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¹ Each study included in this appendix is referred to by a study ID, with studies included in the previous guideline in lower case and new studies in upper case (primary author and date or study number for unpublished trials). Study IDs marked with an asterisk used a multimodal intervention.

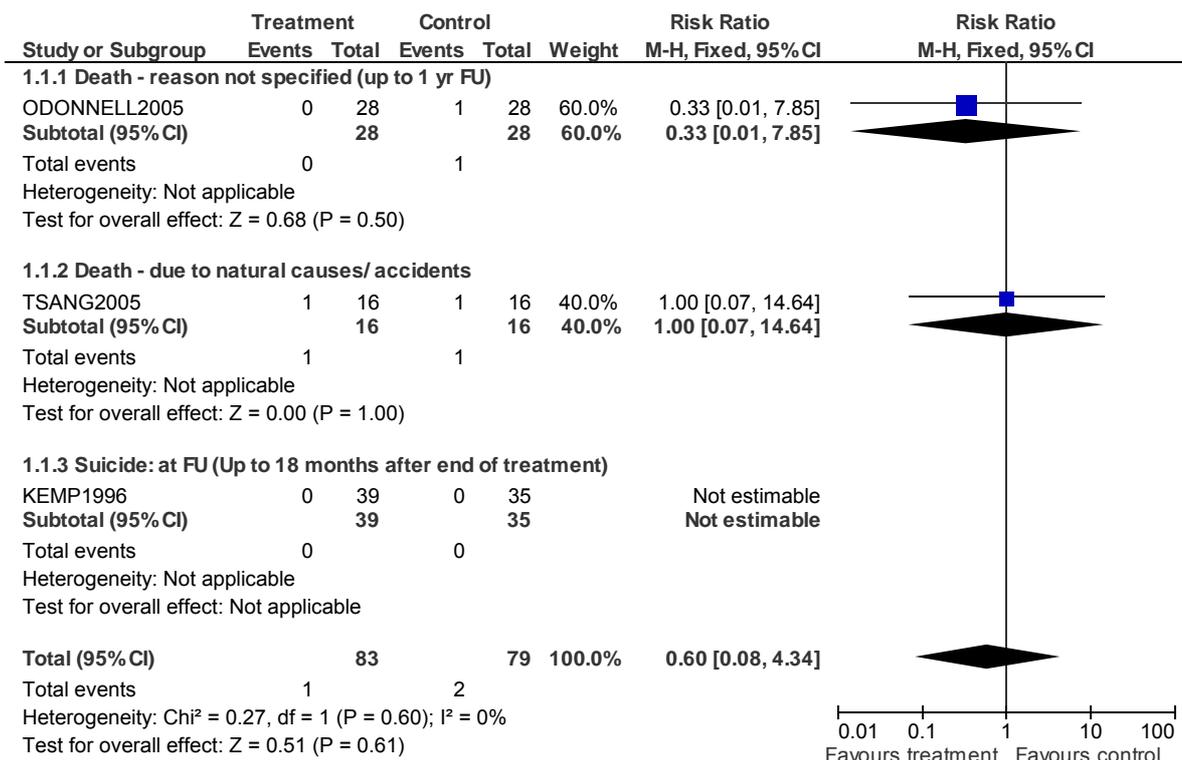
Table 1: Studies included in the adherence therapy review

Intervention	versus Comparator
	Any control
Adherence therapy	GRAY2006 KEMP1996 MANEESAKORN2007 ODONNELL2003 TSANG2005

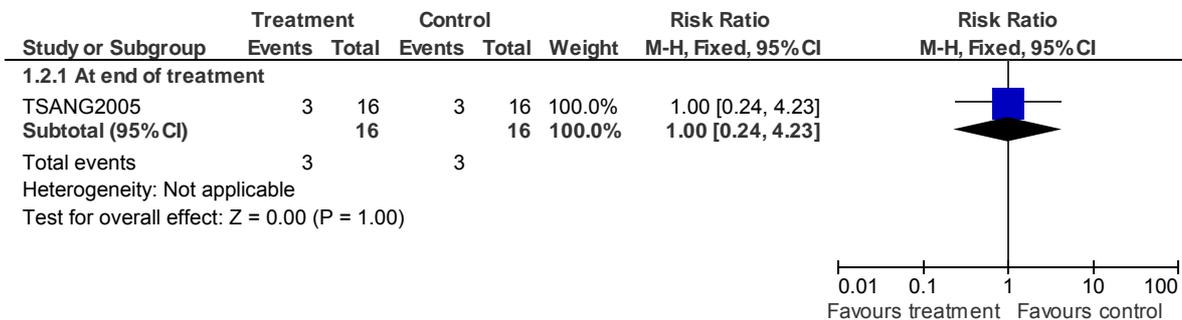
Psychological clinical evidence: Adherence therapy

