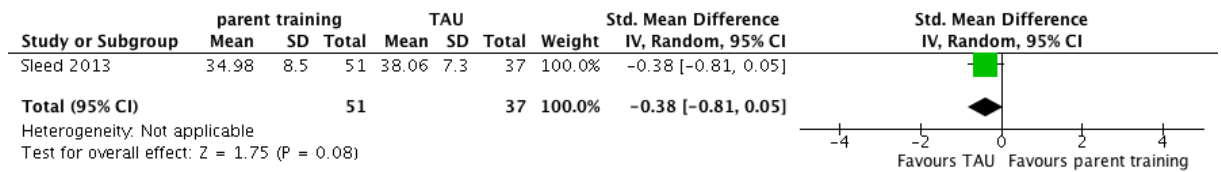
Figure 32:   Maternal perceptions of child (after 4 week treatment): mean scores for positive perceptions of the infant as measured by the Mother's Object Relations Scale (MORS), Warmth subscale

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sleed 2013	29.5	4.6	31	27.2	5.6	40	100.0%	0.44 [−0.04, 0.91]
Total (95% CI)			**31**			**40**	**100.0%**	**0.44 [−0.04, 0.91]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.81 (P = 0.07)

Favours TAU   Favours parent training
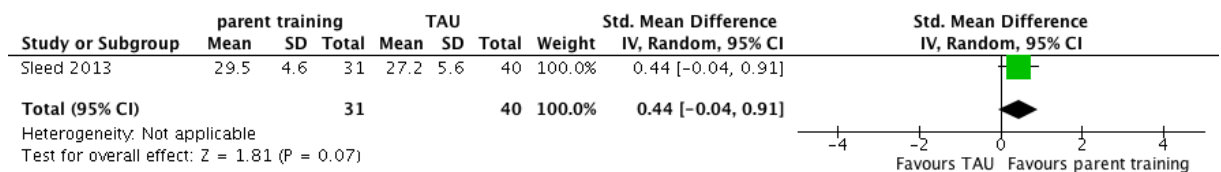
Figure 33:   Maternal perceptions of child (after 4 week treatment): mean scores for negative perceptions of the infant as measured by the MORS, Invasion subscale

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sleed 2013	7.7	4.3	31	8.3	5.7	40	100.0%	−0.12 [−0.58, 0.35]
Total (95% CI)			**31**			**40**	**100.0%**	**−0.12 [−0.58, 0.35]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.48 (P = 0.63)

Favours parent training   Favours TAU
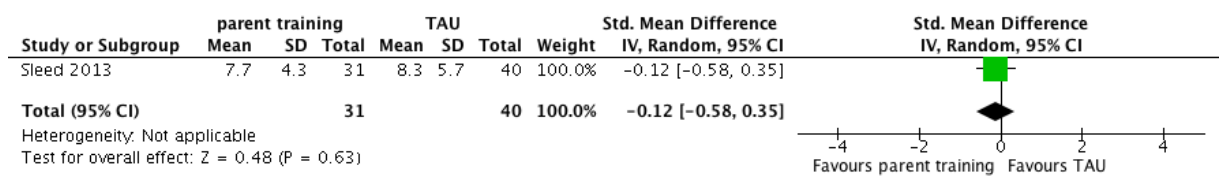
Figure 34:   Maternal perceptions of child (after 30 week treatment): mean scores for parental reports of the intensity of children's problem behaviour as measured by the Eyberg Child Behavior Inventory (ECBI)

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	93.649872	25.36541	78	101.04	24.32	25	100.0%	−0.29 [−0.74, 0.16]
Total (95% CI)			**78**			**25**	**100.0%**	**−0.29 [−0.74, 0.16]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.27 (P = 0.21)

Favours parent training   Favours TAU
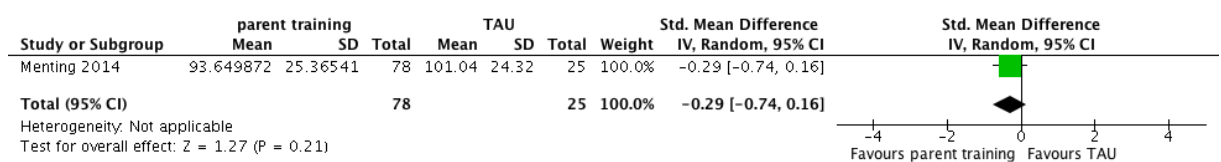
Figure 35: Maternal perceptions of child (after 30 week treatment): mean scores for the extent to which child behaviour is a problem for parents as measured by the ECBI

Study or Subgroup	Parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	8.7161538	7.411045	78	8.42	6.83	25	100.0%	0.04 [−0.41, 0.49]
Total (95% CI)			**78**			**25**	**100.0%**	**0.04 [−0.41, 0.49]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.18 (P = 0.86)

Favours parent training   Favours TAU
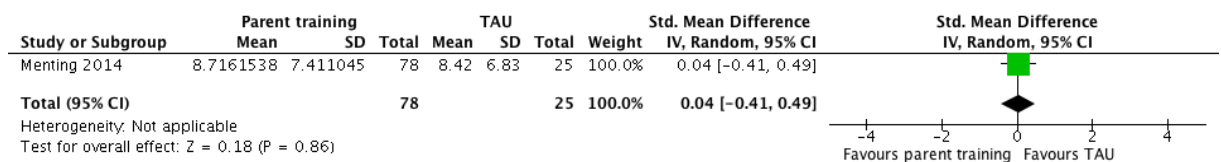
Figure 36: **Maternal perceptions of child (after 30 week treatment): mean scores for maternal perceptions of their involvement with their child as measured by the Alabama Parenting Questionnaire (APQ), Involvement subscale**

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	30.741948	5.430474	77	31.21	6.49	25	100.0%	−0.08 [−0.53, 0.37]
Total (95% CI)			77			25	100.0%	**−0.08 [−0.53, 0.37]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.35 (P = 0.72)

Std. Mean Difference IV, Random, 95% CI — Favours TAU Favours parent training
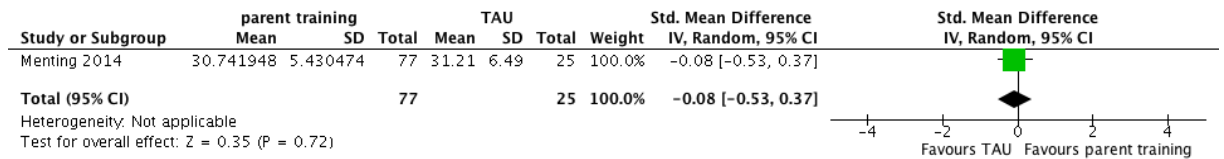
Figure 37: **Maternal perceptions of child (after 30 week treatment): mean scores for maternal perceptions of their positive parenting as measured by the APQ, Positive parenting subscale**

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	25.052692	3.548054	78	27.28	2.51	25	100.0%	−0.66 [−1.12, −0.20]
Total (95% CI)			78			25	100.0%	**−0.66 [−1.12, −0.20]**

Heterogeneity: Not applicable
Test for overall effect: Z = 2.83 (P = 0.005)

Std. Mean Difference IV, Random, 95% CI — Favours TAU Favours parent training
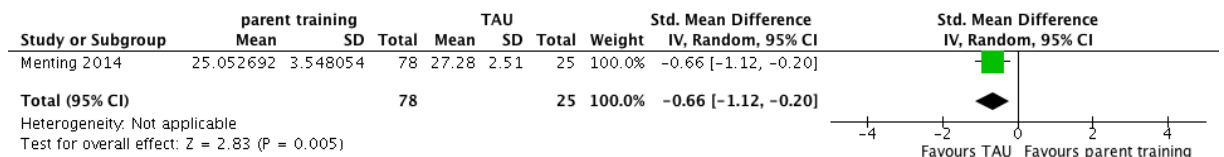
Figure 38: **Maternal perceptions of child (after 30 week treatment): mean scores for maternal perceptions of their poor monitoring/supervision as measured by the APQ, Poor monitoring/supervision subscale**

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	11.202208	2.246847	77	10.48	2.04	25	100.0%	0.33 [−0.13, 0.78]
Total (95% CI)			77			25	100.0%	**0.33 [−0.13, 0.78]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.41 (P = 0.16)

Std. Mean Difference IV, Random, 95% CI — Favours parent training Favours TAU
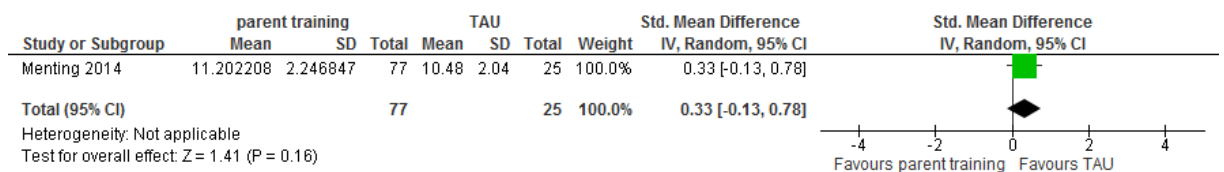
Figure 39: **Maternal perceptions of child (after 30 week treatment): mean scores for maternal perceptions of their inconsistent discipline as measured by the APQ, Inconsistent discipline subscale**

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	12.856282	3.692783	78	15.88	3.79	25	100.0%	−0.81 [−1.27, −0.34]
Total (95% CI)			78			25	100.0%	**−0.81 [−1.27, −0.34]**

Heterogeneity: Not applicable
Test for overall effect: Z = 3.41 (P = 0.0007)

Std. Mean Difference IV, Random, 95% CI — Favours parent training Favours TAU
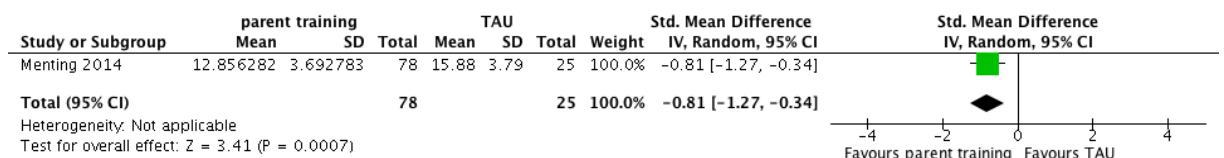
Figure 40: **Maternal perceptions of child (after 30 week treatment): mean scores for maternal perceptions of their corporal punishment as measured by the APQ, Corporal punishment subscale**

Study or Subgroup	parent training Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Menting 2014	4.5502564	1.895953	78	4.84	2.08	25	100.0%	−0.15 [−0.60, 0.30]
Total (95% CI)			78			25	100.0%	**−0.15 [−0.60, 0.30]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.64 (P = 0.52)

Std. Mean Difference IV, Random, 95% CI — Favours parent training Favours TAU
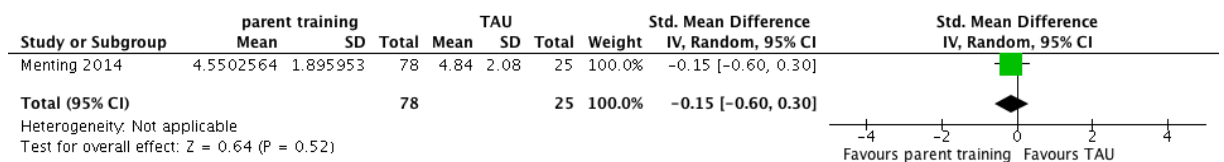
Figure 41:   Drop out before the post-intervention assessment

Study or Subgroup	parent training Events	Total	TAU Events	Total	Weight	Risk Ratio M–H, Random, 95% CI	Risk Ratio M–H, Random, 95% CI
Menting 2014	28	86	9	27	39.2%	0.98 [0.53, 1.80]	
Sleed 2013	26	96	22	99	60.8%	1.22 [0.74, 2.00]	
Total (95% CI)		182		126	100.0%	1.12 [0.76, 1.64]	
Total events	54		31				

Heterogeneity: Tau² = 0.00; Chi² = 0.30, df = 1 (P = 0.58); I² = 0%
Test for overall effect: Z = 0.57 (P = 0.57)

Favours parent training Favours TAU
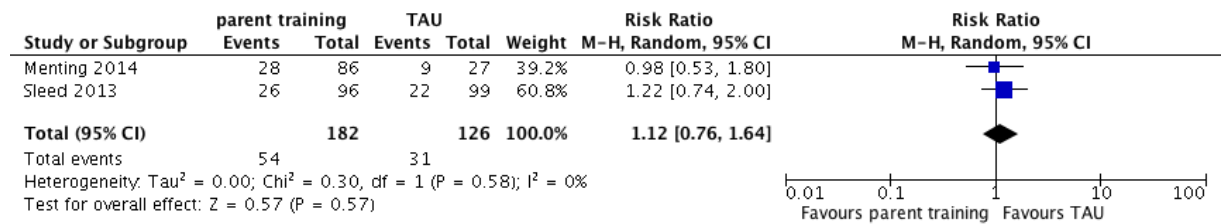
O.3.2   Yoga for promoting mental health and wellbeing versus waiting list control

Figure 42:   Positive and negative affect (after 10 week treatment): mean scores of positive affect as measured by the Positive and Negative Affect Scale (PANAS)

Study or Subgroup	yoga Mean	SD	Total	waitlist control Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
Bilderbeck 2013	37.16	7.781517	45	31.22	7.564522	55	100.0%	0.77 [0.36, 1.18]	
Total (95% CI)			45			55	100.0%	0.77 [0.36, 1.18]	

Heterogeneity: Not applicable
Test for overall effect: Z = 3.69 (P = 0.0002)

Favours waitlist control Favours yoga
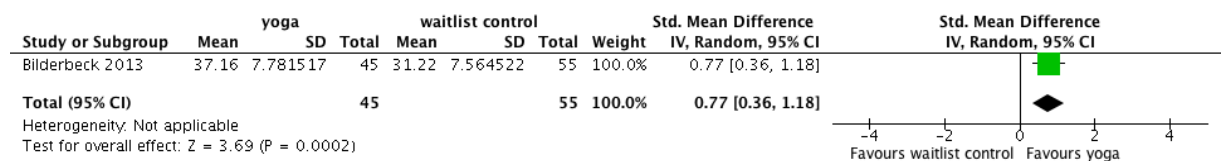
Figure 43:   Positive and negative affect (after 10 week treatment): mean scores of negative affect as measured by the PANAS

Study or Subgroup	yoga Mean	SD	Total	waitlist control Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
Bilderbeck 2013	15.02	5.366563	45	19.15	8.157818	55	100.0%	-0.58 [-0.98, -0.18]	
Total (95% CI)			45			55	100.0%	-0.58 [-0.98, -0.18]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.83 (P = 0.005)

Favours yoga Favours waitlist control
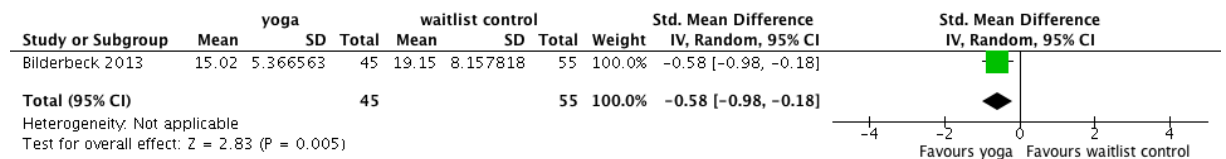
Figure 44:   Stress (after 10 week treatment): mean scores on the Perceived Stress Scale (PSS)

Study or Subgroup	yoga Mean	SD	Total	waitlist control Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
Bilderbeck 2013	11.4	7.379024	45	16.07	7.787008	55	100.0%	-0.61 [-1.01, -0.21]	
Total (95% CI)			45			55	100.0%	-0.61 [-1.01, -0.21]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.96 (P = 0.003)

Favours yoga Favours waitlist control
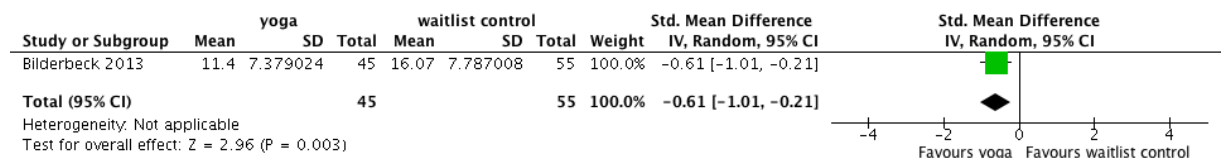
Figure 45:   Psychological distress (after 10 week treatment): mean scores on the Brief Symptom Inventory (BSI)

Study or Subgroup	yoga Mean	SD	Total	waitlist control Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
Bilderbeck 2013	24.49	22.67373	45	37.09	29.44231	55	100.0%	-0.47 [-0.87, -0.07]	
Total (95% CI)			45			55	100.0%	-0.47 [-0.87, -0.07]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.30 (P = 0.02)

Favours yoga Favours waitlist control
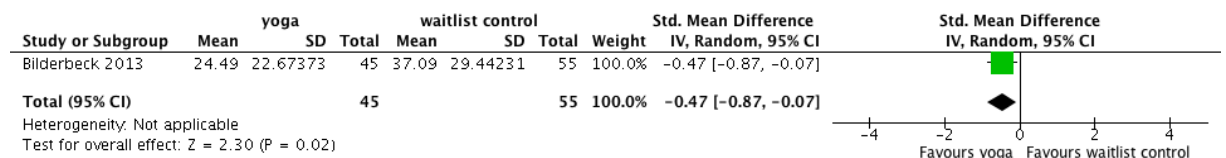
Figure 46: Drop-out (after 10 week treatment): number of participants who dropped out before the post-intervention assessment

Study or Subgroup	yoga Events	Total	waitlist control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Bilderbeck 2013	42	87	25	80	100.0%	1.54 [1.04, 2.28]
Total (95% CI)		87		80	100.0%	**1.54 [1.04, 2.28]**
Total events	42		25			
Heterogeneity: Not applicable						
Test for overall effect: Z = 2.18 (P = 0.03)						
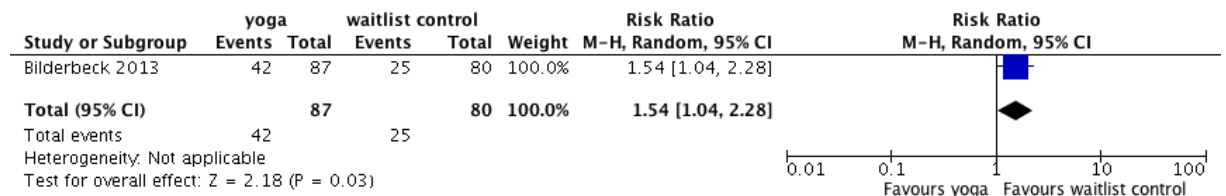
O.3.3 Meditation for promoting mental health and well-being versus treatment as usual

Figure 47: Desire to throw things/hit people (after 7 week treatment): mean scores on study-specific measure within past month

Study or Subgroup	Std. Mean Difference	SE	meditation Total	TAU Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sumter 2009	-1.00612442	0.36967716	17	16	100.0%	-1.01 [-1.73, -0.28]
Total (95% CI)			17	16	100.0%	**-1.01 [-1.73, -0.28]**
Heterogeneity: Not applicable						
Test for overall effect: Z = 2.72 (P = 0.006)						
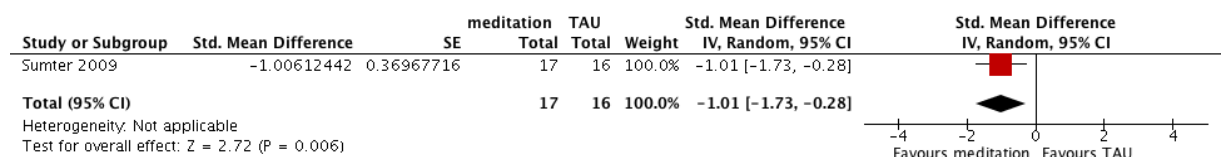
Figure 48 Being bothered by nail biting (after 7 week treatment): mean scores on study-specific measure within past month

Study or Subgroup	Std. Mean Difference	SE	meditation Total	TAU Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sumter 2009	-1.17552896	0.37717493	17	16	100.0%	-1.18 [-1.91, -0.44]
Total (95% CI)			17	16	100.0%	**-1.18 [-1.91, -0.44]**
Heterogeneity: Not applicable						
Test for overall effect: Z = 3.12 (P = 0.002)						
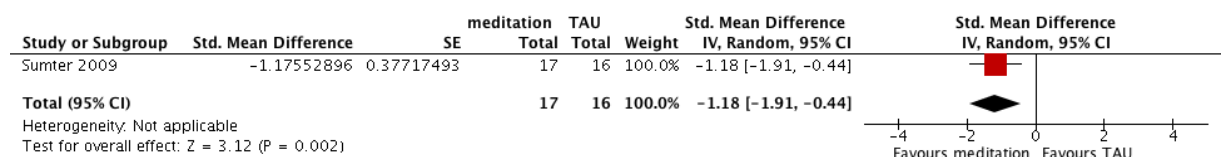
Figure 49: Feelings of guilt (after 7 week treatment): mean scores on study-specific measure within past month

Study or Subgroup	Std. Mean Difference	SE	meditation Total	TAU Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sumter 2009	-0.41727854	0.352082	17	16	100.0%	-0.42 [-1.11, 0.27]
Total (95% CI)			17	16	100.0%	**-0.42 [-1.11, 0.27]**
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.19 (P = 0.24)						
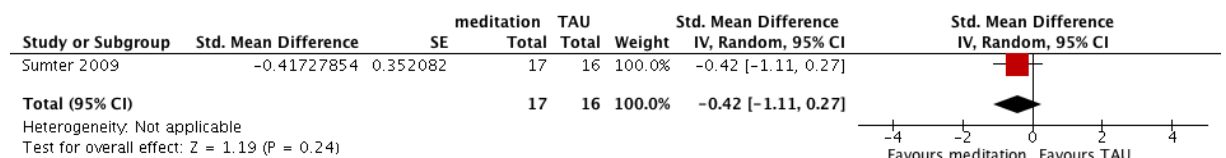
Figure 50 Feelings of hopelessness (after 7 week treatment): mean scores on study-specific measure within past month

Study or Subgroup	Std. Mean Difference	SE	meditation Total	TAU Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sumter 2009	-0.05747883	0.34838712	17	16	100.0%	-0.06 [-0.74, 0.63]
Total (95% CI)			17	16	100.0%	**-0.06 [-0.74, 0.63]**
Heterogeneity: Not applicable						
Test for overall effect: Z = 0.16 (P = 0.87)						
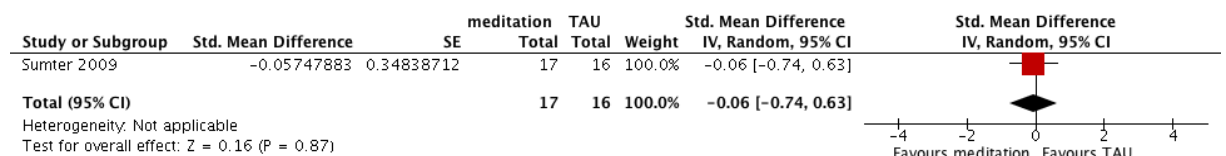
Figure 51: Being bothered by sleep difficulties (after 7 week treatment): mean scores on study-specific measure within past month

Study or Subgroup	Std. Mean Difference	SE	meditation Total	TAU Total	Weight	Std. Mean Difference IV, Random, 95% CI
Sumter 2009	-0.27852953	0.34999852	17	16	100.0%	-0.28 [-0.96, 0.41]
Total (95% CI)			17	16	100.0%	**-0.28 [-0.96, 0.41]**
Heterogeneity: Not applicable						
Test for overall effect: Z = 0.80 (P = 0.43)						
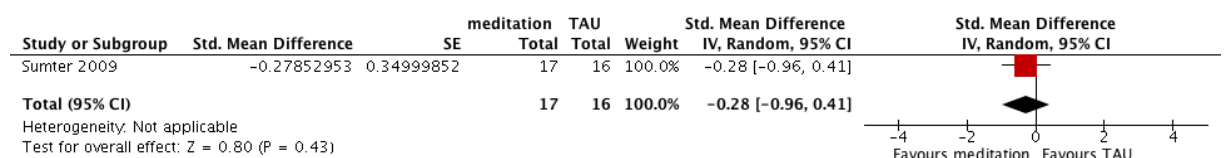
O.3.4   Physical exercise programmes for promoting mental health and well-being versus exercise as usual at post-treatment

Figure 52:   Change in Symptom Checklist-90-Revised (SCL-90-R) Global Severity Index (GSI)
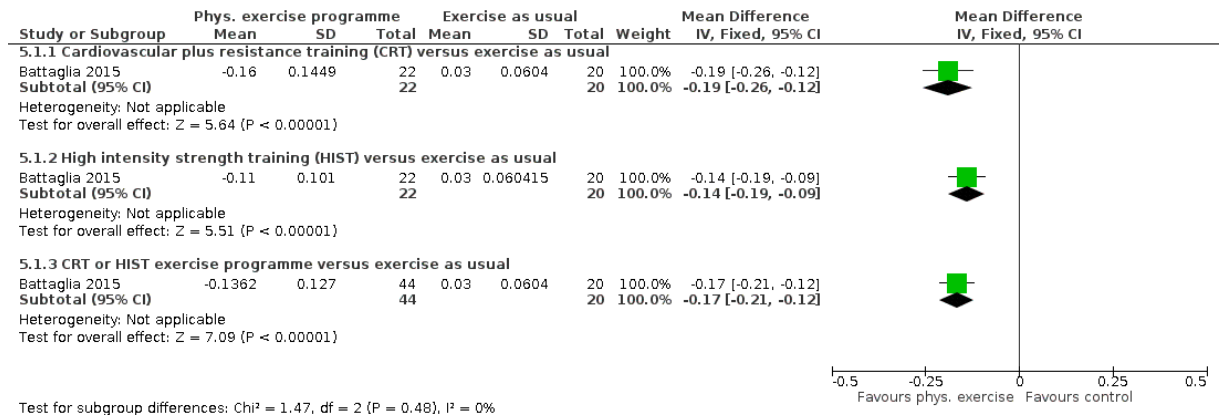
Figure 53:   Change in Symptom Checklist-90-Revised (SCL-90-R) Positive Symptom Total (PST)
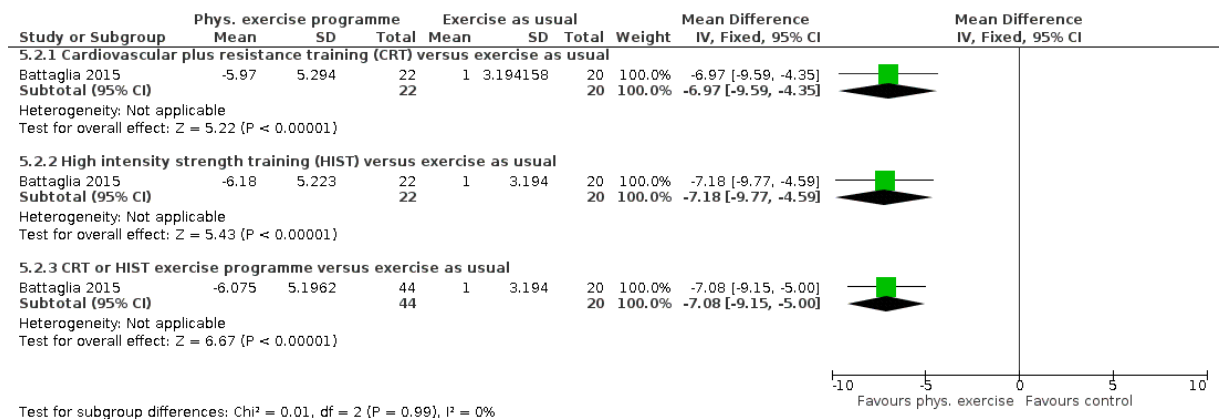
Figure 54:   Change in Symptom Checklist-90-Revised (SCL-90-R) Positive Symptom Distress Index (PSDI)
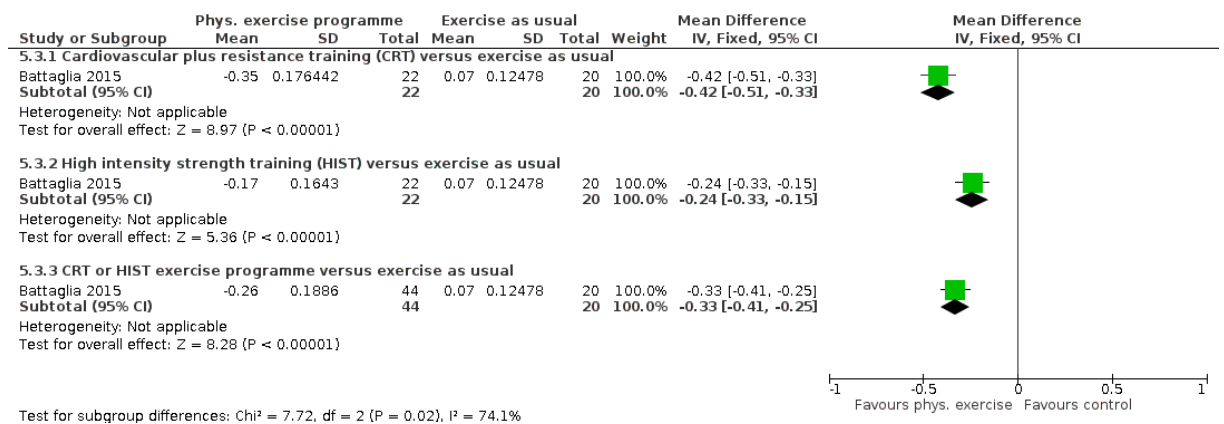
O.4 Interventions for substance misuse

O.4.1 Psychological interventions

O.4.1.1 CBT versus active intervention

Figure 55: Days using cannabis during treatment
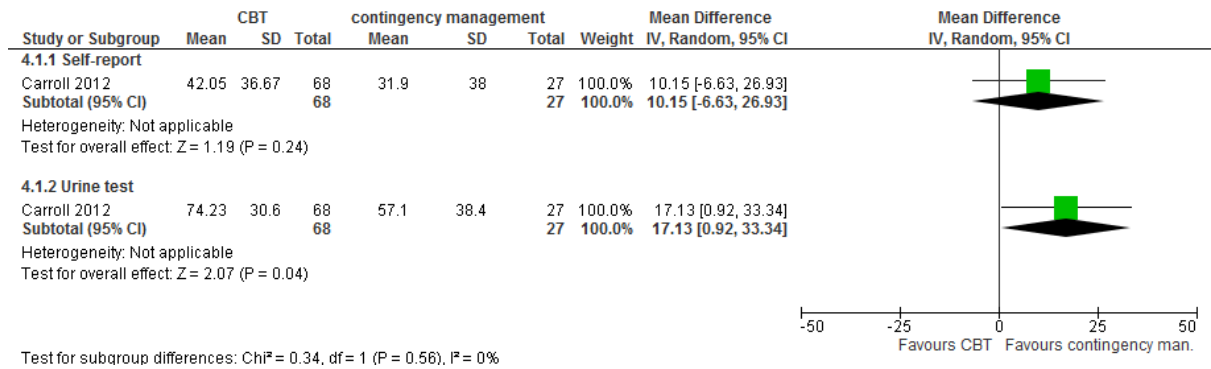
Figure 56: Days with a positive urine test during treatment
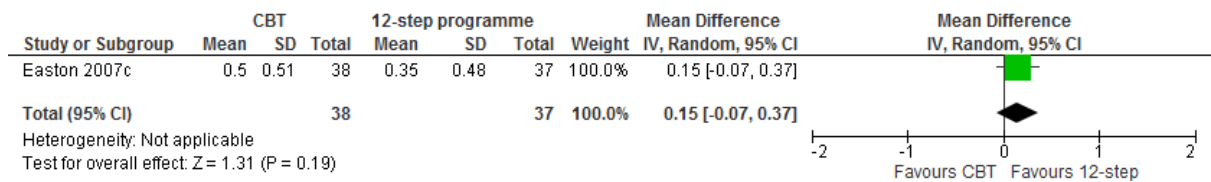
Figure 57: Days with a positive breathalyser test during treatment
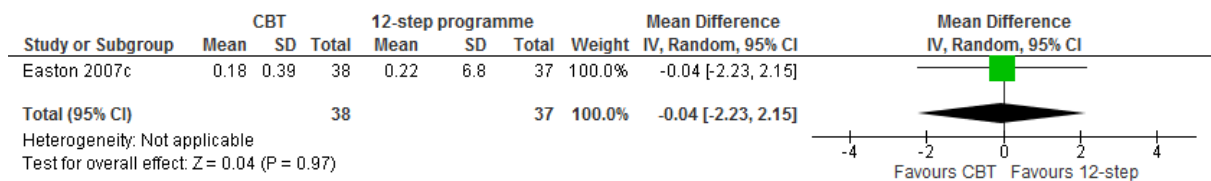
Figure 58: Days abstinent during treatment
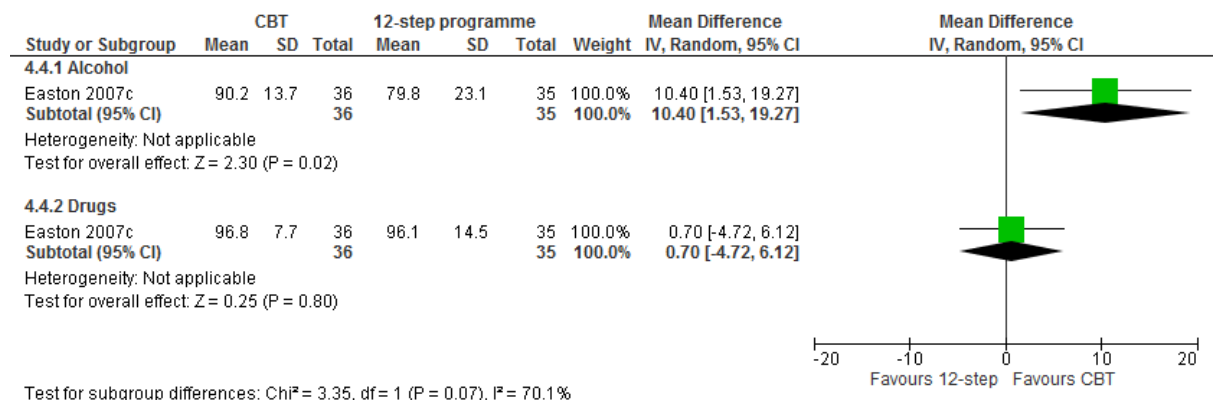
Figure 59: Addiction Severity Index (ASI-6): alcohol composite score at 26-38 weeks follow-up
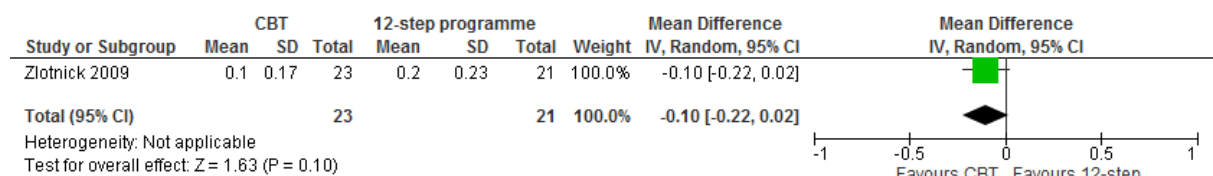
Figure 60: Addiction Severity Index (ASI-6): drug composite score at 26-38 weeks follow-up
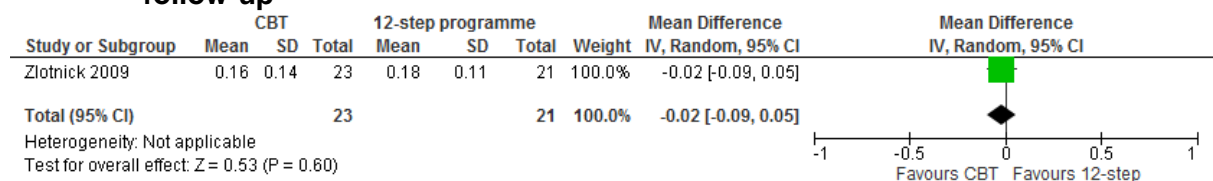
Figure 61: Weeks abstinent (3 month follow-up) at 26-38 weeks follow-up
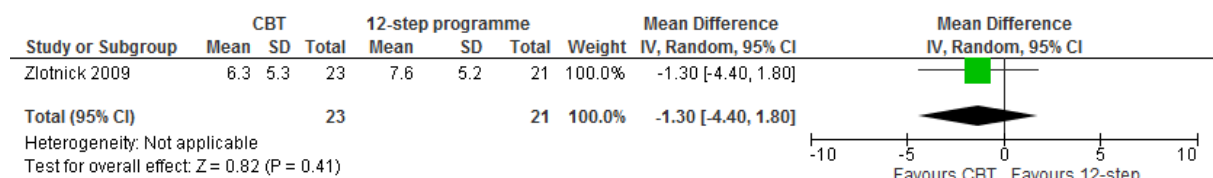
Figure 62: Re-incarceration at 26-38 weeks follow-up

Study or Subgroup	CBT Events	Total	12-step programme Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Zlotnick 2009	5	23	9	21	100.0%	0.51 [0.20, 1.27]
Total (95% CI)		**23**		**21**	**100.0%**	**0.51 [0.20, 1.27]**
Total events	5		9			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.45 (P = 0.15)

Risk Ratio M-H, Random, 95% CI — Favours CBT Favours 12-step
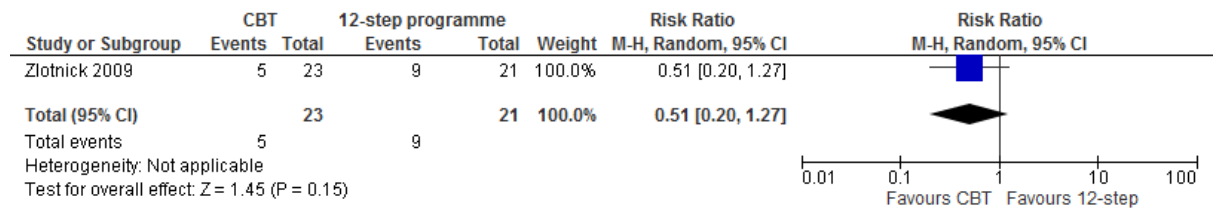
O.4.1.2 CBT versus wait-list control

Figure 63: Addiction Severity Index (ASI-6) : alcohol composite score at post-treatment

Study or Subgroup	CBT Mean	SD	Total	waitlist Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Villagra Lanza 2014	0.41	0.05	16	0.42	0.06	11	100.0%	-0.01 [-0.05, 0.03]
Total (95% CI)			**16**			**11**	**100.0%**	**-0.01 [-0.05, 0.03]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.45 (P = 0.65)

Mean Difference IV, Random, 95% CI — Favours CBT Favours waitlist
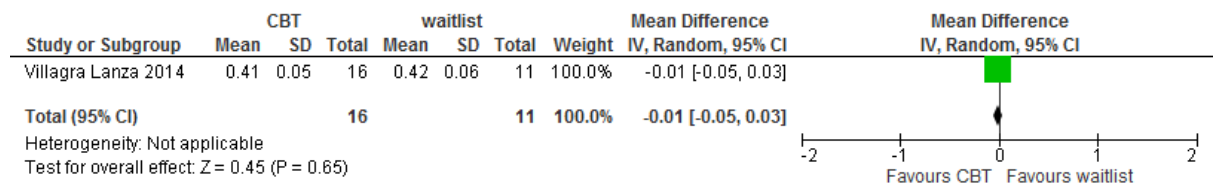
Figure 64: Addiction Severity Index (ASI-6): drug composite score at post-treatment

Study or Subgroup	CBT Mean	SD	Total	waitlist Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Villagra Lanza 2014	0.41	0.07	16	0.44	0.04	11	100.0%	-0.03 [-0.07, 0.01]
Total (95% CI)			**16**			**11**	**100.0%**	**-0.03 [-0.07, 0.01]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.41 (P = 0.16)

Mean Difference IV, Random, 95% CI — Favours CBT Favours waitlist
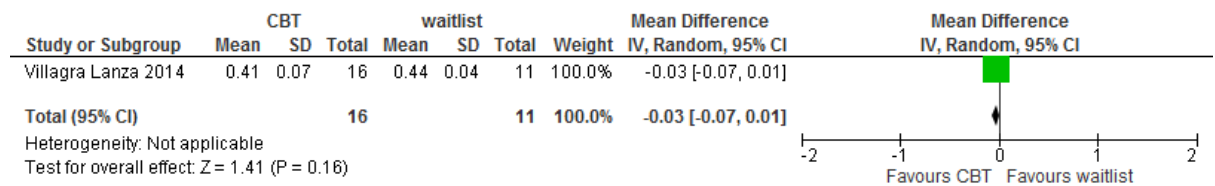
Figure 65: Abstinent in previous 3 months (6 month follow-up)

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Villagra Lanza 2014	4	16	2	11	100.0%	1.38 [0.30, 6.25]
Total (95% CI)		**16**		**11**	**100.0%**	**1.38 [0.30, 6.25]**
Total events	4		2			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.41 (P = 0.68)

Risk Ratio M-H, Random, 95% CI — Favours control Favours CBT
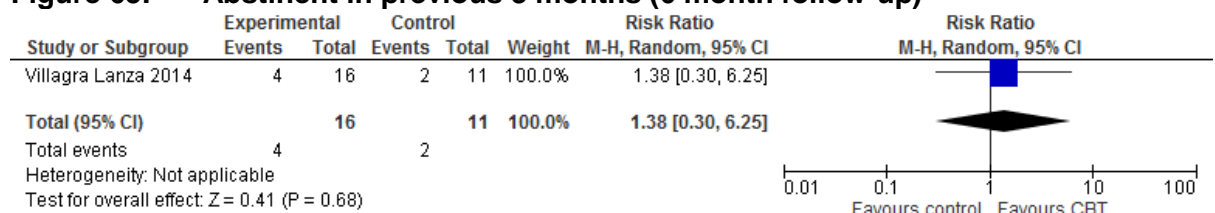
O.4.1.3 ACT versus CBT

Figure 66: Addiction Severity Index (ASI-6): alcohol composite score at post-treatment

Study or Subgroup	ACT Mean	SD	Total	CBT Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Villagra Lanza 2014	0.37	0.01	14	0.41	0.05	16	100.0%	-0.04 [-0.07, -0.01]
Total (95% CI)			**14**			**16**	**100.0%**	**-0.04 [-0.07, -0.01]**

Heterogeneity: Not applicable
Test for overall effect: Z = 3.13 (P = 0.002)