1 Adherence therapy versus any control

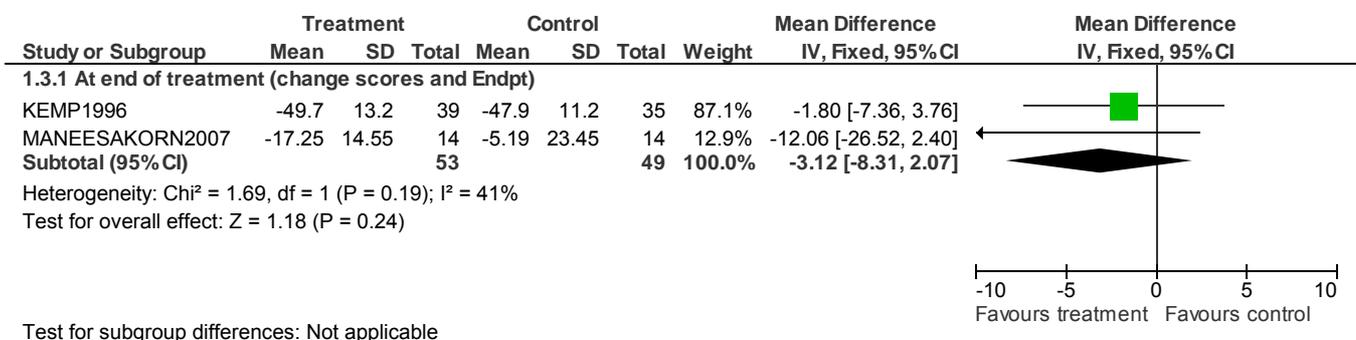
1.1 Mortality



1.2 Global state: 1. Relapse / psychotic deterioration

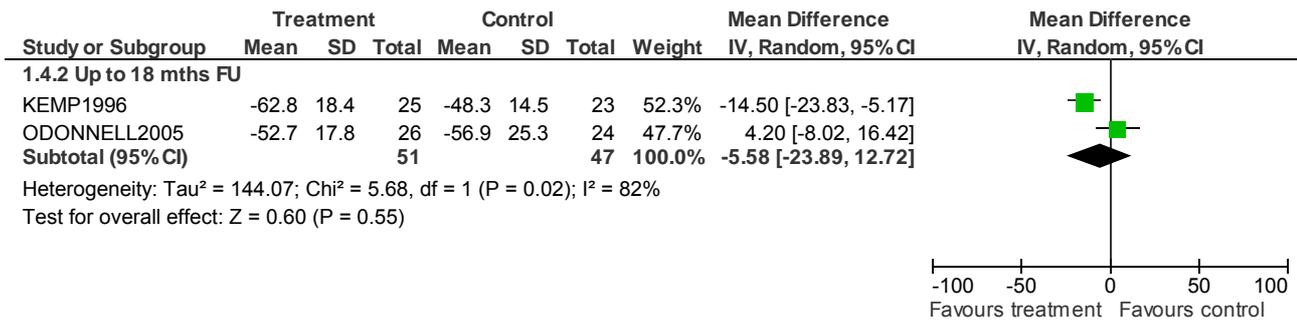


1.3 Global State: 2. Global functioning, GAF (signs reversed)

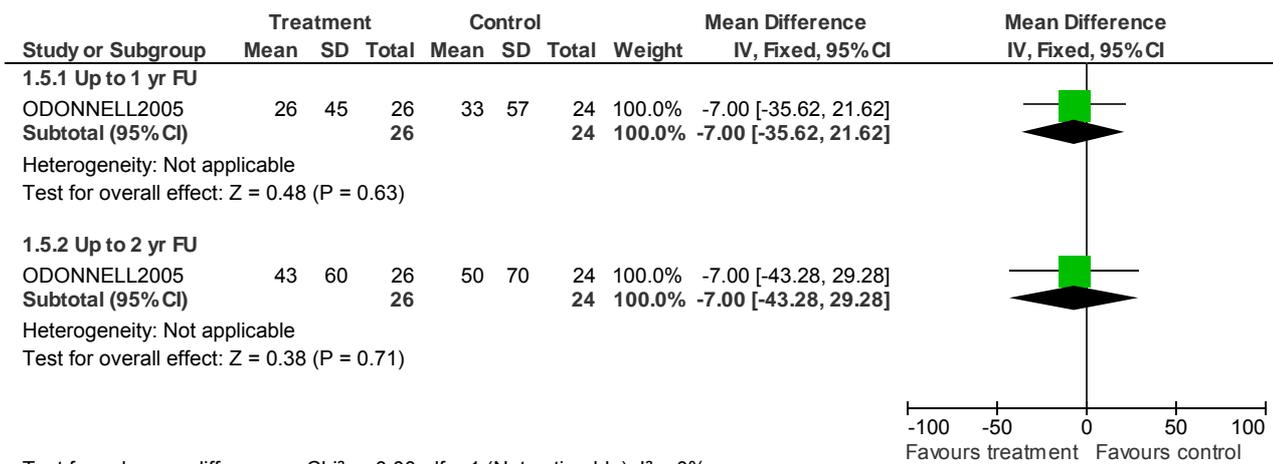


Psychological clinical evidence: Adherence therapy

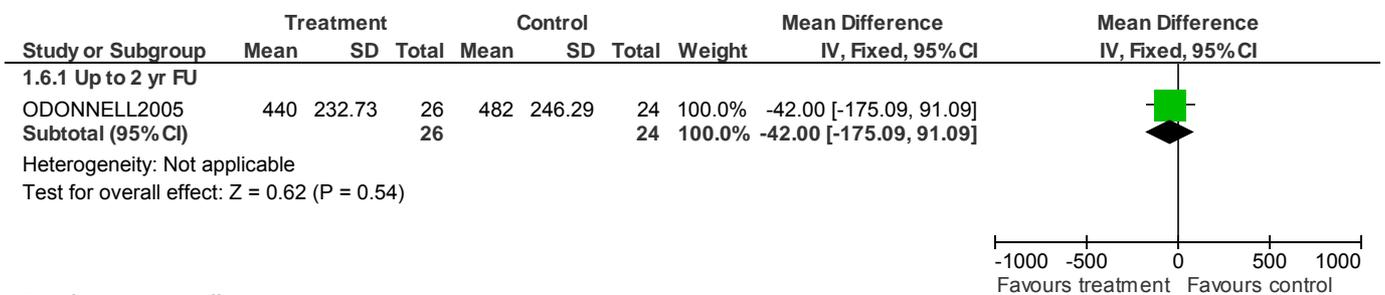
1.4 Global State: 2. Global functioning, GAF (signs reversed)



1.5 Service outcome: 1. Mean number of bed days

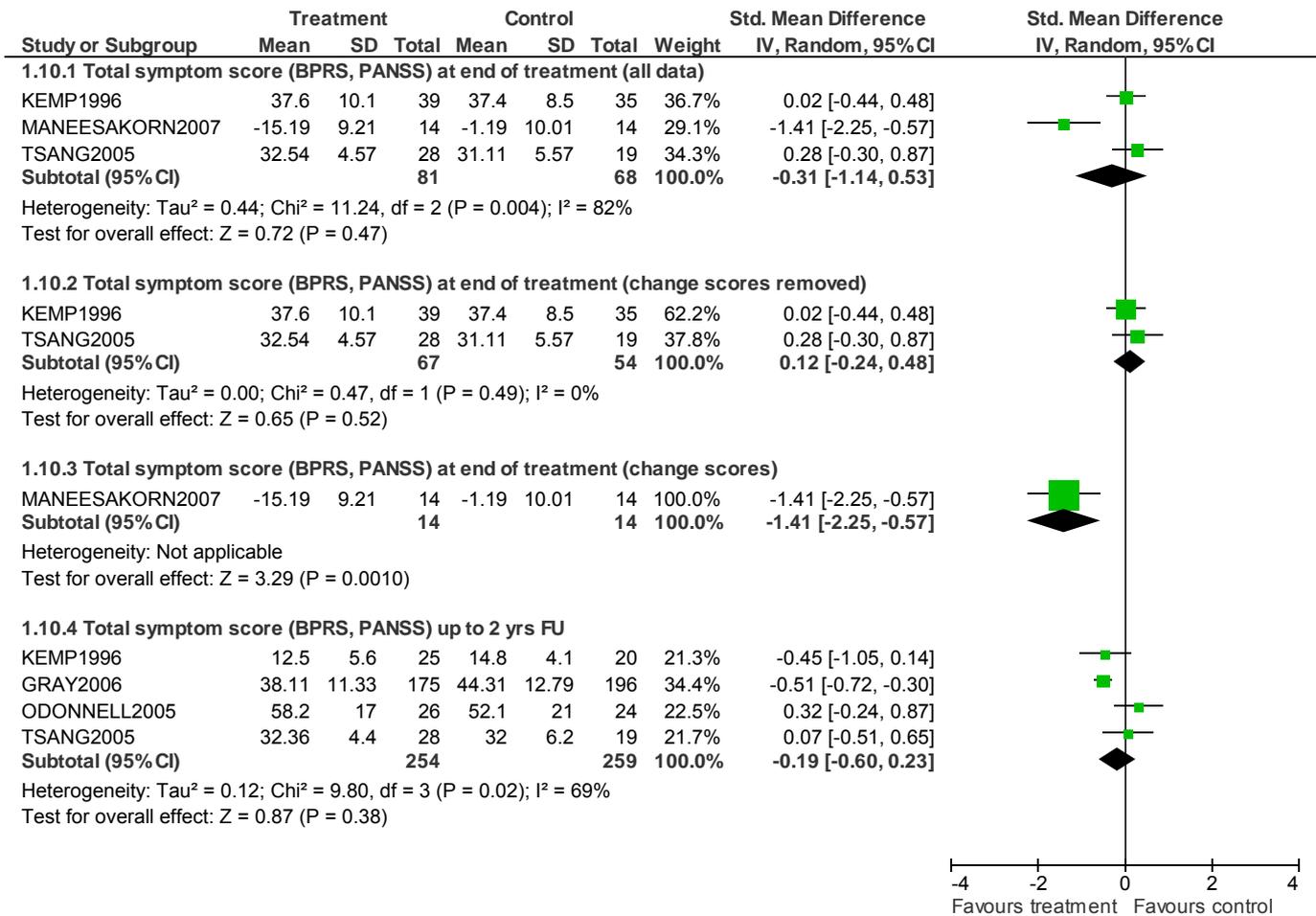


1.6 Service outcome: 2. Days to hospitalisation

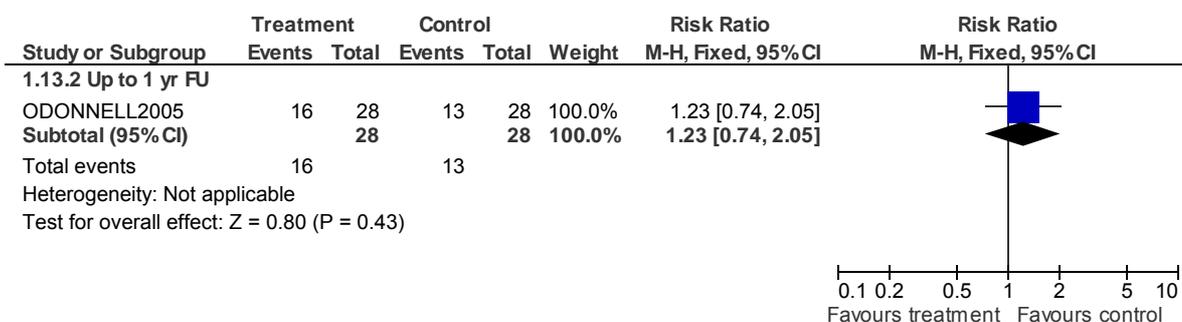


Psychological clinical evidence: Adherence therapy

1.10 Mental state: 1. Continuous measures - Total symptom score (lower = better)

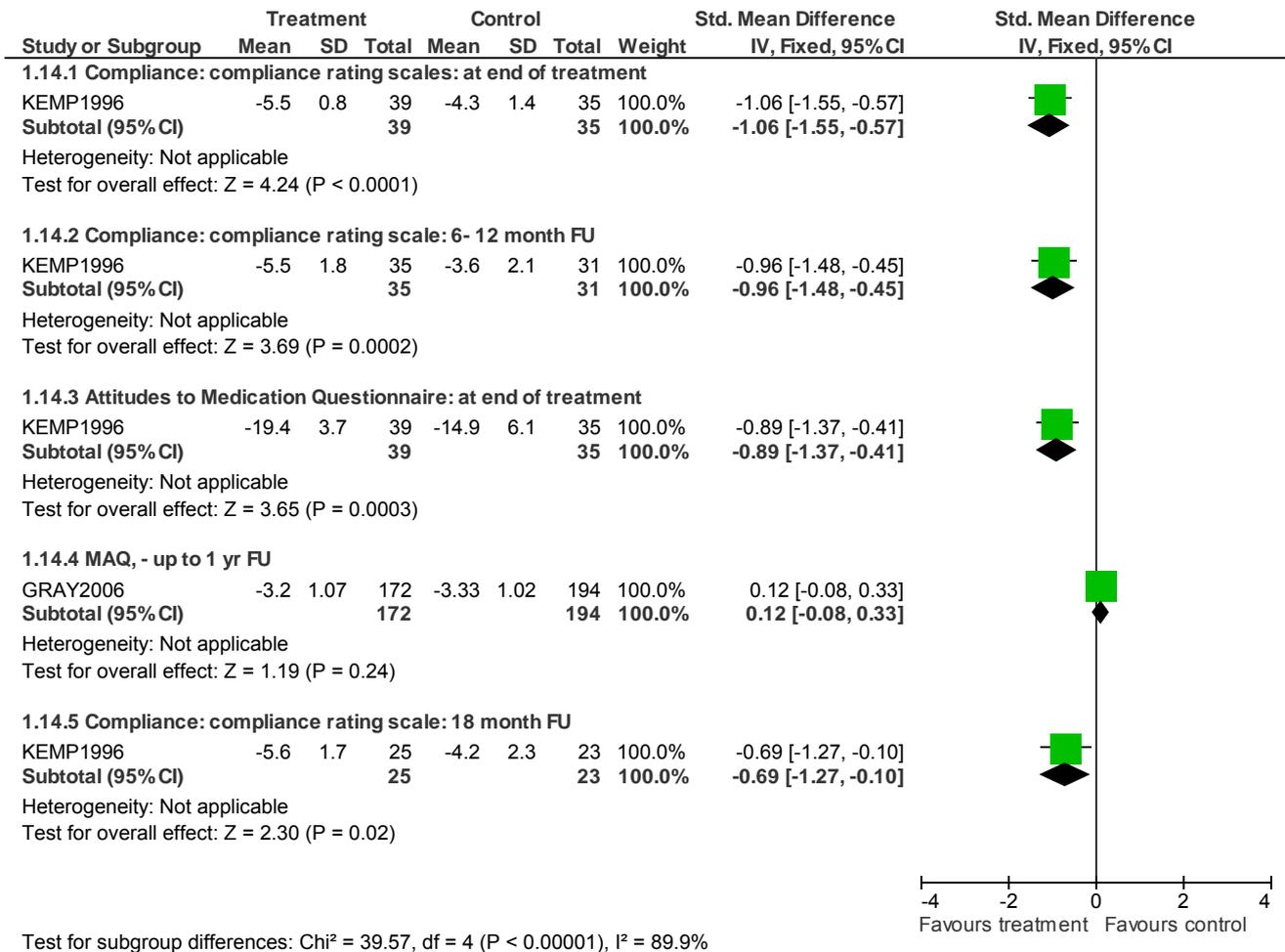


1.13 Adherence: 1. Non-adherent (as measured in clinical interview)



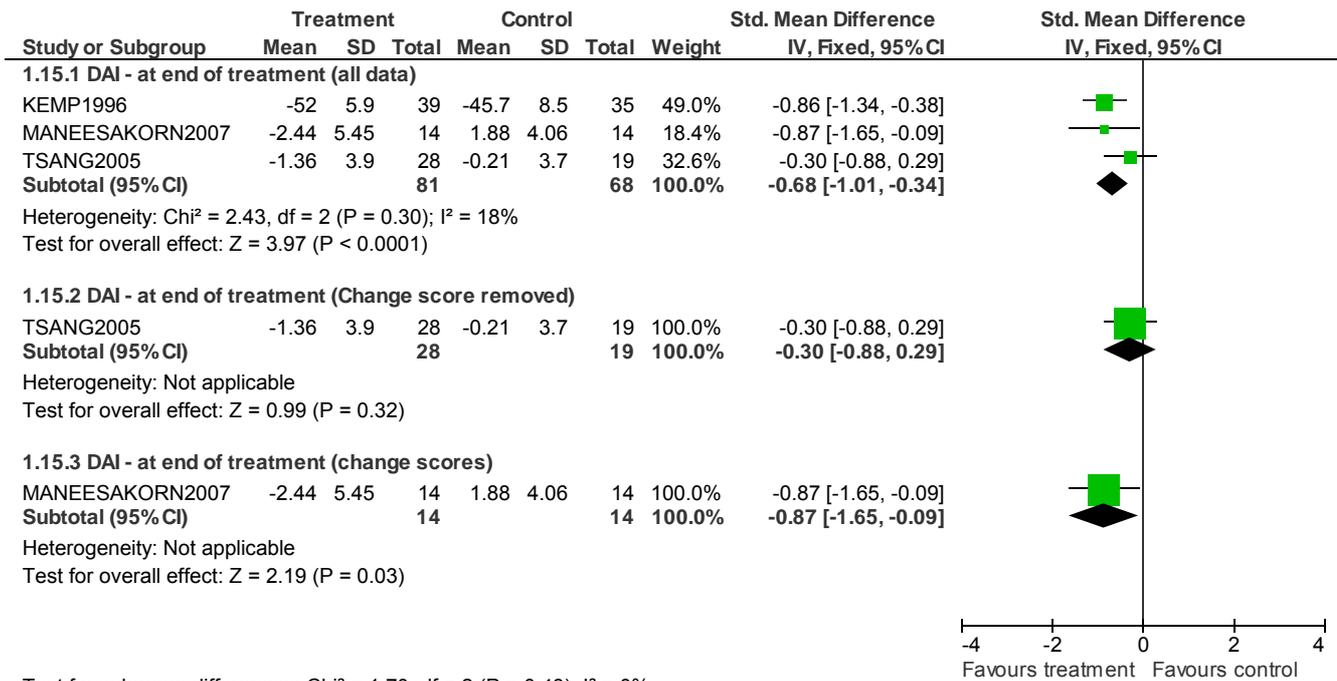
Psychological clinical evidence: Adherence therapy