Mean Difference IV, Random, 95% CI — Favours ACT Favours CBT
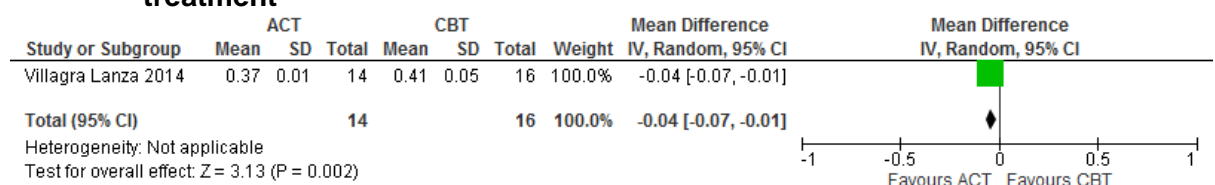
Figure 67: **Addiction Severity Index (ASI-6): drug composite score at post-treatment**

Study or Subgroup	ACT Mean	SD	Total	CBT Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Villagra Lanza 2014	0.4	0.05	14	0.41	0.07	16	100.0%	-0.01 [-0.05, 0.03]
Total (95% CI)			14			16	100.0%	-0.01 [-0.05, 0.03]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.45 (P = 0.65)
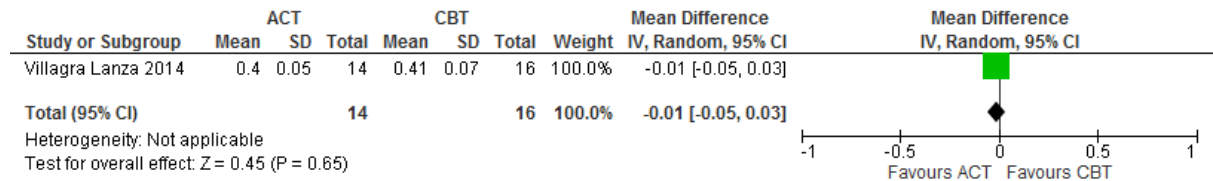
Figure 68: **Abstinent from drugs in previous 3 months at post-treatment**

Study or Subgroup	ACT Events	Total	CBT Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Villagra Lanza 2014	6	14	4	16	100.0%	1.71 [0.60, 4.86]
Total (95% CI)		14		16	100.0%	1.71 [0.60, 4.86]
Total events	6		4			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.01 (P = 0.31)
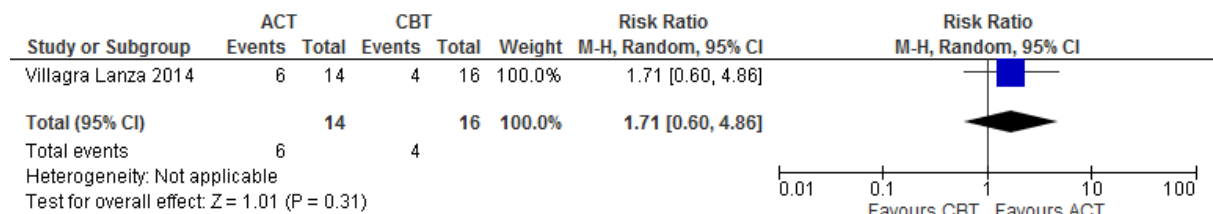
O.4.1.4 ACT versus waitlist

Figure 69: **Addiction Severity Index (ASI-6): alcohol composite score at 42 weeks follow-up**

Study or Subgroup	ACT Mean	SD	Total	waitlist Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Villagra Lanza 2013	0.38	0.4	18	0.4	0.41	13	52.4%	-0.05 [-0.76, 0.67]
Villagra Lanza 2014	0.37	0.01	14	0.42	0.06	11	47.6%	-1.20 [-2.07, -0.33]
Total (95% CI)			32			24	100.0%	-0.60 [-1.72, 0.53]

Heterogeneity: Tau² = 0.50; Chi² = 4.04, df = 1 (P = 0.04); I² = 75%
Test for overall effect: Z = 1.04 (P = 0.30)
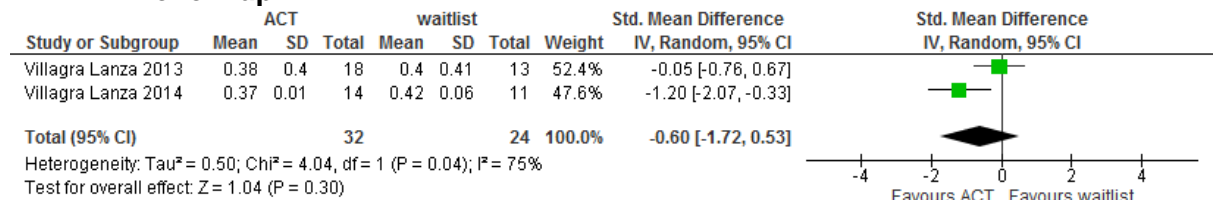
Figure 70: **Addiction Severity Index (ASI-6): drug composite score at 42 weeks follow-up**

Study or Subgroup	ACT Mean	SD	Total	waitlist Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Villagra Lanza 2013	0.4	0.55	16	0.44	0.38	11	52.2%	-0.08 [-0.85, 0.69]
Villagra Lanza 2014	0.4	0.05	14	0.44	0.04	11	47.8%	-0.84 [-1.67, -0.01]
Total (95% CI)			30			22	100.0%	-0.44 [-1.19, 0.30]

Heterogeneity: Tau² = 0.12; Chi² = 1.75, df = 1 (P = 0.19); I² = 43%
Test for overall effect: Z = 1.16 (P = 0.24)
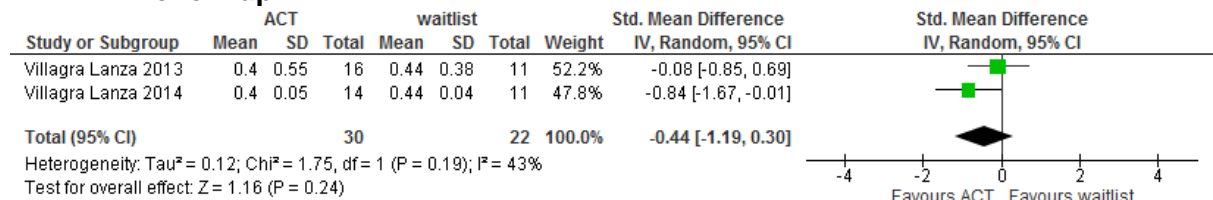
Figure 71:   Abstinent from drugs in previous 3 months at 42 weeks follow-up
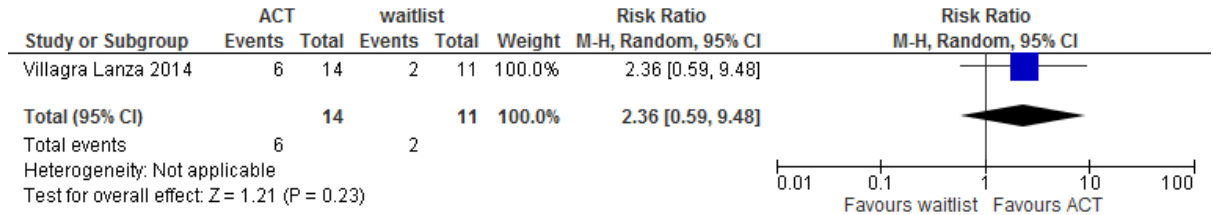
O.4.1.5   Mindfulness-based relapse prevention (MBRP) versus active intervention

Figure 72:   Drug-use days at post-treatment
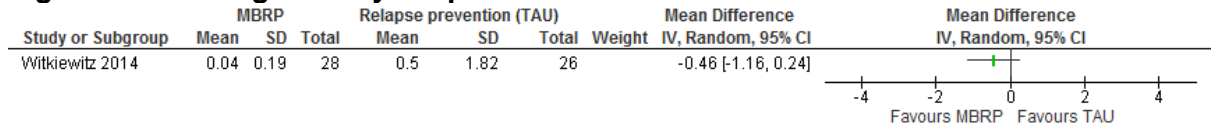
Figure 73:   Short Inventory of Problems (SIP) follow-up at post-treatment
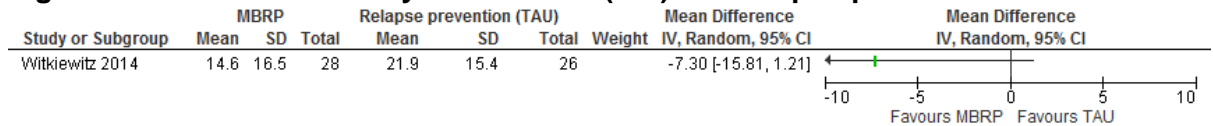
Figure 74:   Addiction Severity Index (ASI-6) at post-treatment
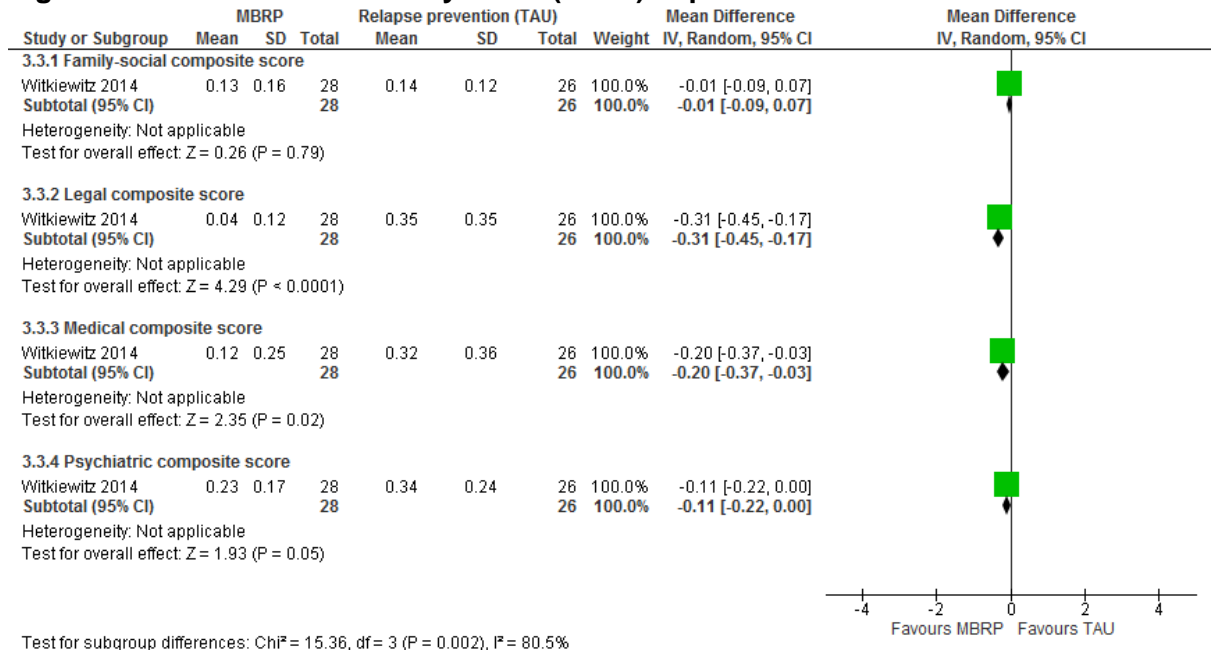
O.4.1.6 Contingency management versus active intervention at post-treatment

Figure 75: Days using cannabis during treatment
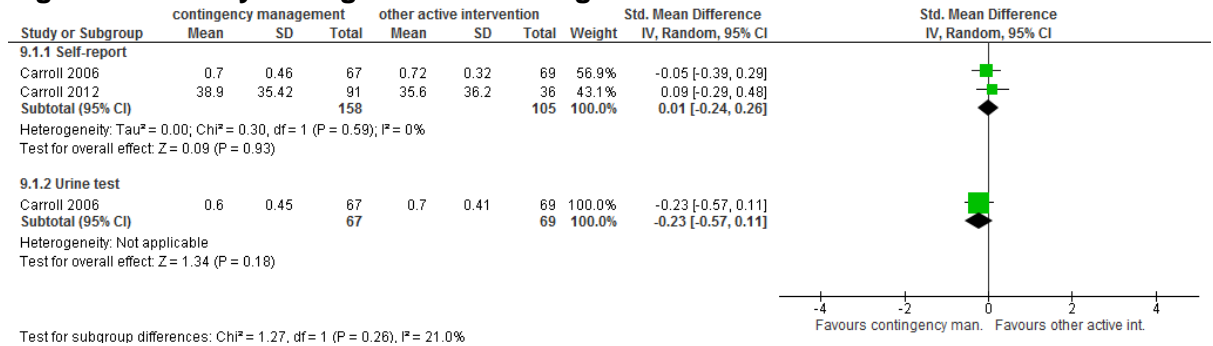
Figure 76: Addiction Severity Index (ASI-6): marijuana composite score at post-treatment
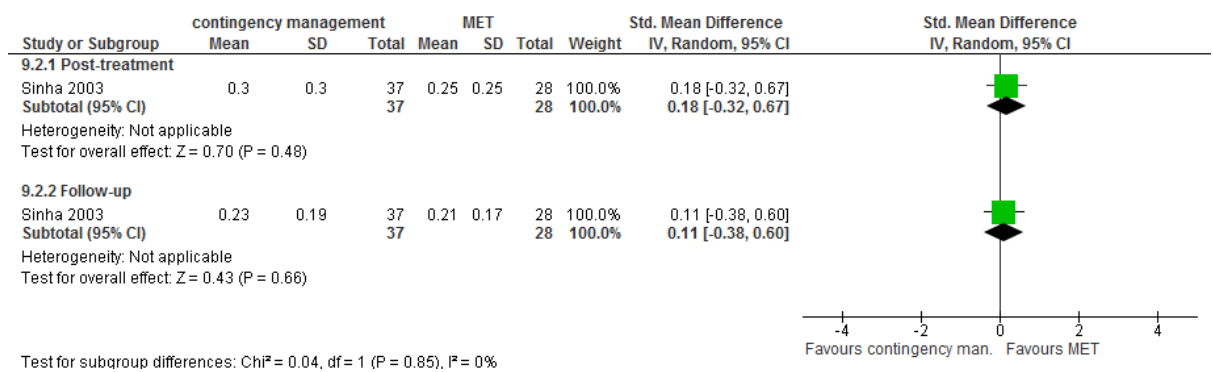
Figure 77: Days cannabis use per month at post-treatment
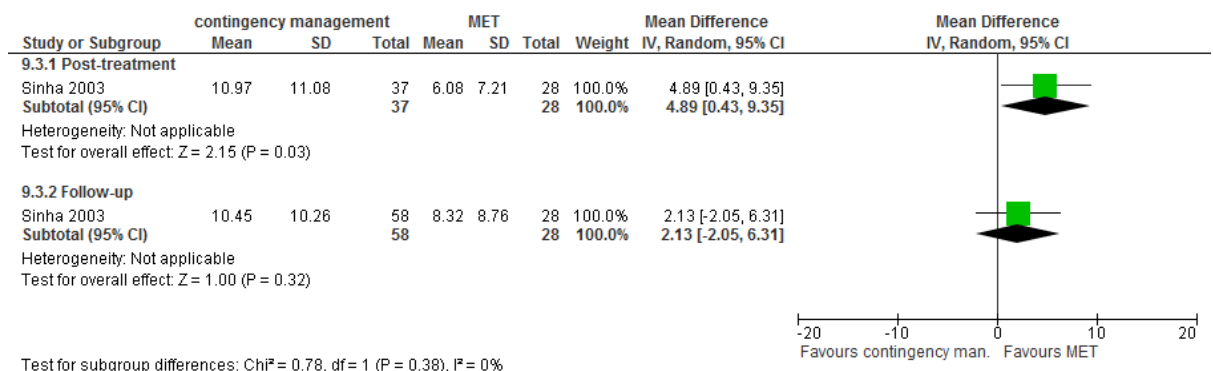
Figure 78: Participants still in treatment at follow-up at post-treatment
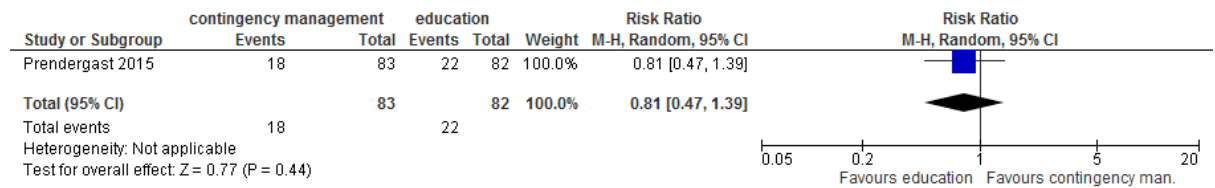
Figure 79: Number of days in treatment at post-treatment
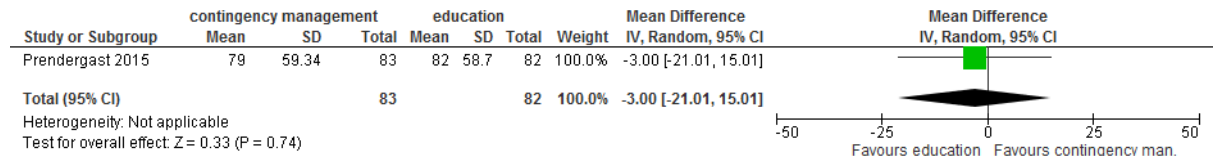
O.4.1.7 Contingency management versus control at post-treatment

Figure 80: Arrests for public drunkenness
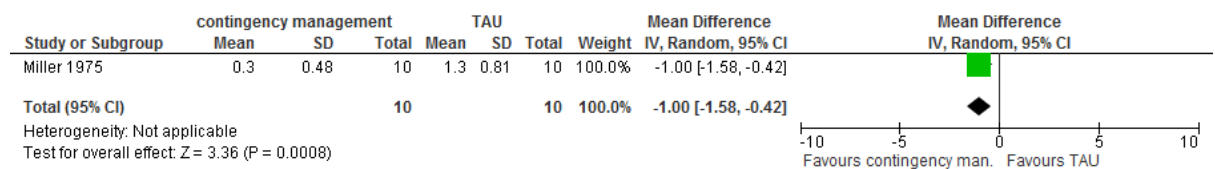
O.4.1.8 Motivational enhancement therapy versus active intervention

Figure 81: Percentage of days abstinent from alcohol (self-report) at post-treatment
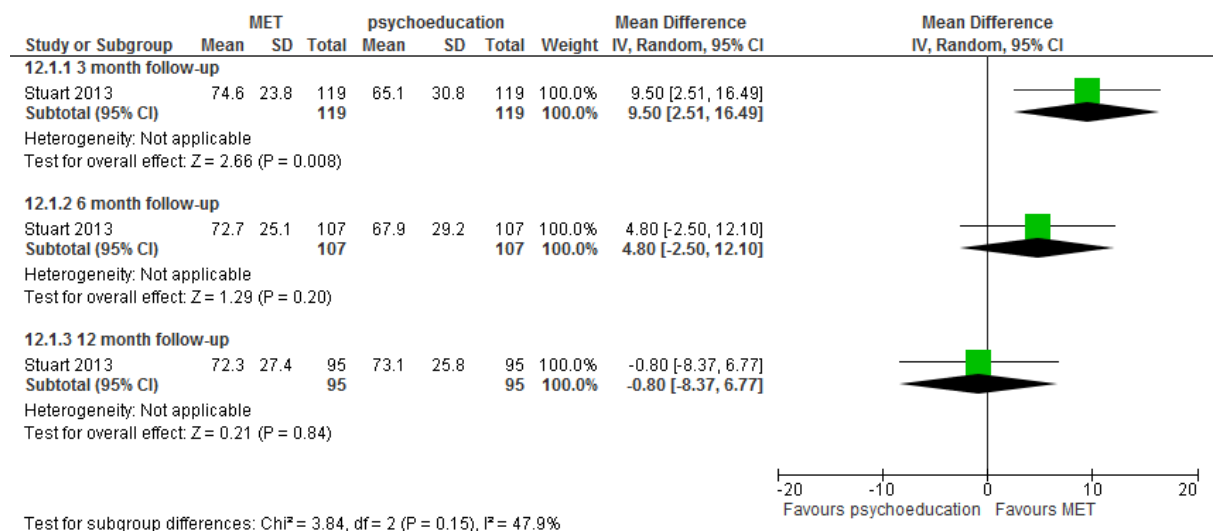
Figure 82: Percentage of days abstinent from alcohol and drugs at post-treatment
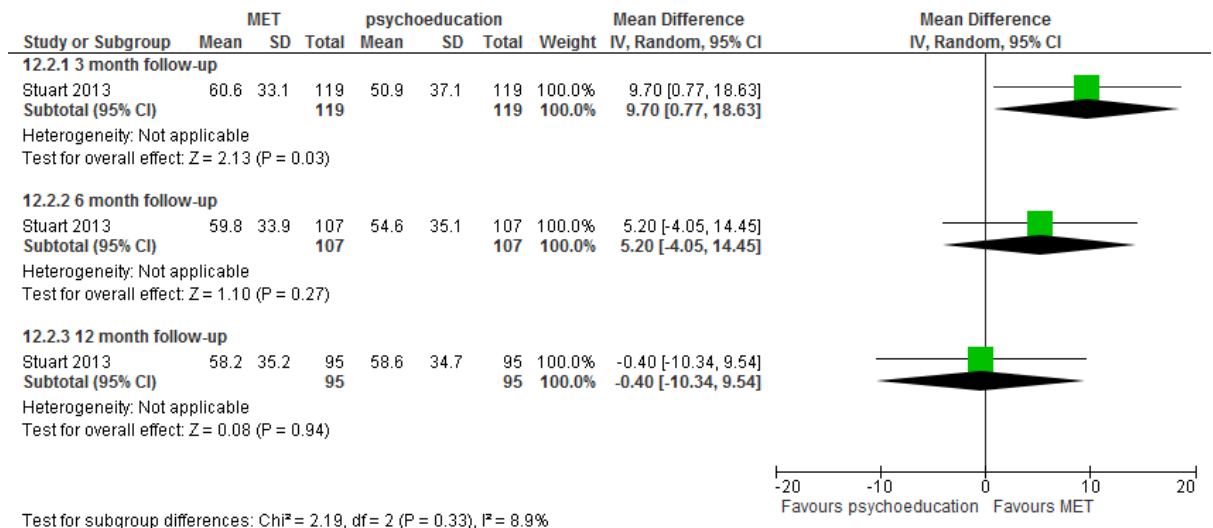
Figure 83:   Drinks per drinking days at post-treatment
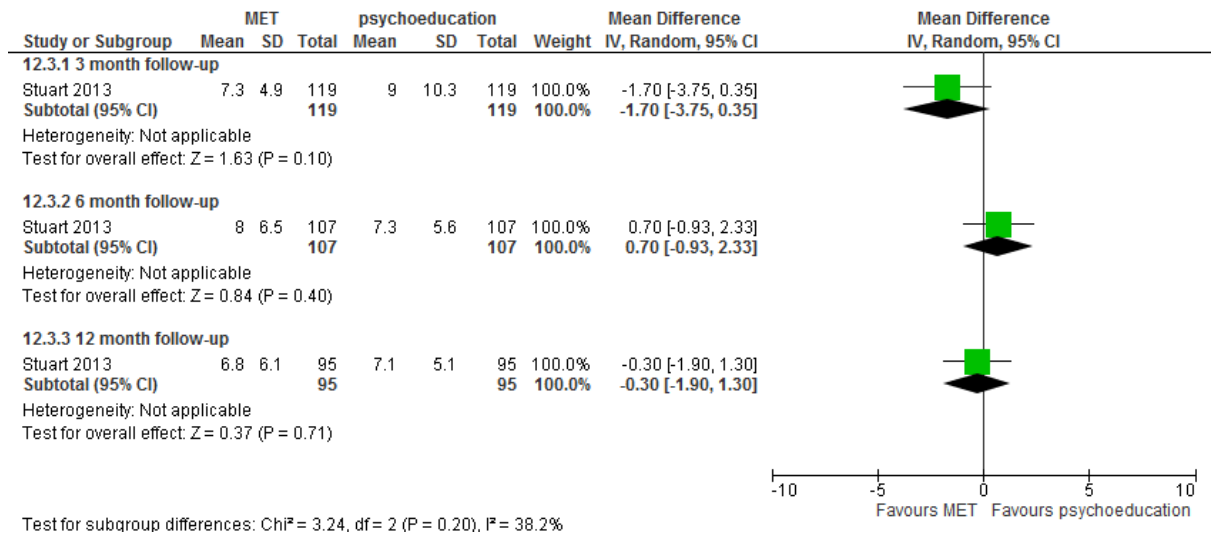
Figure 84:   Percentage of days with cannabis use during treatment
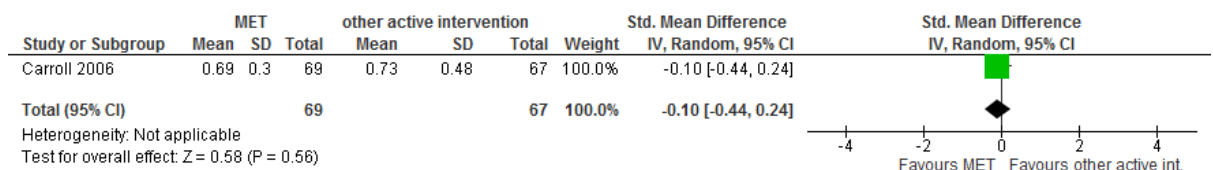
Figure 85:   Percentage of urine tests positive for cannabis use during treatment
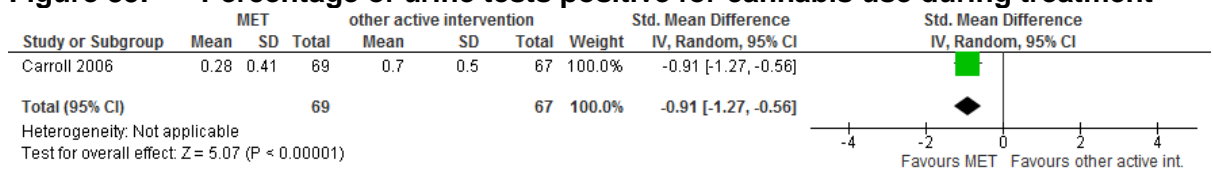
Figure 86:   **Self-reported motivation to take steps to change substance abuse scores at post-treatment**

	ME + psychoed.			Psychoed.				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Easton 2000	25.1	10.4	18	21	13.2	9		4.10 [-5.77, 13.97]	

Favours psychoed.   Favours ME + psychoed.
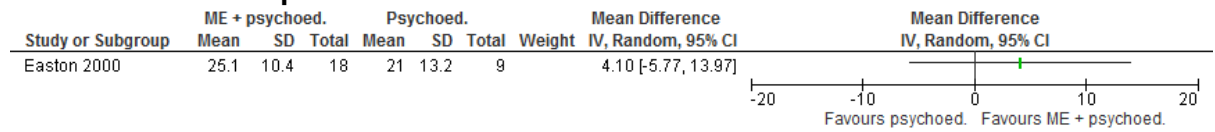
O.4.1.9   Motivational interviewing or feedback versus control or treatment as usual

Figure 87:   **Self-reported drug use at post-treatment**

	MI/MF		control/TAU			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
13.1.1 1 month follow-up							
Alemi 2010	24	39	19	40	100.0%	1.30 [0.86, 1.95]	
Subtotal (95% CI)		39		40	100.0%	1.30 [0.86, 1.95]	
Total events	24		19				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.24 (P = 0.22)							
Total (95% CI)		39		40	100.0%	1.30 [0.86, 1.95]	
Total events	24		19				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.24 (P = 0.22)							
Test for subgroup differences: Not applicable							

Favours MI/MF   Favours control/TAU

Figure 88:   **Self-reported days with drug use in the past 30 days (10 month follow-up)**

	MI			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
Forsberg 2011	6.93	11.64	90	6.5	11.8	24	100.0%	0.04 [-0.41, 0.49]	
Total (95% CI)			90			24	100.0%	0.04 [-0.41, 0.49]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.16 (P = 0.87)									

Favours MI   Favours TAU
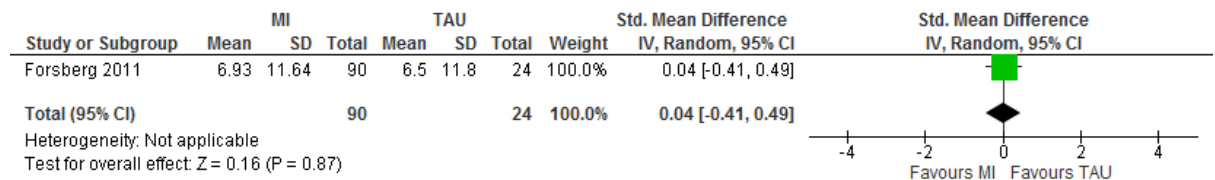
Figure 89:   **Urine test positive for drug use during study period at post-treatment**

	MI		TAU			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Alemi 2010	15	39	14	40	100.0%	1.10 [0.62, 1.96]	
Total (95% CI)		39		40	100.0%	1.10 [0.62, 1.96]	
Total events	15		14				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.32 (P = 0.75)							

Favours MI   Favours TAU
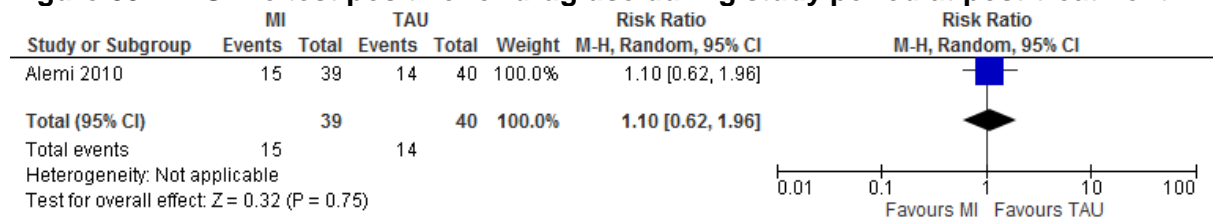
Figure 90:   Self-reported alcohol use at post-treatment

Study or Subgroup	MI/MF Events	Total	control/TAU Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
13.5.1 1 month follow-up						
Alemi 2010	24	39	19	40	100.0%	1.30 [0.86, 1.95]
Subtotal (95% CI)		39		40	100.0%	1.30 [0.86, 1.95]
Total events	24		19			
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.24 (P = 0.22)						
Total (95% CI)		39		40	100.0%	1.30 [0.86, 1.95]
Total events	24		19			
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.24 (P = 0.22)						
Test for subgroup differences: Not applicable						

Figure 91:   Days with illegal activity in the past 30 days (10 month follow-up)

Study or Subgroup	MI Mean	SD	Total	TAU Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
Forsberg 2011	3.92	9.22	80	3.3	9	23	100.0%	0.07 [-0.40, 0.53]
Total (95% CI)			80			23	100.0%	0.07 [-0.40, 0.53]
Heterogeneity: Not applicable								
Test for overall effect: Z = 0.28 (P = 0.78)								

Figure 92:   Drop-out from subsequent treatment (binge drinking group) at post-treatment

Study or Subgroup	MI Events	Total	No treatment Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Crane 2015b	2	11	8	12	100.0%	0.27 [0.07, 1.02]
Total (95% CI)		11		12	100.0%	0.27 [0.07, 1.02]
Total events	2		8			
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.94 (P = 0.05)						

Figure 93:   Drop-out from subsequent treatment (non-binge drinking group) at post-treatment

Study or Subgroup	MI Events	Total	No treatment Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Crane 2015b	5	20	4	15	100.0%	0.94 [0.30, 2.91]
Total (95% CI)		20		15	100.0%	0.94 [0.30, 2.91]
Total events	5		4			
Heterogeneity: Not applicable						
Test for overall effect: Z = 0.11 (P = 0.91)						

Figure 94:   Number of subsequent treatment sessions attended (binge drinking group) at post-treatment

Study or Subgroup	MI Mean	SD	Total	No treatment Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Crane 2015b	14.6	10.08	10	3.44	5.77	9	100.0%	11.16 [3.86, 18.46]
Total (95% CI)			10			9	100.0%	11.16 [3.86, 18.46]
Heterogeneity: Not applicable								
Test for overall effect: Z = 3.00 (P = 0.003)								
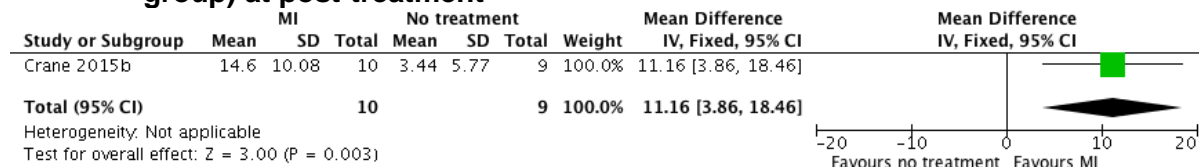
Figure 95: **Number of subsequent treatment sessions attended (non-binge drinking group) at post-treatment**
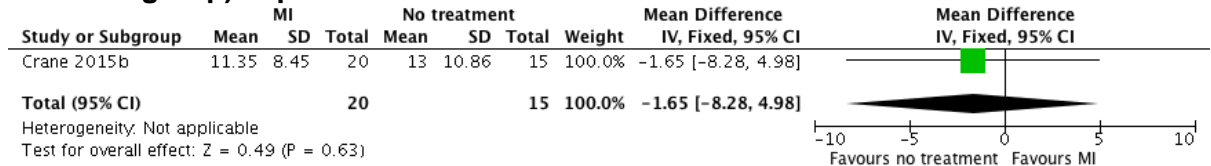
Figure 96: **Specialty addiction clinic attendance at post-treatment**
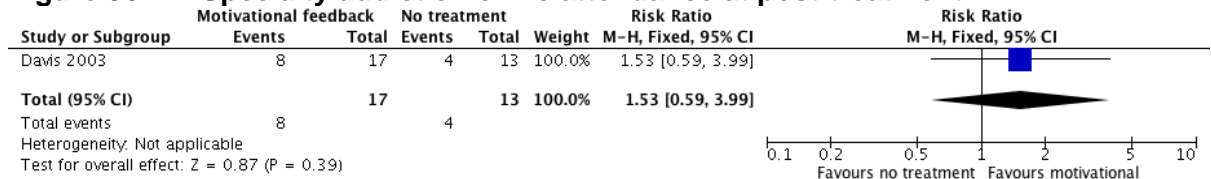
O.4.1.10 Group counselling versus treatment as usual

Figure 97: **Re-arrest (12 month follow-up)**
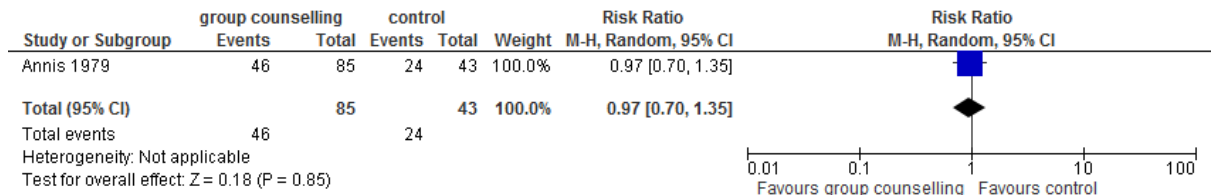
Figure 98: **Number of reconvictions (12 month follow-up)**
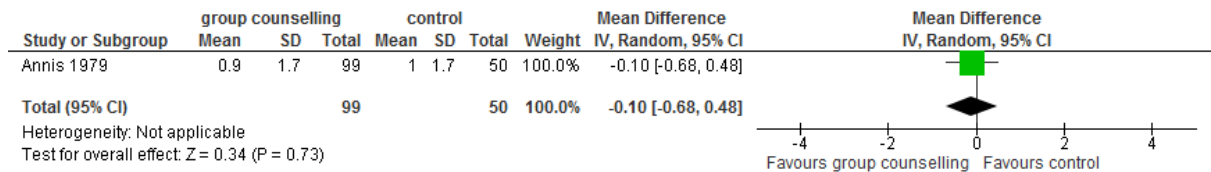
Figure 99: **Re-incarceration (12 month follow-up)**

Figure 100:   Days incarcerated (12 month follow-up)

	group counselling			control				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Annis 1979	47.6	86.8	99	47.3	85.7	50	100.0%	0.30 [-28.97, 29.57]	
Total (95% CI)			99			50	100.0%	0.30 [-28.97, 29.57]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.02 (P = 0.98)									

Favours group counselling Favours control

Figure 101:   Self-reported drug use (12 month follow-up)

	group counselling		control			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
10.5.1 Marijuana							
Annis 1979	31	85	24	43	100.0%	0.65 [0.44, 0.96]	
Subtotal (95% CI)		85		43	100.0%	0.65 [0.44, 0.96]	
Total events	31		24				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.16 (P = 0.03)							
10.5.2 LSD							
Annis 1979	14	85	9	43	100.0%	0.79 [0.37, 1.67]	
Subtotal (95% CI)		85		43	100.0%	0.79 [0.37, 1.67]	
Total events	14		9				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.62 (P = 0.53)							
10.5.3 Speed							
Annis 1979	14	85	4	43	100.0%	1.77 [0.62, 5.05]	
Subtotal (95% CI)		85		43	100.0%	1.77 [0.62, 5.05]	
Total events	14		4				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.07 (P = 0.29)							
10.5.4 Heroin							
Annis 1979	7	85	3	43	100.0%	1.18 [0.32, 4.34]	
Subtotal (95% CI)		85		43	100.0%	1.18 [0.32, 4.34]	
Total events	7		3				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.25 (P = 0.80)							

Favours group counselling Favours control

Test for subgroup differences: Chi² = 3.53, df = 3 (P = 0.32), I² = 15.0%

O.4.1.11   Self-help versus control

Figure 102:   Subsequent bookings (12 month follow-up)

	self-help		control			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Proctor 2012	49	98	56	85	100.0%	0.76 [0.59, 0.97]	
Total (95% CI)		98		85	100.0%	0.76 [0.59, 0.97]	
Total events	49		56				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.16 (P = 0.03)							

Favours self-help Favours control
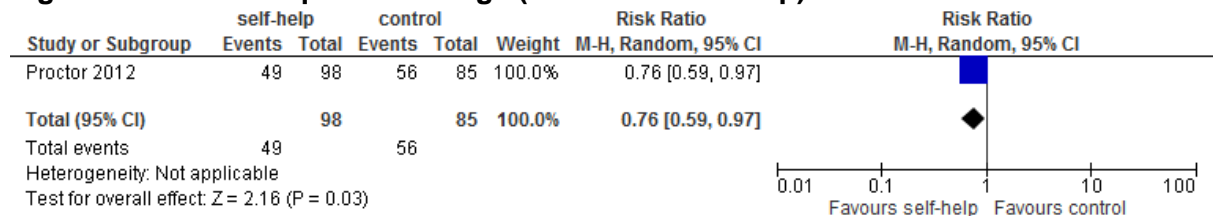
O.4.2 Pharmacological interventions

O.4.2.1 Naloxone versus placebo

Figure 103: Discontinued medication at post-treatment

Study or Subgroup	naloxone Events	Total	placebo Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Hanlon 1977	16	55	8	42	100.0%	1.53 [0.72, 3.23]
Total (95% CI)		55		42	100.0%	**1.53 [0.72, 3.23]**
Total events	16		8			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.11 (P = 0.27)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours naloxone Favours placebo
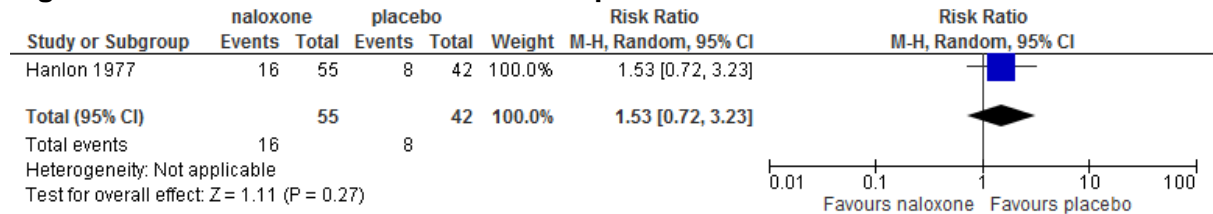
Figure 104: Number of urine test positive at post-treatment

Study or Subgroup	naloxone Events	Total	placebo Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Hanlon 1977	5	73	10	90	100.0%	0.62 [0.22, 1.72]
Total (95% CI)		73		90	100.0%	**0.62 [0.22, 1.72]**
Total events	5		10			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.92 (P = 0.36)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours naloxone Favours placebo

O.4.2.2 Naltrexone versus active intervention

Figure 105: Retained in treatment at post-treatment

Study or Subgroup	naltrexone + counselling Events	Total	counselling Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Cornish 1997	17	34	5	17	100.0%	1.70 [0.76, 3.82]
Total (95% CI)		34		17	100.0%	**1.70 [0.76, 3.82]**
Total events	17		5			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.28 (P = 0.20)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours counselling Favours naltrex. + couns.