1.14 Adherence: 2. MAQ, Kemp rating scale (signs reversed)

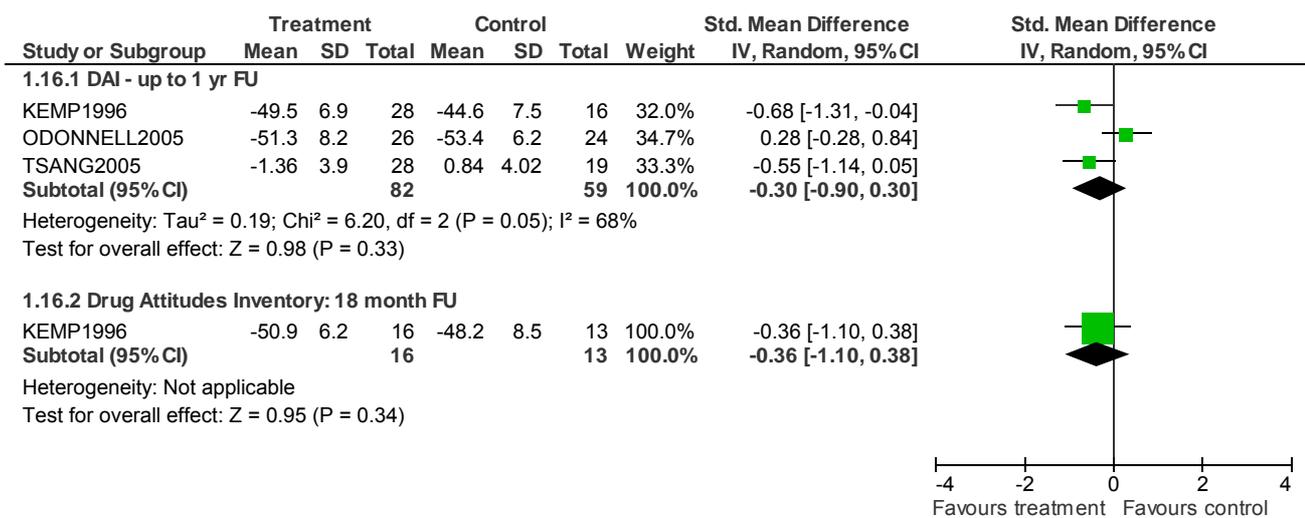


Psychological clinical evidence: Adherence therapy

1.15 Attitudes to treatment (DAI) (signs reversed)

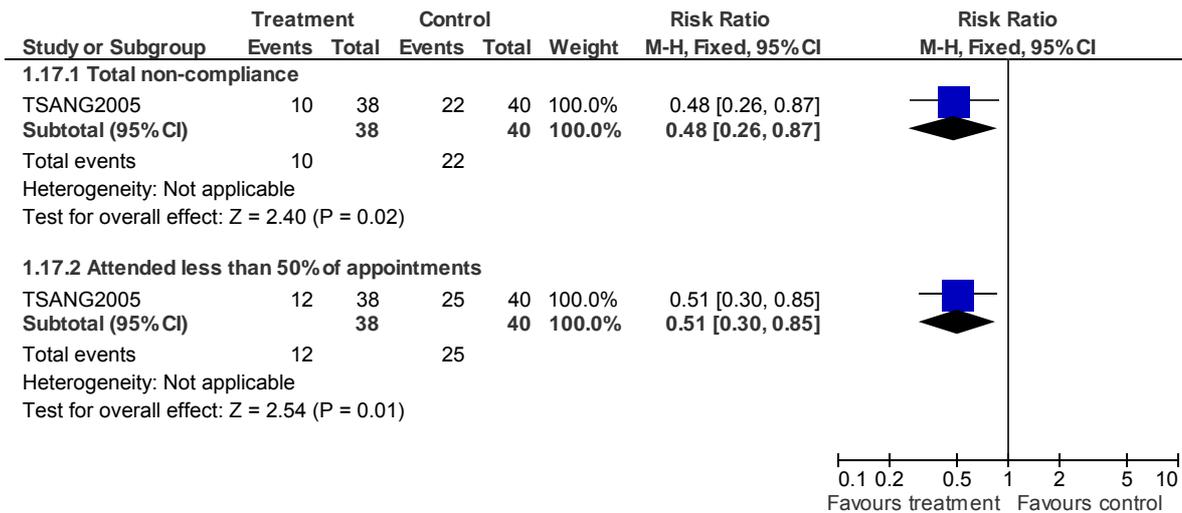


1.16 Attitudes to treatment (DAI) (signs reversed)

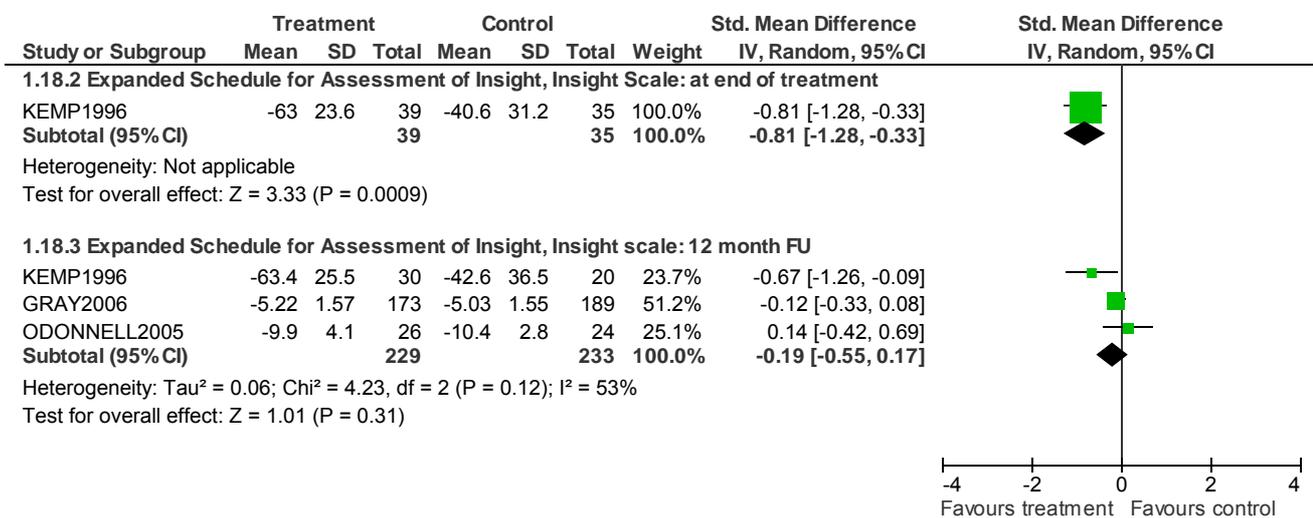


Psychological clinical evidence: Adherence therapy

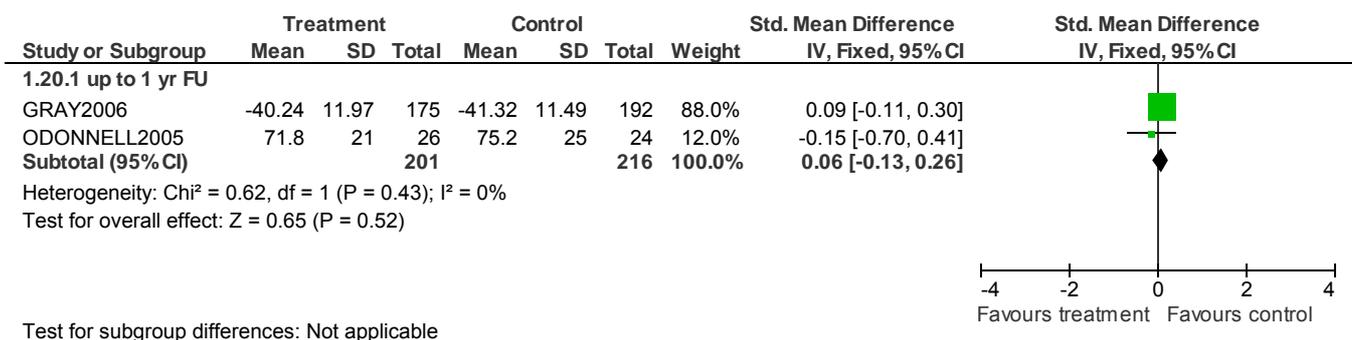
1.17 Non-compliance with follow up appointments (worst case scenario)



1.18 Insight: 1. SAI-C, SAI, Expanded SAI (signs reversed)

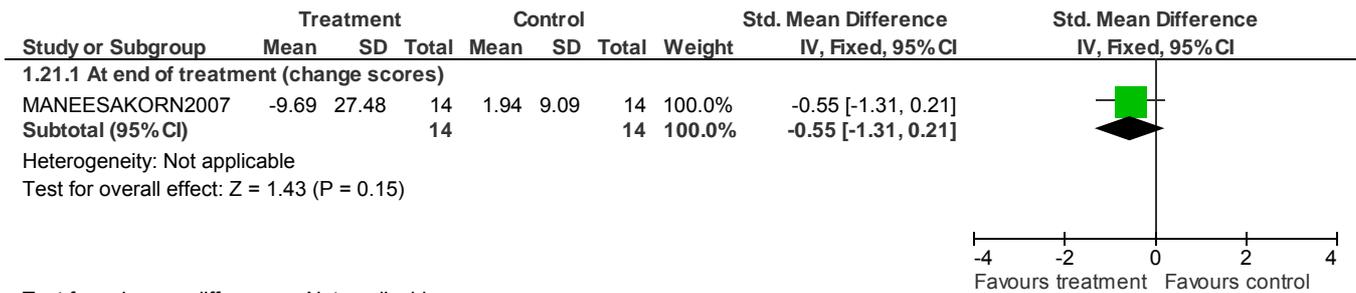


1.20 Quality of Life: 1. SF36, QLS (signs reversed where appropriate)

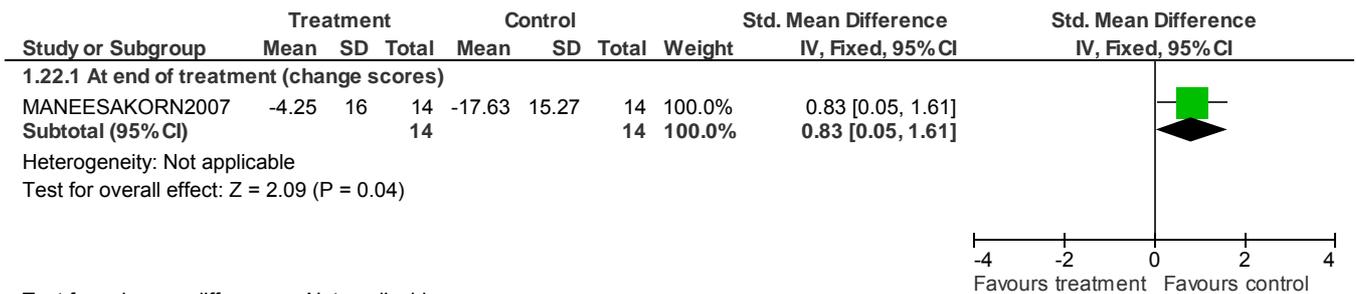


Psychological clinical evidence: Adherence therapy

1.21 Satisfaction with antipsychotic medication - SWAM (signs reversed)



1.22 Side effect rating scale - LUNSERS (lower = better)



1.25 Treatment acceptability: 1. Leaving the study early for any reason

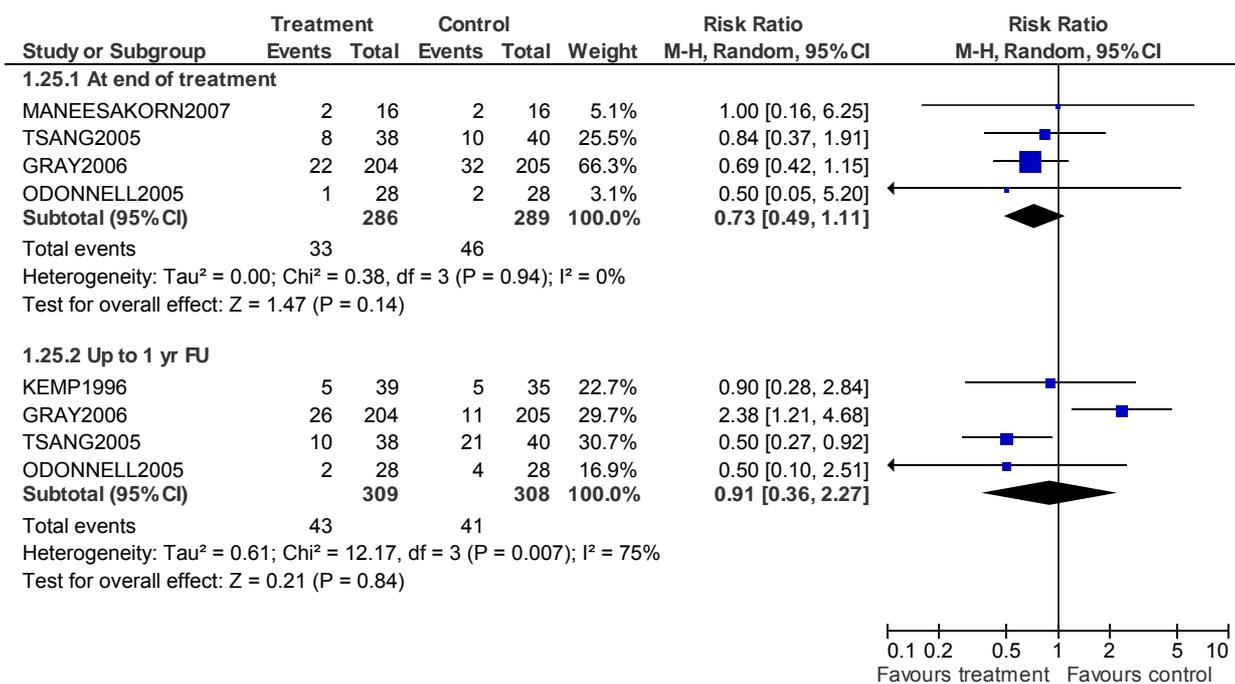


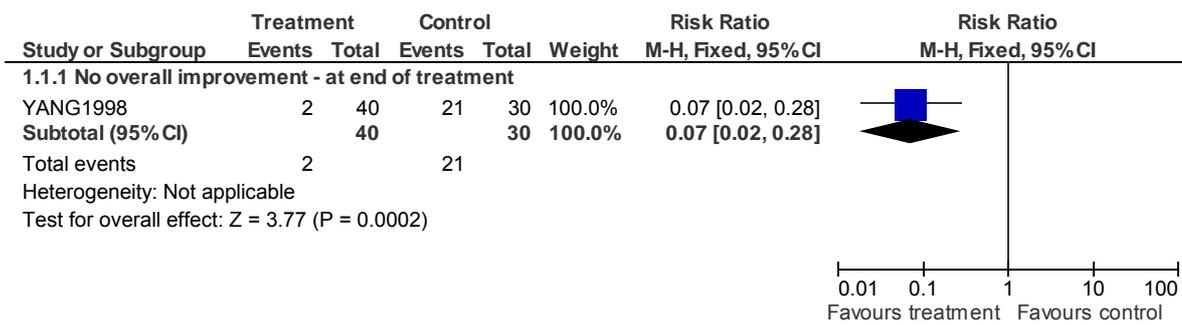
Table 2: Studies included in the arts therapies review