Figure 106:   Urine test positive for drugs at post-treatment
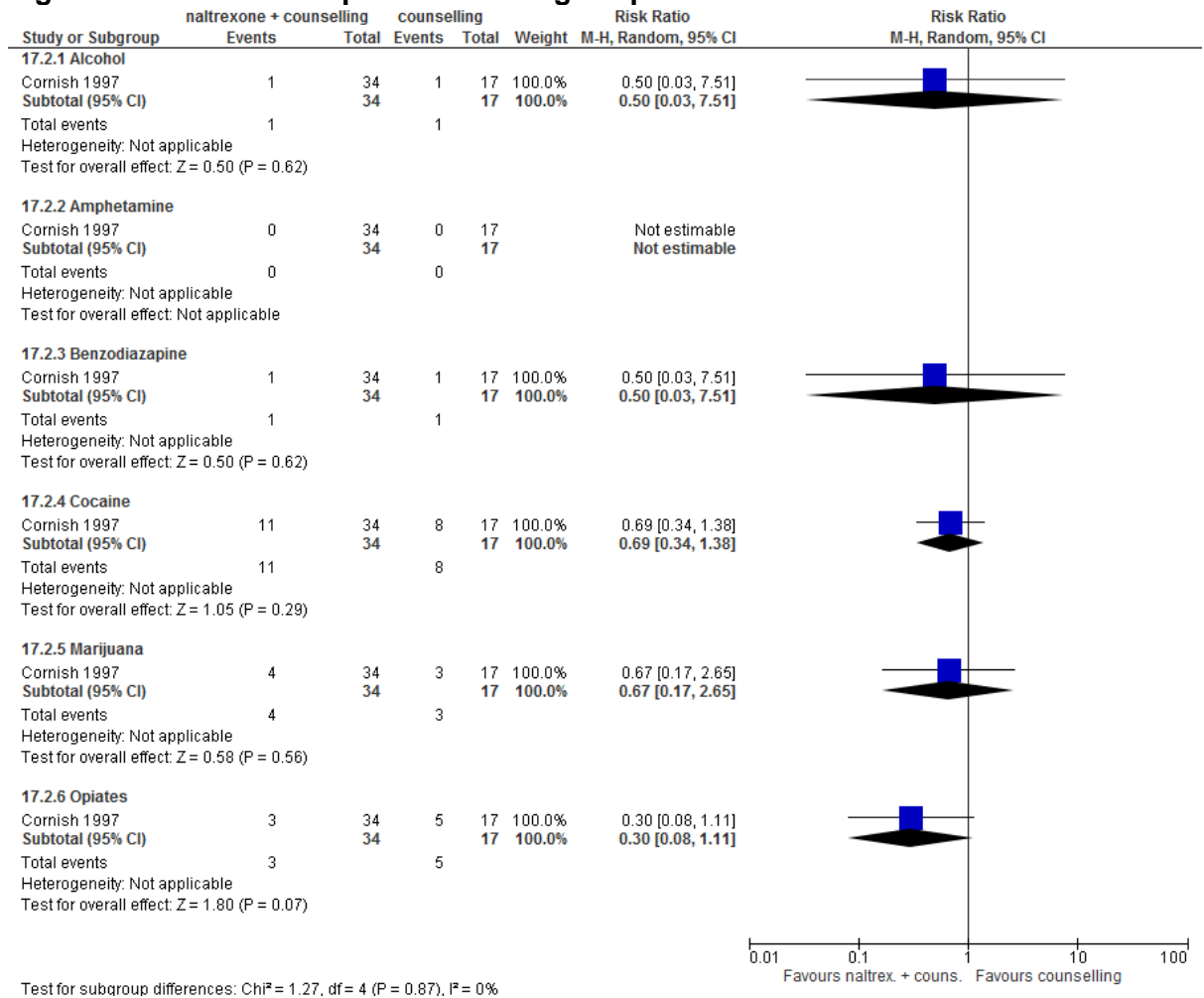
Figure 107:   Cocaine use at post-treatment
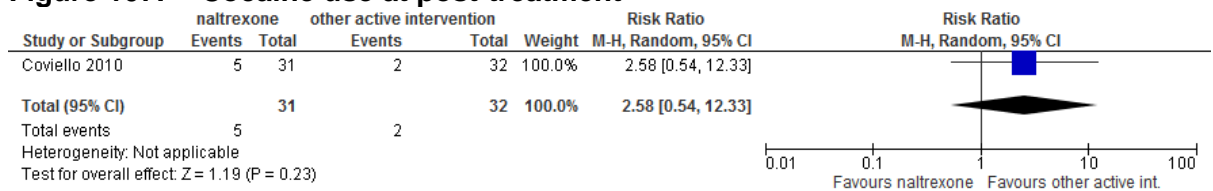
Figure 108:   Opioid use post-treatment
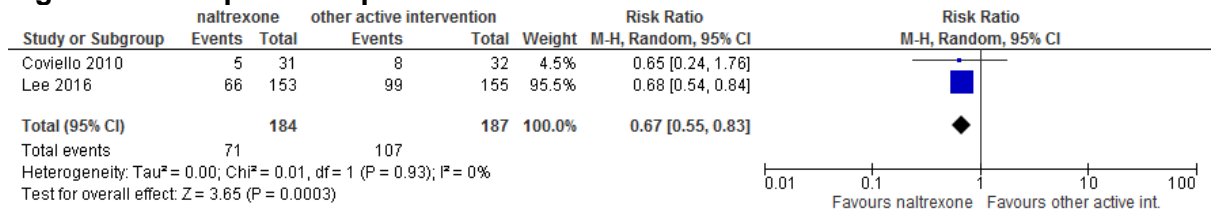
Figure 109: Injection drug use post-treatment
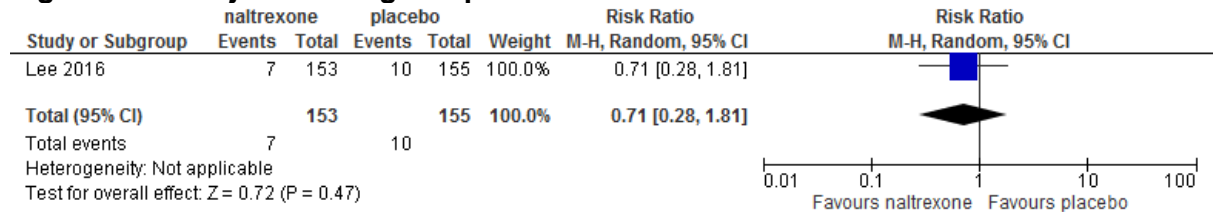
Figure 110: Days of drug use per month (6-month follow-up)
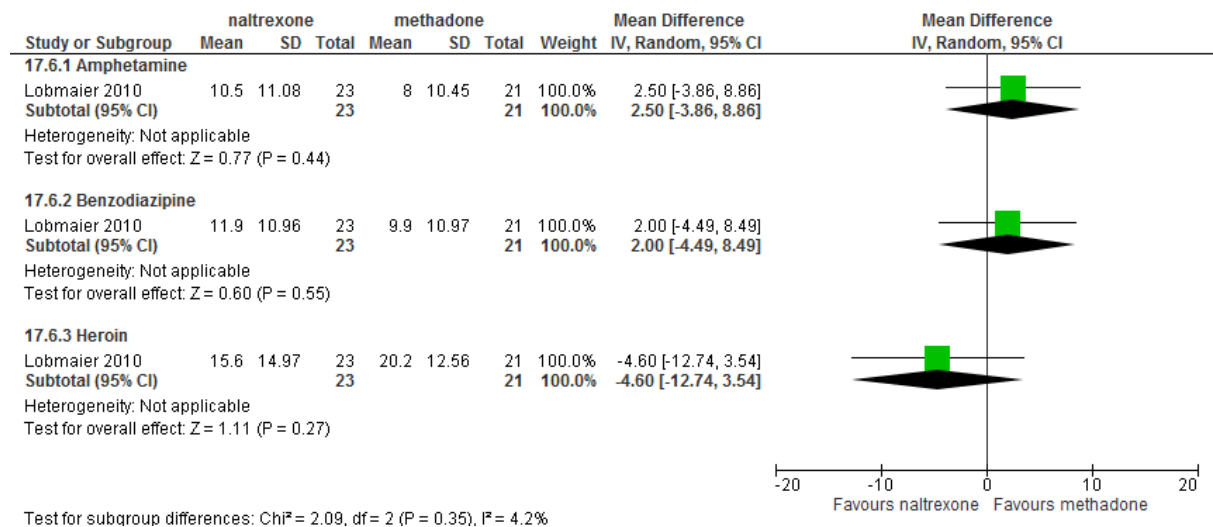
Figure 111: Re-incarceration at post-treatment

Figure 112:   Parole violations at post-treatment

	naltrexone + psychosocial		psychosocial			Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Random, 95% CI
Coviello 2010	2	31	9	32	100.0%	0.23 [0.05, 0.98]		
Total (95% CI)		31		32	100.0%	0.23 [0.05, 0.98]		
Total events	2		9					
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.99 (P = 0.05)								

Favours naltrex. + psych.   Favours psychosocial
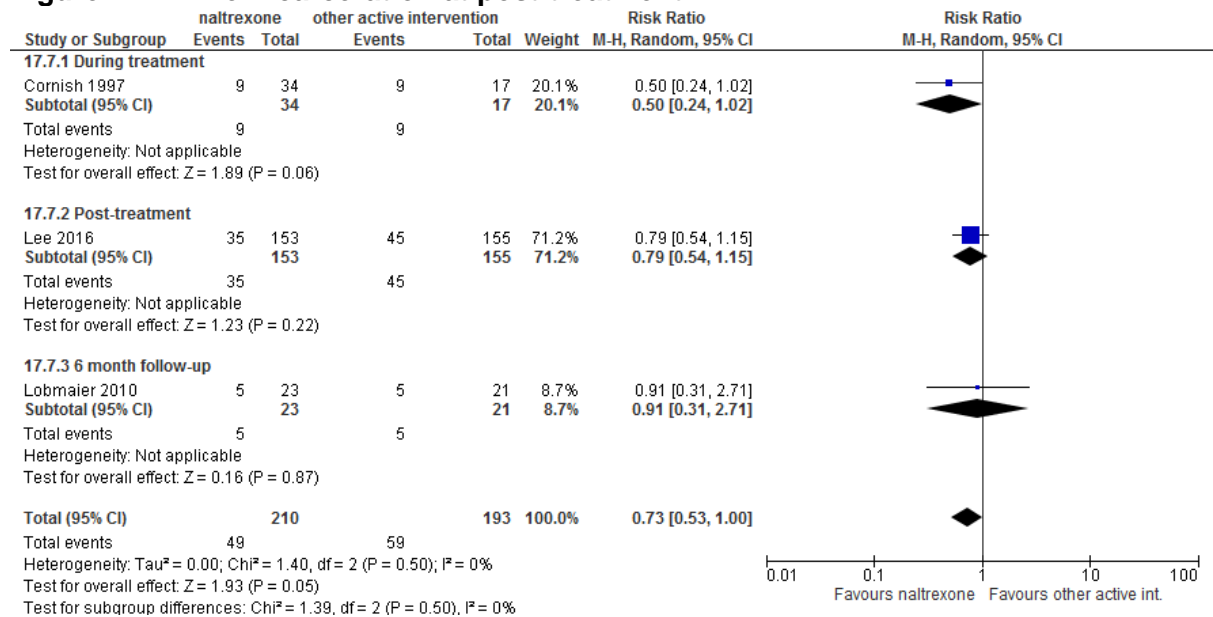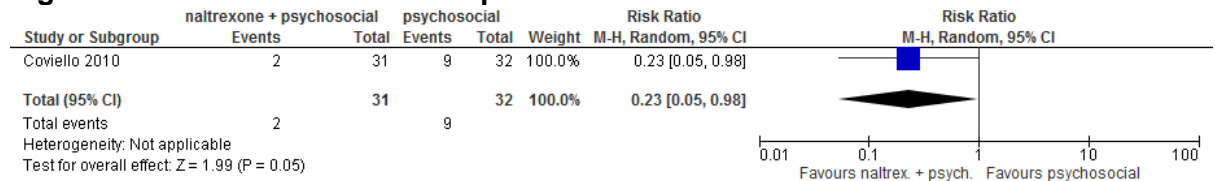
Figure 113:   Drug charges at post-treatment

	naltrexone + psychosocial		psychosocial			Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Random, 95% CI
Coviello 2010	3	31	1	32	100.0%	3.10 [0.34, 28.19]		
Total (95% CI)		31		32	100.0%	3.10 [0.34, 28.19]		
Total events	3		1					
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.00 (P = 0.32)								

Favours naltrex. + psych.   Favours psychosocial
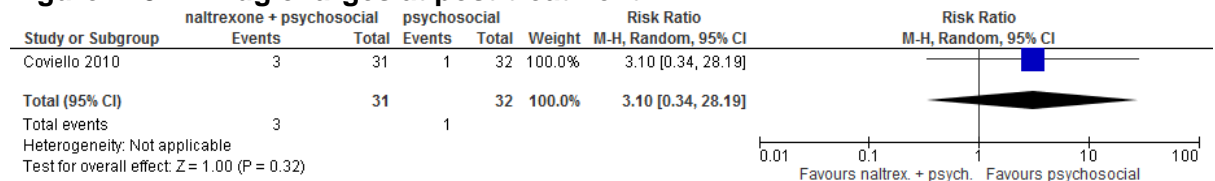
Figure 114:   Days of criminal activity per month (6 month follow-up)

	naltrexone			methadone				Mean Difference		Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI		IV, Random, 95% CI
Lobmaier 2010	14.9	12.34	23	14.4	13.11	21	100.0%	0.50 [-7.04, 8.04]		
Total (95% CI)			23			21	100.0%	0.50 [-7.04, 8.04]		
Heterogeneity: Not applicable										
Test for overall effect: Z = 0.13 (P = 0.90)										

Favours naltrexone   Favours methadone
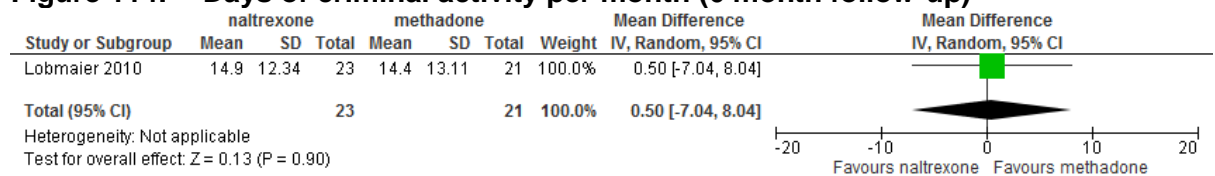
Figure 115: Adverse events (12-month follow-up)

	Naltrexone		Control			Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Random, 95% CI
17.11.1 No. of participants experiencing an adverse event								
Lee 2016	119	153	90	155	100.0%	1.34 [1.14, 1.57]		
Subtotal (95% CI)		153		155	100.0%	1.34 [1.14, 1.57]		
Total events	119		90					
Heterogeneity: Not applicable								
Test for overall effect: Z = 3.62 (P = 0.0003)								
17.11.2 Deaths								
Lee 2016	2	153	5	155	100.0%	0.41 [0.08, 2.06]		
Subtotal (95% CI)		153		155	100.0%	0.41 [0.08, 2.06]		
Total events	2		5					
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.09 (P = 0.28)								
17.11.3 Non-fatal overdoses								
Lee 2016	0	153	4	155	100.0%	0.11 [0.01, 2.07]		
Subtotal (95% CI)		153		155	100.0%	0.11 [0.01, 2.07]		
Total events	0		4					
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.47 (P = 0.14)								

Favours Naltrexone   Favours control

Test for subgroup differences: Chi² = 4.80, df = 2 (P = 0.09), I² = 58.4%

O.4.2.3   Methadone versus waitlist control

Figure 116:   Drop-out at post-treatment

Figure 117: Positive for opioids at post-treatment

Figure 118:   Re-incarceration at 4-year follow-up

Figure 119: Adverse events (1-month follow-up)
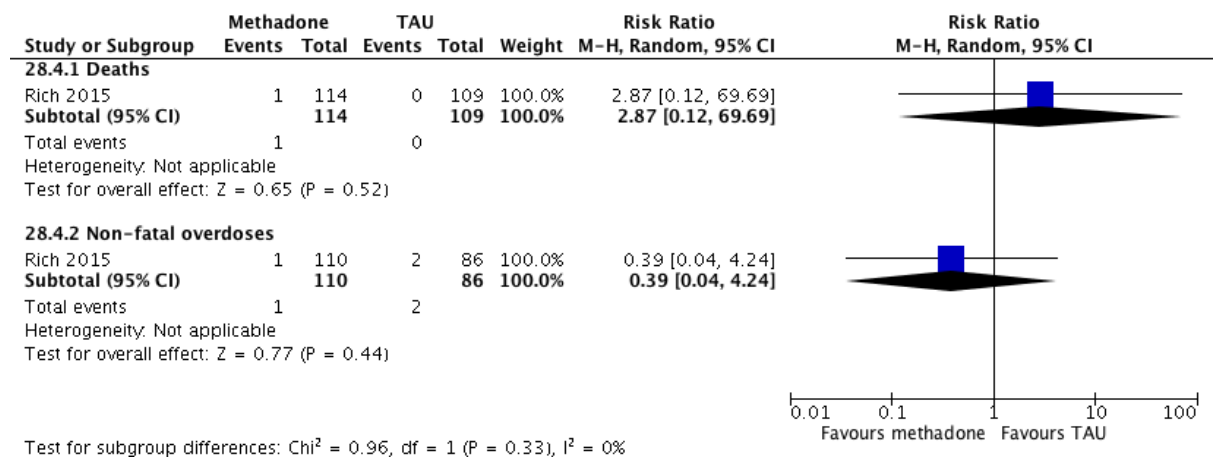
Figure 120: Number of participants in contact with MH/substance misuse services (1-month follow-up)

Figure 121: Any drug use (1-month follow-up)

O.4.2.4   Alpha-adrenergic agonists versus opioid maintenance

Figure 122:   Total withdrawal symptoms at post-treatment

	Lofexidine			Methadone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Howells 2002	596.1	208.3	29	572.1	184.1	34		24.00 [-73.86, 121.86]	

Favours lofexidine Favours methadone

O.4.2.5   Opioid substitution versus active intervention

Figure 123:   Drop-out at post-treatment

	buprenorphine		other active intervention			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Magura 2009	11	60	14	56	48.8%	0.73 [0.36, 1.48]	
Sheard 2009	10	42	15	48	51.2%	0.76 [0.38, 1.51]	
Total (95% CI)		**102**		**104**	**100.0%**	**0.75 [0.46, 1.22]**	
Total events	21		29				

Heterogeneity: Tau² = 0.00; Chi² = 0.01, df = 1 (P = 0.94); I² = 0%
Test for overall effect: Z = 1.16 (P = 0.24)

Favours buprenorphine Favours other active int.

Figure 124:   Abstinence at post-treatment

	buprenorphine		other active intervention			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
15.2.1 Post-treatment							
Wright 2011	74	100	79	113	100.0%	1.06 [0.90, 1.25]	
Subtotal (95% CI)		**100**		**113**	**100.0%**	**1.06 [0.90, 1.25]**	
Total events	74		79				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.66 (P = 0.51)							
15.2.2 1 month follow-up							
Wright 2011	45	72	64	87	100.0%	0.85 [0.68, 1.06]	
Subtotal (95% CI)		**72**		**87**	**100.0%**	**0.85 [0.68, 1.06]**	
Total events	45		64				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.46 (P = 0.14)							
15.2.3 3 month follow-up							
Wright 2011	31	46	27	48	100.0%	1.20 [0.87, 1.65]	
Subtotal (95% CI)		**46**		**48**	**100.0%**	**1.20 [0.87, 1.65]**	
Total events	31		27				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.11 (P = 0.27)							
15.2.4 6 month follow-up							
Sheard 2009	5	42	5	48	10.7%	1.14 [0.36, 3.68]	
Wright 2011	21	33	16	27	89.3%	1.07 [0.72, 1.61]	
Subtotal (95% CI)		**75**		**75**	**100.0%**	**1.08 [0.74, 1.59]**	
Total events	26		21				

Heterogeneity: Tau² = 0.00; Chi² = 0.01, df = 1 (P = 0.92); I² = 0%
Test for overall effect: Z = 0.40 (P = 0.69)

Favours other active int. Favours buprenorphine

Test for subgroup differences: Chi² = 3.91, df = 3 (P = 0.27), I² = 23.3%

Figure 125:   Opioid abuse (3 month follow-up)

	buprenorphine		methadone			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Magura 2009	32	60	37	56	100.0%	0.81 [0.60, 1.09]	
Total (95% CI)		**60**		**56**	**100.0%**	**0.81 [0.60, 1.09]**	
Total events	32		37				

Heterogeneity: Not applicable
Test for overall effect: Z = 1.39 (P = 0.16)

Favours buprenorphine Favours methadone
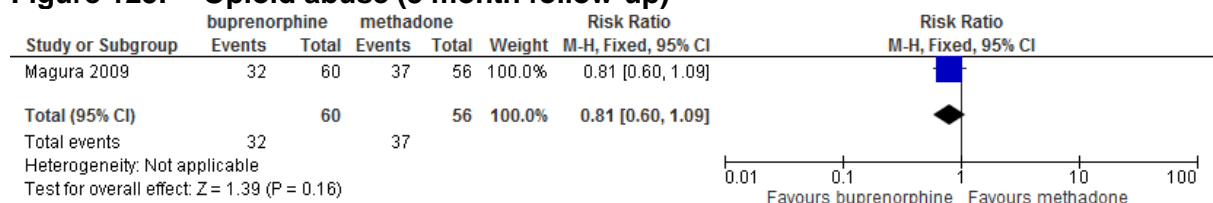
Figure 126:   Self-reported injection drug use at post-treatment
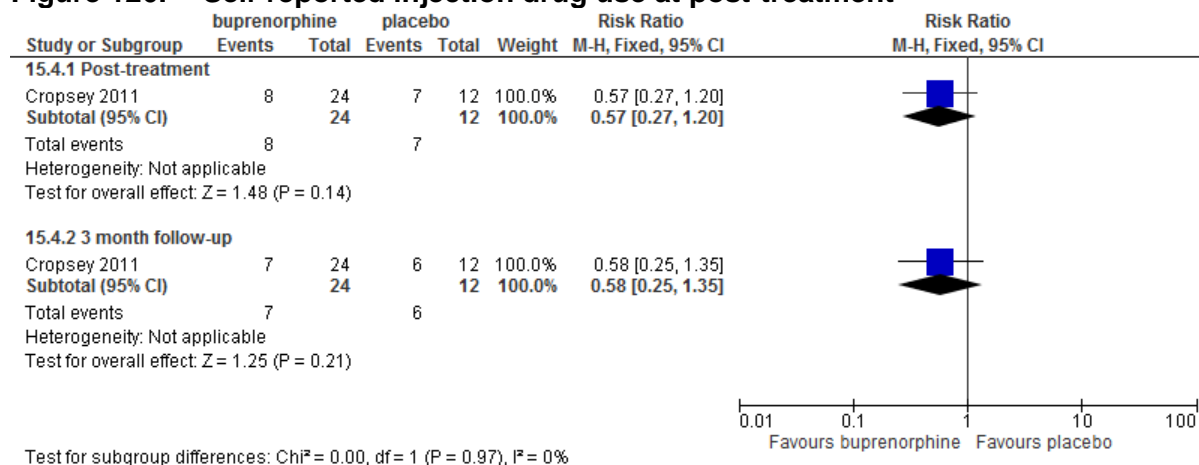
Figure 127:   Number of times re-arrested (3 month follow-up)
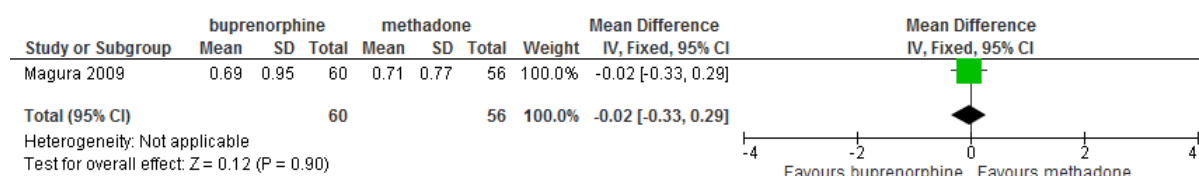
Figure 128:   Re-arrest for drug crimes (3 month follow-up)

Figure 129:   Re-incarceration at post-treatment
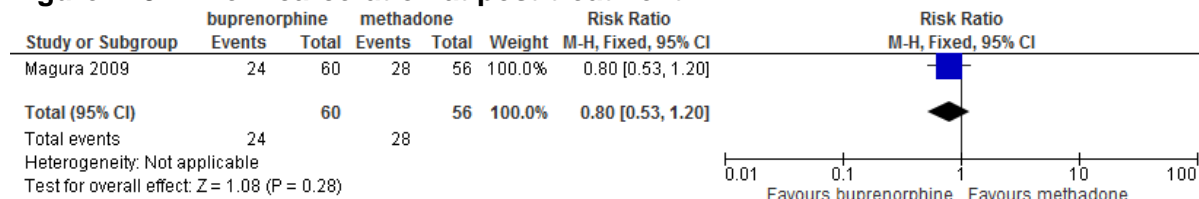
O.4.3   Combined psychological and pharmacological interventions

O.4.3.1   Antidepressants plus psychological therapy versus psychological therapy alone for substance misuse

Figure 130:   Number of participants who failed to complete treatment at post-

treatment

Study or Subgroup	Antidepressant + psych. Events	Total	Psych. only Events	Total	Weight	Risk Ratio M–H, Fixed, 95% CI
George 2011	13	31	9	29	100.0%	1.35 [0.68, 2.67]
Total (95% CI)		31		29	100.0%	**1.35 [0.68, 2.67]**
Total events	13		9			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.86 (P = 0.39)

Favours fluoxetine+psych Favours psych only
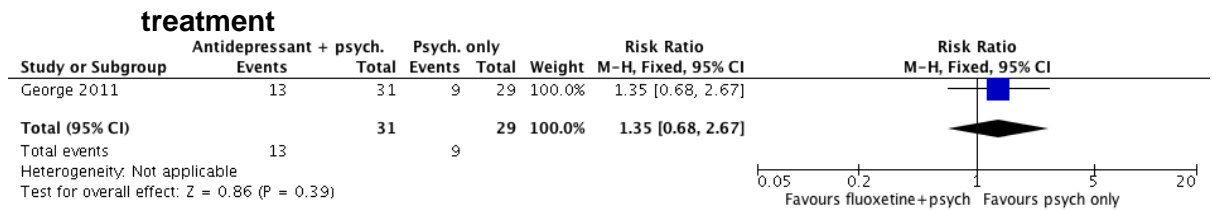
Figure 131: Spielberger State Anxiety Inventory score at post-treatment

Study or Subgroup	Antidepressant + psych. Mean	SD	Total	Psych. only Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
George 2011	37.9	9.9	31	38.2	13.9	29	100.0%	−0.30 [−6.44, 5.84]
Total (95% CI)			31			29	100.0%	**−0.30 [−6.44, 5.84]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.10 (P = 0.92)

Favours fluoxetine+psych Favours psych. only
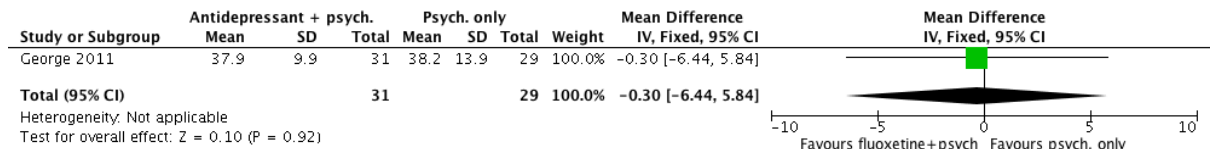
Figure 132: Hamilton Depression Rating Scale score at post-treatment

Study or Subgroup	Antidepressant + psych. Mean	SD	Total	Psych. only Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
George 2011	8.4	4.6	31	11.5	7.2	29	100.0%	−3.10 [−6.18, −0.02]
Total (95% CI)			31			29	100.0%	**−3.10 [−6.18, −0.02]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.97 (P = 0.05)

Favours fluoxetine+psych. Favours psych. only
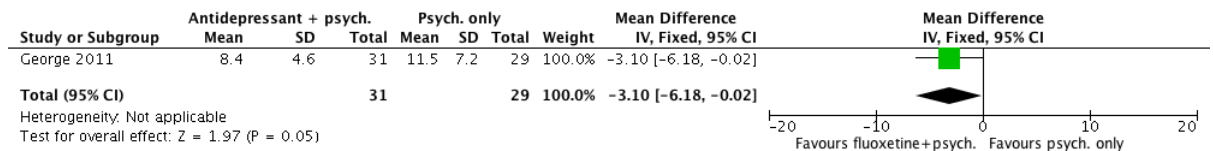
O.4.4 Support and educational interventions

O.4.4.1 Psychoeducation versus control or treatment as usual

Figure 133: Number of days with uncontrolled drinking at post-treatment

Study or Subgroup	psychoeducation Mean	SD	Total	control/TAU Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Brown 1980	21.35	14.2	18	26.2	1.61	16	100.0%	-4.85 [-11.46, 1.76]
Total (95% CI)			18			16	100.0%	**-4.85 [-11.46, 1.76]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.44 (P = 0.15)

Favours psychoeducation Favours control/TAU
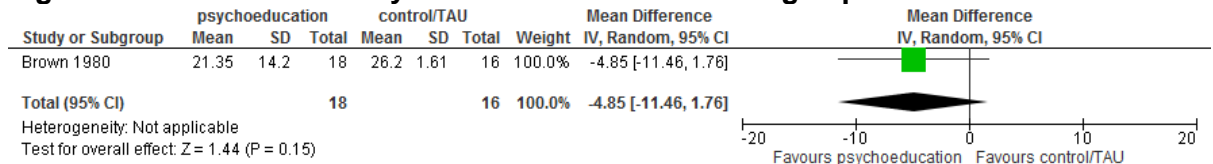
O.4.4.2 Employment workshop versus control or treatment as usual

Figure 134: Number of participants employed at post-treatment

Study or Subgroup	Employment workshop Events	Total	Control/TAU Events	Total	Weight	Risk Ratio M–H, Random, 95% CI
Hall 1981	24	28	13	24	38.0%	1.58 [1.06, 2.36]
Webster 2014	196	244	176	233	62.0%	1.06 [0.97, 1.17]
Total (95% CI)		272		257	100.0%	**1.24 [0.84, 1.81]**
Total events	220		189			

Heterogeneity: Tau² = 0.06; Chi² = 3.70, df = 1 (P = 0.05); I² = 73%
Test for overall effect: Z = 1.09 (P = 0.28)

Favours control/TAU Favours employment w-shop

Figure 135: Days in paid employment at post-treatment

Study or Subgroup	Employment workshop Mean	SD	Total	Control/TAU Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Webster 2014	210.1	114.1	244	199.9	130.1	233		10.20 [-11.80, 32.20]

Favours control/TAU Favours employment w-shop
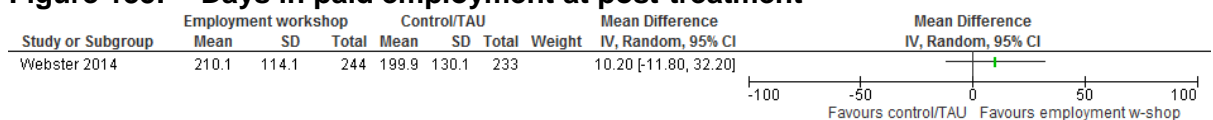
O.4.5 Physical interventions

O.4.5.1 Acupuncture versus active intervention

Figure 136: Drop-out at post-treatment

Study or Subgroup	acupuncture + urine test Events	Total	urine testing Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Berman 2004	50	82	32	76	100.0%	1.45 [1.06, 1.99]
Total (95% CI)		82		76	100.0%	1.45 [1.06, 1.99]
Total events	50		32			

Heterogeneity: Not applicable
Test for overall effect: Z = 2.30 (P = 0.02)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours acupunc. + urine Favours urine testing
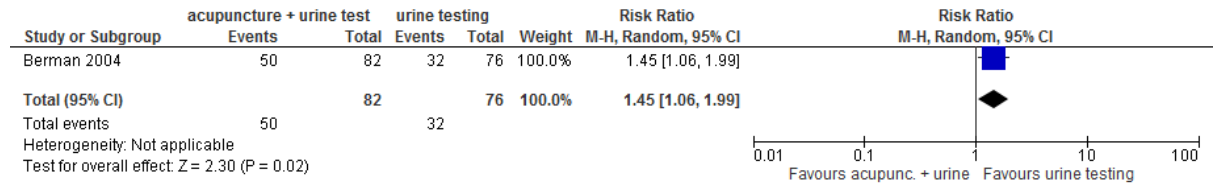
Figure 137: Urine test positive for drug use at post-treatment

Study or Subgroup	acupuncture + urine test Events	Total	other active intervention Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Berman 2004	6	22	0	28	35.6%	16.39 [0.97, 276.07]
Konefal 1995	9	24	8	34	64.4%	1.59 [0.72, 3.53]
Total (95% CI)		46		62	100.0%	3.65 [0.33, 41.00]
Total events	15		8			

Heterogeneity: Tau² = 2.20; Chi² = 2.96, df = 1 (P = 0.09); I² = 66%
Test for overall effect: Z = 1.05 (P = 0.29)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours acupunc. + urine Favours other active int.

O.5 Interventions for 'other' mental health disorders

O.5.1 Depression

O.5.1.1 Psychotherapy vs PSYCHOED

Figure 138: Depression by HRSD scales (at post-treatment)
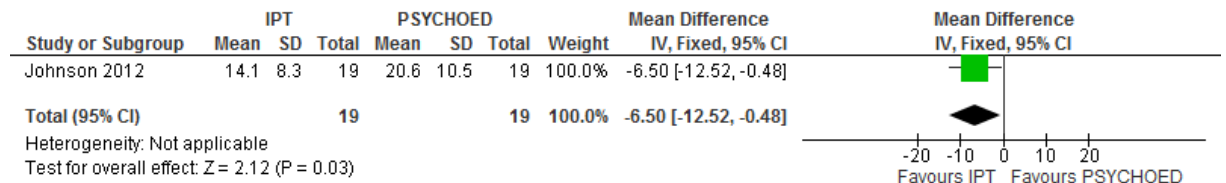
Figure 139: Depression by HRSD scales at 13-weeks follow-up
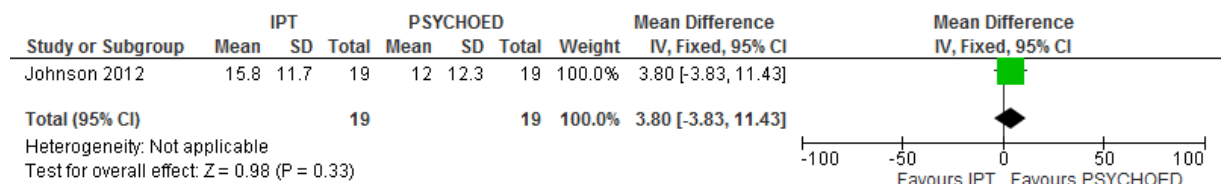
O.5.1.2 Group therapy vs Individual therapy

Figure 140: Depression by BDI scales at post-treatment
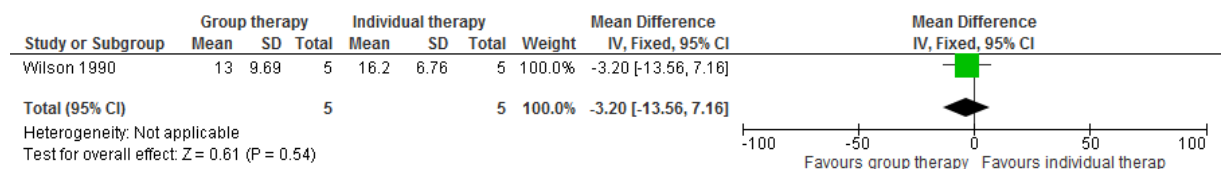
Figure 141: Depression by Hopeless scale at post-treatment

Figure 142:   Depression by MMPI D scale at post-treatment

Study or Subgroup	Group therapy Mean	SD	Total	Individual therapy Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Wilson 1990	69.8	14.56	5	57.2	10.98	5	100.0%	12.60 [-3.38, 28.58]	
Total (95% CI)			5			5	100.0%	**12.60 [-3.38, 28.58]**	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.54 (P = 0.12)

Favours group therapy   Favours individual therap
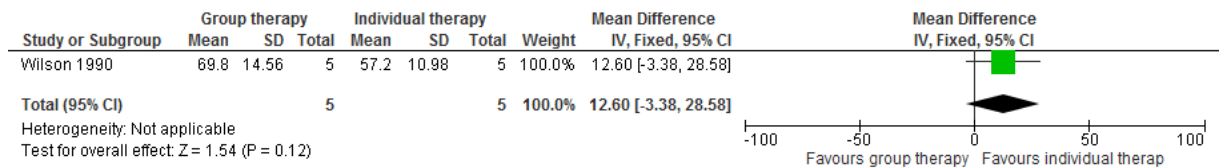
Figure 143:   Depression by MMPI D scale at 39-weeks follow-up

Study or Subgroup	Group therapy Mean	SD	Total	Individual therapy Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Wilson 1990	61.2	8.41	5	56.4	14.22	5	100.0%	4.80 [-9.68, 19.28]	
Total (95% CI)			5			5	100.0%	**4.80 [-9.68, 19.28]**	

Heterogeneity: Not applicable
Test for overall effect: Z = 0.65 (P = 0.52)

Favours group therapy   Favours individual therap
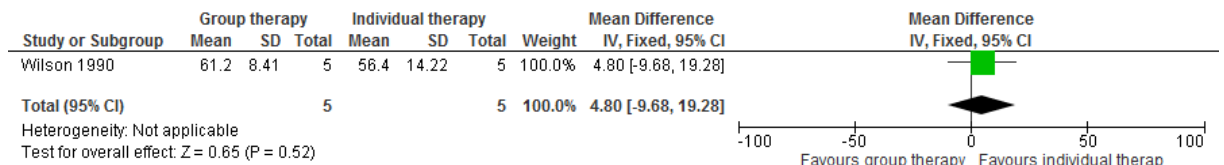
Figure 144:   Depression by Multiple affect adjective checklist D scale at post-treatment

Study or Subgroup	Group therapy Mean	SD	Total	Individual therapy Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Wilson 1990	8.8	5.26	5	8.2	3.49	5	100.0%	0.60 [-4.93, 6.13]	
Total (95% CI)			5			5	100.0%	**0.60 [-4.93, 6.13]**	

Heterogeneity: Not applicable
Test for overall effect: Z = 0.21 (P = 0.83)

Favours group therapy   Favours individual therap
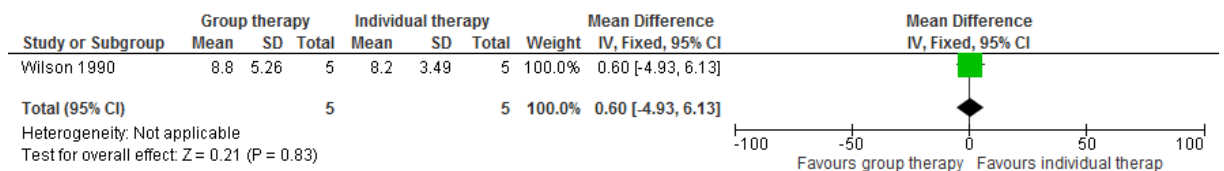
O.5.1.3   Arts-based Therapy vs TAU

Figure 145:   Change in Adult Nowicki-Strickland Locus of Control Scale (ANS) at post-treatment

Study or Subgroup	Arts Therapy Mean	SD	Total	TAU Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
16.1.1 Male									
Gussak 2009	-1.22	4.04	37	1.04	3.61	25	59.1%	-2.26 [-4.18, -0.34]	
Subtotal (95% CI)			37			25	59.1%	**-2.26 [-4.18, -0.34]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.30 (P = 0.02)									
16.1.2 Female									
Gussak 2009	-3.21	5.58	71	0.7	4.37	20	40.9%	-3.91 [-6.22, -1.60]	
Subtotal (95% CI)			71			20	40.9%	**-3.91 [-6.22, -1.60]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 3.31 (P = 0.0009)									
Total (95% CI)			108			45	100.0%	**-2.93 [-4.41, -1.46]**	

Heterogeneity: Chi² = 1.16, df = 1 (P = 0.28); I² = 13%
Test for overall effect: Z = 3.89 (P = 0.0001)
Test for subgroup differences: Chi² = 1.16, df = 1 (P = 0.28), I² = 13.5%

Favours Arts Therapy   Favours TAU

Figure 146: **Change in Beck Depression Inventory (BDI): Total at post-treatment**
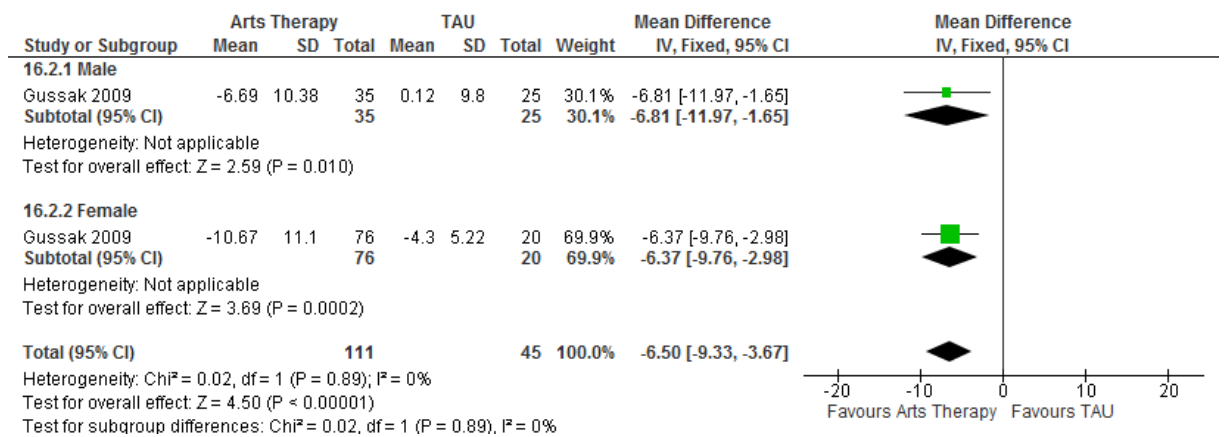
Figure 147: **Change in formal elements of arts therapy scale rating guide (FEATS): Prominence of colour at post-treatment**
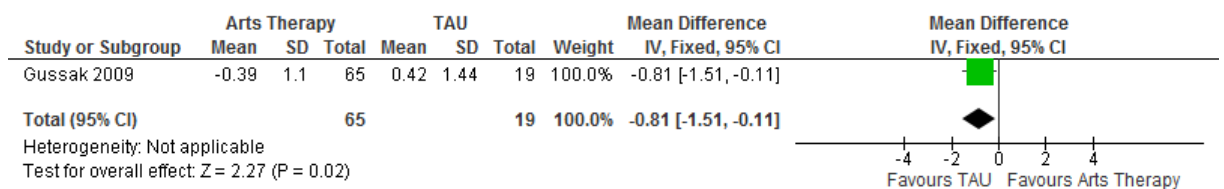
Figure 148: **Change in formal elements of arts therapy scale rating guide (FEATS): Colour Fit at post-treatment**
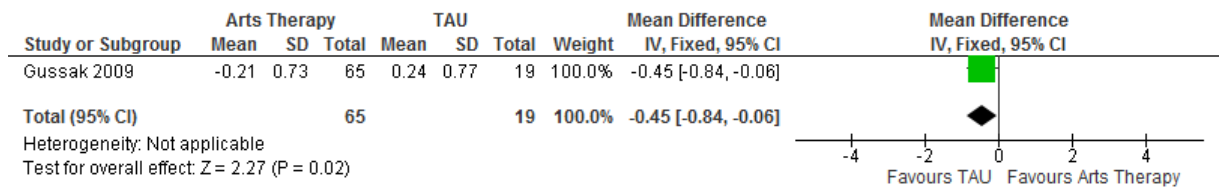
O.5.2   Vulnerable inmates with suicidal risks

O.5.2.1   Social problem solving group vs No treatment control

Figure 149: **Depression by HADS scales at post-treatment**
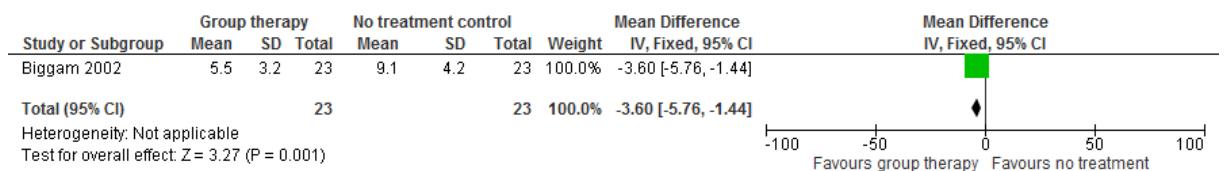
Figure 150: **Anxiety by HADS scales at post-treatment**