Intervention	versus Comparator
	Any control
Arts therapies	GREEN1987 RICHARDSON2007 ROHRICHT2006 TALWAR2006 ULRICH2007 YANG1998

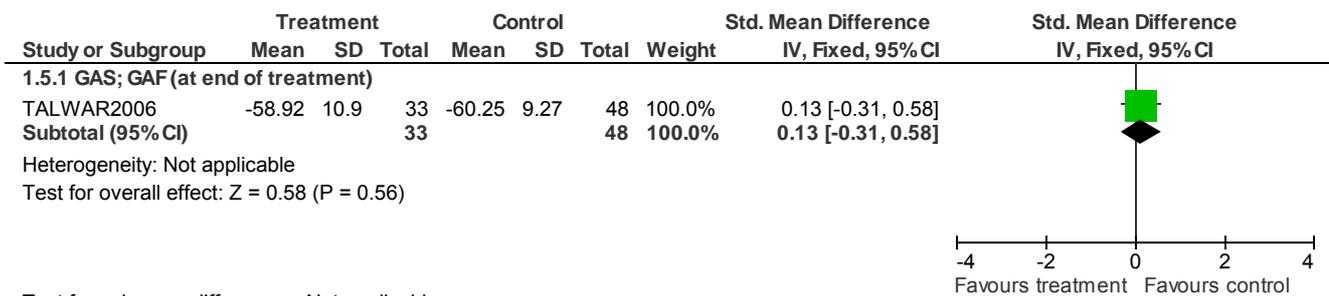
Psychological clinical evidence: Arts therapies

1 Arts therapies versus any control

1.1 Global State: No overall improvement (less than 30% reduction in scores)



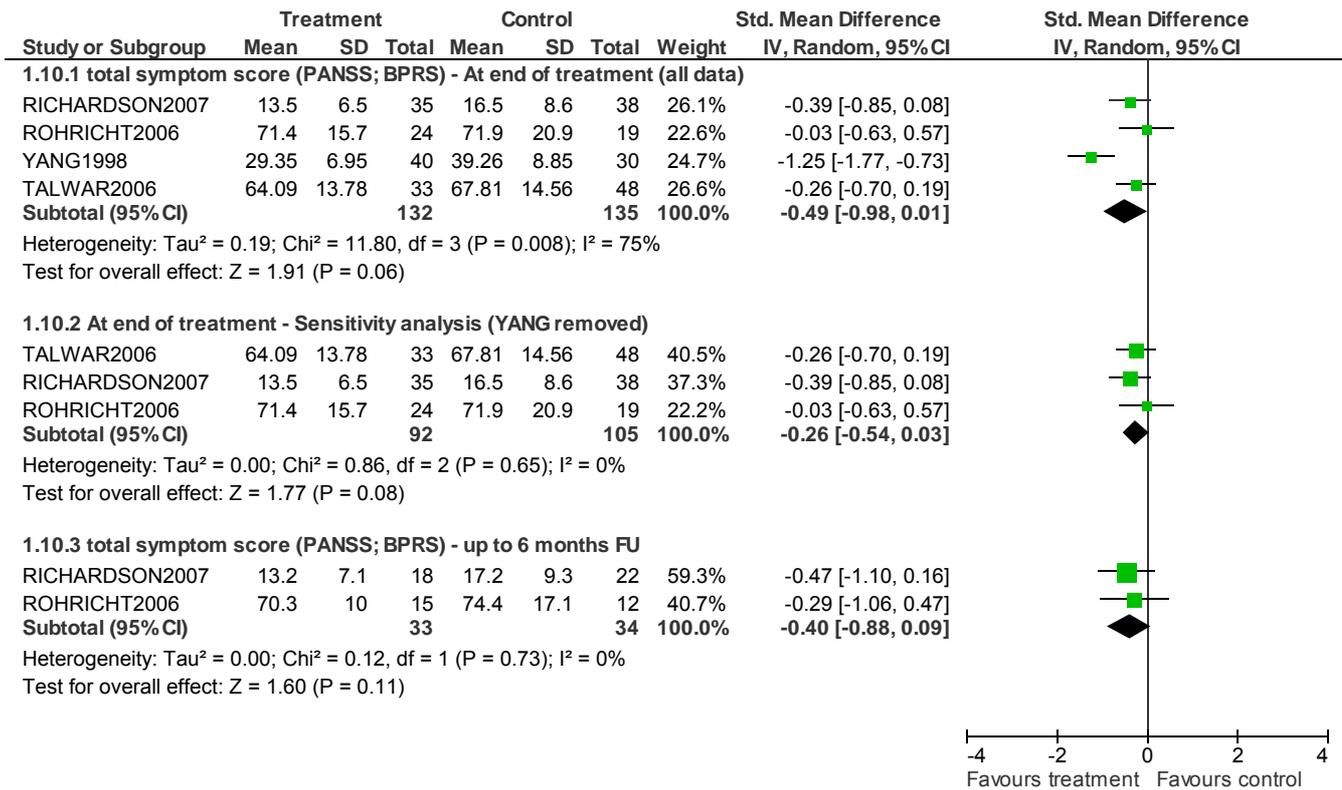
1.5 Global state: GAF; GAS (signs reversed)



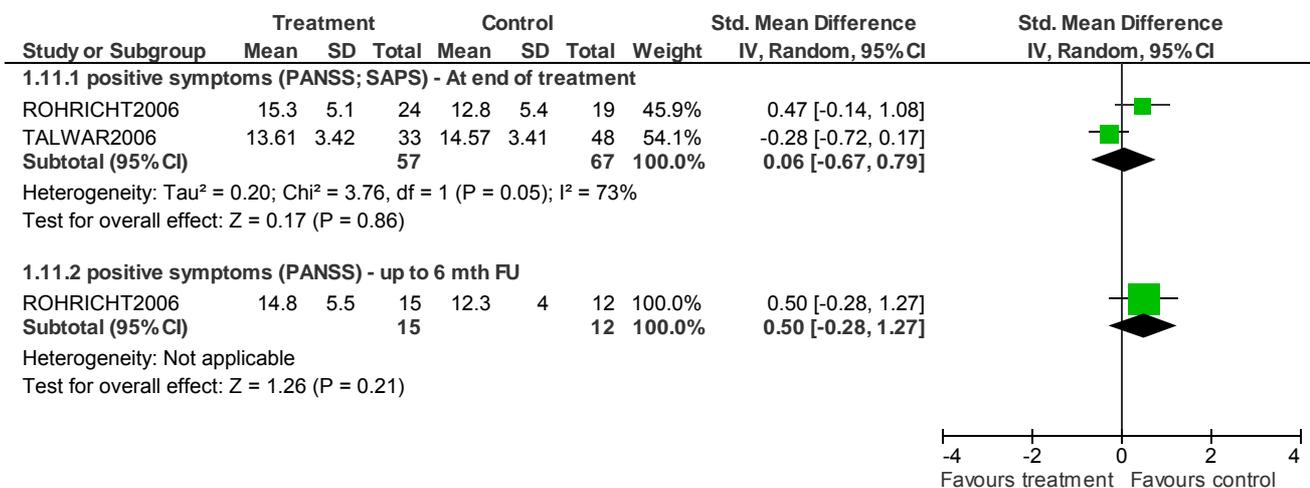
Test for subgroup differences: Not applicable

Psychological clinical evidence: Arts therapies

1.10 Mental state: 1. Continuous measures - total symptom score (lower=better)

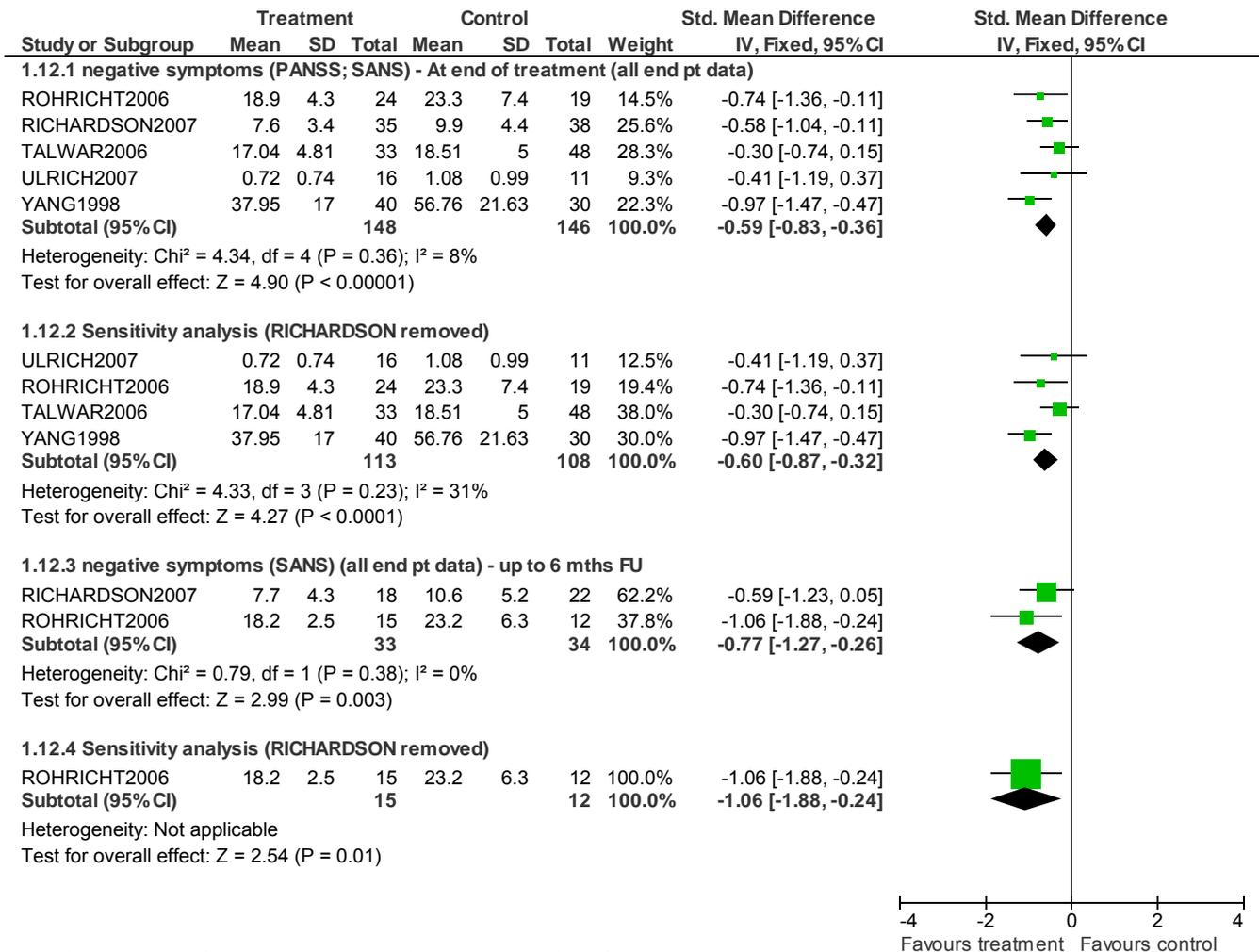


1.11 Mental state: 2. Continuous measures - positive symptoms (lower=better)

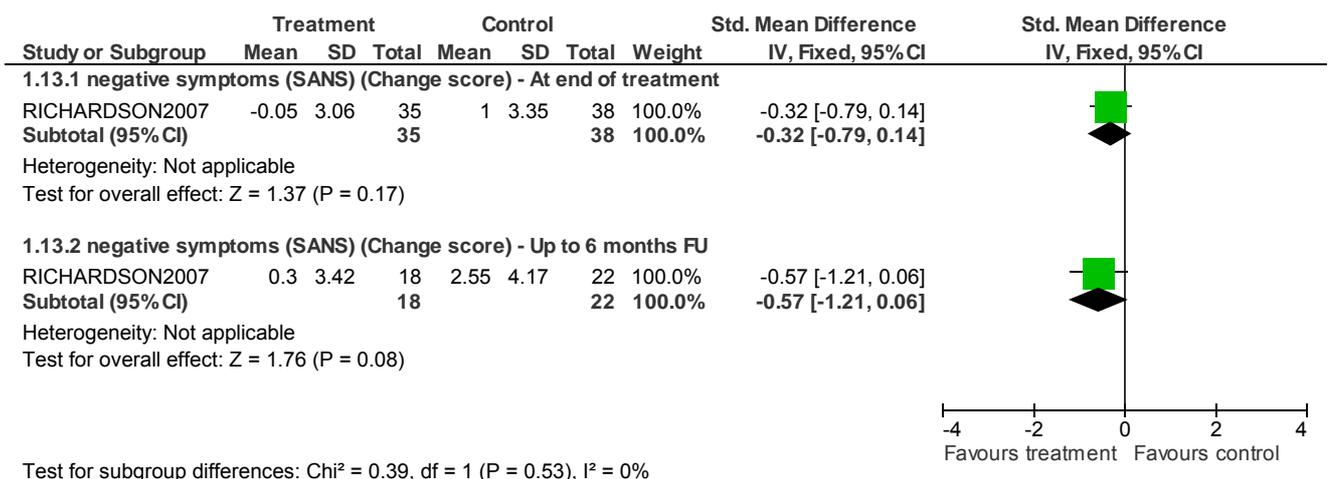


Psychological clinical evidence: Arts therapies

1.12 Mental state: 3. Continuous measures - negative symptoms (lower=better)

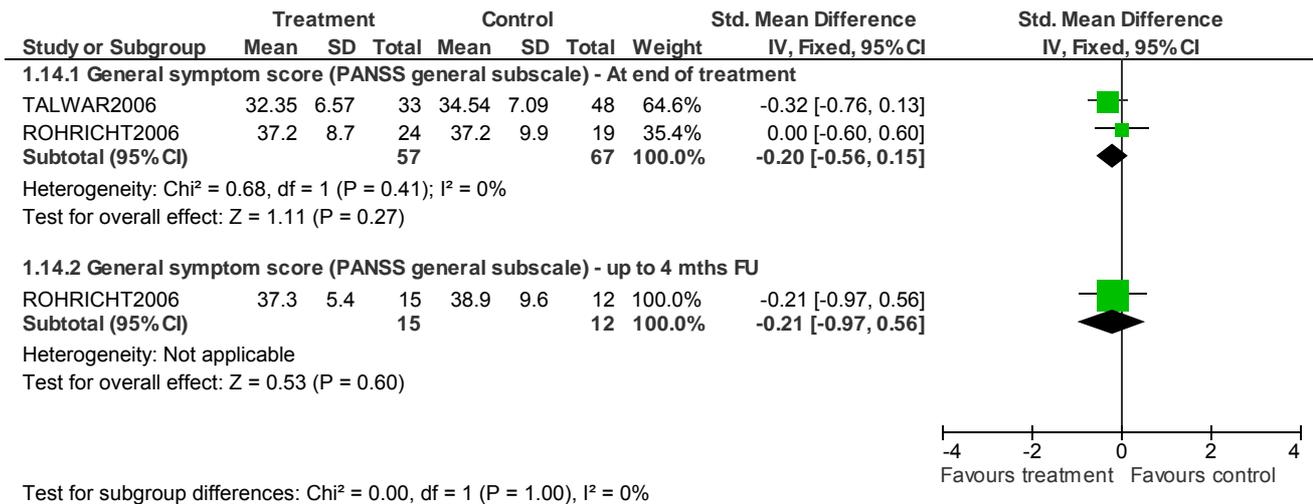


1.13 Mental state: 3. Continuous measures - negative symptoms (change scores)

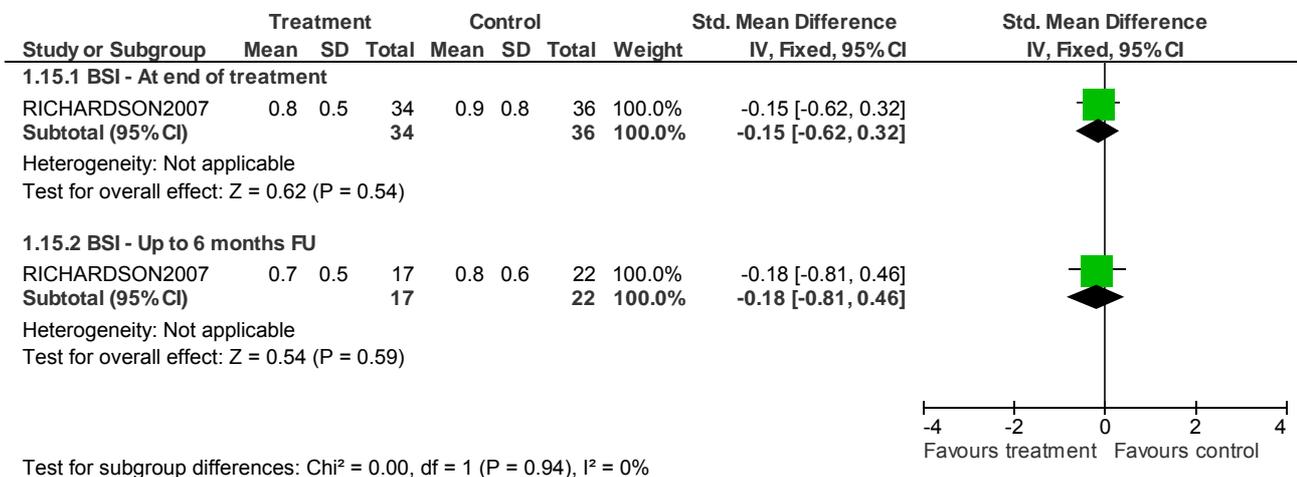