Figure 151: Depression by Beck Hopeless scales at post-treatment

Study or Subgroup	Group therapy Mean	SD	Total	No treatment control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Biggam 2002	3.9	3.5	23	6.4	4.7	23	100.0%	-2.50 [-4.89, -0.11]
Total (95% CI)			23			23	100.0%	-2.50 [-4.89, -0.11]

Heterogeneity: Not applicable
Test for overall effect: Z = 2.05 (P = 0.04)
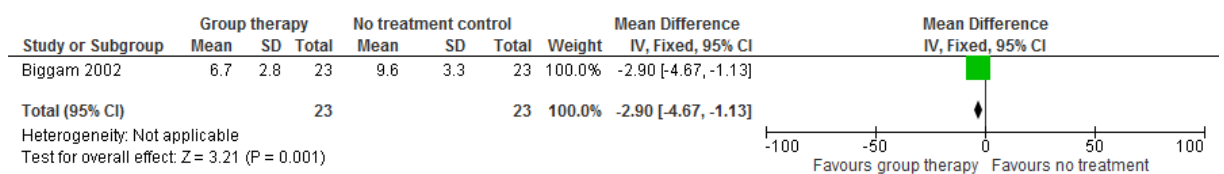
Favours group therapy Favours no treatment
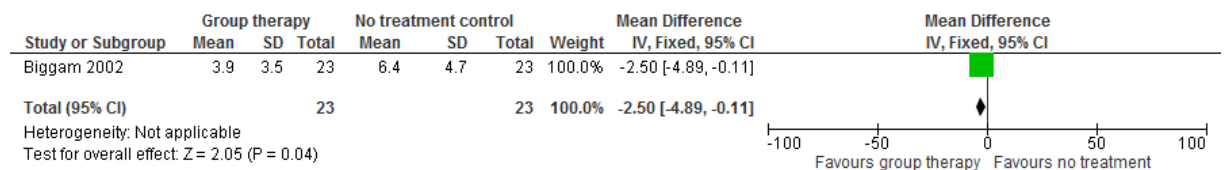
Figure 152: Decision making ability by SPSI:R scales at post-treatment

Study or Subgroup	Group therapy Mean	SD	Total	No treatment control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Biggam 2002	12.1	4.2	23	6.8	4.9	23	100.0%	5.30 [2.66, 7.94]
Total (95% CI)			23			23	100.0%	5.30 [2.66, 7.94]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.94 (P < 0.0001)

Favours no treatment Favours group therapy
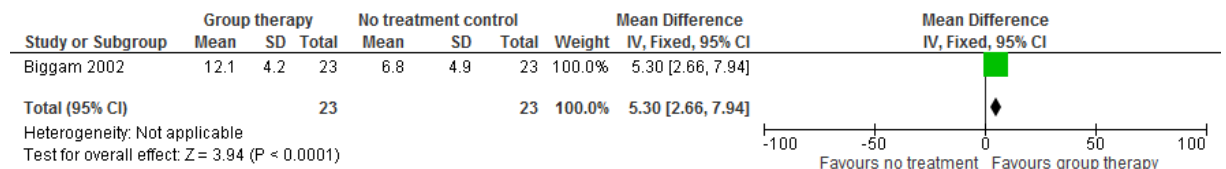
Figure 153: Depression by HADS scales at 13-weeks follow-up

Study or Subgroup	Group therapy Mean	SD	Total	No treatment control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Biggam 2002	5.1	2.9	23	8.4	3.6	23	100.0%	-3.30 [-5.19, -1.41]
Total (95% CI)			23			23	100.0%	-3.30 [-5.19, -1.41]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.42 (P = 0.0006)

Favours group therapy Favours no treatment
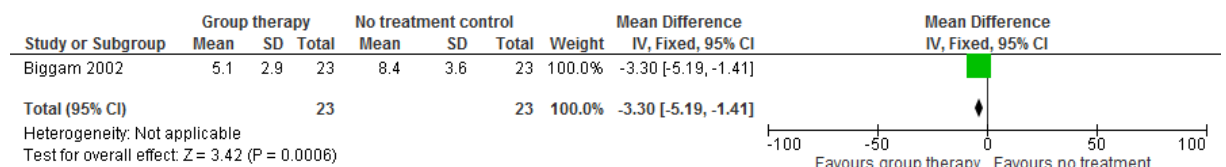
Figure 154: Anxiety by HADS scales at 13-weeks follow-up

Study or Subgroup	Group therapy Mean	SD	Total	No treatment control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Biggam 2002	6.9	3.1	23	9.6	3.5	23	100.0%	-2.70 [-4.61, -0.79]
Total (95% CI)			23			23	100.0%	-2.70 [-4.61, -0.79]

Heterogeneity: Not applicable
Test for overall effect: Z = 2.77 (P = 0.006)

Favours group therapy Favours no treatment
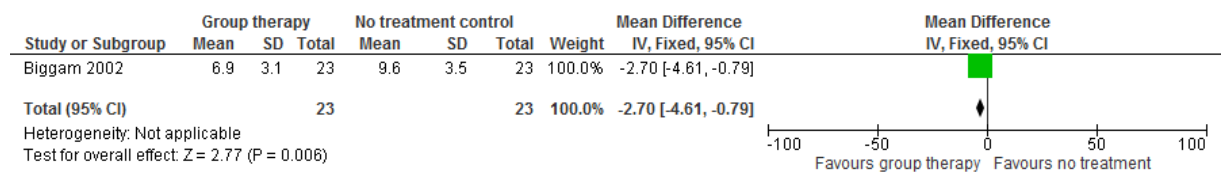
Figure 155: Depression by Beck Hopeless scales (13 weeks follow-up)

Study or Subgroup	Group therapy Mean	SD	Total	No treatment control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Biggam 2002	4.2	2.9	23	7	4.9	23	100.0%	-2.80 [-5.13, -0.47]
Total (95% CI)			23			23	100.0%	-2.80 [-5.13, -0.47]

Heterogeneity: Not applicable
Test for overall effect: Z = 2.36 (P = 0.02)

Favours group therapy Favours no treatment
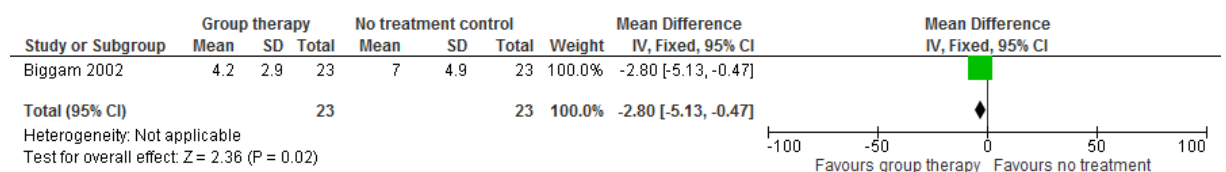
O.5.3 Anxiety disorder

O.5.3.1 Self-help therapy vs Wait-list control

Figure 156: Anxiety by HADS scales at post-treatment

Study or Subgroup	Self-help therapy Mean	SD	Total	Wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Maunder 2009	12.61	4.23	15	13.67	3.08	18	100.0%	-1.06 [-3.63, 1.51]
Total (95% CI)			15			18	100.0%	-1.06 [-3.63, 1.51]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.81 (P = 0.42)

Favours self-help therapy Favours wait-list control
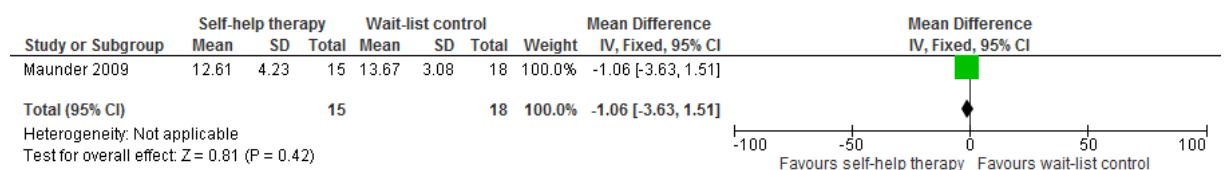
Figure 157:   Anxiety by HADS scales at 4-weeks follow-up
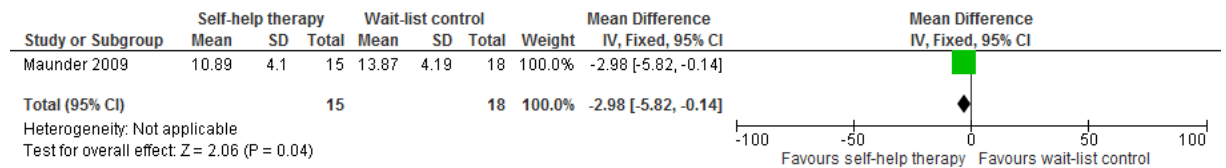
O.5.4   PTSD

O.5.4.1   Psychotherapy vs Control

Figure 158:   Trauma by TSI at post-treatment
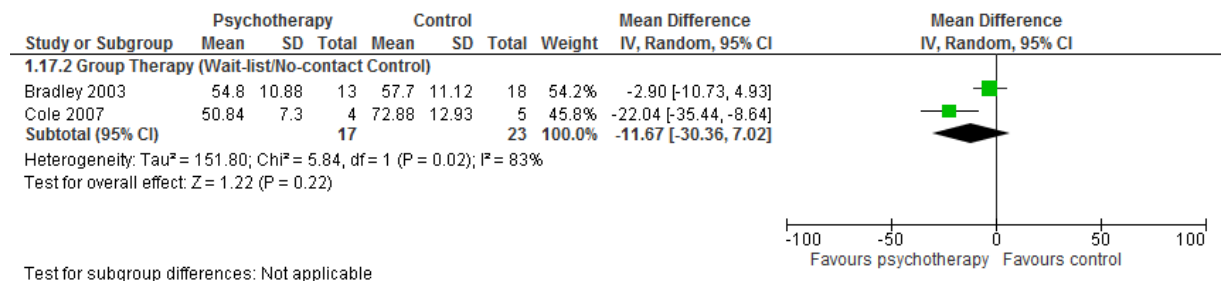
O.5.4.2   TIR vs Wait-list control

Figure 159:   Depression by BDI scales at post-treatment
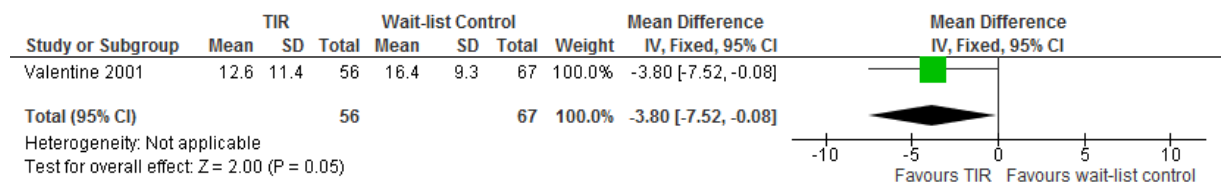
Figure 160:   Depression by BDI scales at 13 weeks follow-up
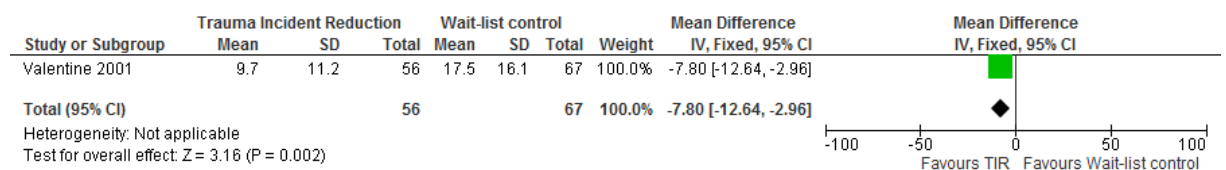
Figure 161:   PTSD by PSS scales at post-treatment

Figure 162:   PTSD by PSS scales (13 weeks follow-up)

Study or Subgroup	TIR Mean	SD	Total	Control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Valentine 2001	8.5	9.7	56	15.8	13.9	67	100.0%	-7.30 [-11.49, -3.11]
Total (95% CI)			56			67	100.0%	-7.30 [-11.49, -3.11]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.42 (P = 0.0006)

Favours TIR Favours wait-list control

Figure 163:   Generalized Expectancy by Success scale at post-treatment

Study or Subgroup	TIR Mean	SD	Total	Wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Valentine 2001	122	33.8	56	106.1	21.2	67	100.0%	15.90 [5.70, 26.10]
Total (95% CI)			56			67	100.0%	15.90 [5.70, 26.10]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.05 (P = 0.002)

Favours wait-list control Favours TIR
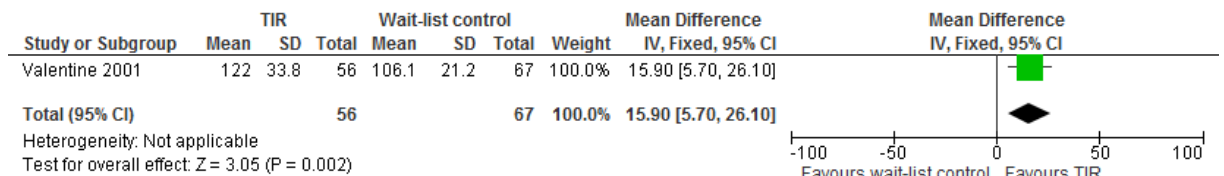
Figure 164:   Generalized Expectancy for Success scales at 13-weeks follow-up

Study or Subgroup	TIR Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Valentine 2001	112.2	16.7	56	108.6	18.9	67	100.0%	3.60 [-2.69, 9.89]
Total (95% CI)			56			67	100.0%	3.60 [-2.69, 9.89]

Heterogeneity: Not applicable
Test for overall effect: Z = 1.12 (P = 0.26)

Favours Wait-list control Favours TIR
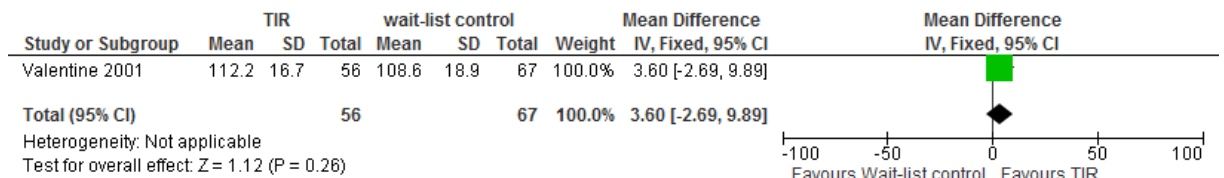
Figure 165:   Clinical anxiety scales at post-treatment

Study or Subgroup	TIR Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Valentine 2001	52.7	13.1	56	56	16.6	67	100.0%	-3.30 [-8.55, 1.95]
Total (95% CI)			56			67	100.0%	-3.30 [-8.55, 1.95]

Heterogeneity: Not applicable
Test for overall effect: Z = 1.23 (P = 0.22)

Favours TIR Favours wait-list control

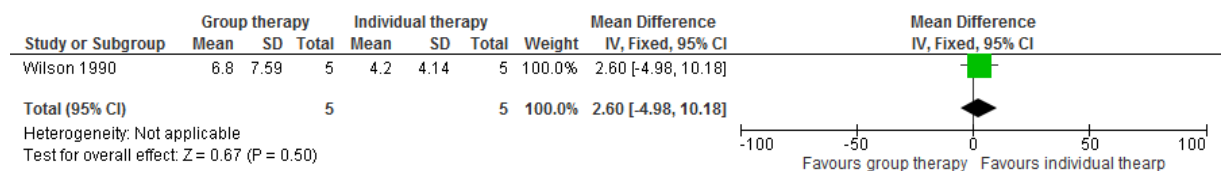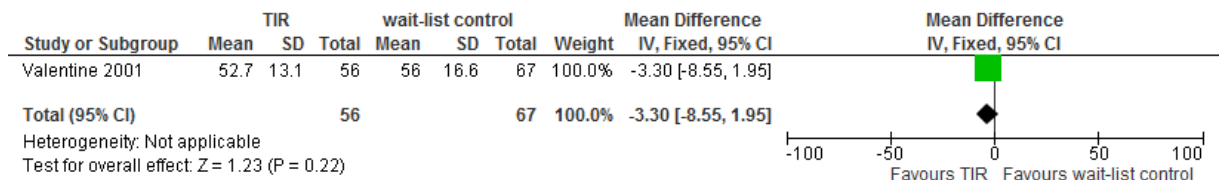**Figure 166:   Clinical anxiety scales at 13-weeks follow-up at post-treatment**

Study or Subgroup	TIR Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Valentine 2001	9.7	11.2	56	17.5	16.1	67	100.0%	-7.80 [-12.64, -2.96]
Total (95% CI)			56			67	100.0%	-7.80 [-12.64, -2.96]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.16 (P = 0.002)

Favours TIR Favours wait-list control
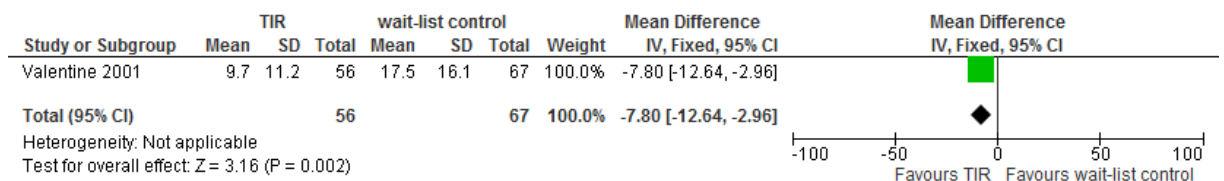
O.5.4.3   TARGET vs SGT

Figure 167:   PTSD symptoms by CAPS scales at post-treatment

Study or Subgroup	TARGET Mean	SD	Total	SGT Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Ford 2013	50	20.8	38	50.5	24.3	34	100.0%	-0.50 [-11.01, 10.01]
Total (95% CI)			38			34	100.0%	-0.50 [-11.01, 10.01]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.09 (P = 0.93)

Favours TARGET Favours SGT

Figure 168: Heartland forgiveness scales at post-treatment

Study or Subgroup	TARGET Mean	SD	Total	SGT Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Ford 2013	81.3	11.8	23	76.7	15.7	9	100.0%	4.60 [-6.73, 15.93]	
Total (95% CI)			23			9	100.0%	4.60 [-6.73, 15.93]	

Heterogeneity: Not applicable
Test for overall effect: Z = 0.80 (P = 0.43)

-100   -50   0   50   100
Favours SGT   Favours TARGET

O.5.4.4 Focused group therapy vs Wait-list control

Figure 169: Symptom checklist-90 R: Global Severity Index at post-treatment

Study or Subgroup	Focused group therapy Mean	SD	Total	Wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Cole 2007	60.5	8.7	4	76.8	5.8	5	100.0%	-16.30 [-26.23, -6.37]	
Total (95% CI)			4			5	100.0%	-16.30 [-26.23, -6.37]	

Heterogeneity: Not applicable
Test for overall effect: Z = 3.22 (P = 0.001)

-100   -50   0   50   100
Favours focused gp therap   Favours wait-list control
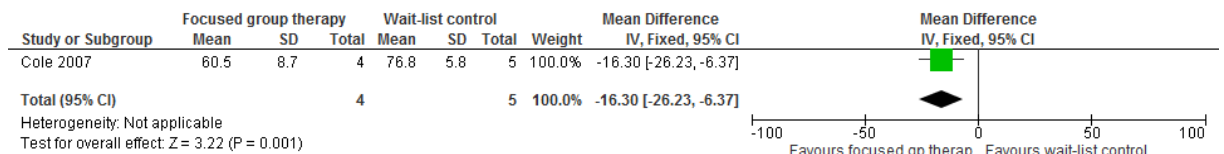
Figure 170: Symptom Checklist-90 R: Positive symptom distress index at post-treatment

Study or Subgroup	focused group therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Cole 2007	61.3	8.8	4	75.2	7.6	5	100.0%	-13.90 [-24.80, -3.00]	
Total (95% CI)			4			5	100.0%	-13.90 [-24.80, -3.00]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.50 (P = 0.01)

-100   -50   0   50   100
Favours focused gp therap   Favours wait-list control
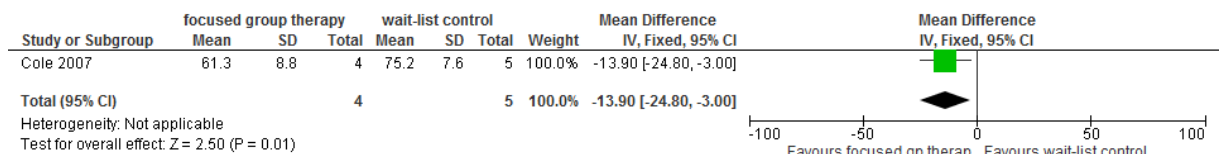
Figure 171: Symptom Checklist-90 R: Positive Symptom Total at post-treatment

Study or Subgroup	focused group therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Cole 2007	58.3	9.2	4	74.4	6.3	5	100.0%	-16.10 [-26.67, -5.53]	
Total (95% CI)			4			5	100.0%	-16.10 [-26.67, -5.53]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.98 (P = 0.003)

-100   -50   0   50   100
Favours focused gp therap   Favours wait-list control
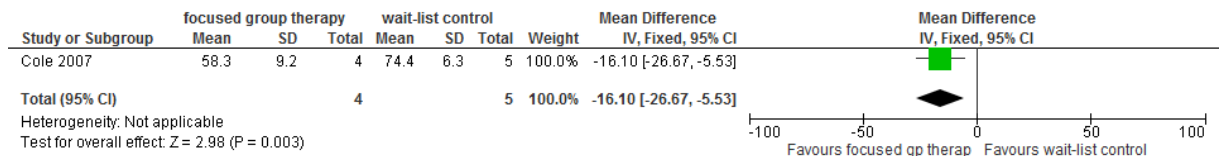
O.5.4.5 Group Therapy vs No contact control

Figure 172: IIP-32 scales at post-treatment

Study or Subgroup	Group therapy Mean	SD	Total	No contact control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Bradley 2003	33.3	17.6	13	43.4	23.1	18	100.0%	-10.10 [-24.43, 4.23]	
Total (95% CI)			13			18	100.0%	-10.10 [-24.43, 4.23]	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.38 (P = 0.17)

-100   -50   0   50   100
Favours group therapy   Favours no contact ctrl
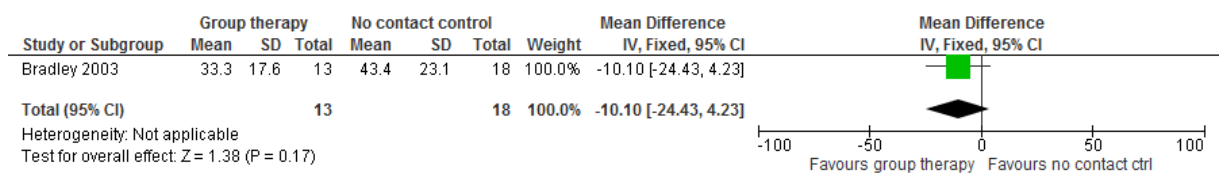
O.5.5   ADHD

O.5.5.1   MPH vs Placebo

Figure 173:   Conner Adult ADHD rating scale - Observer:Screening Version (CAARS-OSV) at post-treatment (52 weeks)
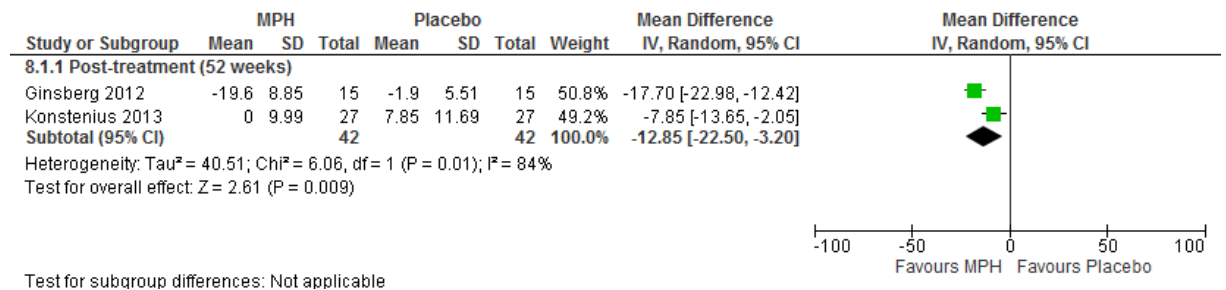
Figure 174:   Conner Adult ADHD rating scale - Observer:Screening version (CAARS-OSV) at 3-years follow-up
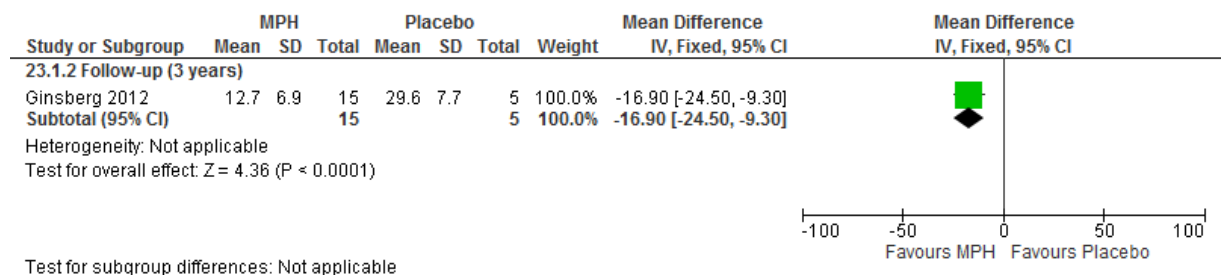
Figure 175:   Number of participants with drug negative urine at post-treatment
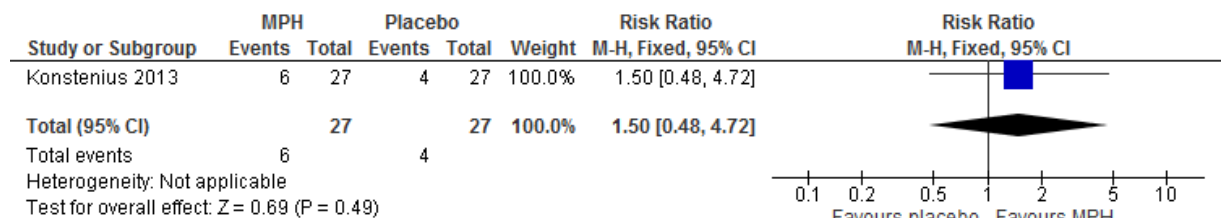
O.5.6   Antisocial personality disorders

O.5.6.1   Tiagabine vs Placebo

Figure 176:   Aggressive response at post-treatment
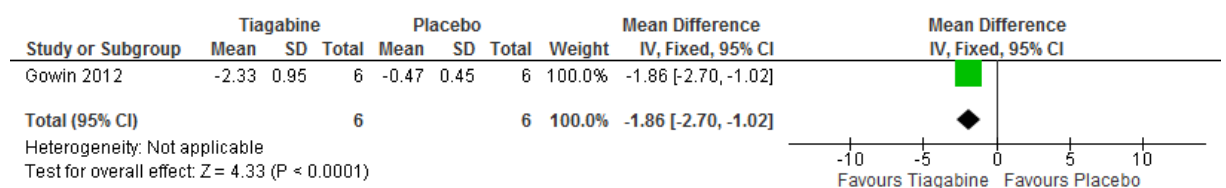
Figure 177: **Number of subjects with adverse effects at post-treatment**
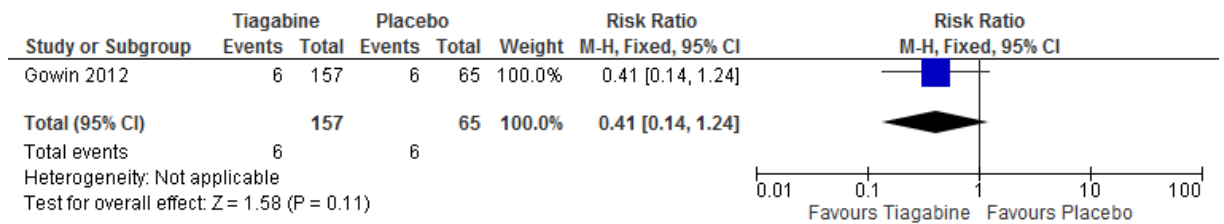
O.5.7 Severe Mental Illness

O.5.7.1 IM Paliperidone vs Oral Antipsychotics for schizophrenia

Figure 178: **First-time treatment failure at post-treatment**
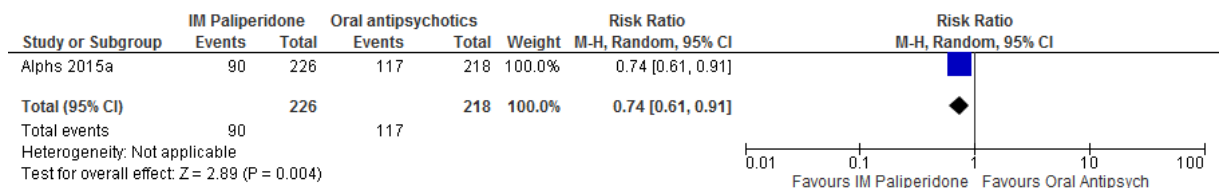
Figure 179: **Incidence of prolactin-related side-effects at post-treatment**
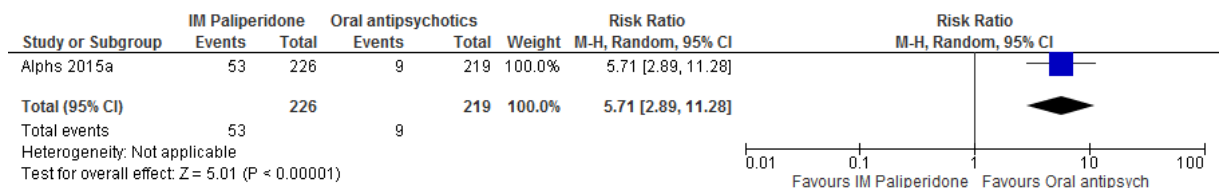
O.5.7.2 The Citizenship Project vs TAU

Figure 180: **Change in overall quality of life at post-treatment**
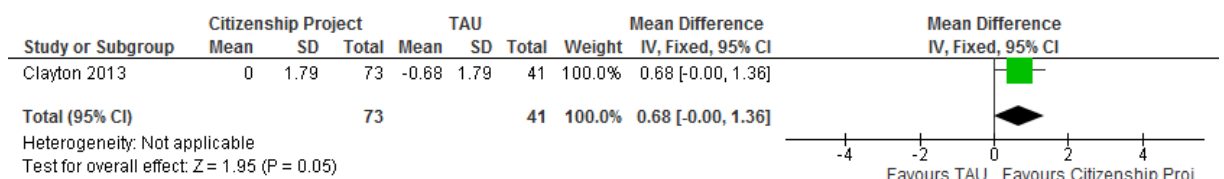
Figure 181: **Change in number of all convictions at post-treatment**

Figure 182: **Change in alcohol composite ratio at post-treatment**

Study or Subgroup	Citizenship Project			TAU			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Clayton 2013	0	0.732	73	0.29	0.732	41	100.0%	-0.29 [-0.57, -0.01]	
Total (95% CI)			**73**			**41**	**100.0%**	**-0.29 [-0.57, -0.01]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.03 (P = 0.04)									

Favours Citizenship proj   Favours TAU
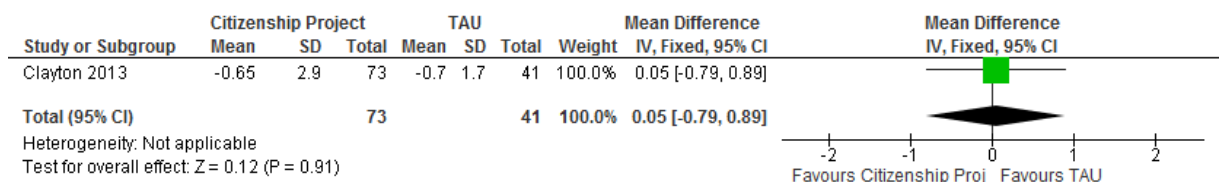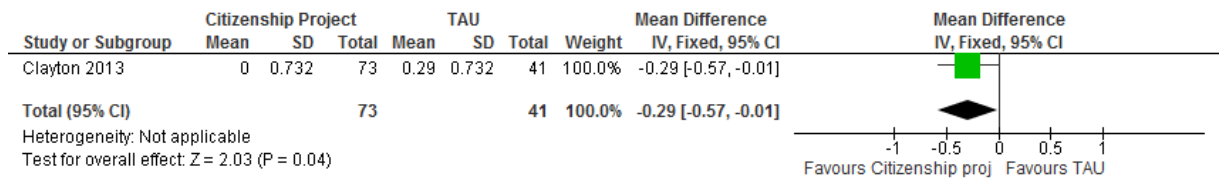
Figure 183: **Change in brief psychiatric rating scale: withdrawal symptoms at post-treatment**

Study or Subgroup	Citizenship Project			TAU			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Clayton 2013	0.28	0.7059	73	0	0.7059	41	100.0%	0.28 [0.01, 0.55]	
Total (95% CI)			**73**			**41**	**100.0%**	**0.28 [0.01, 0.55]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.03 (P = 0.04)									

Favours Citizenship Proj   Favours TAU
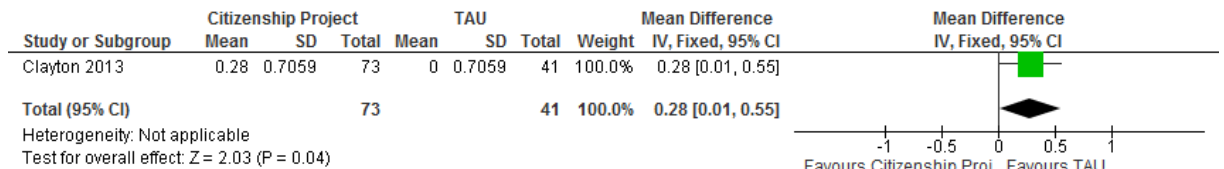
Figure 184: **Change in addiction severity index: drug index at post-treatment**

Study or Subgroup	Citizenship Project			TAU			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Clayton 2013	0	0.1046	73	0.04	0.1046	41	100.0%	-0.04 [-0.08, 0.00]	
Total (95% CI)			**73**			**41**	**100.0%**	**-0.04 [-0.08, 0.00]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.96 (P = 0.05)									

Favours Citizenship Proj   Favours TAU
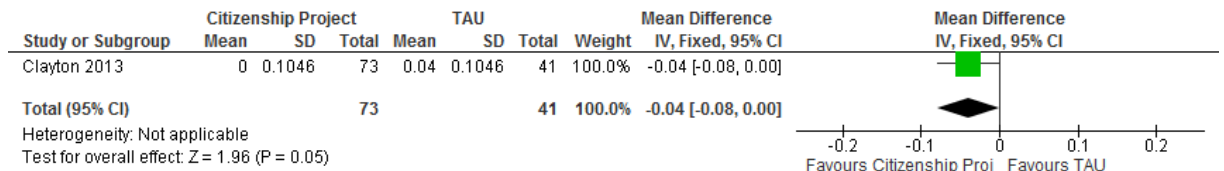
O.5.7.3 IPS vs Peer Support

Figure 185: **Competitive job placement**

Study or Subgroup	IPS		Peer support		Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
	Events	Total	Events	Total			
Bond 2015	13	42	3	43	100.0%	4.44 [1.36, 14.46]	
Total (95% CI)		**42**		**43**	**100.0%**	**4.44 [1.36, 14.46]**	
Total events	13		3				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.47 (P = 0.01)							

Favours peer support   Favours IPS
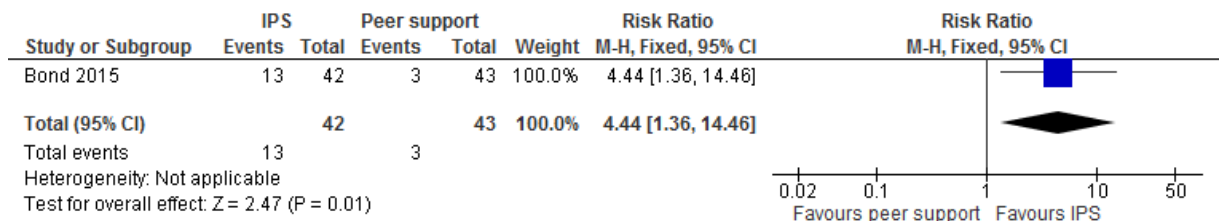
Figure 186: **Number of hospitalizations**

Study or Subgroup	IPS			Peer support			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Bond 2015	1.2	1.58	41	0.7	1.04	43	100.0%	0.50 [-0.07, 1.07]	
Total (95% CI)			**41**			**43**	**100.0%**	**0.50 [-0.07, 1.07]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.70 (P = 0.09)									

Favours IPS   Favours peer support
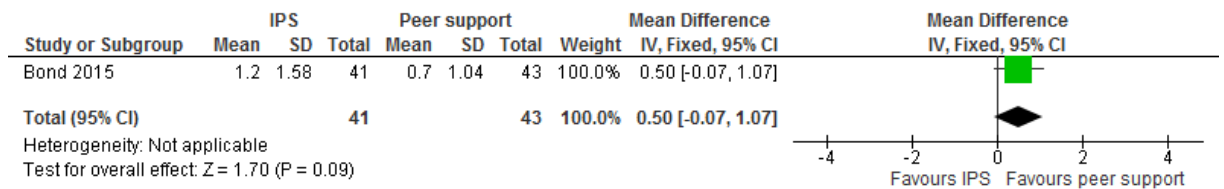
Figure 187: **Number of days being hospitalized**

Study or Subgroup	IPS			Peer support			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Bond 2015	10.44	23.07	41	4.93	7.59	43	100.0%	5.51 [-1.91, 12.93]	
Total (95% CI)			**41**			**43**	**100.0%**	**5.51 [-1.91, 12.93]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.46 (P = 0.15)									

Favours IPS   Favours peer support
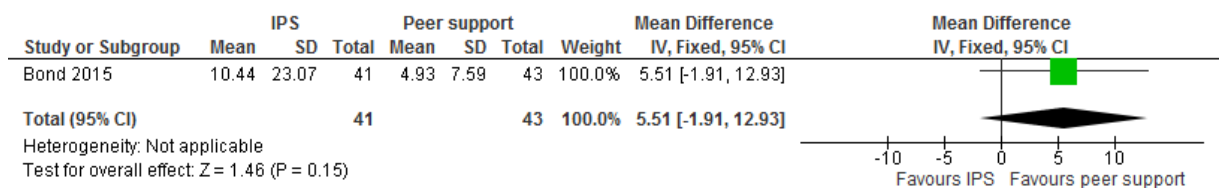
O.5.8 Uncategorized mental health disorders

O.5.8.1 Parenting from inside (PFI) vs TAU

Figure 188: **Parenting Stress Index at post-treatment**

Study or Subgroup	PFI Mean	PFI SD	PFI Total	TAU Mean	TAU SD	TAU Total	Weight	Mean Difference IV, Random, 95% CI
Loper 2011	2.18	0.62	60	2.14	0.64	76	100.0%	0.04 [-0.17, 0.25]
Total (95% CI)			60			76	100.0%	0.04 [-0.17, 0.25]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.37 (P = 0.71)

Figure 189: **Parenting alliance at post-treatment**

Study or Subgroup	PFI Mean	PFI SD	PFI Total	TAU Mean	TAU SD	TAU Total	Weight	Mean Difference IV, Fixed, 95% CI
Loper 2011	79.7	17.49	60	80.01	17.46	76	100.0%	-0.31 [-6.23, 5.61]
Total (95% CI)			60			76	100.0%	-0.31 [-6.23, 5.61]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.10 (P = 0.92)
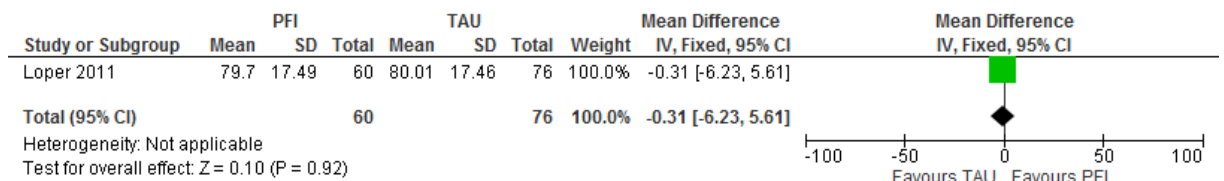
Figure 190: **Brief Symptom Inventory (BSI): Total at post-treatment**

Study or Subgroup	PFI Mean	PFI SD	PFI Total	TAU Mean	TAU SD	TAU Total	Weight	Mean Difference IV, Fixed, 95% CI
Loper 2011	0.95	1.03	60	0.75	0.82	76	100.0%	0.20 [-0.12, 0.52]
Total (95% CI)			60			76	100.0%	0.20 [-0.12, 0.52]

Heterogeneity: Not applicable
Test for overall effect: Z = 1.23 (P = 0.22)
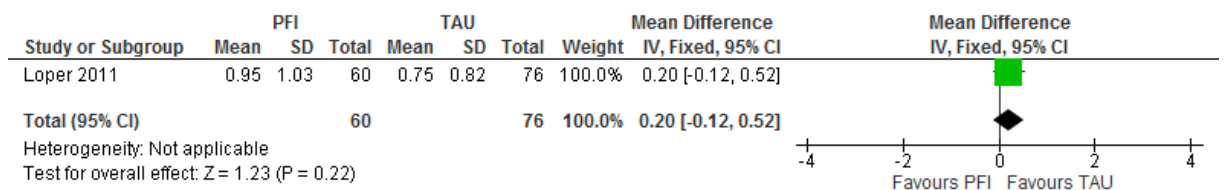
O.5.8.2 Music therapy vs Standard care for mental health disorders

Figure 191: **State and Trait Anxiety Inventory – State at post-treatment**

Study or Subgroup	Group Music Therapy Mean	SD	Total	Standard care Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Chen 2015	40.53	8.74	93	48.58	9.86	91	100.0%	-8.05 [-10.74, -5.36]
Total (95% CI)			93			91	100.0%	-8.05 [-10.74, -5.36]

Heterogeneity: Not applicable
Test for overall effect: Z = 5.86 (P < 0.00001)
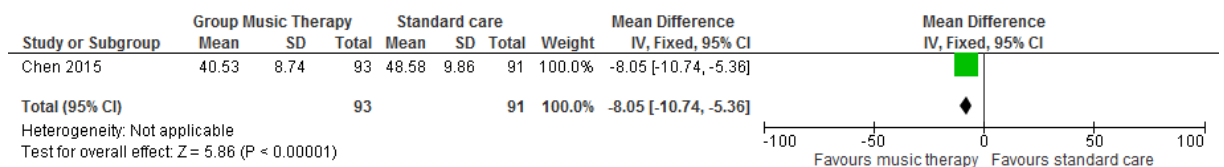
Figure 192: **State and Trait Anxiety Inventory – Trait at post-treatment**