Psychological clinical evidence: Arts therapies

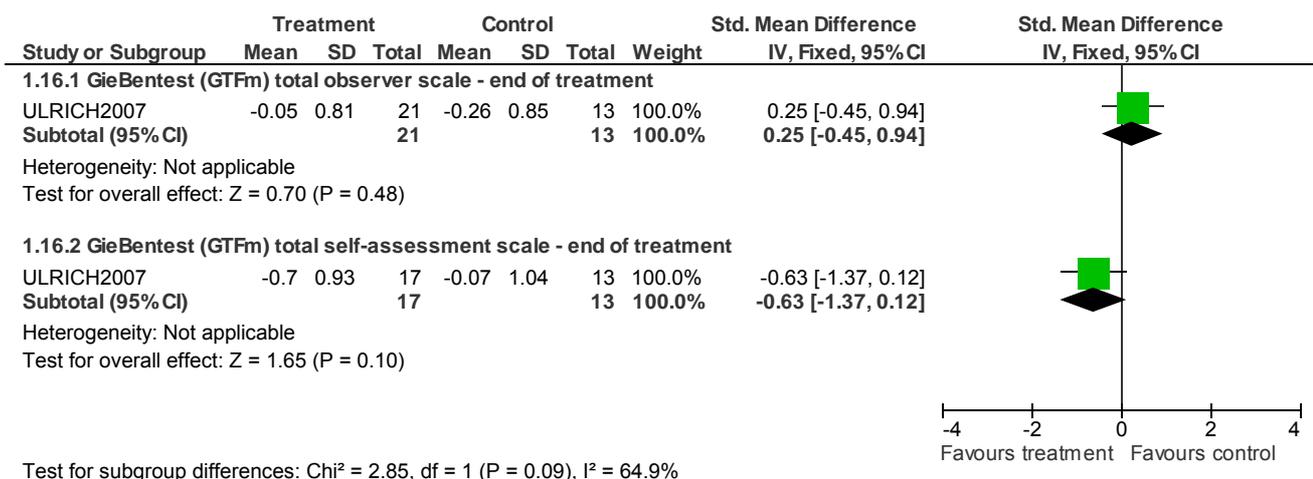
1.14 Mental state: 4. Continuous measures - general symptoms (lower=better)



1.15 Mental state: 5. Continuous measures - Brief Symptom Inventory (lower = better)

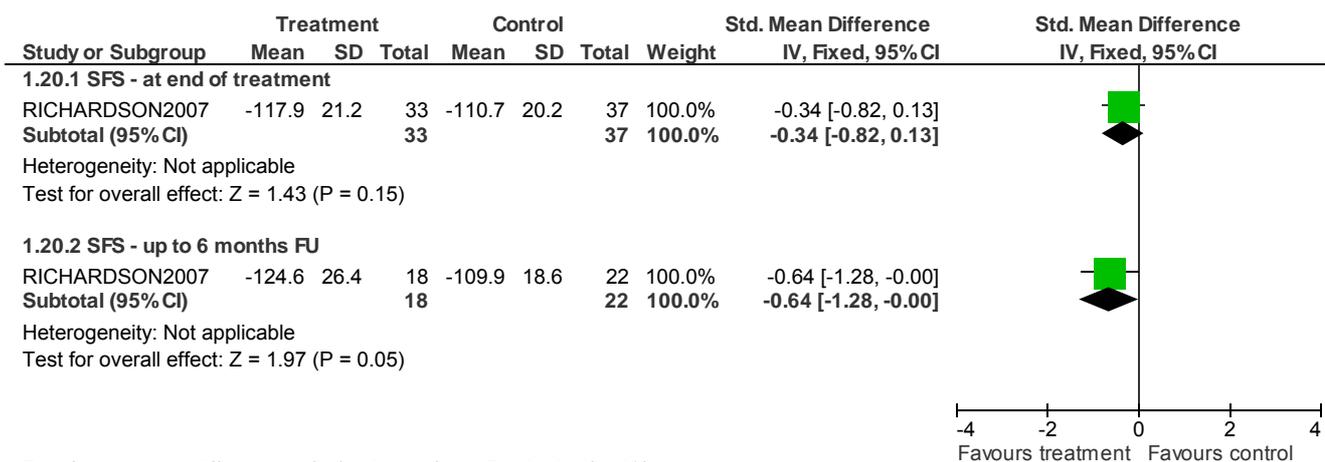


1.16 Mental state: 6. Other - GTFm total (signs reversed)

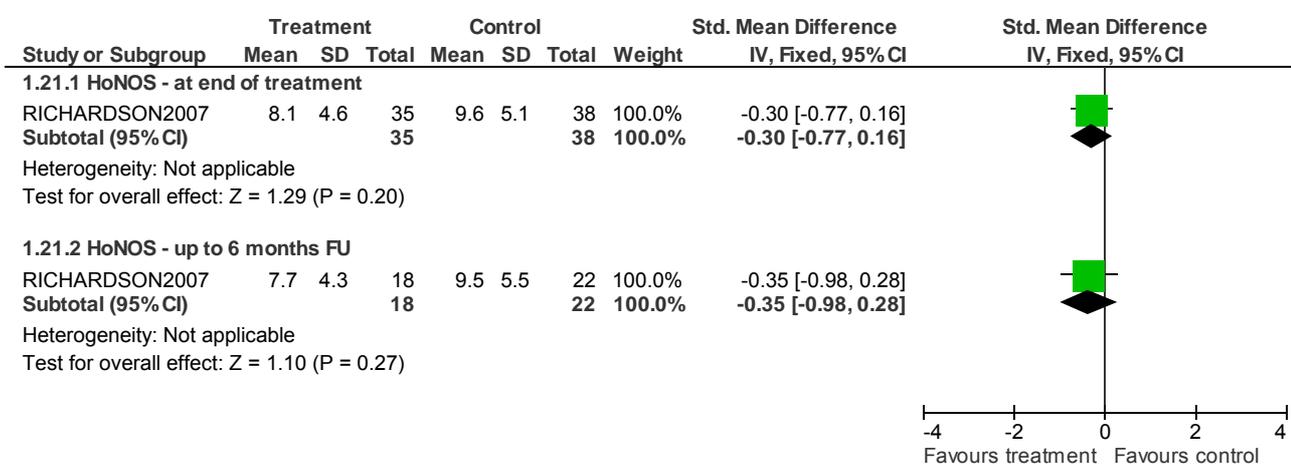


Psychological clinical evidence: Arts therapies

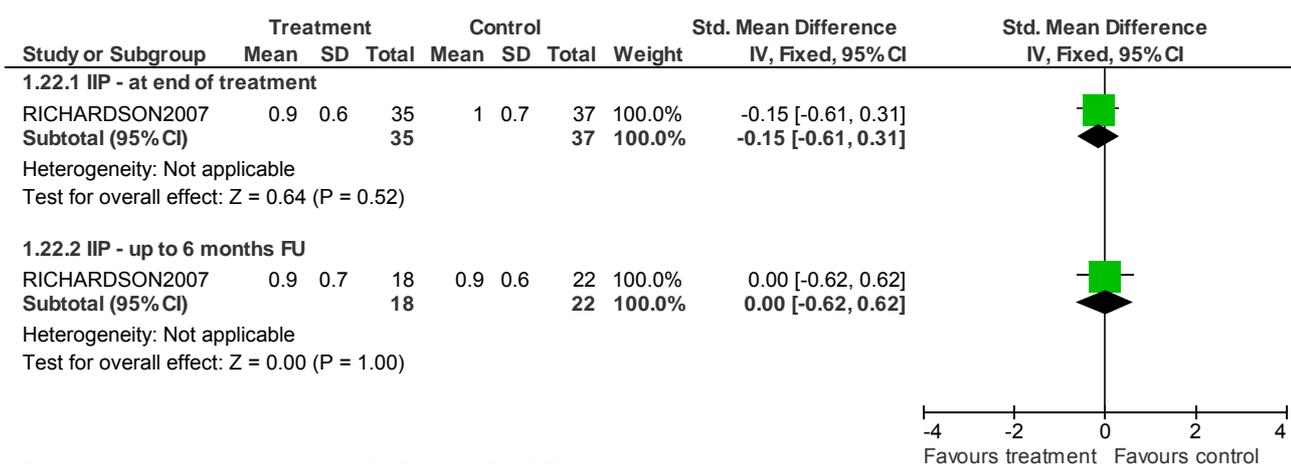
1.20 Psychosocial functioning: 1. Social functioning Scale (Signs reversed)