Study or Subgroup	Group Music Therapy Mean	SD	Total	Standard care Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Chen 2015	40.58	8.47	93	49.09	8.17	91	100.0%	-8.51 [-10.91, -6.11]
Total (95% CI)			93			91	100.0%	-8.51 [-10.91, -6.11]

Heterogeneity: Not applicable
Test for overall effect: Z = 6.94 (P < 0.00001)
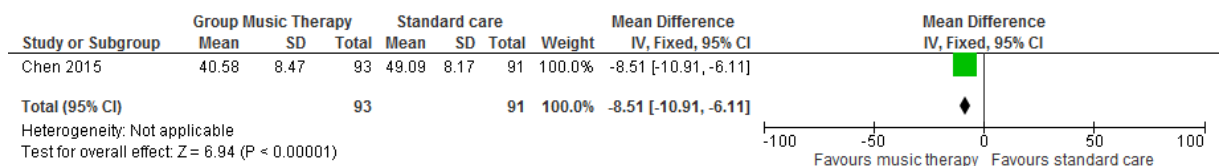
Figure 193: Brief Symptom inventory (BSI): Total at post-treatment

Study or Subgroup	Group Music Therapy Mean	SD	Total	Standard care Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Chen 2015	11.51	7.78	93	20.32	12.47	91	100.0%	-8.81 [-11.82, -5.80]
Total (95% CI)			**93**			**91**	**100.0%**	**-8.81 [-11.82, -5.80]**

Heterogeneity: Not applicable
Test for overall effect: Z = 5.74 (P < 0.00001)
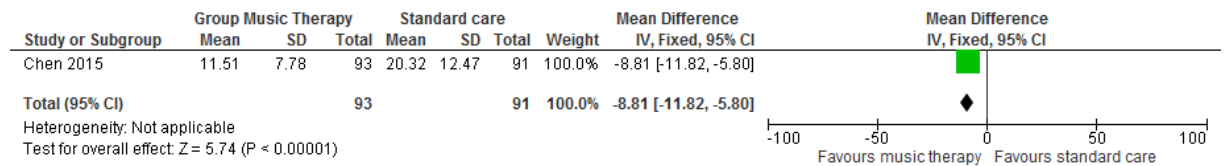
Figure 194: Rosenberg self-esteem inventory at post-treatment

Study or Subgroup	Group Music Therapy Mean	SD	Total	Standard care Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Chen 2015	29.27	4.25	93	27.01	4.6	91	100.0%	2.26 [0.98, 3.54]
Total (95% CI)			**93**			**91**	**100.0%**	**2.26 [0.98, 3.54]**

Heterogeneity: Not applicable
Test for overall effect: Z = 3.46 (P = 0.0005)
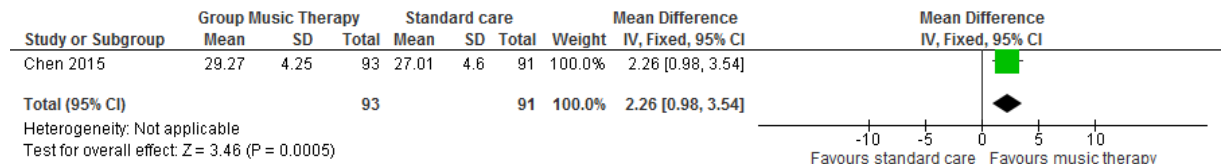
Figure 195: Texas social behaviour inventory at post-treatment

Study or Subgroup	Group Music Therapy Mean	SD	Total	Standard care Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Chen 2015	104.35	13.62	93	96.81	16	91	100.0%	7.54 [3.24, 11.84]
Total (95% CI)			**93**			**91**	**100.0%**	**7.54 [3.24, 11.84]**

Heterogeneity: Not applicable
Test for overall effect: Z = 3.44 (P = 0.0006)
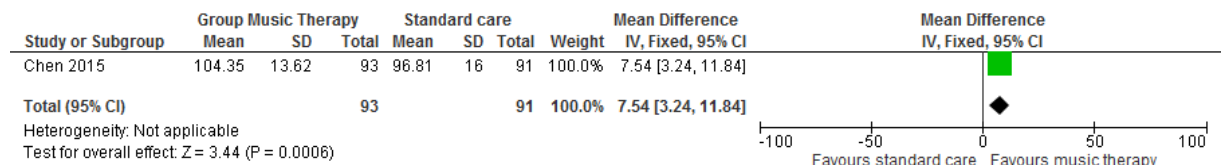
O.5.8.3 Music therapy vs Wait-list control for antisocial personality disorders

Figure 196: ASP-1: Change in self-management of psychiatric symptoms at post-treatment

Study or Subgroup	music therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Hakvoort 2013	0.44	0.34	8	0	0.47	5	100.0%	0.44 [-0.03, 0.91]
Total (95% CI)			**8**			**5**	**100.0%**	**0.44 [-0.03, 0.91]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.82 (P = 0.07)
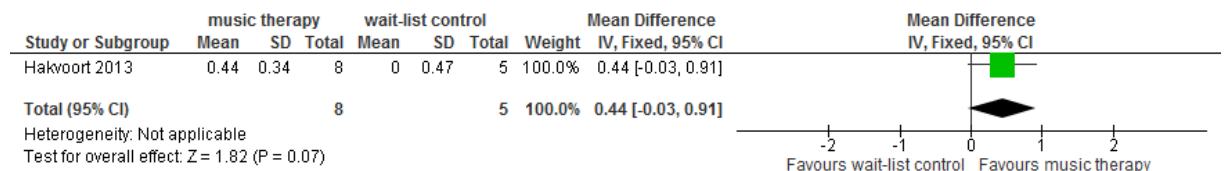
Figure 197: ASP-4: Change in self-management of assaultive symptoms at post-treatment

Study or Subgroup	music therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Hakvoort 2013	0.64	0.68	8	0.75	0.35	5	100.0%	-0.11 [-0.67, 0.45]
Total (95% CI)			**8**			**5**	**100.0%**	**-0.11 [-0.67, 0.45]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.38 (P = 0.70)
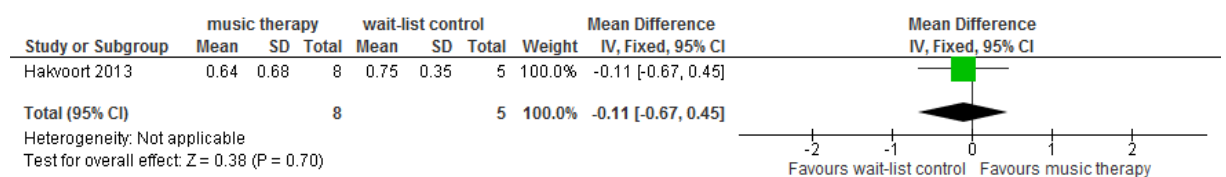
Figure 198: ASP-9: Change in interpersonal skills at post-treatment

Study or Subgroup	music therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Hakvoort 2013	-0.02	0.05	8	-0.04	0.08	5	100.0%	0.02 [-0.06, 0.10]
Total (95% CI)			**8**			**5**	**100.0%**	**0.02 [-0.06, 0.10]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.50 (P = 0.62)

Figure 199:   Change in social dysfunction and aggression scales at post-treatment

Study or Subgroup	music therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Hakvoort 2013	0	2.06	8	0.8	1.48	5	100.0%	-0.80 [-2.73, 1.13]
Total (95% CI)			**8**			**5**	**100.0%**	**-0.80 [-2.73, 1.13]**
Heterogeneity: Not applicable								
Test for overall effect: Z = 0.81 (P = 0.42)								

Mean Difference IV, Fixed, 95% CI

-10 -5 0 5 10
Favours music therapy   Favours wait-list control

Figure 200:   FP40: Change in positive coping skills at post-treatment

Study or Subgroup	music therapy Mean	SD	Total	wait-list control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Hakvoort 2013	0.45	0.4	8	0.02	0.15	5	100.0%	0.43 [0.12, 0.74]
Total (95% CI)			**8**			**5**	**100.0%**	**0.43 [0.12, 0.74]**
Heterogeneity: Not applicable								
Test for overall effect: Z = 2.75 (P = 0.006)								

Mean Difference IV, Fixed, 95% CI

-4 -2 0 2 4
Favours wait-list control   Favours music therapy
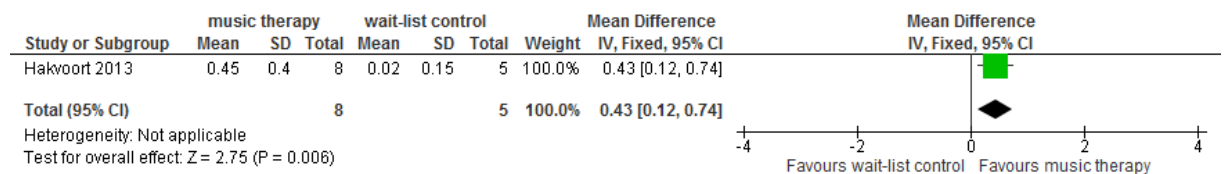
O.6   Interventions for paraphilic disorders

O.6.1   MPA + psych intervention vs psych intervention only at post-treatment

Figure 201:   Reduced anomalous desires

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Difference M-H, Random, 95% CI
McConaghy1988	5	10	6	10	100.0%	-0.10 [-0.53, 0.33]
Total (95% CI)		**10**		**10**	**100.0%**	**-0.10 [-0.53, 0.33]**
Total events	5		6			
Heterogeneity: Not applicable						
Test for overall effect: Z = 0.45 (P = 0.65)						

Risk Difference M-H, Random, 95% CI

-1 -0.5 0 0.5 1
Favours psych only   Favours drug + psych
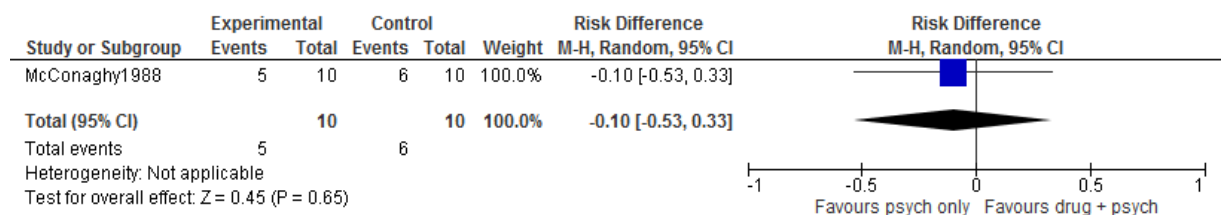
Figure 202:   Repetition/persistence of anomalous behaviour

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Langevin1979	1	15	6	17	59.4%	0.19 [0.03, 1.40]
McConaghy1988	1	10	0	10	40.6%	3.00 [0.14, 65.90]
Total (95% CI)		**25**		**27**	**100.0%**	**0.58 [0.04, 8.30]**
Total events	2		6			
Heterogeneity: Tau² = 2.06; Chi² = 2.17, df = 1 (P = 0.14); I² = 54%						
Test for overall effect: Z = 0.40 (P = 0.69)						

Risk Ratio M-H, Random, 95% CI

0.01 0.1 1 10 100
Favours drug + psych   Favours psych only

Figure 203:   Drop out

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Langevin1979	10	15	5	17	100.0%	2.27 [1.00, 5.14]
Total (95% CI)		**15**		**17**	**100.0%**	**2.27 [1.00, 5.14]**
Total events	10		5			
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.96 (P = 0.05)						

Risk Ratio M-H, Random, 95% CI

0.01 0.1 1 10 100
Favours drug + psych   Favours psych

O.6.2   MPA only vs psych intervention only at post-treatment

Figure 204:   Reduced anomalous desires

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
McConaghy1988	3	10	6	10	100.0%	0.50 [0.17, 1.46]
Total (95% CI)		10		10	100.0%	0.50 [0.17, 1.46]
Total events	3		6			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.27 (P = 0.21)
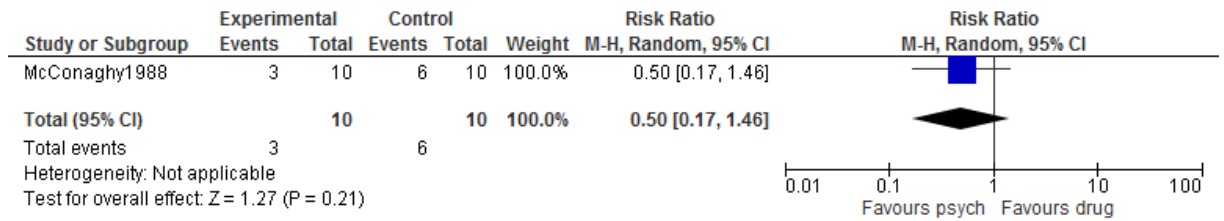
Figure 205:   Reduced anomalous behaviour

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
McConaghy1988	1	10	3	10	100.0%	0.33 [0.04, 2.69]
Total (95% CI)		10		10	100.0%	0.33 [0.04, 2.69]
Total events	1		3			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.03 (P = 0.30)

O.6.3   Psychoeducational interventions, principally CBT-informed psychoeducation (including SOTP) versus treatment as usual, no treatment or waitlist control for paraphilic disorders

Figure 206:   Cognitive distortions (ABCS: Children and Sex Questionnaire)

Study or Subgroup	Experimental Mean	SD	Total	Control Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
1.1.1 RCT								
Anderson-Varney 1991 (extracted from Dennis 2012)	121.1	14.04	30	134.53	12.05	30	44.8%	-13.43 [-20.05, -6.81]
Subtotal (95% CI)			30			30	44.8%	-13.43 [-20.05, -6.81]
Heterogeneity: Not applicable								
Test for overall effect: Z = 3.98 (P < 0.0001)								
1.1.2 Controlled non-randomised studies								
O'Reilly 2010	5.24	5.43	38	13.84	12.49	19	55.2%	-8.60 [-14.48, -2.72]
Subtotal (95% CI)			38			19	55.2%	-8.60 [-14.48, -2.72]
Heterogeneity: Not applicable								
Test for overall effect: Z = 2.87 (P = 0.004)								
Total (95% CI)			68			49	100.0%	-10.76 [-15.47, -6.06]

Heterogeneity: Tau² = 1.47; Chi² = 1.14, df = 1 (P = 0.28); I² = 13%
Test for overall effect: Z = 4.48 (P < 0.00001)
Test for subgroup differences: Chi² = 1.14, df = 1 (P = 0.28), I² = 12.6%

Figure 207:   Sexual obsessions (RCTs)

Study or subgroup	Treatment N	Mean(SD)	Control N	Mean(SD)	Mean Difference IV,Random,95% CI	Weight	Mean Difference IV,Random,95% CI
I Sexual inadequacies scale of the MSI							
Anderson-Varney 1991	30	48.33 (16.33)	30	54.53 (12.02)		100.0 %	-6.20 [-13.46, 1.06]
Subtotal (95% CI)	30		30			100.0 %	-6.20 [-13.46, 1.06]

Heterogeneity: not applicable
Test for overall effect: Z = 1.67 (P = 0.094)
Test for subgroup differences: Not applicable

Figure 208:   Reconviction (any): CJS database; controlled non-randomised studies; longest follow-up available 2-7 years
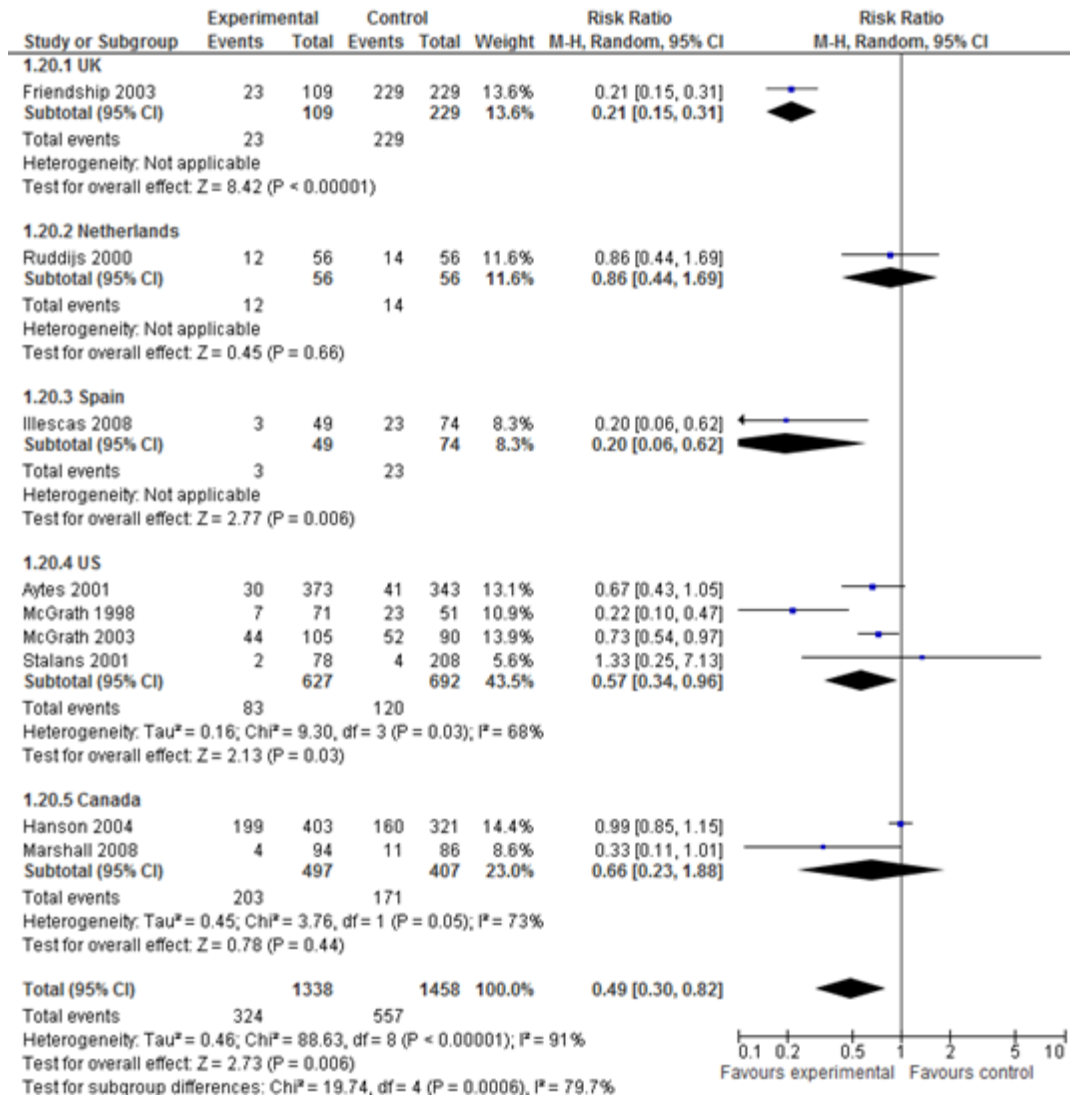
Figure 209:   Sexual reconviction: CJS database; controlled non-randomised studies; longest follow-up available [2-11 years]

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
1.23.1 UK						
Craissati 2009	12	95	17	145	11.9%	1.08 [0.54, 2.15]
Friendship 2003	17	647	54	1910	14.7%	0.93 [0.54, 1.59]
Procter 1996	3	44	4	44	4.6%	0.75 [0.18, 3.16]
Subtotal (95% CI)		786		2099	31.3%	0.96 [0.64, 1.44]
Total events	32		75			

Heterogeneity: Tau² = 0.00; Chi² = 0.23, df = 2 (P = 0.89); I² = 0%
Test for overall effect: Z = 0.19 (P = 0.85)

1.23.2 US						
McGrath 1998	1	71	7	51	2.5%	0.10 [0.01, 0.81]
McGrath 2003	18	105	27	90	15.0%	0.57 [0.34, 0.97]
Turner 2000	4	100	14	100	7.1%	0.29 [0.10, 0.84]
Subtotal (95% CI)		276		241	24.6%	0.37 [0.16, 0.83]
Total events	23		48			

Heterogeneity: Tau² = 0.24; Chi² = 3.61, df = 2 (P = 0.16); I² = 45%
Test for overall effect: Z = 2.41 (P = 0.02)

1.23.3 Netherlands						
Ruddijs 2000	3	56	1	56	2.2%	3.00 [0.32, 27.97]
Subtotal (95% CI)		56		56	2.2%	3.00 [0.32, 27.97]
Total events	3		1			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.96 (P = 0.33)

1.23.4 Spain						
Illescas 2008	2	49	13	74	4.6%	0.23 [0.05, 0.98]
Subtotal (95% CI)		49		74	4.6%	0.23 [0.05, 0.98]
Total events	2		13			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.98 (P = 0.05)

1.23.5 Canada						
Hanson 2004	61	403	46	321	18.4%	1.06 [0.74, 1.50]
Marshall 2008	1	94	4	86	2.3%	0.23 [0.03, 2.01]
Olver 2013	66	616	21	104	16.6%	0.53 [0.34, 0.83]
Subtotal (95% CI)		1113		511	37.3%	0.69 [0.36, 1.33]
Total events	128		71			

Heterogeneity: Tau² = 0.20; Chi² = 6.94, df = 2 (P = 0.03); I² = 71%
Test for overall effect: Z = 1.11 (P = 0.27)

Total (95% CI)		2280		2981	100.0%	0.66 [0.47, 0.93]
Total events	188		208			

Heterogeneity: Tau² = 0.14; Chi² = 20.46, df = 10 (P = 0.03); I² = 51%
Test for overall effect: Z = 2.36 (P = 0.02)
Test for subgroup differences: Chi² = 8.45, df = 4 (P = 0.08), I² = 52.7%

Favours experimental   Favours control

Figure 210:   Violent reconviction: CJS database; controlled non-randomised studies; longest follow-up available [3-11 years]

Figure 211:   Revocation, breaches of the Sex Offender Register or probation violation (CJS database; controlled non-randomised studies; longest follow-up available [2-5 years])
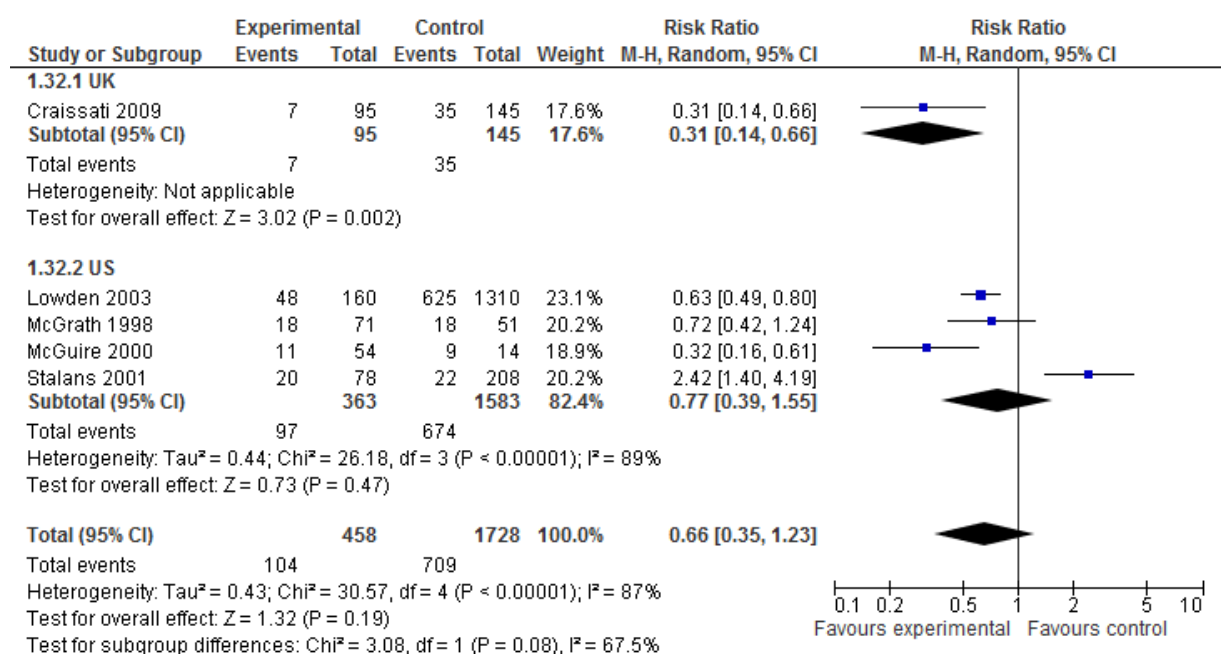
O.6.4   Reintegration programmes versus treatment as usual for paraphilic disorders

Figure 212:   Reconviction at 2- to 4-year follow-up (CJS database)
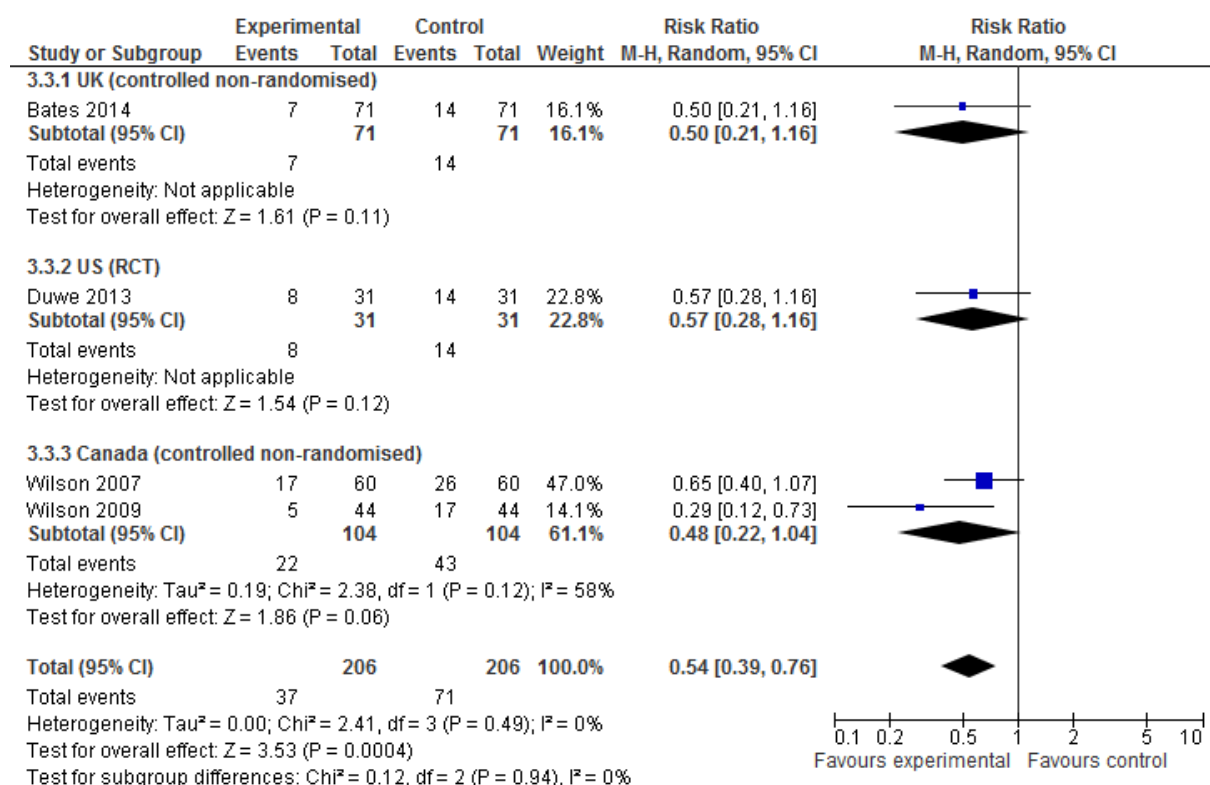
Figure 213:   Sex offence reconviction at 3- or 4-year follow-up (CJS database)
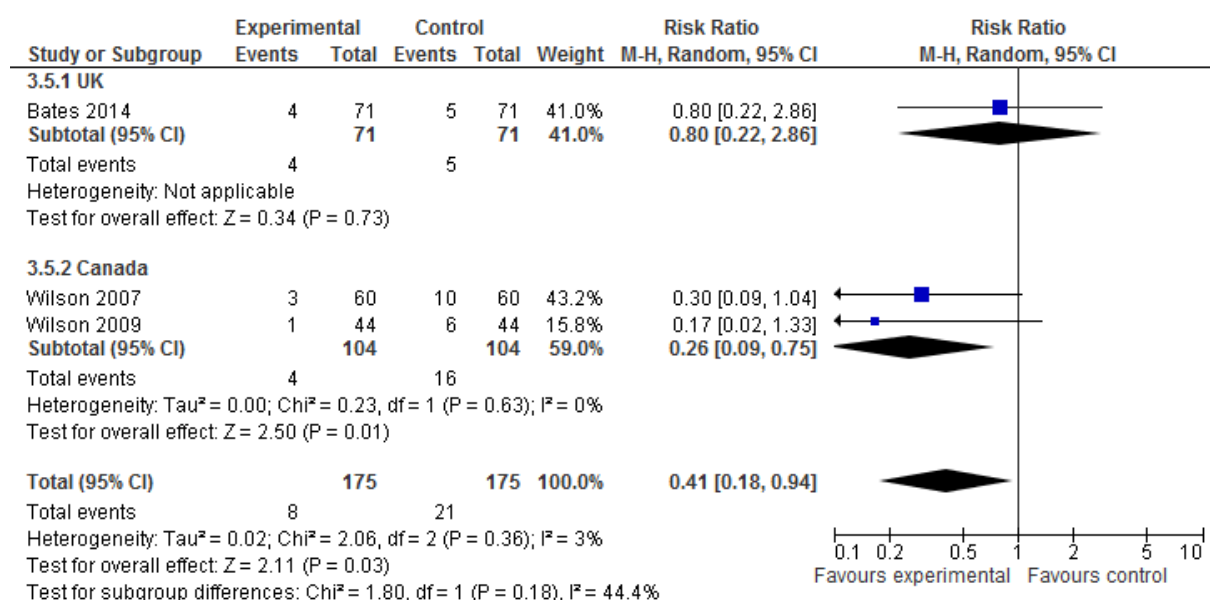
Figure 214: Violent reconviction at 3 to 4 years follow-up (CJS database)
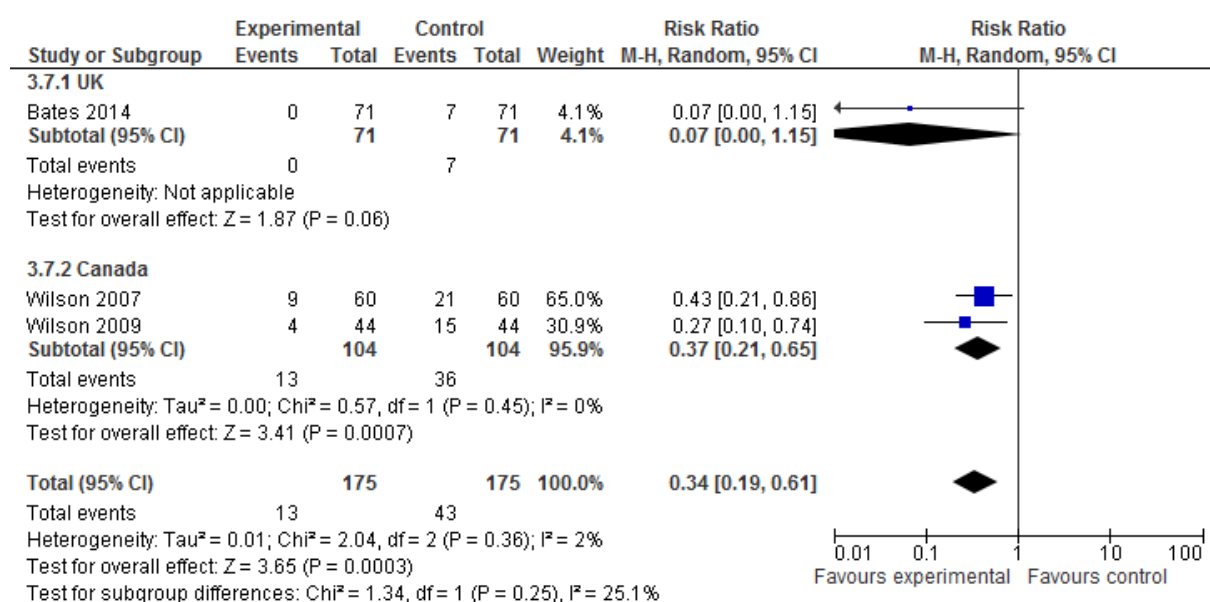
Figure 215: Reincarceration for a technical violation revocation or failure to comply with Sex Offender's Register (SOR) requirements at 2- or 4-year follow-up (CJS database)
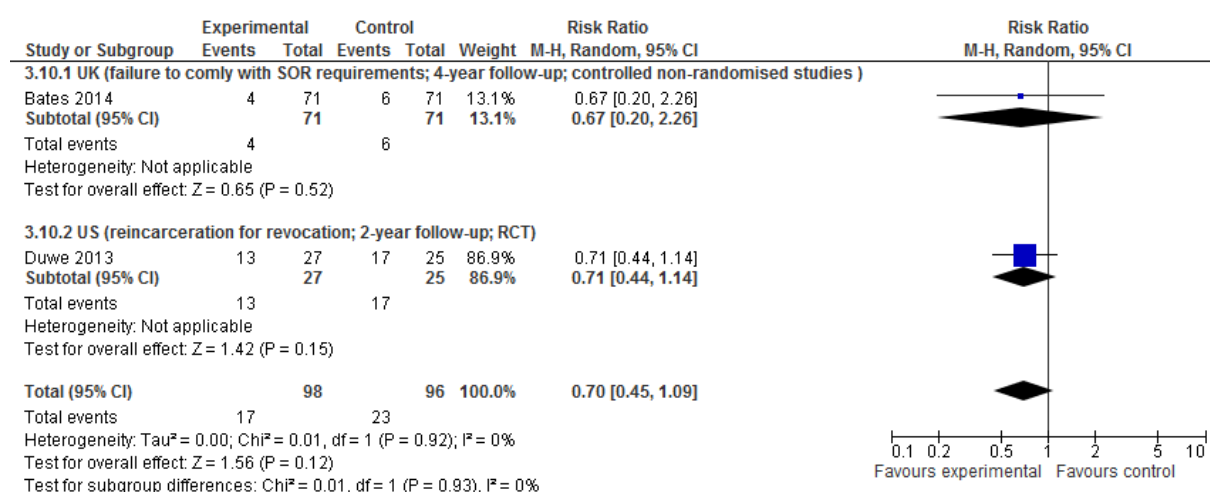
O.6.5   Imaginal desensitization plus MPA versus MPA for paraphilic disorders

Figure 216:   Anomalous desire

Figure 217:   Adverse events

O.6.6   Imaginal desensitization versus covert sensitization for paraphilic disorders

Figure 218:   Anomalous desire

Study or subgroup	Imaginal de'sensit'n n/N	Covert de'sensit'n n/N	Risk Ratio M-H,Fixed,95% CI	Weight	Risk Ratio M-H,Fixed,95% CI
1 Reduced at one month					
McConaghy 1985	4/10	7/10		100.0 %	0.57 [0.24, 1.35]
Subtotal (95% CI)	**10**	**10**		**100.0 %**	**0.57 [0.24, 1.35]**
Total events: 4 (Imaginal de'sensit'n), 7 (Covert de'sensit'n)					
Heterogeneity: not applicable					
Test for overall effect: Z = 1.27 (P = 0.20)					
2 Reduced at one year					
McConaghy 1985	3/10	5/10		100.0 %	0.60 [0.19, 1.86]
Subtotal (95% CI)	**10**	**10**		**100.0 %**	**0.60 [0.19, 1.86]**
Total events: 3 (Imaginal de'sensit'n), 5 (Covert de'sensit'n)					
Heterogeneity: not applicable					
Test for overall effect: Z = 0.88 (P = 0.38)					

0.01 0.1 1 10 100

Favours covert   Favours imaginal

Figure 219: Loss to follow up

Study or subgroup	Favours experimental n/N	Covert sensitization n/N	Risk Ratio M-H,Random,95% CI	Risk Ratio M-H,Random,95% CI
McConaghy 1985	1/10	3/10		0.33 [0.04, 2.69]
Subtotal (95% CI)	**0**	**0**		**0.0 [0.0, 0.0]**
Total events: 1 (Favours experimental), 3 (Covert sensitization)				
Heterogeneity: not applicable				
Test for overall effect: Z = 0.0 (P < 0.00001)				

0.01 0.1 1 10 100

Favours experimental   Favours control
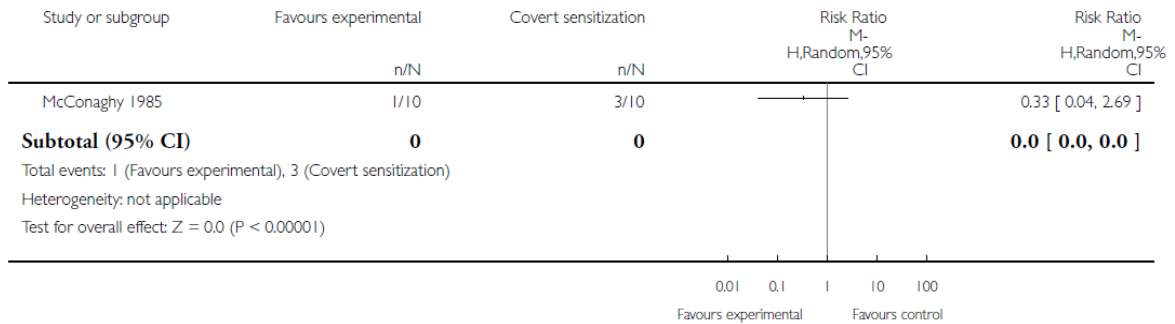
O.7   Service delivery models

O.7.1   Street Triage (Before versus After)

Figure 220:   Total s136 detentions per 100,000

Study or Subgroup	After ST scheme Events	Total	Before ST scheme Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Pilling 2016	89	100000	107	100000	100.0%	0.83 [0.63, 1.10]	
Total (95% CI)		**100000**		**100000**	**100.0%**	**0.83 [0.63, 1.10]**	
Total events	89		107				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.28 (P = 0.20)							

0.01 0.1 1 10 100

Favours ST scheme Favours no ST scheme
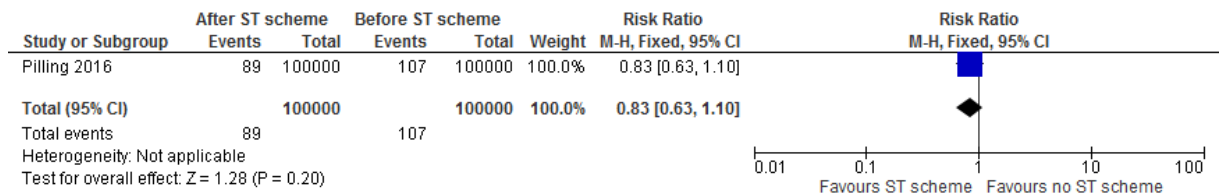
Figure 221:   Number of s136 detentions in custody

Study or Subgroup	After ST scheme Events	Total	Before ST scheme Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Hywel Dda 2015	57	198	100	227	1.0%	0.65 [0.50, 0.85]	
Pilling 2016	6028	24489	9000	25000	99.0%	0.68 [0.67, 0.70]	
Total (95% CI)		**24687**		**25227**	**100.0%**	**0.68 [0.67, 0.70]**	
Total events	6085		9100				
Heterogeneity: Chi² = 0.11, df = 1 (P = 0.74); I² = 0%							
Test for overall effect: Z = 27.32 (P < 0.00001)							

0.5 0.7 1 1.5 2

Favours ST scheme Favours no ST scheme

Figure 222: Number of s136 detentions in hospital

Study or Subgroup	After ST scheme Events	After ST scheme Total	Before ST scheme Events	Before ST scheme Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Hywel Dda 2015	141	198	127	227	0.7%	1.27 [1.10, 1.47]
Pilling 2016	18461	24489	16000	25000	99.2%	1.18 [1.16, 1.19]
Powys 2015	11	16	12	23	0.1%	1.32 [0.79, 2.20]
Total (95% CI)		24703		25250	100.0%	1.18 [1.16, 1.19]
Total events	18613		16139			

Heterogeneity: Chi² = 1.27, df = 2 (P = 0.53); I² = 0%
Test for overall effect: Z = 27.56 (P < 0.00001)

O.7.2 Diversion Services

O.7.2.1 Before and After Diversion Services

Figure 223: Duration between remand assessment (days)

Study or Subgroup	Year after diversion Mean	Year after diversion SD	Year after diversion Total	Year before diversion Mean	Year before diversion SD	Year before diversion Total	Weight	Mean Difference IV, Fixed, 95% CI
Weaver 1997	-66	102.2048	14	0	102.2048	32	1.6%	-66.00 [-130.19, -1.81]
Exworthy 1997	26.2	46.4	280	47.1	54	285	98.4%	-20.90 [-29.20, -12.60]
Total (95% CI)			294			317	100.0%	-21.64 [-29.87, -13.41]

Heterogeneity: Chi² = 1.87, df = 1 (P = 0.17); I² = 46%
Test for overall effect: Z = 5.15 (P < 0.00001)

Figure 224: Days of total time on remand

Study or Subgroup	Prospective Mean	Prospective SD	Prospective Total	Retrospective Mean	Retrospective SD	Retrospective Total	Weight	Mean Difference IV, Fixed, 95% CI
Exworthy 1997	49.5	62.4	280	67.1	71.3	285	100.0%	-17.60 [-28.64, -6.56]
Total (95% CI)			280			285	100.0%	-17.60 [-28.64, -6.56]

Heterogeneity: Not applicable
Test for overall effect: Z = 3.12 (P = 0.002)

O.7.2.2 Assessment versus No assessment at court

Figure 214: Proportions of prisoners on bail

Study or Subgroup	Assessment Events	Assessment Total	Control Events	Control Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Chambers 1999	31	122	20	98	100.0%	1.25 [0.76, 2.04]
Total (95% CI)		122		98	100.0%	1.25 [0.76, 2.04]
Total events	31		20			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.87 (P = 0.39)

Figure 215: Attendance at alcohol and drug treatment programmes

Study or Subgroup	Assessment Events	Assessment Total	Control Events	Control Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Chambers 1999	13	41	9	29	100.0%	1.02 [0.51, 2.07]
Total (95% CI)		41		29	100.0%	1.02 [0.51, 2.07]
Total events	13		9			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.06 (P = 0.95)

Figure 216:   OPD attendance rates for those release on bail

Study or Subgroup	Assessment Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Chambers 1999	11	23	7	13	100.0%	0.89 [0.46, 1.72]
Total (95% CI)		**23**		**13**	**100.0%**	**0.89 [0.46, 1.72]**
Total events	11		7			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.35 (P = 0.72)

Risk Ratio M-H, Fixed, 95% CI
0.01   0.1   1   10   100
Favours Assessment   Favours Control

Figure 217:   Registration of care programmes (CPA) and supervision registration (SR)

Study or Subgroup	Assessment Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Chambers 1999	10	122	4	98	100.0%	2.01 [0.65, 6.21]
Total (95% CI)		**122**		**98**	**100.0%**	**2.01 [0.65, 6.21]**
Total events	10		4			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.21 (P = 0.23)

Risk Ratio M-H, Fixed, 95% CI
0.01   0.1   1   10   100
Favours Assessment   Favours Control
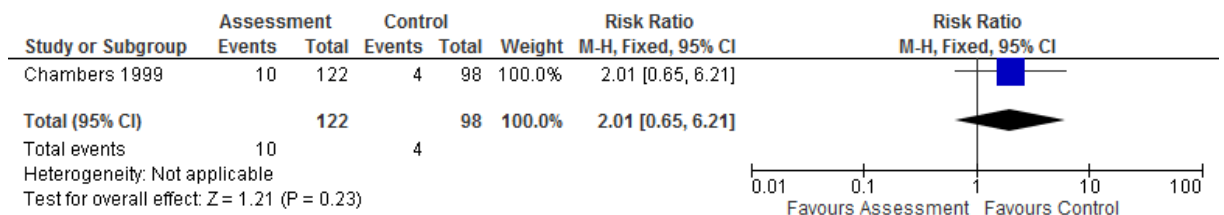
O.7.2.3   Court Diversion vs Community Diversion

Figure 225:   Rate of re-incarceration in two years after index discharge

Study or Subgroup	Court Diversion Events	Total	Community Diversion Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
James 2002	60	214	11	214	100.0%	5.45 [2.95, 10.08]
Total (95% CI)		**214**		**214**	**100.0%**	**5.45 [2.95, 10.08]**
Total events	60		11			

Heterogeneity: Not applicable
Test for overall effect: Z = 5.41 (P < 0.00001)

Risk Ratio M-H, Fixed, 95% CI
0.01   0.1   1   10   100
Favours court diversion   Favours community diversi

Figure 226:   100% attendance rate of appointments

Study or Subgroup	Court Diversion Events	Total	Community Diversion Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
James 2002	47	214	79	214	100.0%	0.59 [0.44, 0.81]
Total (95% CI)		**214**		**214**	**100.0%**	**0.59 [0.44, 0.81]**
Total events	47		79			

Heterogeneity: Not applicable
Test for overall effect: Z = 3.31 (P = 0.0009)

Risk Ratio M-H, Fixed, 95% CI
0.01   0.1   1   10   100
Favours court   Favours community

Figure 227:   Number of days in hospital

Study or Subgroup	Court Diversion Mean	SD	Total	Community Diversion Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
James 2002	112	193	214	129	296.9	214	100.0%	-17.00 [-64.44, 30.44]
Total (95% CI)			**214**			**214**	**100.0%**	**-17.00 [-64.44, 30.44]**

Heterogeneity: Not applicable
Test for overall effect: Z = 0.70 (P = 0.48)

Mean Difference IV, Fixed, 95% CI
-100   -50   0   50   100
Favours court   Favours community

Figure 228:   Number of diverted participants with no mental health disorders

Study or Subgroup	Court Diversion Events	Total	Community Diversion Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
James 2002	6	214	0	214	100.0%	13.00 [0.74, 229.33]	
Total (95% CI)		214		214	100.0%	13.00 [0.74, 229.33]	
Total events	6		0				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.75 (P = 0.08)							

Scale: 0.002 0.1 1 10 500
Favours court   Favours community
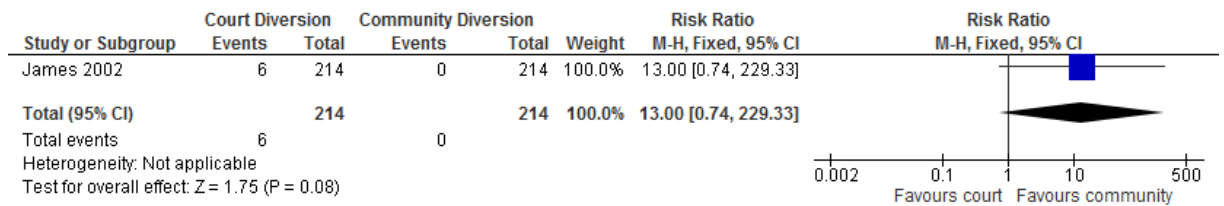
O.7.3   Patient Navigation Intervention versus facilitated enrolment (at 26-weeks follow-up)

Figure 229:   Number of participants who used drugs

Study or Subgroup	Motivational feedback Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Biswanger 2015	1	8	2	10	100.0%	0.63 [0.07, 5.72]	
Total (95% CI)		8		10	100.0%	0.63 [0.07, 5.72]	
Total events	1		2				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.42 (P = 0.68)							

Scale: 0.01 0.1 1 10 100
Favours feedback   Favours control
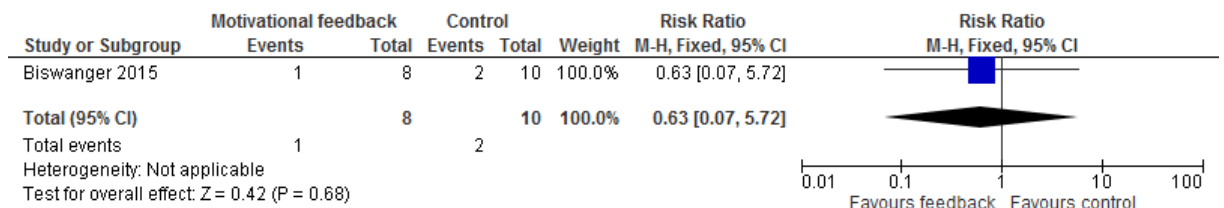
Figure 230:   Number of participants who used alcohol to intoxication

Study or Subgroup	Motivational feedback Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Biswanger 2015	1	8	3	10	100.0%	0.42 [0.05, 3.28]	
Total (95% CI)		8		10	100.0%	0.42 [0.05, 3.28]	
Total events	1		3				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.83 (P = 0.41)							

Scale: 0.01 0.1 1 10 100
Favours feedback   Favours control
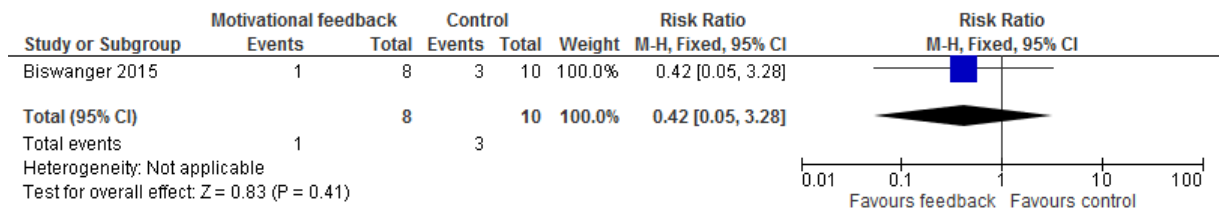
Figure 231:   Average days when mental health was not good in the last 30 days

Study or Subgroup	Motivational feedback Mean	SD	Total	Control Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
Biswanger 2015	7.5	8.5	8	8.6	10.2	10	100.0%	-1.10 [-9.74, 7.54]	
Total (95% CI)			8			10	100.0%	-1.10 [-9.74, 7.54]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.25 (P = 0.80)									

Scale: -100 -50 0 50 100
Favours feedback   Favours control
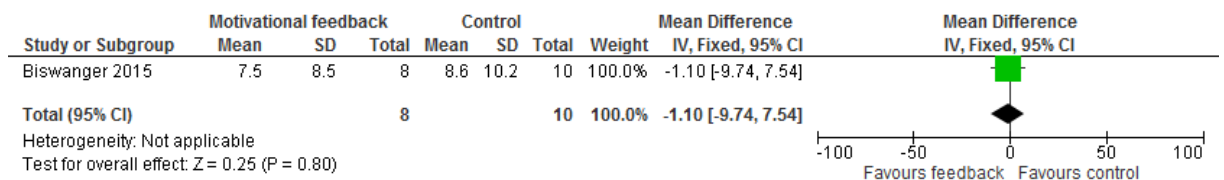
O.7.4   Neighbourhood outreach (Before versus After)

Figure 232:   Proportion of crime contacts with policing team escalated to court

Study or Subgroup	After 6 months Events	Total	Prior 6 months Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Earl 2015	65	198	149	308	100.0%	0.68 [0.54, 0.85]	
Total (95% CI)		198		308	100.0%	0.68 [0.54, 0.85]	
Total events	65		149				
Heterogeneity: Not applicable							
Test for overall effect: Z = 3.30 (P = 0.0010)							

Scale: 0.2 0.5 1 2 5
Favours outreach service   Favours TAU
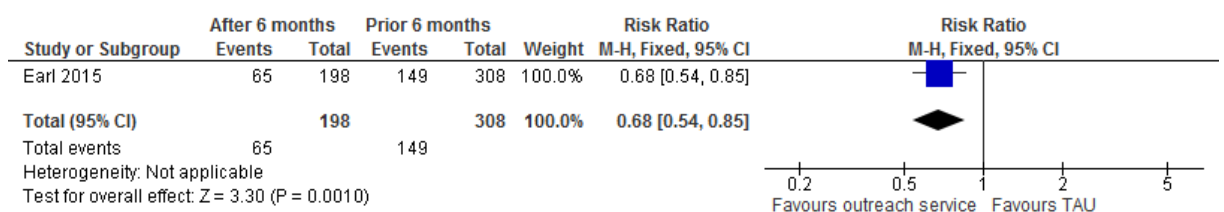
O.7.5 Drug Rehabilitation Program versus TAU

Figure 233: MAP total scores
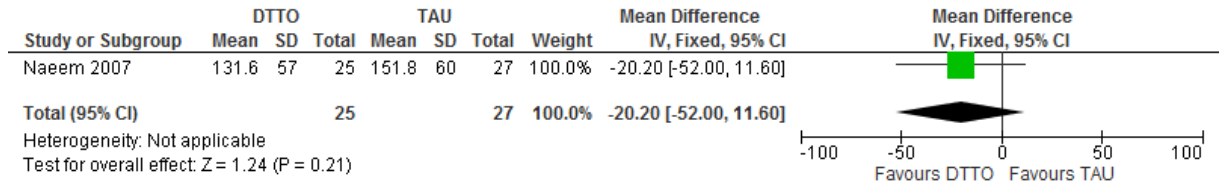
Figure 234: HoNOS total scores
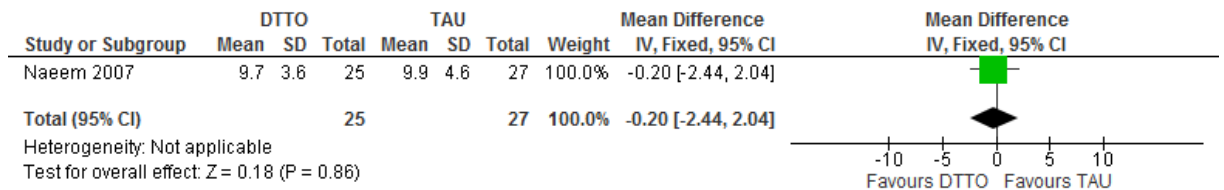
Figure 235: Overall satisfaction
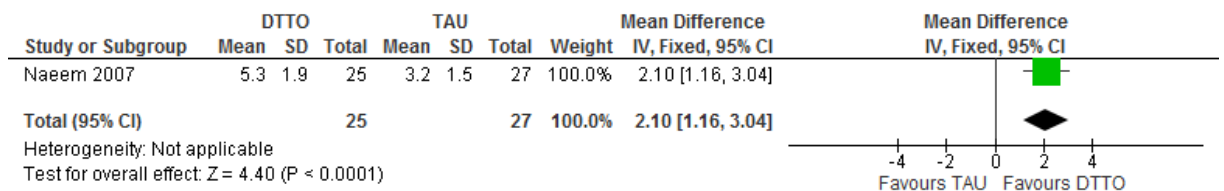
O.7.6 Case management

O.7.6.1 Case management vs TAU for substance misuse disorders

Figure 236: Re-arrest at post-treatment and 3-months follow-up
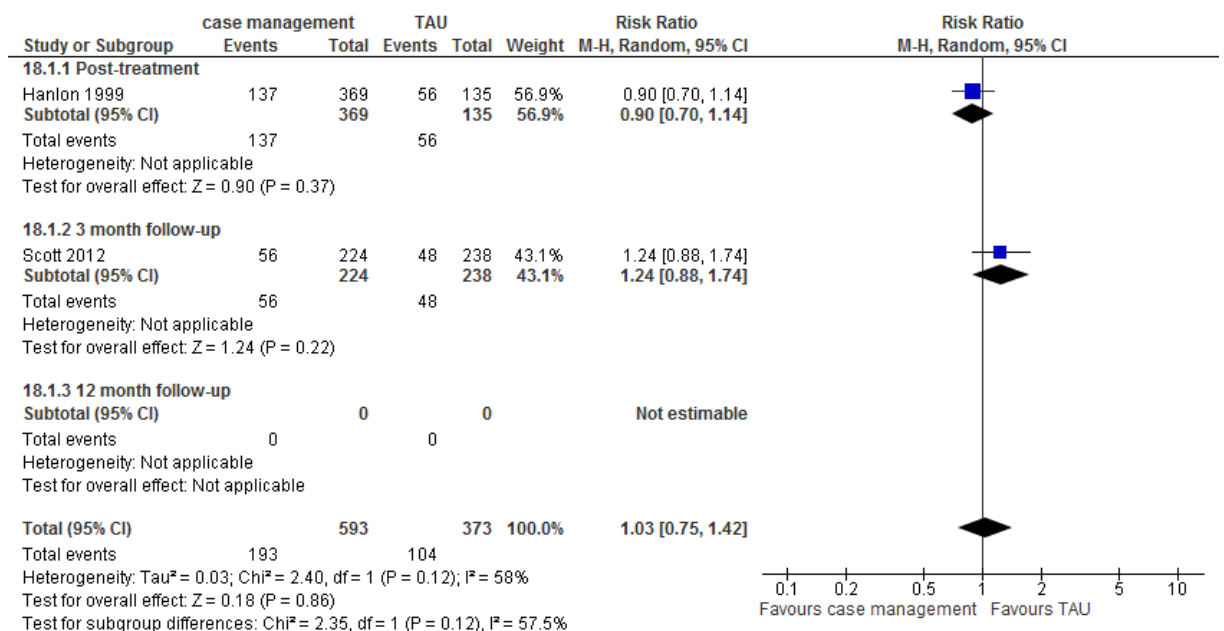
Figure 237: Reconviction at post-treatment

Study or Subgroup	case management Events	Total	TAU Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Hanlon 1999	58	369	28	135	100.0%	0.76 [0.51, 1.14]	
Total (95% CI)		369		135	100.0%	0.76 [0.51, 1.14]	
Total events	58		28				

Heterogeneity: Not applicable
Test for overall effect: Z = 1.34 (P = 0.18)

0.01   0.1   1   10   100
Favours case management   Favours TAU

Figure 238:   Re-incarceration

i)   At post-treatment and 3-months follow-up
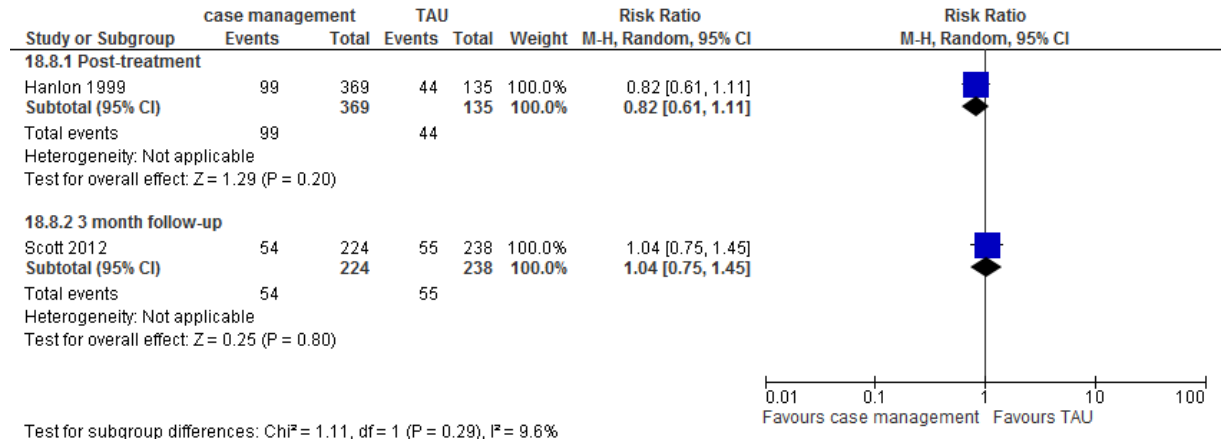
ii)   At 12-months follow-up
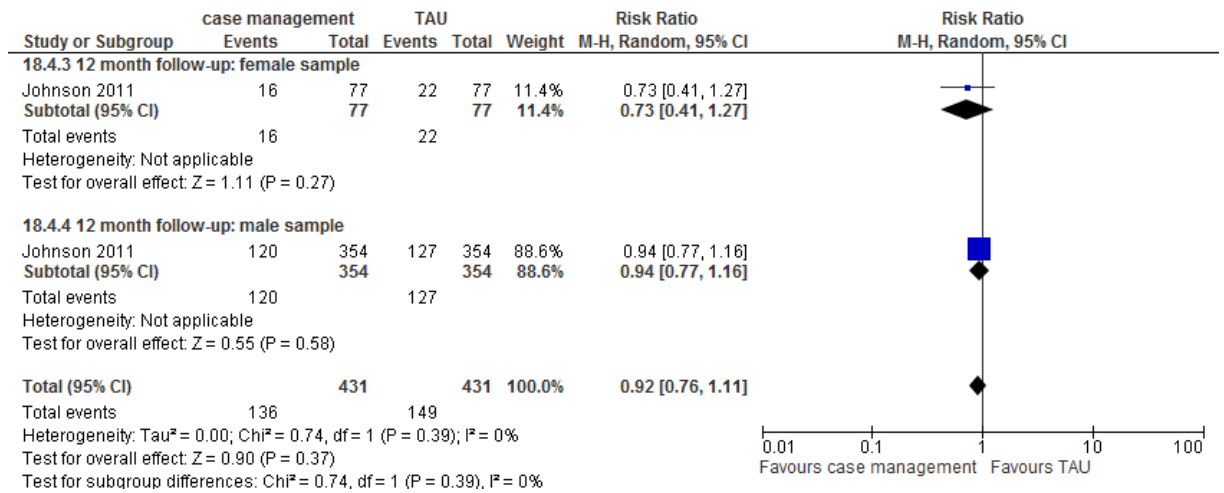
Figure 239:   Number of days jailed in past 6 months (12-months follow-up)
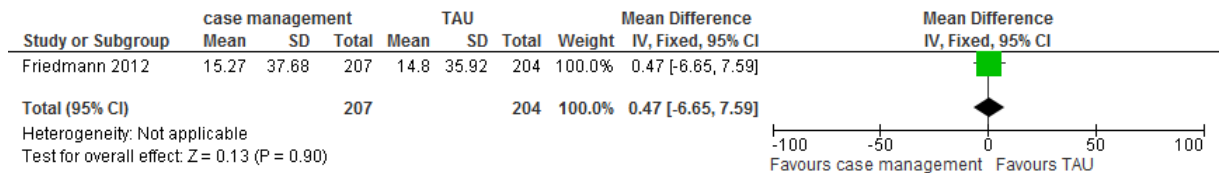
Figure 240:   Drug related crimes in past 6 months (12-months follow-up)
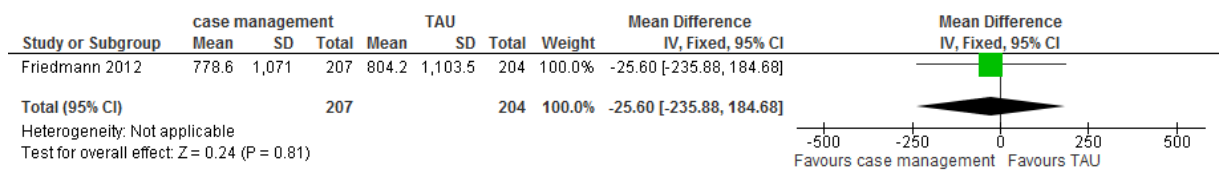
Figure 241:   Drug related crime activity during treatment (12-months follow-up)
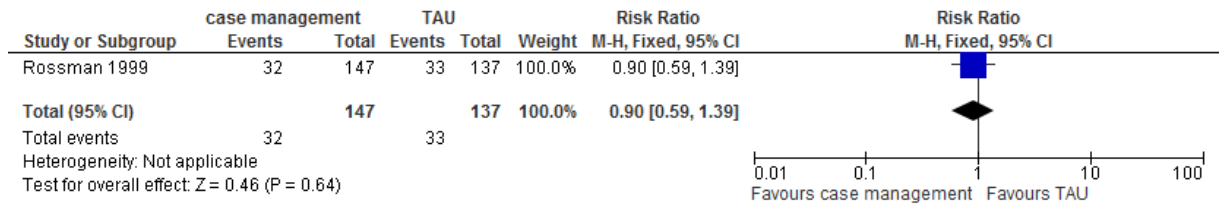
Figure 242:   Self-reported alcohol use

i)   During treatment and post-treatment
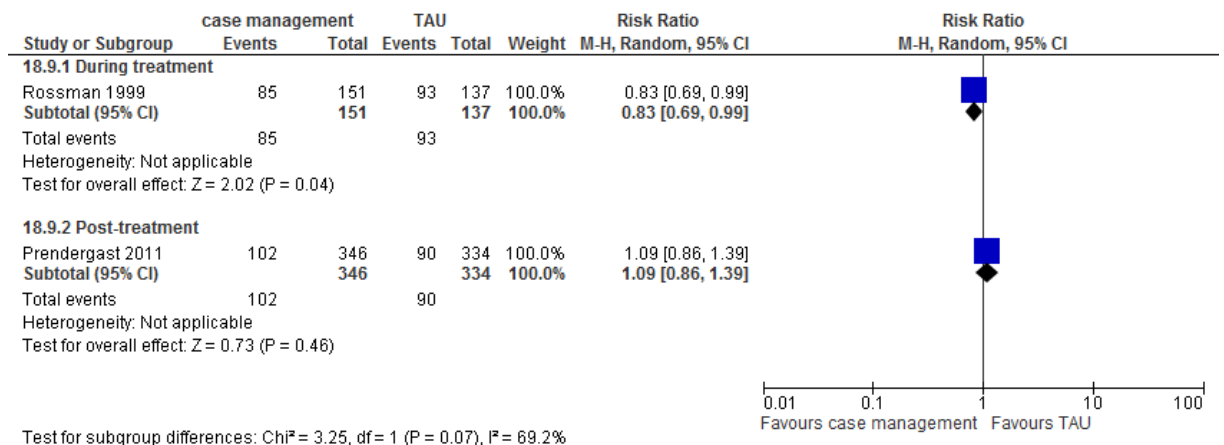
ii)   12-months follow-up
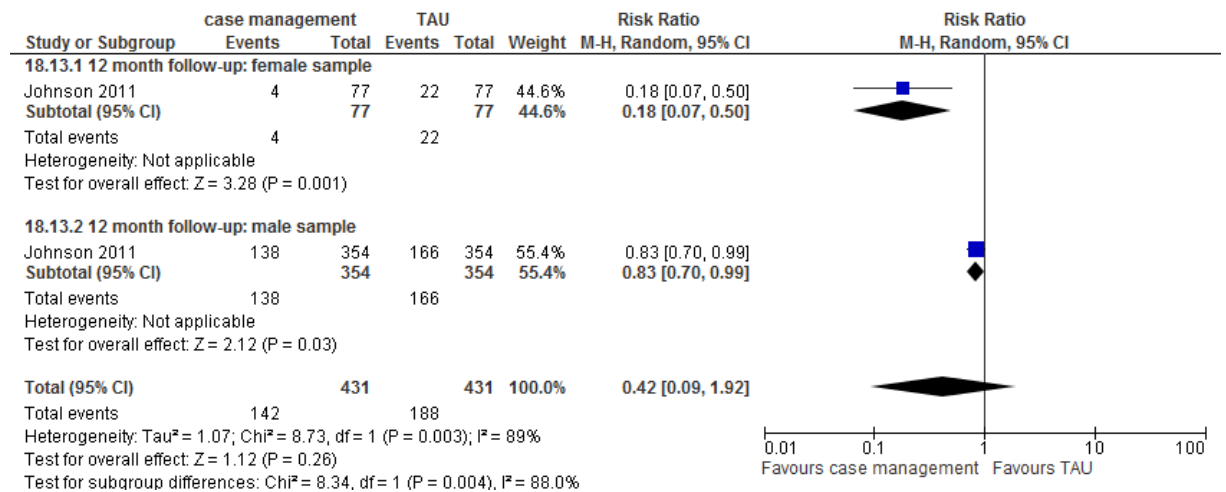
Figure 243: **Self-reported drug use**

i) During treatment (marijuana or hard drugs) or post-treatment

Test for subgroup differences: Chi² = 1.72, df = 2 (P = 0.42), I² = 0%
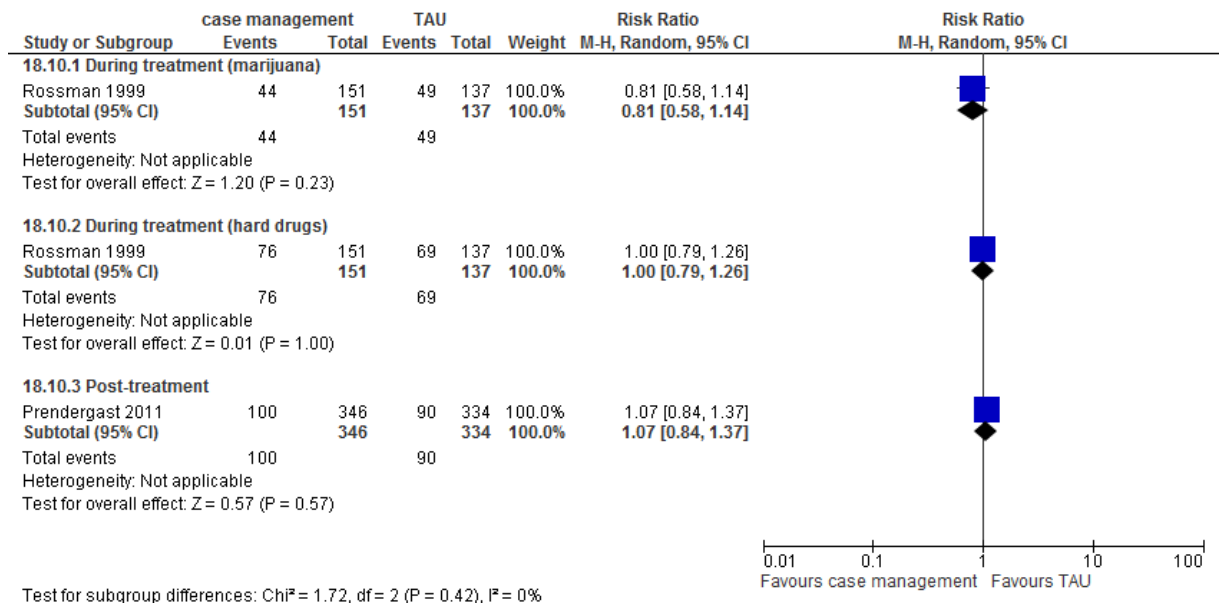
ii) 12-months follow-up
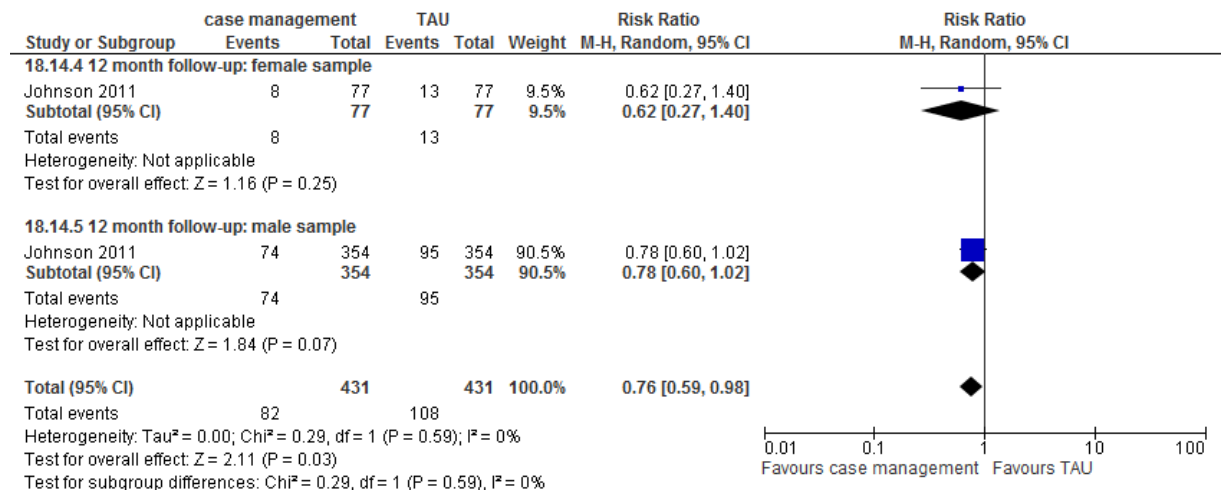
Figure 244: **Injection drug use (post-treatment)**
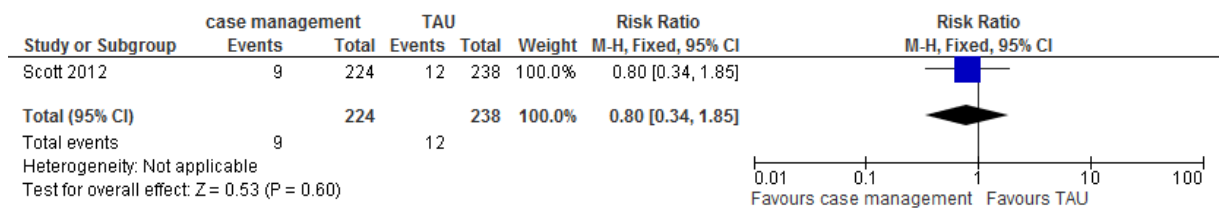
Figure 245: **Abstinence**
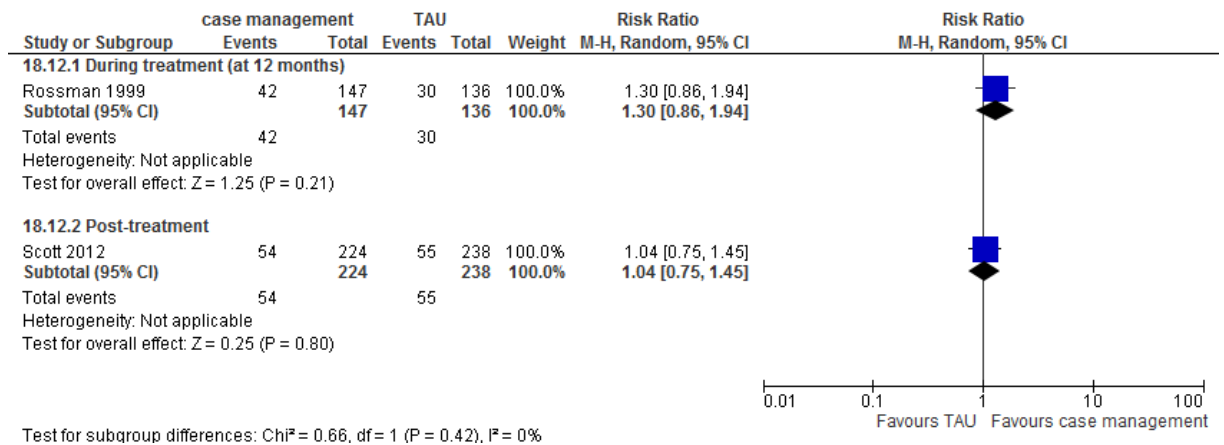
O.7.6.2   **Case management vs active intervention for substance misuse disorders**

Figure 246: **Remained in treatment for 6 months**
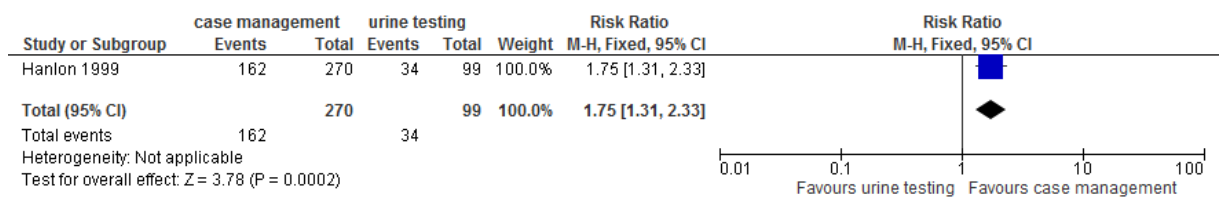
Figure 247: **Re-arrest at post-treatment and 3-months follow-up**
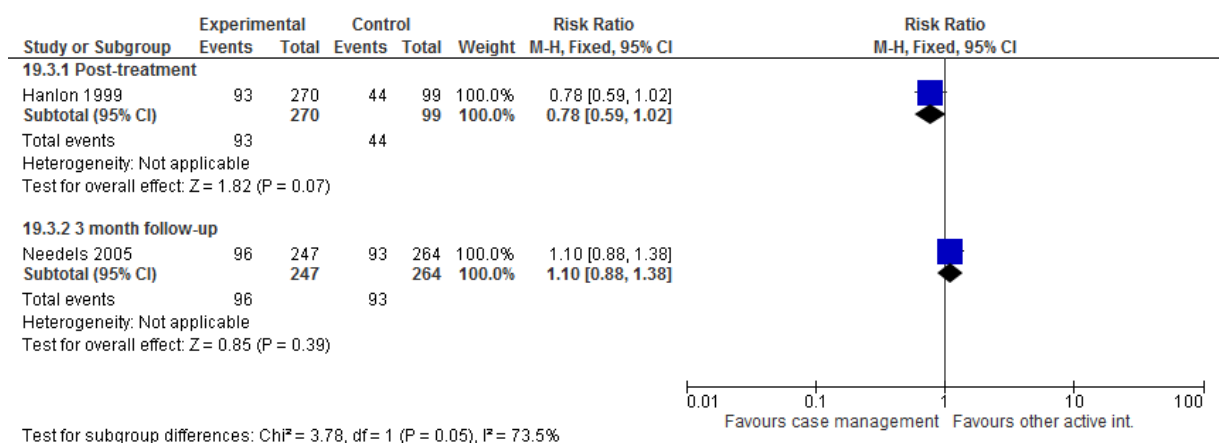
Figure 248: **Rearrest for drug crime (3 months follow-up)**

Figure 249:   Reconviction at post-treatment and 3-months follow-up
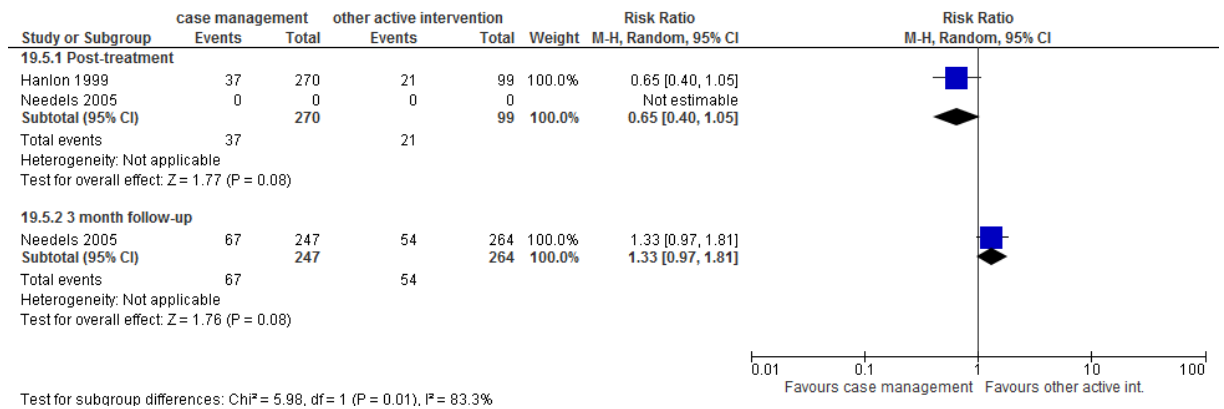
Figure 250:   Re-incarceration at post-treatment and 3-months follow-up
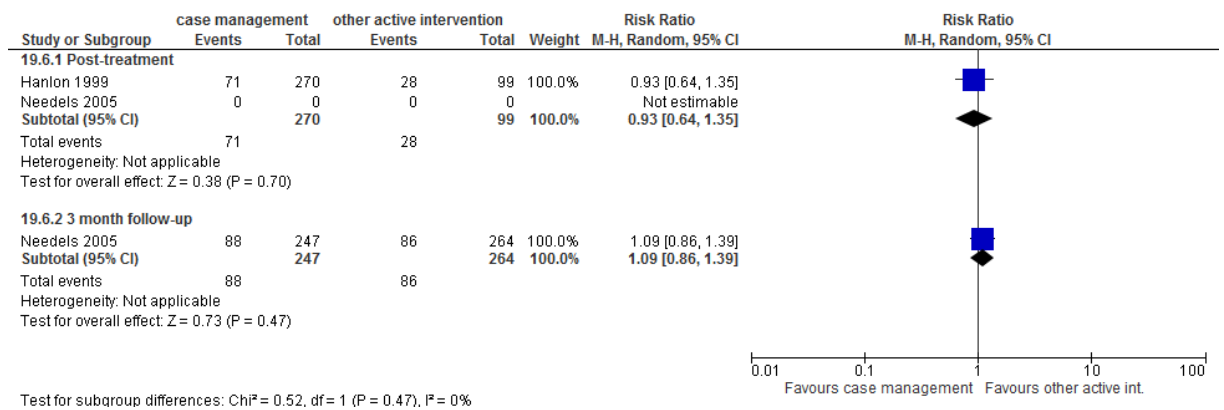
Figure 251:   Any self-reported drug use (3-months follow-up)
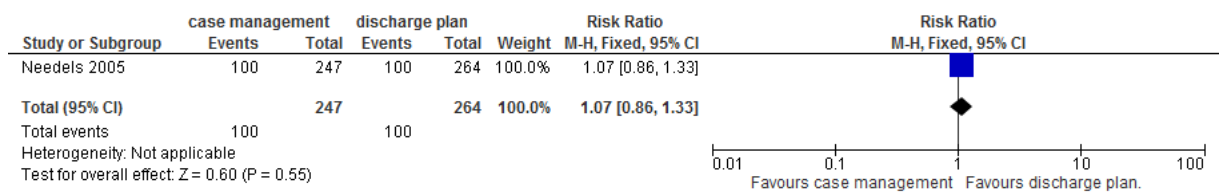
Figure 252:   Positive hair test (3-months follow-up)
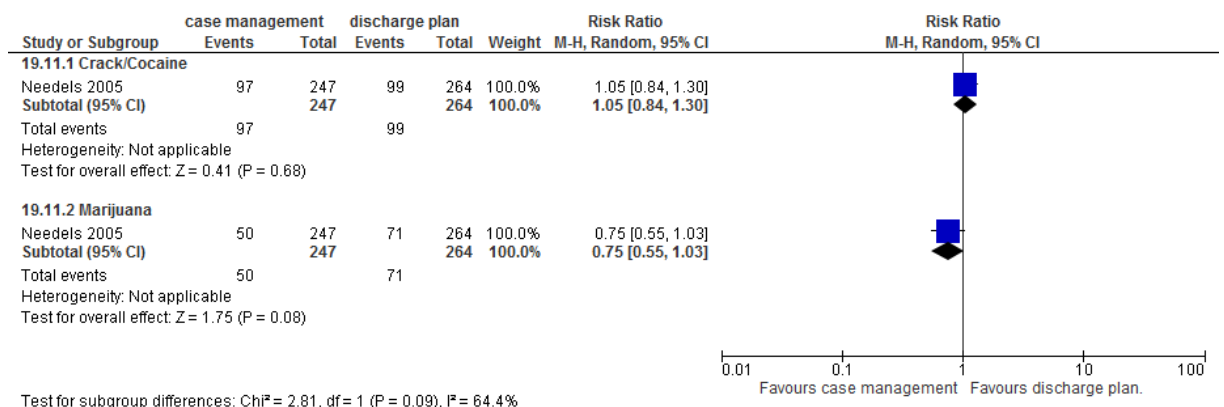
O.7.6.3   Assertive Community Treatment vs TAU for substance misuse disorders

Figure 253:   Urine test positive for drug use during treatment
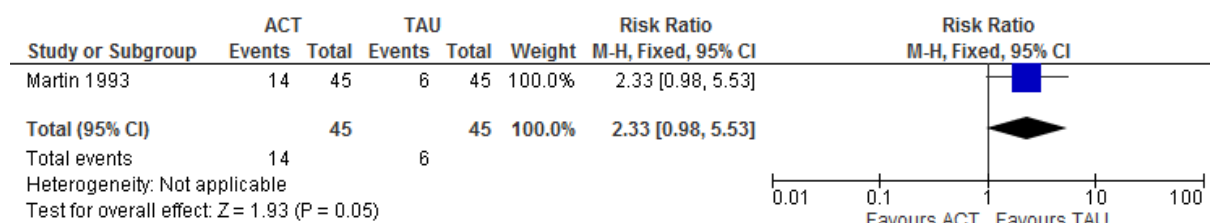
Figure 254:   Self-reported injection drug use during treatment
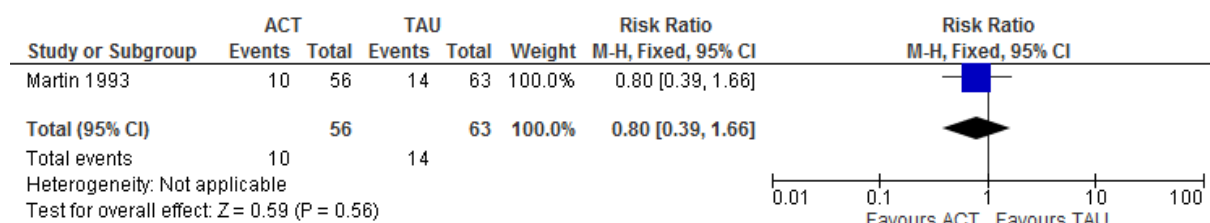
Figure 255:   Self-reported drug use during treatment
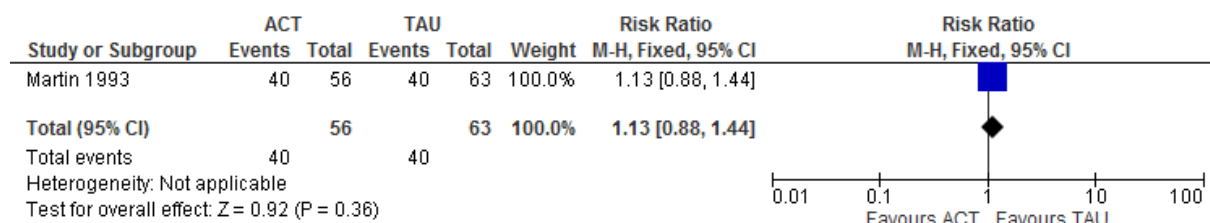
Figure 256:   Re-incarceration during treatment
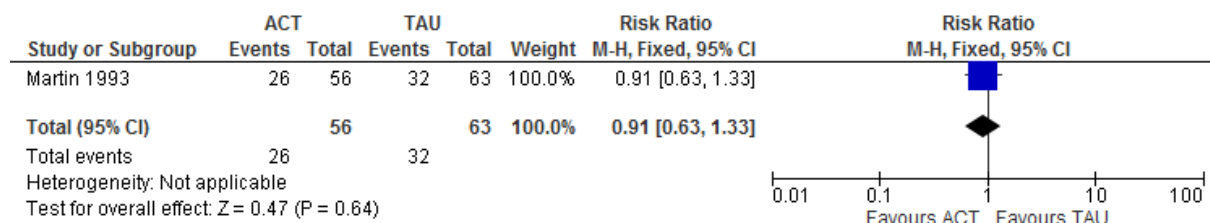
O.7.6.4 Case management vs TAU for mental health disorders other than substance misuse

Figure 257: Service utilization at post-treatment
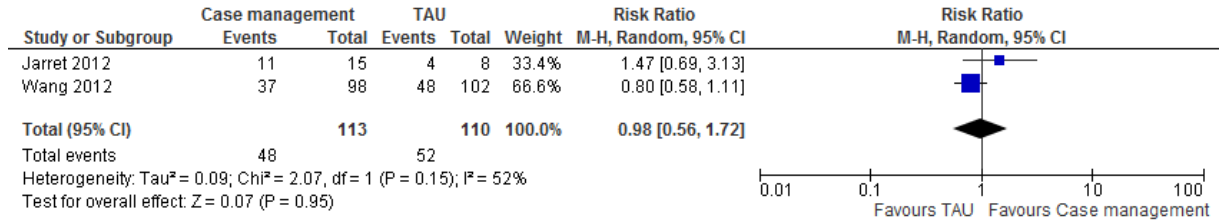
Figure 258: Rate of re-offending at post-treatment
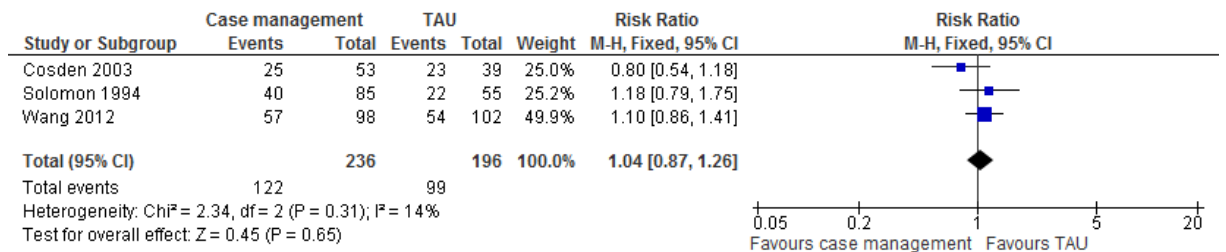
Figure 259: Number of days in jail (up to 24-months follow-up)
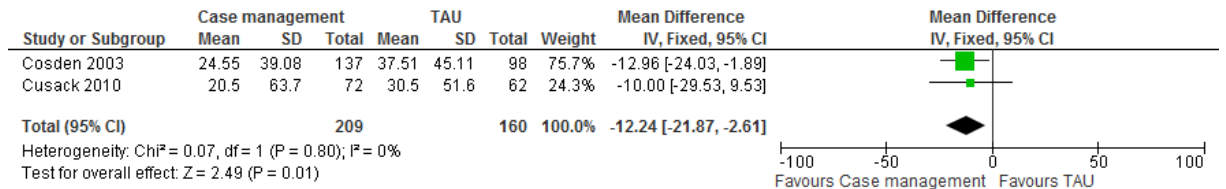
Figure 260: Quality of Life at post-treatment
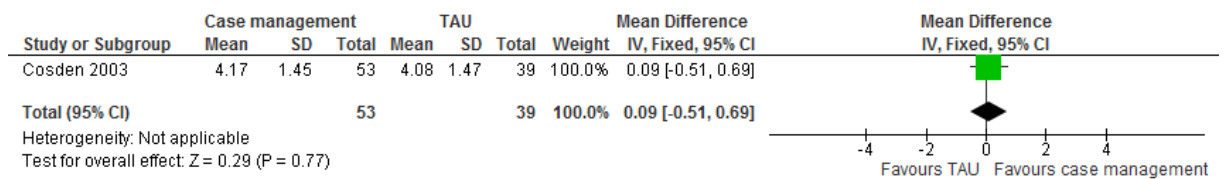
O.7.7 Drug court

O.7.7.1 Drug court vs TAU

Figure 261:   Days of substance misuse (12 months follow-up)

Study or Subgroup	drug court			TAU			Weight	Mean Difference IV, Random, 95% CI	Mean Difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total			
21.1.1 Alcohol									
Gottfredson 2005	41.9	11.1	86	85	12.3	71	100.0%	-43.10 [-46.80, -39.40]	
Subtotal (95% CI)			86			71	100.0%	-43.10 [-46.80, -39.40]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 22.83 (P < 0.00001)									
21.1.2 Cocaine									
Gottfredson 2005	54.8	13.4	86	98.5	14.8	71	100.0%	-43.70 [-48.16, -39.24]	
Subtotal (95% CI)			86			71	100.0%	-43.70 [-48.16, -39.24]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 19.21 (P < 0.00001)									
21.1.3 Heroin									
Gottfredson 2005	69.9	14.8	86	124.4	16.3	71	100.0%	-54.50 [-59.42, -49.58]	
Subtotal (95% CI)			86			71	100.0%	-54.50 [-59.42, -49.58]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 21.73 (P < 0.00001)									

Test for subgroup differences: Chi² = 14.86, df = 2 (P = 0.0006), I² = 86.5%

Figure 262:   Re-arrest (12-month follow-up)

Study or Subgroup	drug court		TAU		Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
	Events	Total	Events	Total			
Gottfredson 2005	37	86	46	71	100.0%	0.66 [0.49, 0.89]	
Total (95% CI)		86		71	100.0%	0.66 [0.49, 0.89]	
Total events	37		46				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.70 (P = 0.007)							

Figure 263:   Maximum Crime Seriousness Scale (12-months follow-up)

Study or Subgroup	drug court			TAU			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Gottfredson 2005	0.88	0.18	86	2	0.2	71	100.0%	-1.12 [-1.18, -1.06]	
Total (95% CI)			86			71	100.0%	-1.12 [-1.18, -1.06]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 36.53 (P < 0.00001)									
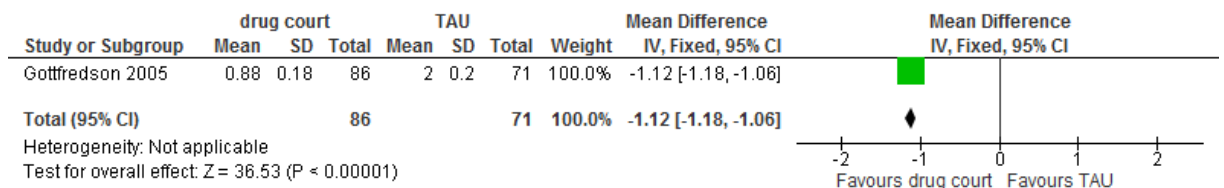
O.7.7.2 Drug court vs active intervention

At post-treatment

Figure 264:   Removed from treatment due to unsatisfactory progress

Study or Subgroup	gender responsive DC		usual DC		Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
	Events	Total	Events	Total			
Messina 2012	11	85	10	65	100.0%	0.84 [0.38, 1.86]	
Total (95% CI)		85		65	100.0%	0.84 [0.38, 1.86]	
Total events	11		10				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.43 (P = 0.67)							

Figure 265:   Addiction Severity Index (ASI): alcohol composite scores

	engaging moms DC			case management DC				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Dakof 2010	0	0.01	31	0.02	0.05	31	100.0%	-0.02 [-0.04, -0.00]	
Total (95% CI)			31			31	100.0%	-0.02 [-0.04, -0.00]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.18 (P = 0.03)									

-100   -50   0   50   100
Favours engaging moms DC Favours case man. DC
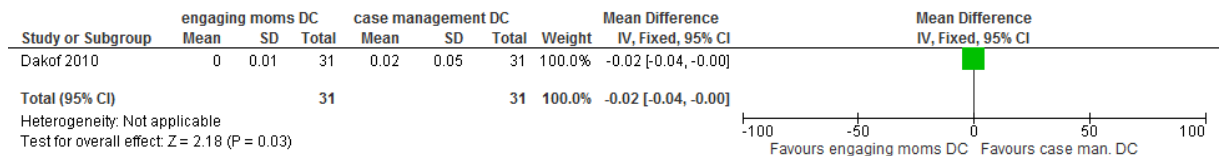
Figure 266:   Addiction severity index (ASI): drug composite score

	engaging moms DC			case management DC				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Dakof 2010	0.02	0.07	31	0.03	0.05	31	100.0%	-0.01 [-0.04, 0.02]	
Total (95% CI)			31			31	100.0%	-0.01 [-0.04, 0.02]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.65 (P = 0.52)									

-100   -50   0   50   100
Favours engaging moms DC Favours case man. DC

Figure 267:   Number of sanctions during treatment

	gender responsive DC			usual DC				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Messina 2012	3.1	3.2	85	4	3.5	65	100.0%	-0.90 [-1.99, 0.19]	
Total (95% CI)			85			65	100.0%	-0.90 [-1.99, 0.19]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.62 (P = 0.11)									

-100   -50   0   50   100
Favours gender respon. DC Favours usual DC

Figure 268:   Number of sanctions during treatment resulting in jail detention

	gender responsive DC			usual DC				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Messina 2012	1.9	1.2	67	2.4	1.5	54	100.0%	-0.50 [-0.99, -0.01]	
Total (95% CI)			67			54	100.0%	-0.50 [-0.99, -0.01]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.99 (P = 0.05)									

-100   -50   0   50   100
Favours gender respon. DC Favours usual DC

Figure 269:   Reincarceration during treatment

	intensive DC		usual DC			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Jones 2013	18	63	25	68	100.0%	0.78 [0.47, 1.28]	
Total (95% CI)		63		68	100.0%	0.78 [0.47, 1.28]	
Total events	18		25				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.99 (P = 0.32)							

0.01   0.1   1   10   100
Favours intensive DC Favours usual DC
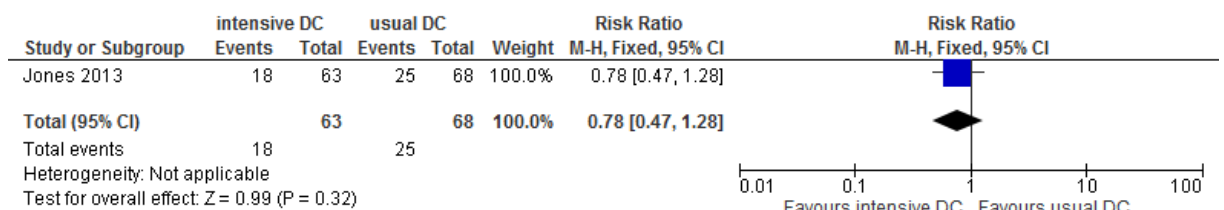
Figure 270:   Urine test positive for drugs (post-treatment)

	engaging moms DC		case management DC			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Dakof 2010	2	31	5	31	100.0%	0.40 [0.08, 1.91]	
Total (95% CI)		31		31	100.0%	0.40 [0.08, 1.91]	
Total events	2		5				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.15 (P = 0.25)							

0.01   0.1   1   10   100
Favours engaging moms DC Favours case man. DC

O.7.8 Opioid substitution therapy

O.7.8.1 Opioid substitution therapy + case management vs active intervention

Figure 271: **Completed jail treatment**

Figure 272: **Urine test positive for cocaine**

Figure 273:   Urine test positive for opioids

	methadone + case manage		other active intervention				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI	
14.3.1 1 month follow-up							
Kinlock 2007	19	70	67	130	100.0%	0.53 [0.35, 0.80]	
Subtotal (95% CI)		**70**		**130**	**100.0%**	**0.53 [0.35, 0.80]**	
Total events	19		67				
Heterogeneity: Not applicable							
Test for overall effect: Z = 3.00 (P = 0.003)							
14.3.2 6 month follow-up							
Gordon 2008	3	12	26	45	100.0%	0.43 [0.16, 1.19]	
Subtotal (95% CI)		**12**		**45**	**100.0%**	**0.43 [0.16, 1.19]**	
Total events	3		26				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.62 (P = 0.10)							
14.3.3 12 month follow-up							
Kinlock 2009	11	44	40	71	100.0%	0.44 [0.26, 0.77]	
Subtotal (95% CI)		**44**		**71**	**100.0%**	**0.44 [0.26, 0.77]**	
Total events	11		40				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.89 (P = 0.004)							

Test for subgroup differences: Chi² = 0.30, df = 2 (P = 0.86), I² = 0%

0.01   0.1   1   10   100
Favours m'done + case man   Favours other active int.

Figure 274:   Days of substance use (12-months follow-up)

	methadone + case manage			other active intervention				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
14.4.1 Cocaine									
Kinlock 2009	37.2	60.1	71	64.6	82.9	133	100.0%	-27.40 [-47.25, -7.55]	
Subtotal (95% CI)			**71**			**133**	**100.0%**	**-27.40 [-47.25, -7.55]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.71 (P = 0.007)									
14.4.2 Heroin									
Kinlock 2009	106.2	133.5	71	143	123.7	133	100.0%	-36.80 [-74.30, 0.70]	
Subtotal (95% CI)			**71**			**133**	**100.0%**	**-36.80 [-74.30, 0.70]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.92 (P = 0.05)									

Test for subgroup differences: Chi² = 0.19, df = 1 (P = 0.66), I² = 0%

-100   -50   0   50   100
Favours m'done + case man   Favours other active int.

Figure 275:   Self-reported drug use in past 30 days (6-months follow-up)

	methadone + case manage		case management				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI	
14.5.1 Crack/Cocaine							
McKenzie 2012	4	21	19	41	100.0%	0.41 [0.16, 1.05]	
Subtotal (95% CI)		**21**		**41**	**100.0%**	**0.41 [0.16, 1.05]**	
Total events	4		19				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.85 (P = 0.06)							
14.5.2 Heroin							
McKenzie 2012	3	21	22	41	100.0%	0.27 [0.09, 0.79]	
Subtotal (95% CI)		**21**		**41**	**100.0%**	**0.27 [0.09, 0.79]**	
Total events	3		22				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.39 (P = 0.02)							
14.5.3 Marijuana							
McKenzie 2012	2	21	9	41	100.0%	0.43 [0.10, 1.83]	
Subtotal (95% CI)		**21**		**41**	**100.0%**	**0.43 [0.10, 1.83]**	
Total events	2		9				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.14 (P = 0.26)							
14.5.4 Injection drug use							
McKenzie 2012	2	21	15	41	100.0%	0.26 [0.07, 1.03]	
Subtotal (95% CI)		**21**		**41**	**100.0%**	**0.26 [0.07, 1.03]**	
Total events	2		15				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.91 (P = 0.06)							

Test for subgroup differences: Chi² = 0.61, df = 3 (P = 0.90), I² = 0%

0.01   0.1   1   10   100
Favours m'done + case man   Favours case man.

Figure 276:   Drug overdose at 6-months and 12-months follow-up

Figure 277:   Re-arrest at 6-months and 12-months follow-up

Figure 278:   Self-reported days of criminal activity (12 months follow-up)

O.7.9   Automated Telephony (AT) with feedback versus AT alone

Figure 279:   Change in Arnetz and Hasson stress questionnaires (AHSS)

Figure 280: **Change in symptom checklist-8D (SCL-8D)**

	AT with feedback			AT alone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Andersson 2014	3.3	10.96	52	-1.2	11.76	56	100.0%	4.50 [0.22, 8.78]	
Total (95% CI)			52			56	100.0%	4.50 [0.22, 8.78]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.06 (P = 0.04)									

Favours AT alone Favours AT with feedback
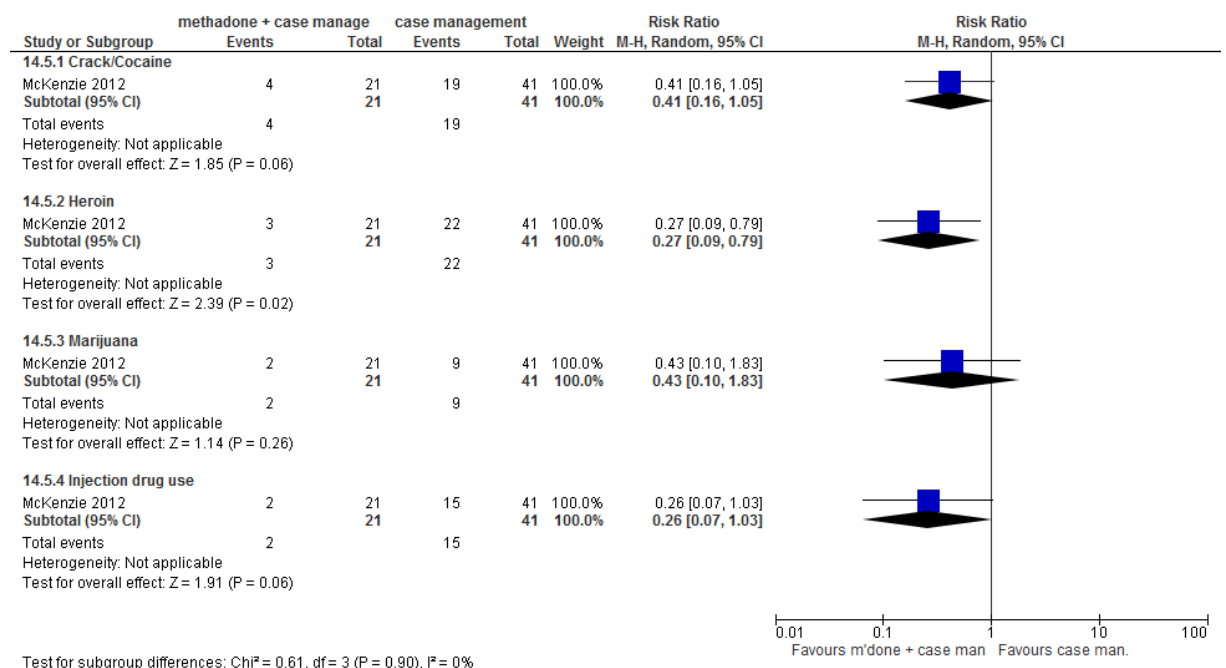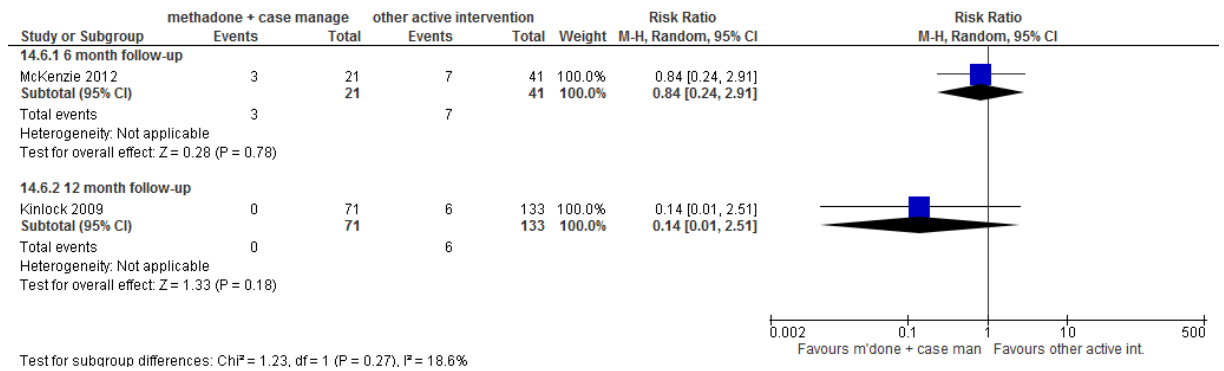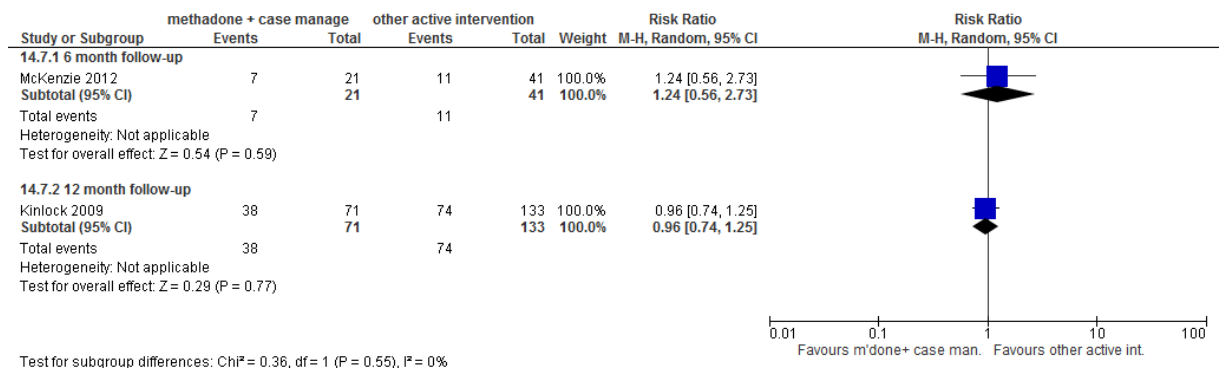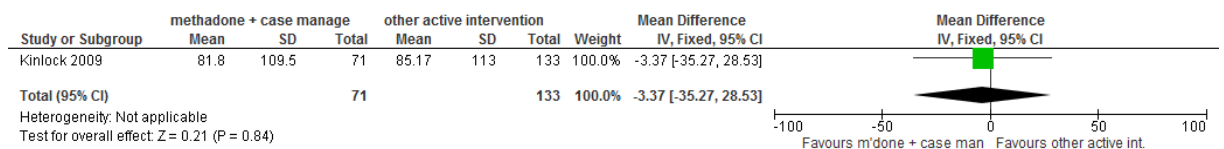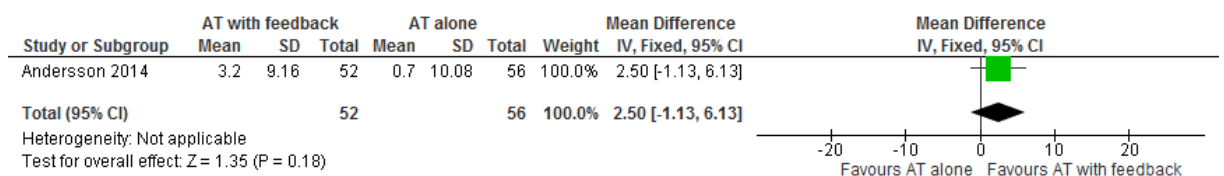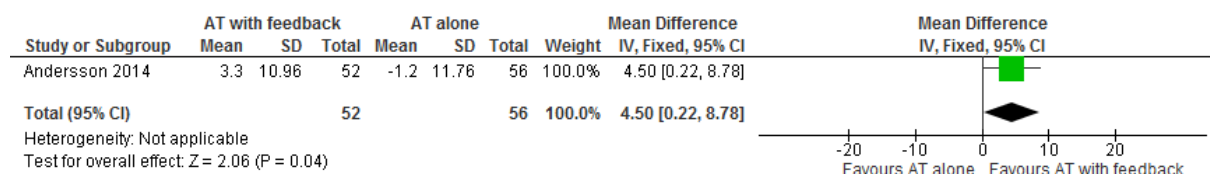
Figure 281: **Change in daily stressor assessment**

	AT with feedback			AT alone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Andersson 2014	1.9	1.98	52	-0.01	2.24	56	100.0%	1.91 [1.11, 2.71]	
Total (95% CI)			52			56	100.0%	1.91 [1.11, 2.71]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 4.70 (P < 0.00001)									

Favours AT alone Favours AT with feedback

Figure 282: **Alcohol urge questionnaires: reduction in alcohol urge**

	AT with feedback			AT alone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Andersson 2014	0.3	1.44	52	0.1	1.49	56	100.0%	0.20 [-0.35, 0.75]	
Total (95% CI)			52			56	100.0%	0.20 [-0.35, 0.75]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.71 (P = 0.48)									

Favours AT alone Favours AT with feedback

Figure 283: **Alcohol urge questionnaires: reduction in alcohol use**

	AT with feedback			AT alone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Andersson 2014	0.9	1.8	52	0.1	1.87	56	100.0%	0.80 [0.11, 1.49]	
Total (95% CI)			52			56	100.0%	0.80 [0.11, 1.49]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.26 (P = 0.02)									

Favours AT alone Favours AT with feedback

Figure 284: **Alcohol urge questionnaires: reduction in drug urge**

	AT with feedback			AT alone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Andersson 2014	0.2	1.44	52	-0.1	1.49	56	100.0%	0.30 [-0.25, 0.85]	
Total (95% CI)			52			56	100.0%	0.30 [-0.25, 0.85]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.06 (P = 0.29)									

Favours AT with feedback Favours AT alone

Figure 285: **Alcohol urge questionnaires: reduction in drug use**

	AT with feedback			AT alone				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Andersson 2014	0.4	1.44	52	-0.6	1.68	56	100.0%	1.00 [0.41, 1.59]	
Total (95% CI)			52			56	100.0%	1.00 [0.41, 1.59]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 3.33 (P = 0.0009)									

Favours AT alone Favours AT with feedback

O.7.10   IDDT versus TAU

Figure 286:   Number of days in hospital

	IDDT			TAU				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Chandler 2006	6.89	7.01	103	12.52	16.88	79	100.0%	-5.63 [-9.59, -1.67]	
Total (95% CI)			103			79	100.0%	-5.63 [-9.59, -1.67]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.79 (P = 0.005)

Favours IDDT Favours TAU

Figure 287:   Rate of crisis visits

	IDDT			TAU				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Chandler 2006	0.48	3.75941751	103	2.74	6.26162918	79	100.0%	-2.26 [-3.82, -0.70]	
Total (95% CI)			103			79	100.0%	-2.26 [-3.82, -0.70]	

Heterogeneity: Not applicable
Test for overall effect: Z = 2.84 (P = 0.005)

Favours IDDT Favours TAU

Figure 288:   Rate of outpatient medication services

	IDDT		TAU			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Chandler 2006	83	103	51	79	100.0%	1.25 [1.03, 1.51]	
Total (95% CI)		103		79	100.0%	1.25 [1.03, 1.51]	
Total events	83		51				

Heterogeneity: Not applicable
Test for overall effect: Z = 2.30 (P = 0.02)

Favours TAU Favours IDDT

O.7.11   Housing First versus TAU

Figure 289:   Any offence

	HF		TAU			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
15.1.1 Scattered HF+ACT							
Somer 2013	6	90	11	50	46.4%	0.30 [0.12, 0.77]	
Subtotal (95% CI)		90		50	46.4%	0.30 [0.12, 0.77]	
Total events	6		11				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.51 (P = 0.01)							
15.1.2 Congregate HF							
Somer 2013	10	107	8	50	53.6%	0.58 [0.25, 1.39]	
Subtotal (95% CI)		107		50	53.6%	0.58 [0.25, 1.39]	
Total events	10		8				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.22 (P = 0.22)							
Total (95% CI)		197		100	100.0%	0.43 [0.23, 0.82]	
Total events	16		19				

Heterogeneity: Tau² = 0.00; Chi² = 1.02, df = 1 (P = 0.31); I² = 2%
Test for overall effect: Z = 2.57 (P = 0.01)
Test for subgroup differences: Chi² = 1.02, df = 1 (P = 0.31), I² = 2.0%

Favours HF Favours TAU

O.7.12   TIMA versus TAU

Figure 290:   Bipolar Disorder Symptom Scale (BDSS)

Study or Subgroup	TIMA Mean	SD	Total	TAU Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Ehret 2013	1.22	1.02	30	1.49	0.89	30	100.0%	-0.27 [-0.75, 0.21]
Total (95% CI)			30			30	100.0%	-0.27 [-0.75, 0.21]

Heterogeneity: Not applicable
Test for overall effect: Z = 1.09 (P = 0.27)

Mean Difference IV, Fixed, 95% CI
Favours TIMA Favours TAU
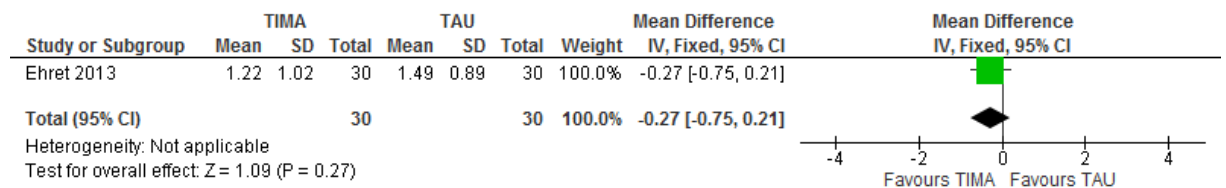
Figure 291:   Brief Psychiatric Rating Scale (BPRS)

Study or Subgroup	TIMA Mean	SD	Total	TAU Mean	SD	Total	Weight	Mean Difference IV, Fixed, 95% CI
Ehret 2013	29.48	4.48	30	28.51	6.25	30	100.0%	0.97 [-1.78, 3.72]
Total (95% CI)			30			30	100.0%	0.97 [-1.78, 3.72]

Heterogeneity: Not applicable
Test for overall effect: Z = 0.69 (P = 0.49)

Mean Difference IV, Fixed, 95% CI
Favours TIMA Favours TAU
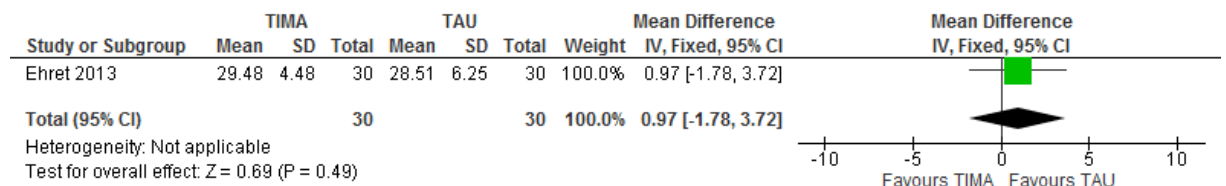
O.7.13   Service Brokerage Intervention versus TAU

Figure 292:   Number of participants in contact with MH services

Study or Subgroup	Service Brokerage Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Kinner 2013/14a/b	55	665	47	660	100.0%	1.16 [0.80, 1.69]
Total (95% CI)		665		660	100.0%	1.16 [0.80, 1.69]
Total events	55		47			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.78 (P = 0.43)
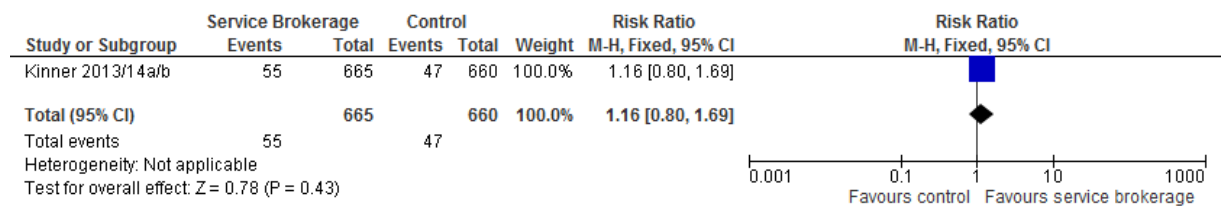
Risk Ratio M-H, Fixed, 95% CI
Favours control Favours service brokerage
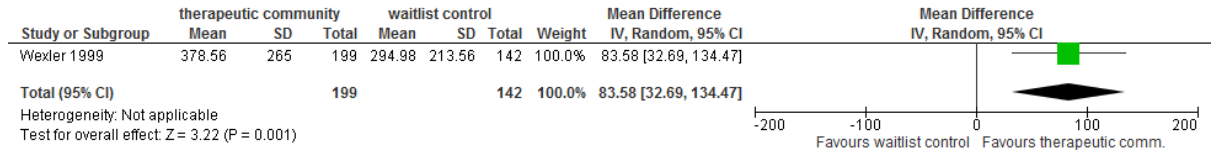
Figure 293:   Number of participants who have seen GP

Study or Subgroup	Service Brokerage Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Kinner 2013/14a/b	21	665	13	660	100.0%	1.60 [0.81, 3.17]
Total (95% CI)		665		660	100.0%	1.60 [0.81, 3.17]
Total events	21		13			

Heterogeneity: Not applicable
Test for overall effect: Z = 1.35 (P = 0.18)

Risk Ratio M-H, Fixed, 95% CI
Favours control Favours service brokerage

Figure 294:   Number of participants who attended alcohol or drug service

Study or Subgroup	Service Brokerage Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Kinner 2013/14a/b	18	665	17	660	100.0%	1.05 [0.55, 2.02]
Total (95% CI)		665		660	100.0%	1.05 [0.55, 2.02]
Total events	18		17			

Heterogeneity: Not applicable
Test for overall effect: Z = 0.15 (P = 0.88)

Risk Ratio M-H, Fixed, 95% CI
Favours control Favours service brokerge
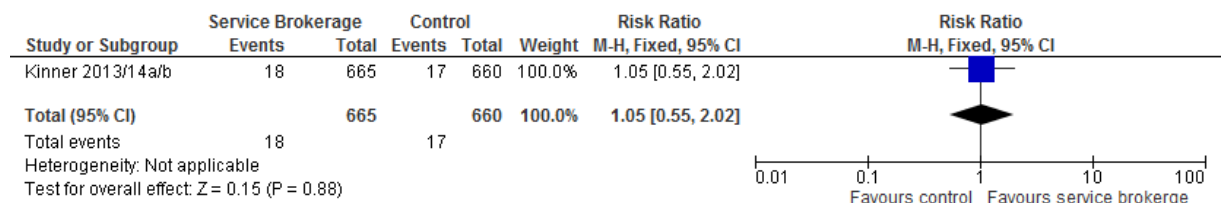
O.7.14   Therapeutic communities

O.7.14.1   Therapeutic community versus waitlist control

Figure 295:   Days until re-incarceration

	therapeutic community			waitlist control				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Wexler 1999	378.56	265	199	294.98	213.56	142	100.0%	83.58 [32.69, 134.47]	
Total (95% CI)			199			142	100.0%	83.58 [32.69, 134.47]	

Heterogeneity: Not applicable
Test for overall effect: Z = 3.22 (P = 0.001)

Favours waitlist control   Favours therapeutic comm.

O.7.14.2   Therapeutic community versus active intervention

Figure 296:   Addiction Severity Index (ASI-6): alcohol composite score

	Experimental			Control				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Messina 2010	0.03	0.08	60	0.07	0.14	55	100.0%	-0.04 [-0.08, 0.00]	
Total (95% CI)			60			55	100.0%	-0.04 [-0.08, 0.00]	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.86 (P = 0.06)

Favours gender respon. TC   Favours standard TC
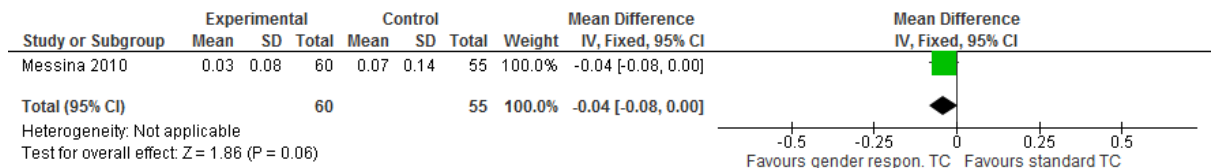
Figure 297:   Addiction Severity Index (ASI-6): drug composite score

	Experimental			Control				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Messina 2010	0.04	0.08	60	0.02	0.05	55	100.0%	0.02 [-0.00, 0.04]	
Total (95% CI)			60			55	100.0%	0.02 [-0.00, 0.04]	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.62 (P = 0.10)

Favours gender respon. TC   Favours standard TC
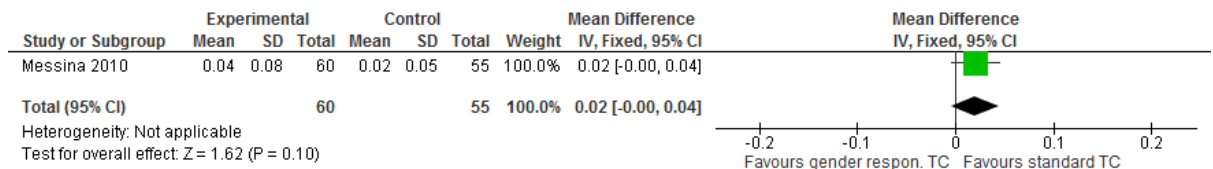
Figure 298:   Alcohol use at follow-up

	Experimental		Control			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
24.3.1 12 month follow-up							
Sullivan 2007	15	75	24	64	100.0%	0.53 [0.31, 0.93]	
Subtotal (95% CI)		75		64	100.0%	0.53 [0.31, 0.93]	
Total events	15		24				

Heterogeneity: Not applicable
Test for overall effect: Z = 2.23 (P = 0.03)

24.3.2 Follow-up NR							
Sacks 2008	41	163	29	151	100.0%	1.31 [0.86, 2.00]	
Subtotal (95% CI)		163		151	100.0%	1.31 [0.86, 2.00]	
Total events	41		29				

Heterogeneity: Not applicable
Test for overall effect: Z = 1.26 (P = 0.21)

Favours therapeutic comm.   Favours psychoeducation

Test for subgroup differences: Chi² = 6.43, df = 1 (P = 0.01), I² = 84.5%

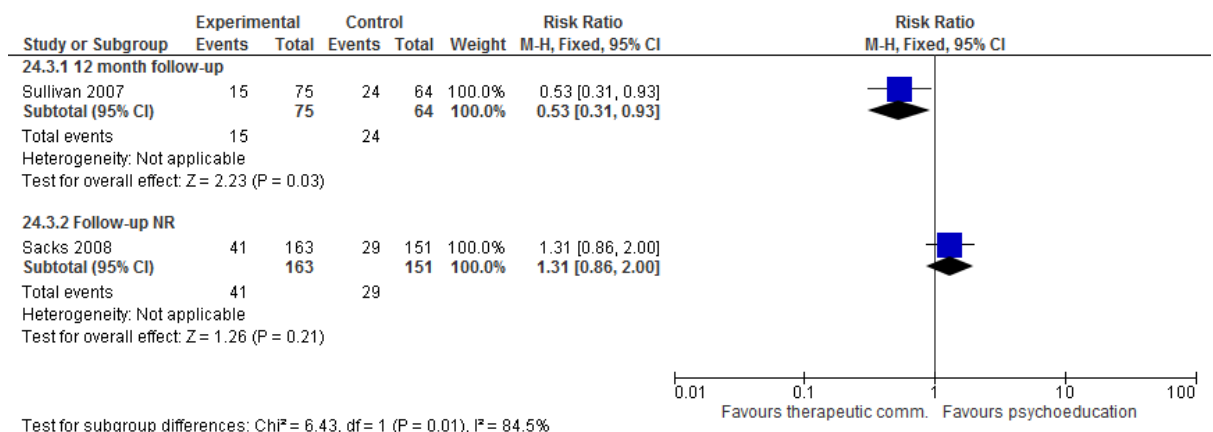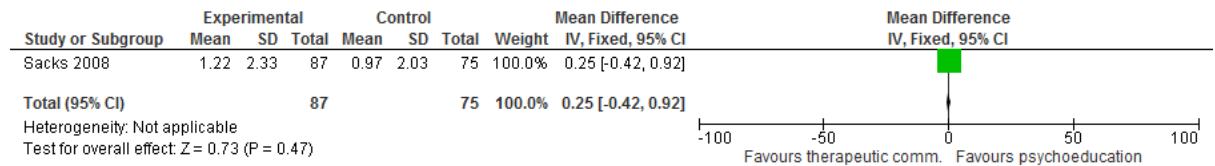**Figure 299:   Frequency of alcohol use at follow-up**

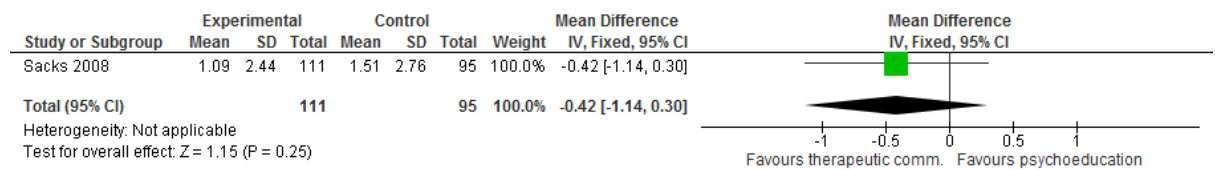**Figure 300:   Frequency of drug use at follow-up**

Figure 301:   Drug use at follow-up
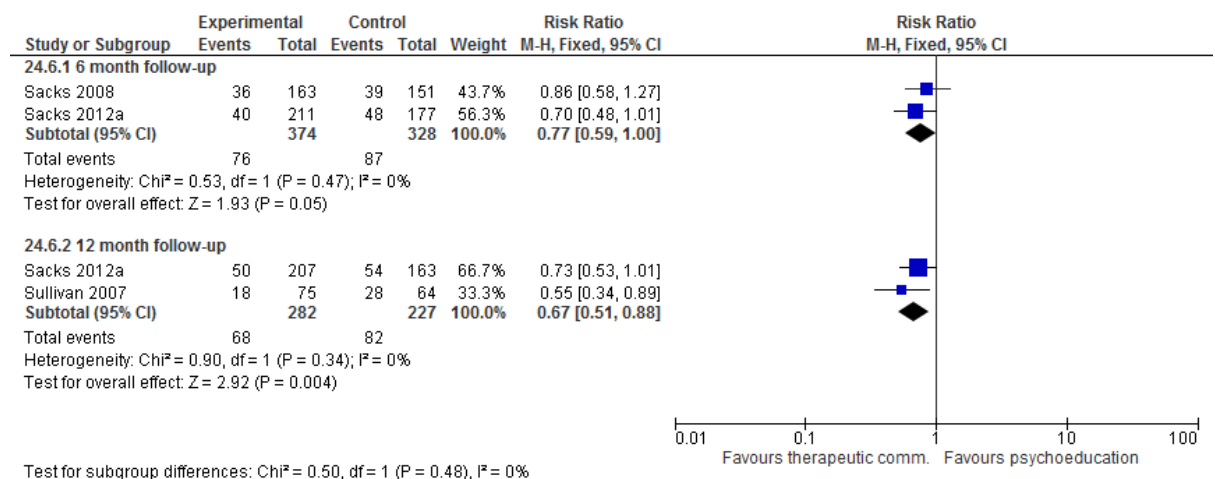
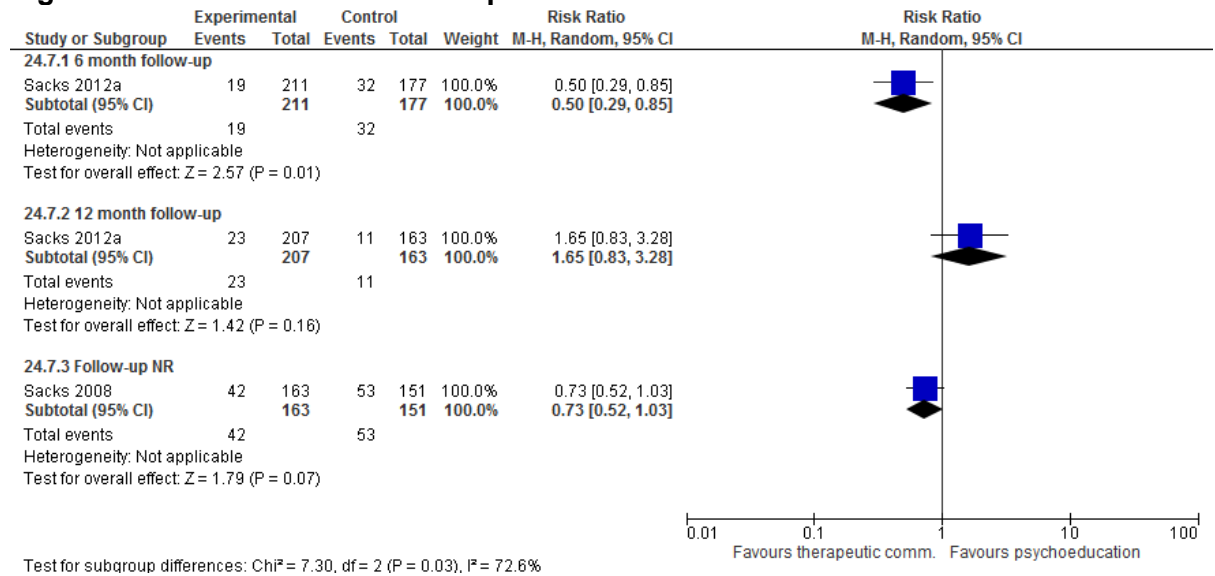**Figure 302:   Re-arrest at follow-up**

Figure 303:   Re-incarceration at follow-up
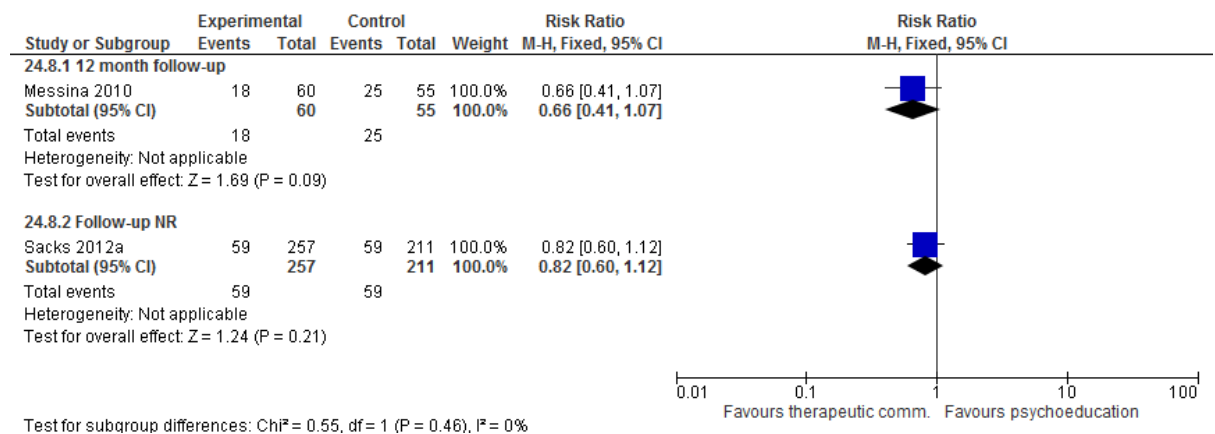

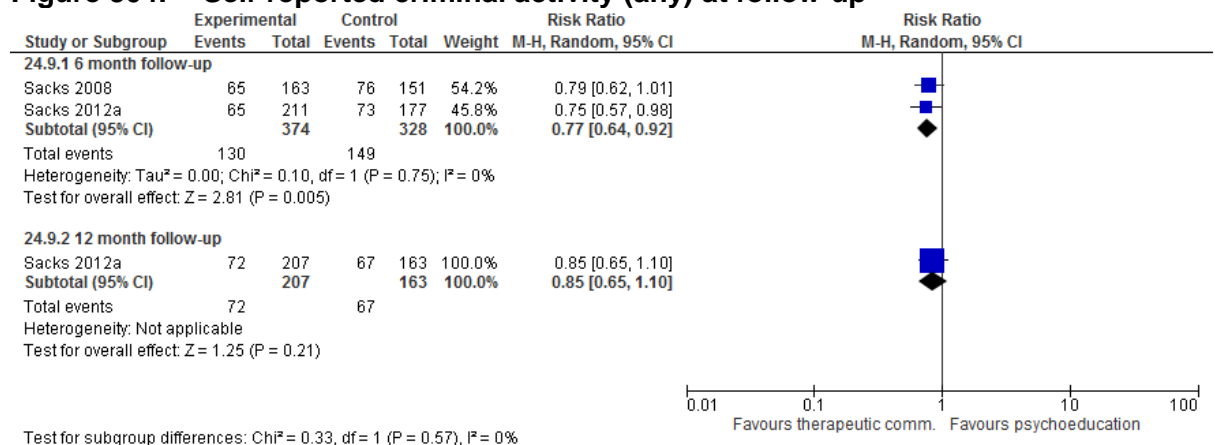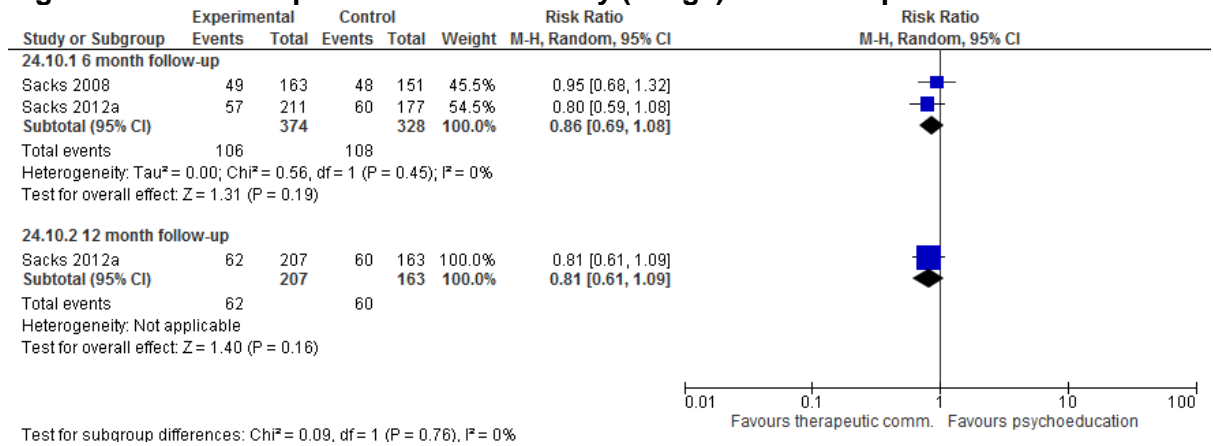**Figure 304:   Self-reported criminal activity (any) at follow-up**

Figure 305:   Self-reported criminal activity (Drugs) at follow-up

O.7.14.3   Modified therapeutic community versus psychoeducation

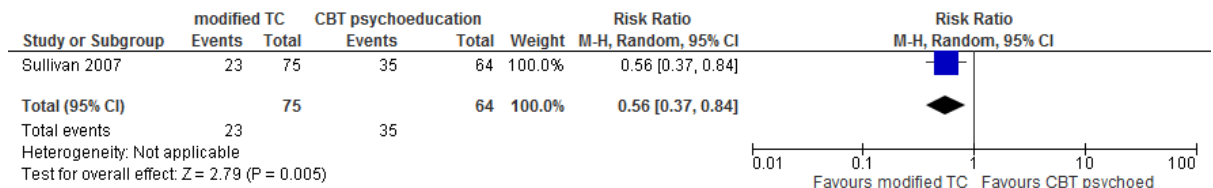**Figure 306:   Substance use (12 month follow-up)**

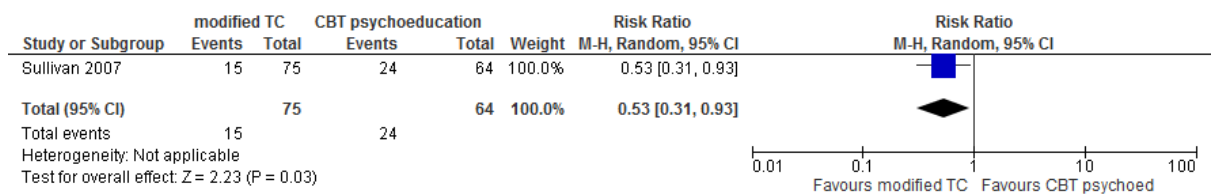

Figure 307:   Alcohol use (12 month follow-up)
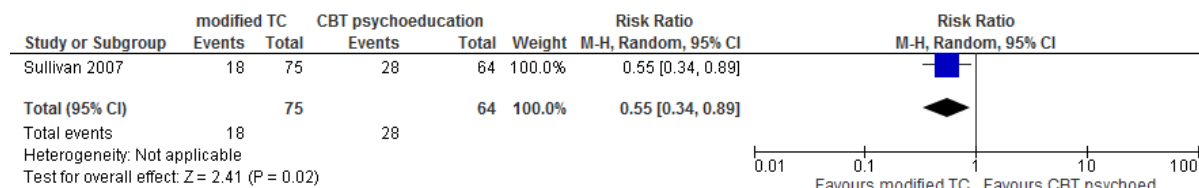
Figure 308:   Drug use (12 month follow-up)

Study or Subgroup	modified TC Events	Total	CBT psychoeducation Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Sullivan 2007	18	75	28	64	100.0%	0.55 [0.34, 0.89]
Total (95% CI)		75		64	100.0%	**0.55 [0.34, 0.89]**
Total events	18		28			

Heterogeneity: Not applicable
Test for overall effect: Z = 2.41 (P = 0.02)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours modified TC Favours CBT psychoed

Figure 309:   Criminal activity (12 month follow-up)

Study or Subgroup	Modified TC. Events	Total	CBT psychoed. Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Sacks 2004	35	75	45	64	100.0%	0.66 [0.50, 0.89]
Total (95% CI)		75		64	100.0%	**0.66 [0.50, 0.89]**
Total events	35		45			

Heterogeneity: Not applicable
Test for overall effect: Z = 2.77 (P = 0.006)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours modified TC Favours CBT psychoed.
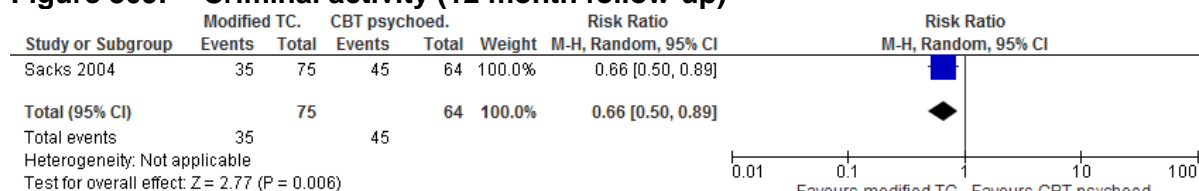
Figure 310:   Re-incarceration (12 month follow-up)

Study or Subgroup	Modified TC Events	Total	CBT psychoed. Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Sacks 2004	7	75	21	64	100.0%	0.28 [0.13, 0.63]
Total (95% CI)		75		64	100.0%	**0.28 [0.13, 0.63]**
Total events	7		21			

Heterogeneity: Not applicable
Test for overall effect: Z = 3.13 (P = 0.002)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours modified TC Favours CBT psychoed.
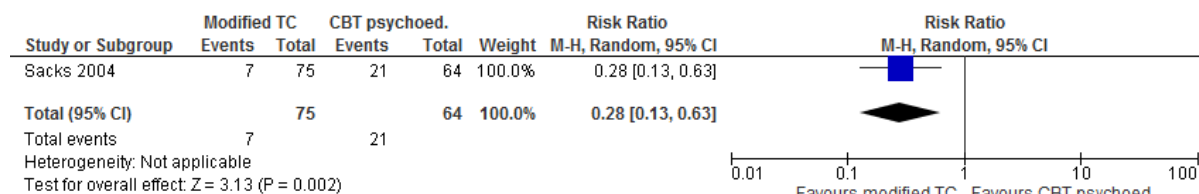
Figure 311:   Alcohol or drug offences (12 month follow-up)

Study or Subgroup	Modified TC Events	Total	CBT psychoed. Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Sacks 2004	27	75	37	64	100.0%	0.62 [0.43, 0.90]
Total (95% CI)		75		64	100.0%	**0.62 [0.43, 0.90]**
Total events	27		37			

Heterogeneity: Not applicable
Test for overall effect: Z = 2.53 (P = 0.01)

Risk Ratio M-H, Random, 95% CI — 0.01 0.1 1 10 100 — Favours modified TC Favours CBT psychoed.
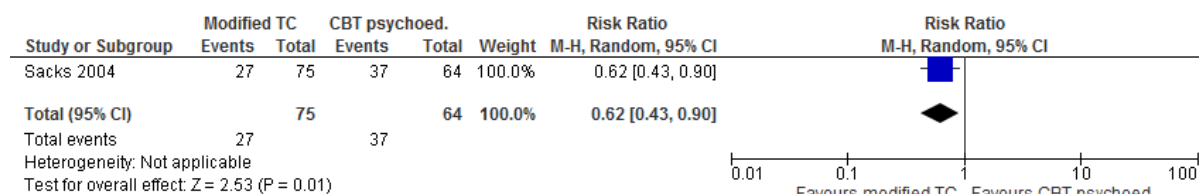
O.7.14.4   Enhanced therapeutic community versus standard therapeutic community

At post-treatment

Figure 312:   Engagement with treatment

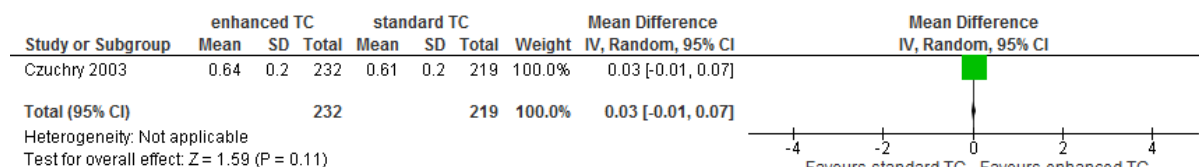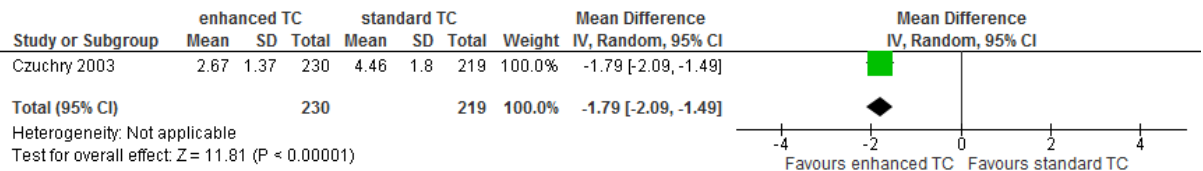| Study or Subgroup	enhanced TC Mean	SD	Total	standard TC Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Czuchry 2003	0.64	0.2	232	0.61	0.2	219	100.0%	0.03 [-0.01, 0.07]
Total (95% CI)			232			219	100.0%	**0.03 [-0.01, 0.07]**

Heterogeneity: Not applicable
Test for overall effect: Z = 1.59 (P = 0.11)

Mean Difference IV, Random, 95% CI — -4 -2 0 2 4 — Favours standard TC Favours enhanced TC

Figure 313:   Negative mood (rated by counsellors)

Study or Subgroup	enhanced TC Mean	SD	Total	standard TC Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Czuchry 2003	2.67	1.37	230	4.46	1.8	219	100.0%	-1.79 [-2.09, -1.49]
Total (95% CI)			230			219	100.0%	-1.79 [-2.09, -1.49]
Heterogeneity: Not applicable								
Test for overall effect: Z = 11.81 (P < 0.00001)								

Mean Difference — IV, Random, 95% CI — Favours enhanced TC / Favours standard TC

O.7.14.5 Gender-responsive therapeutic community versus standard therapeutic community

Figure 314: Addiction Severity Index (ASI-6): alcohol composite score

Study or Subgroup	gender responsive TC Mean	SD	Total	standard TC Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Messina 2010	0.03	0.08	60	0.07	0.14	55	100.0%	-0.04 [-0.08, 0.00]
Total (95% CI)			60			55	100.0%	-0.04 [-0.08, 0.00]
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.86 (P = 0.06)								

Mean Difference — IV, Random, 95% CI — Favours gender respon. TC / Favours standard TC
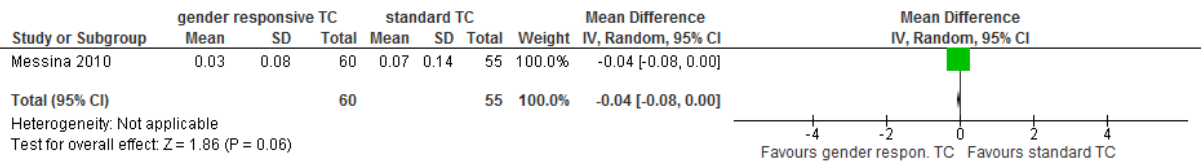
Figure 315: Addiction Severity Index (ASI-6): psychological composite score

Study or Subgroup	gender responsive TC Mean	SD	Total	standard TC Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Messina 2010	0.23	0.24	60	0.24	0.26	55	100.0%	-0.01 [-0.10, 0.08]
Total (95% CI)			60			55	100.0%	-0.01 [-0.10, 0.08]
Heterogeneity: Not applicable								
Test for overall effect: Z = 0.21 (P = 0.83)								

Mean Difference — IV, Random, 95% CI — Favours gender-respon. TC / Favours standard TC
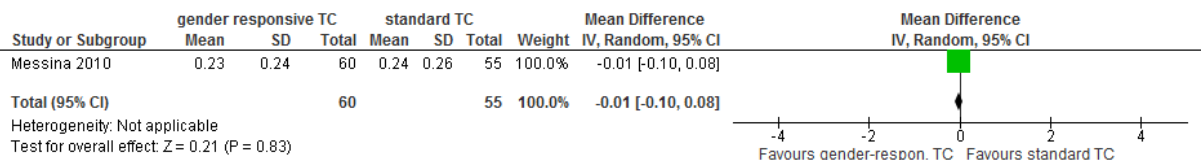
Figure 316: Addiction Severity Index (ASI-6): drug composite score

Study or Subgroup	gender responsive TC Mean	SD	Total	standard TC Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Messina 2010	0.04	0.08	60	0.02	0.05	55	100.0%	0.02 [-0.00, 0.04]
Total (95% CI)			60			55	100.0%	0.02 [-0.00, 0.04]
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.62 (P = 0.10)								

Mean Difference — IV, Random, 95% CI — Favours gender respon. TC / Favours standard TC
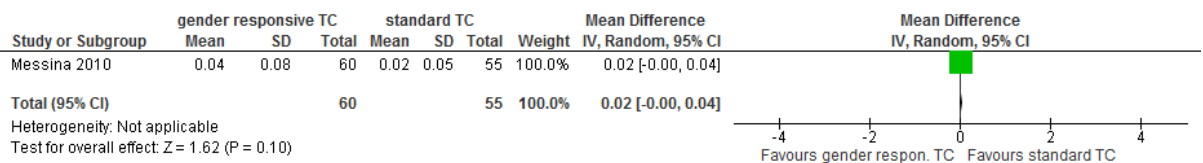
Figure 317: Addiction Severity Index (ASI-6): family composite score

Study or Subgroup	gender responsive TC Mean	SD	Total	standard TC Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Messina 2010	0.1	0.19	60	0.14	0.24	55	100.0%	-0.04 [-0.12, 0.04]
Total (95% CI)			60			55	100.0%	-0.04 [-0.12, 0.04]
Heterogeneity: Not applicable								
Test for overall effect: Z = 0.99 (P = 0.32)								

Mean Difference — IV, Random, 95% CI — Favours gender-respon. TC / Favours standard TC
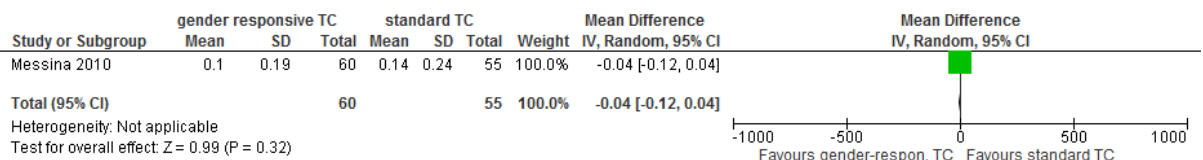
Figure 318: Participated in after-care upon release

Study or Subgroup	gender responsive TC Events	Total	standard TC Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Messina 2010	28	60	30	55	100.0%	0.86 [0.60, 1.23]
Total (95% CI)		60		55	100.0%	0.86 [0.60, 1.23]
Total events	28		30			
Heterogeneity: Not applicable						
Test for overall effect: Z = 0.84 (P = 0.40)						

Risk Ratio — M-H, Random, 95% CI — Favours standard TC / Favours gender-respon. TC

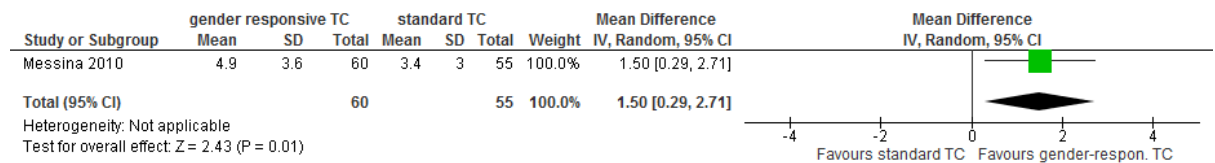**Figure 319:   Months spent in after-care**

Figure 320:   Disciplinary removal from first residential placement post-release
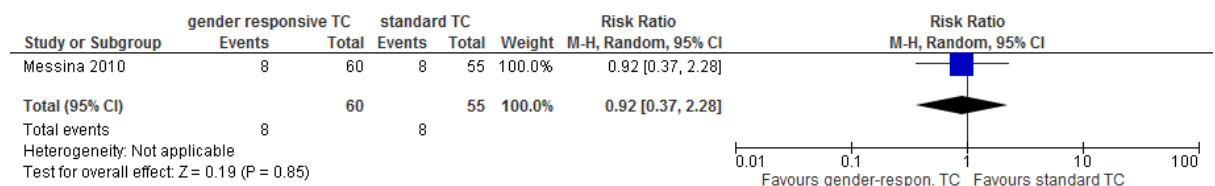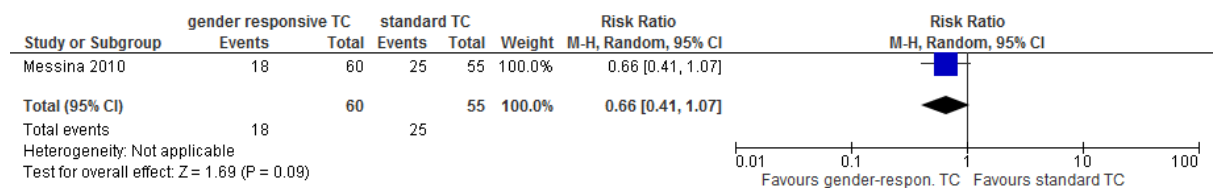

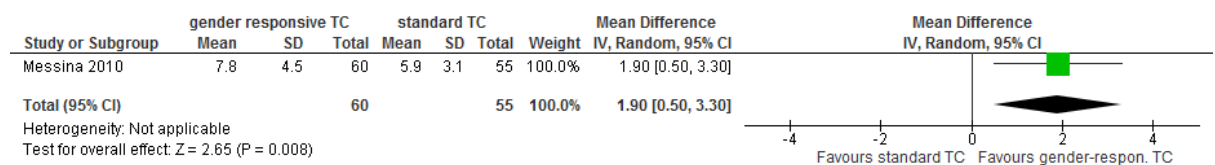**Figure 321:   Re-incarceration (12 month follow-up)**

Figure 322:   Voluntarily dropped out from first residential placement post-release

Figure 323:   Months until re-incarceration

O.7.14.6   Gender-specific therapeutic community versus psychoeducation

Figure 324:   Beck Depression Inventory (BDI) total score at post-treatment
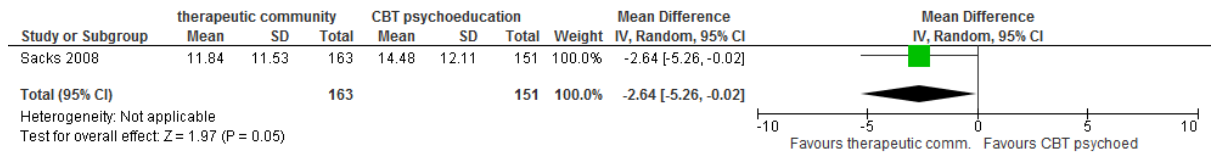
Figure 325:   Brief Symptom Inventory (BSI) total score at post-treatment
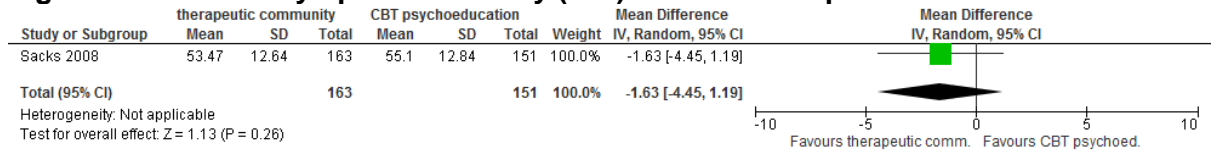
Figure 326:   Post-traumatic Symptom Severity Scale (PSS) at post-treatment
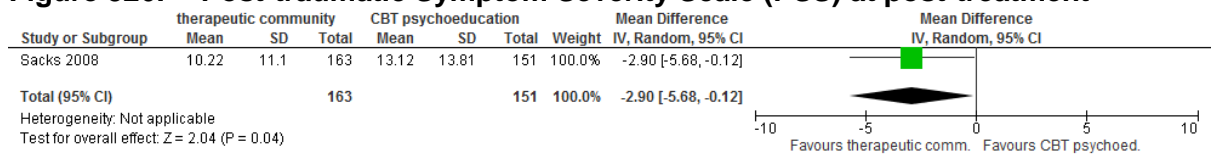
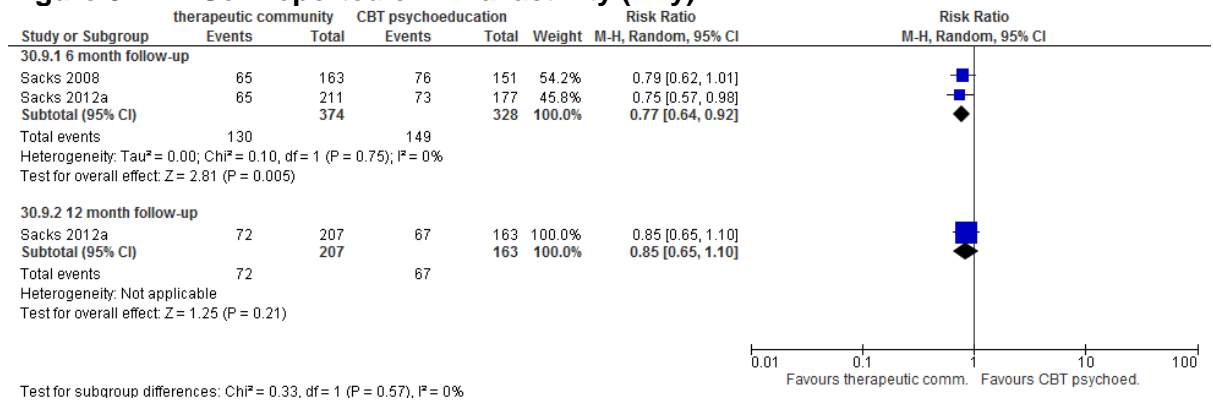**Figure 327:   Self-reported criminal activity (Any)**

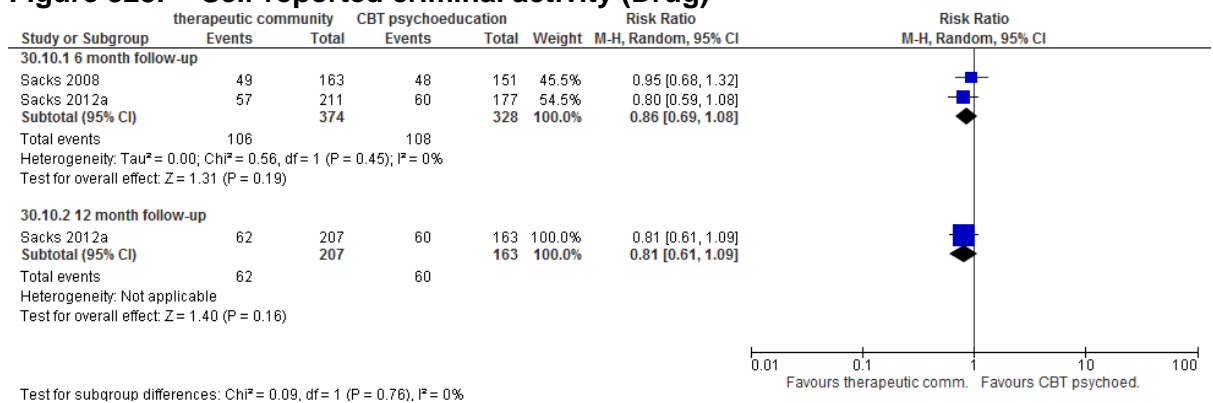**Figure 328:   Self-reported criminal activity (Drug)**
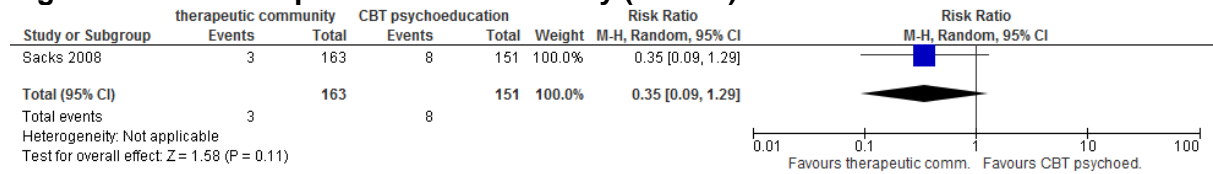
Figure 329: Self-reported criminal activity (Sexual)

Study or Subgroup	therapeutic community Events	Total	CBT psychoeducation Events	Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI
Sacks 2008	3	163	8	151	100.0%	0.35 [0.09, 1.29]	
Total (95% CI)		163		151	100.0%	0.35 [0.09, 1.29]	
Total events	3		8				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.58 (P = 0.11)							

0.01 0.1 1 10 100
Favours therapeutic comm. Favours CBT psychoed.

Figure 330: Receiving substance abuse treatment at follow-up

Study or Subgroup	therapeutic community Events	Total	CBT psychoeducation Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Sacks 2008	109	163	118	151	100.0%	0.86 [0.75, 0.98]	
Total (95% CI)		163		151	100.0%	0.86 [0.75, 0.98]	
Total events	109		118				
Heterogeneity: Not applicable							
Test for overall effect: Z = 2.23 (P = 0.03)							

0.01 0.1 1 10 100
Favours CBT psychoed. Favours therapeutic comm.

Figure 331: Receiving mental health treatment at follow-up

Study or Subgroup	therapeutic community Events	Total	CBT psychoeducation Events	Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI
Sacks 2008	65	163	63	151	100.0%	0.96 [0.73, 1.25]	
Total (95% CI)		163		151	100.0%	0.96 [0.73, 1.25]	
Total events	65		63				
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.33 (P = 0.74)							

0.01 0.1 1 10 100
Favours CBT psychoed. Favours therapeutic comm.
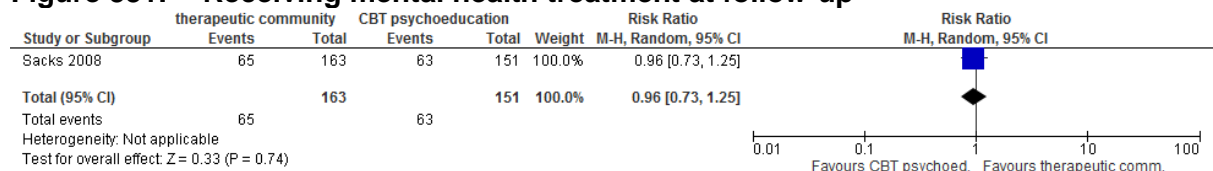
Figure 332: Alcohol use at follow-up

Study or Subgroup	therapeutic community Events	Total	CBT psychoeducation Events	Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI
Sacks 2008	41	163	29	151	100.0%	1.31 [0.86, 2.00]	
Total (95% CI)		163		151	100.0%	1.31 [0.86, 2.00]	
Total events	41		29				
Heterogeneity: Not applicable							
Test for overall effect: Z = 1.26 (P = 0.21)							

0.01 0.1 1 10 100
Favours therapeutic comm. Favours CBT psychoed.
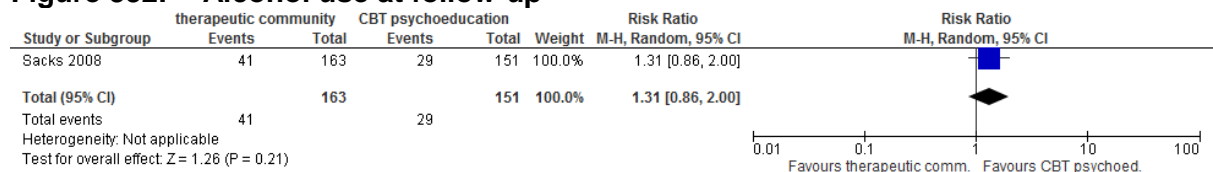
Figure 333: Frequency of drug use

Study or Subgroup	therapeutic community Mean	SD	Total	CBT psychoeducation Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI	Mean Difference IV, Random, 95% CI
Sacks 2008	1.09	2.44	111	1.51	2.76	95	100.0%	-0.42 [-1.14, 0.30]	
Total (95% CI)			111			95	100.0%	-0.42 [-1.14, 0.30]	
Heterogeneity: Not applicable									
Test for overall effect: Z = 1.15 (P = 0.25)									

-4 -2 0 2 4
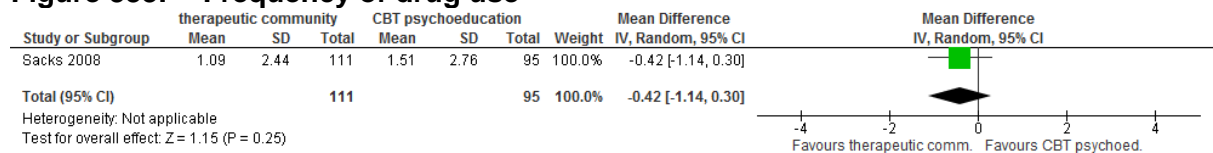Favours therapeutic comm. Favours CBT psychoed.

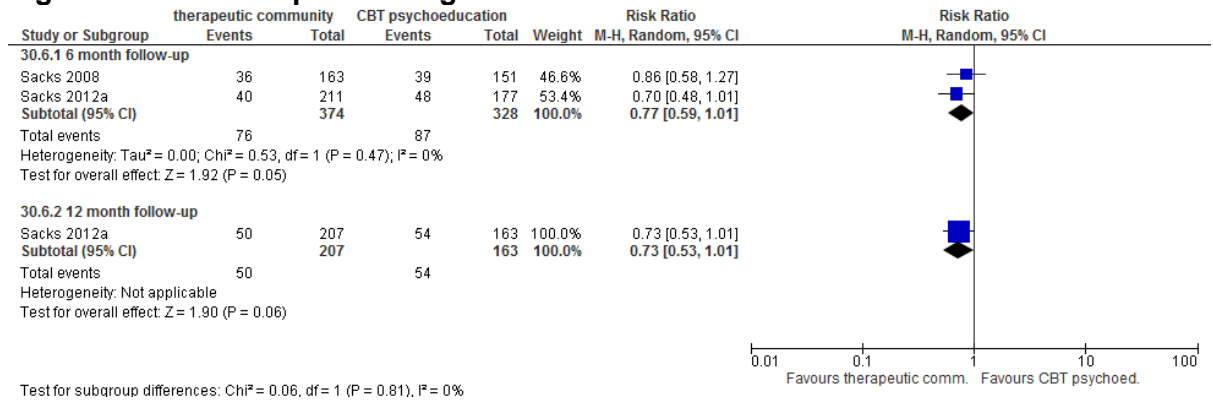**Figure 334:   Self-reported drug use**

Figure 335:   Re-arrest at follow-up
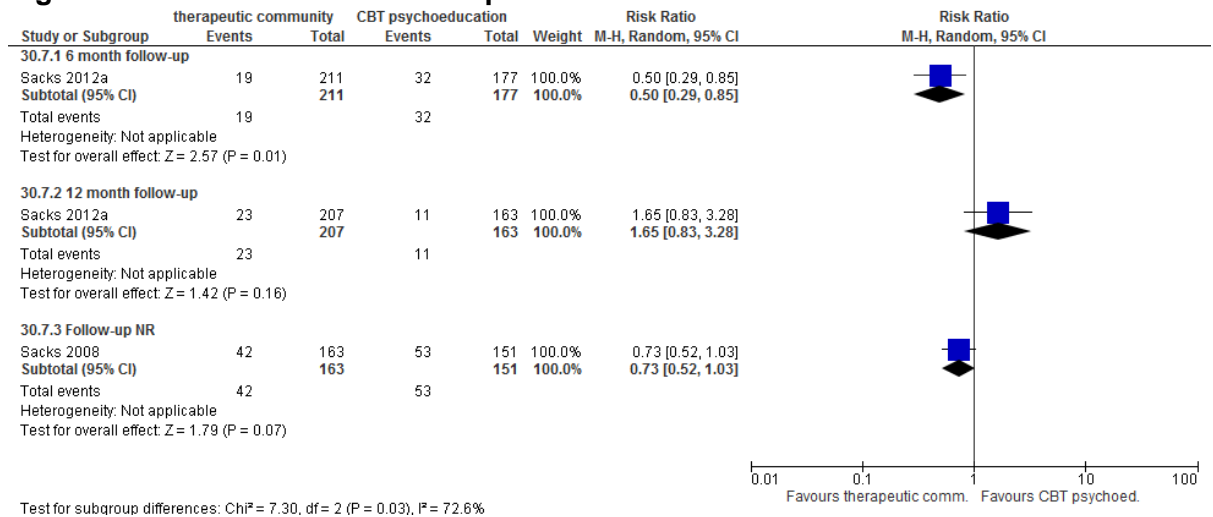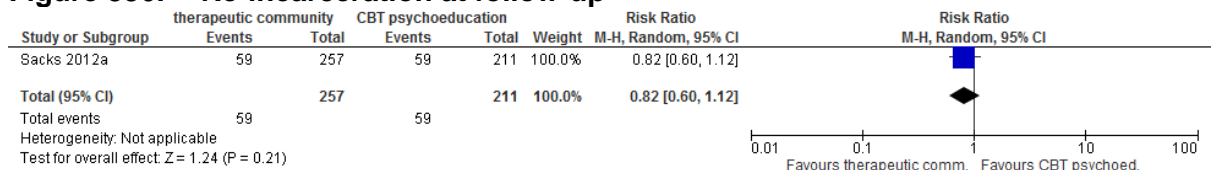

Figure 336:   Re-incarceration at follow-up

O.7.14.7   Re-entry modified therapeutic community versus treatment as usual

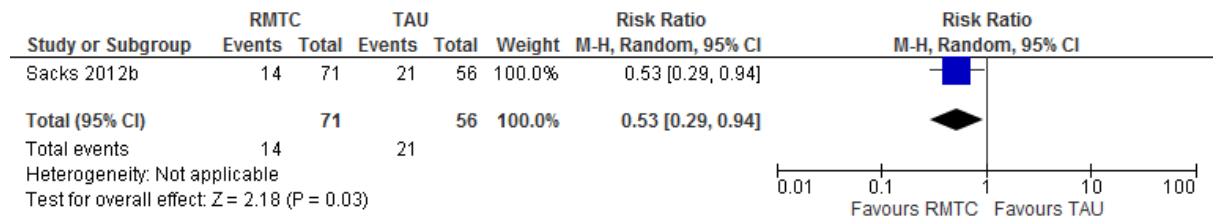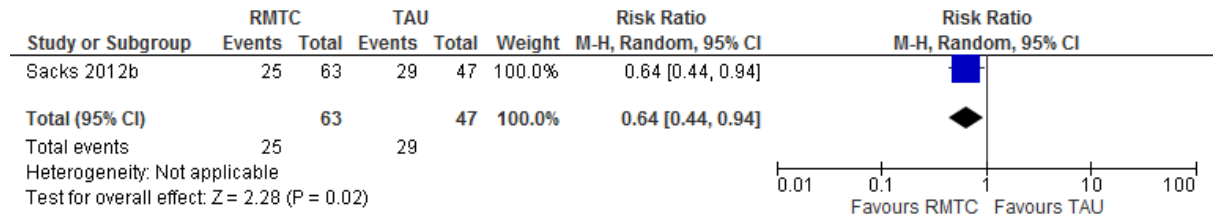**Figure 337:   Re-incarceration at 12-month follow-up**

Figure 338: Criminal activity

Figure 339: Alcohol/drug offences