1.21 Psychosocial functioning: 2. HoNOS (lower=better)

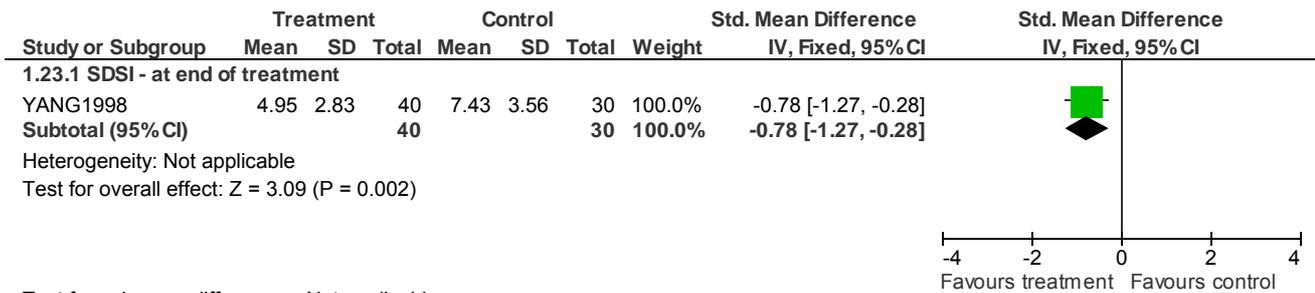


1.22 Psychosocial functioning: 3. IIP (lower=better)

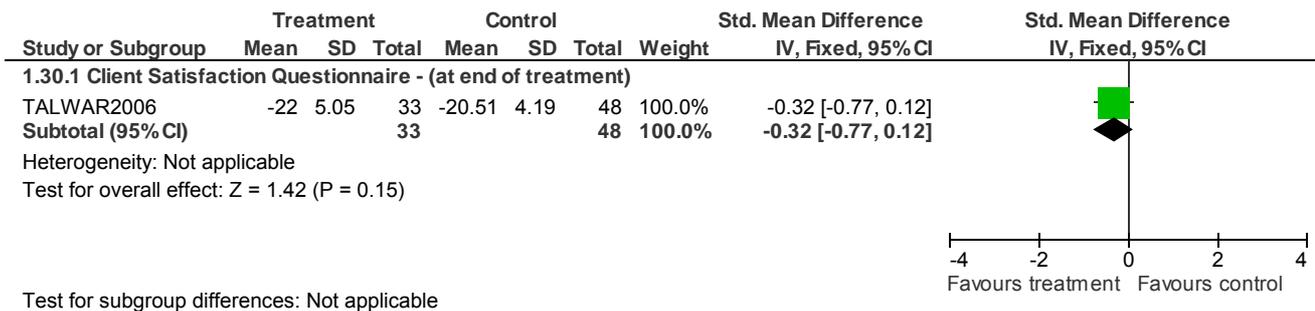


Psychological clinical evidence: Arts therapies

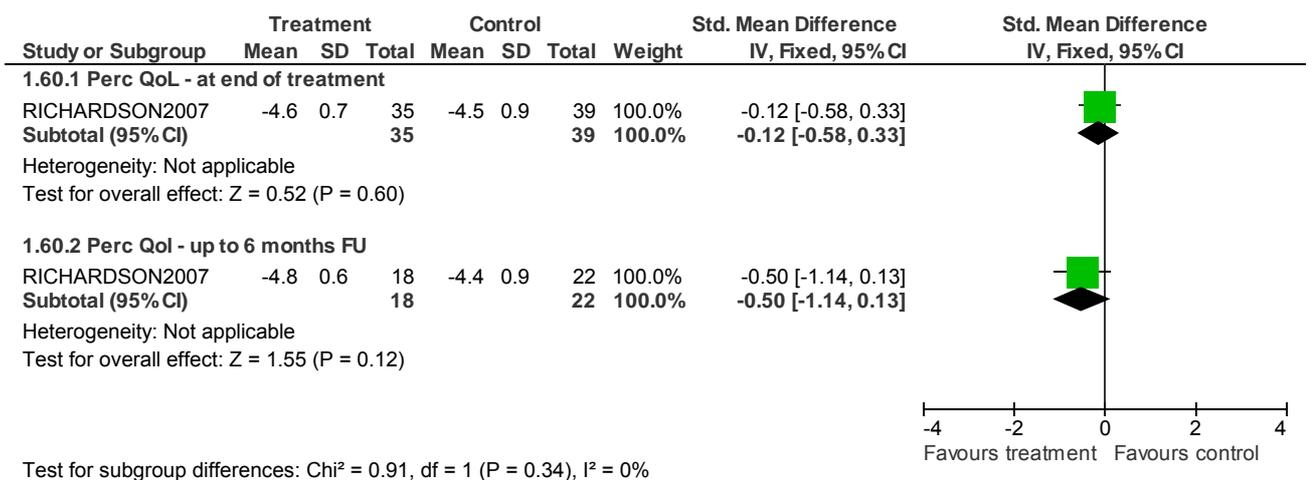
1.23 Psychosocial functioning: 4. Social Disability Schedule for In-patients (lower=better)



1.30 Satisfaction with Treatment: 1. Service user satisfaction (signs reversed)

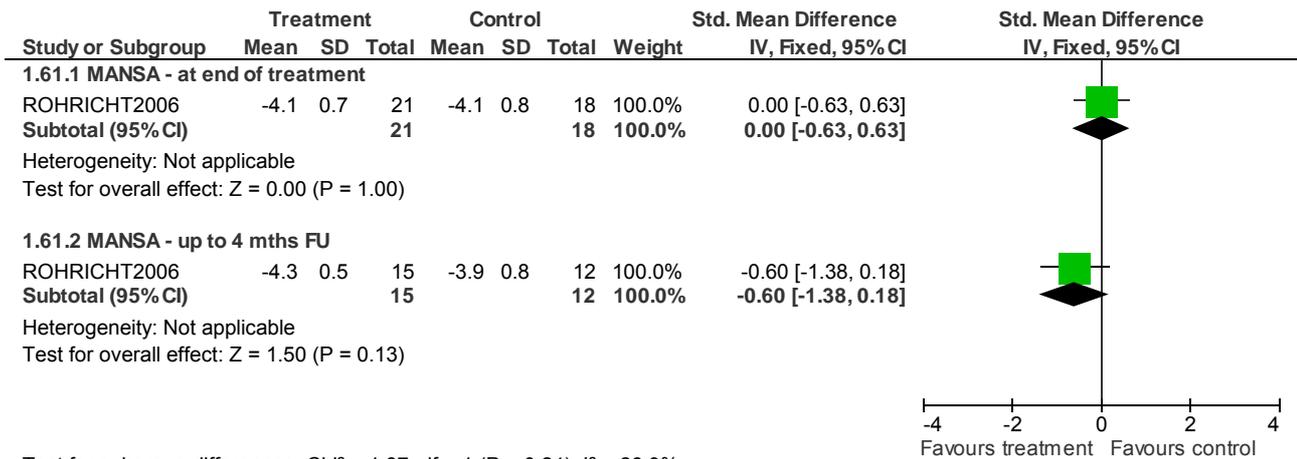


1.60 Quality of Life: 1. Perc QoL (signs reversed)

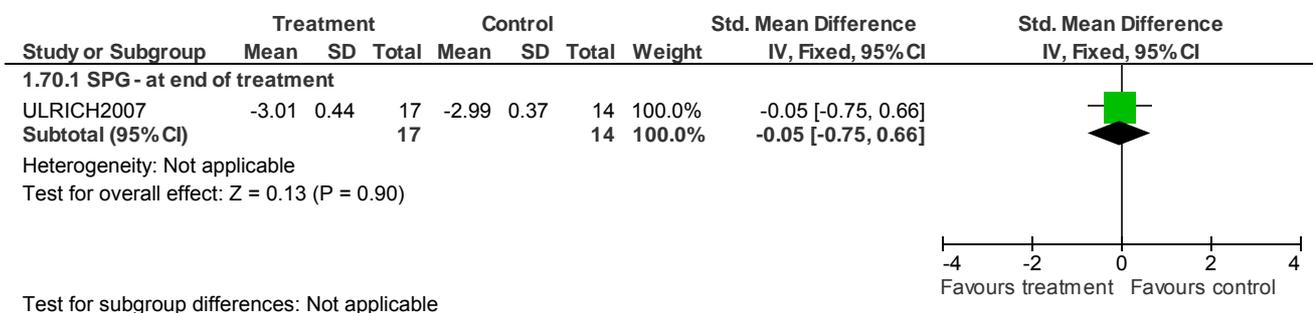


Psychological clinical evidence: Arts therapies

1.61 Quality of Life: 2. MANSAs (signs reversed)

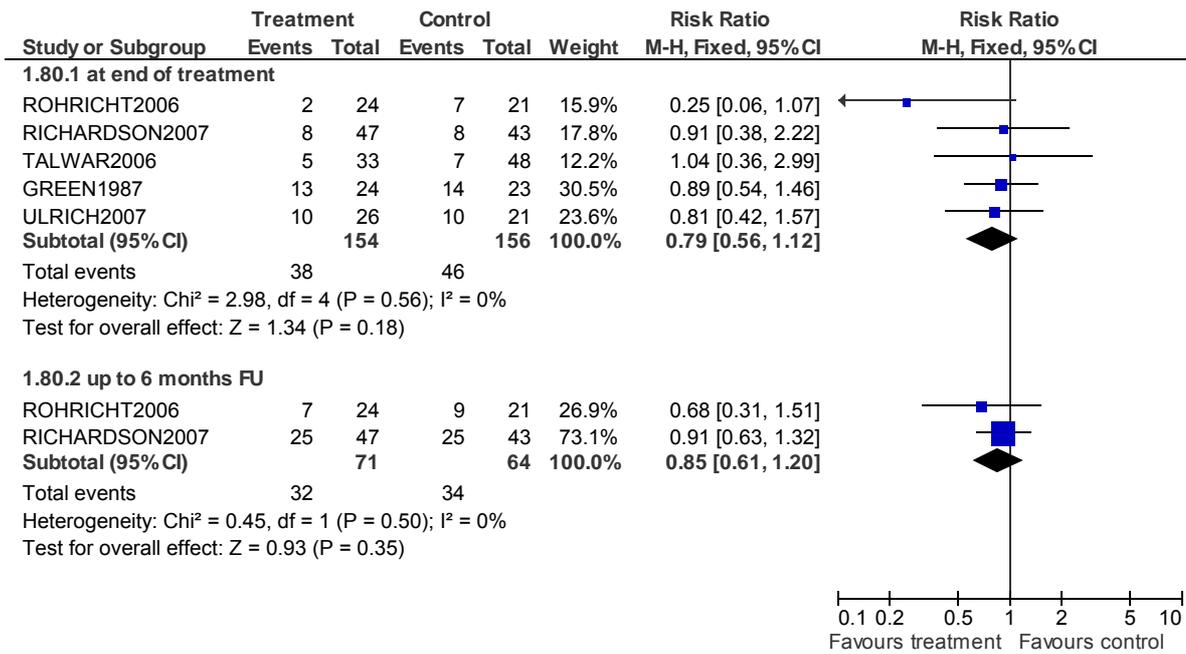


1.70 Other: Scales for Mental Health (SPG) (signs reversed)



Psychological clinical evidence: Arts therapies

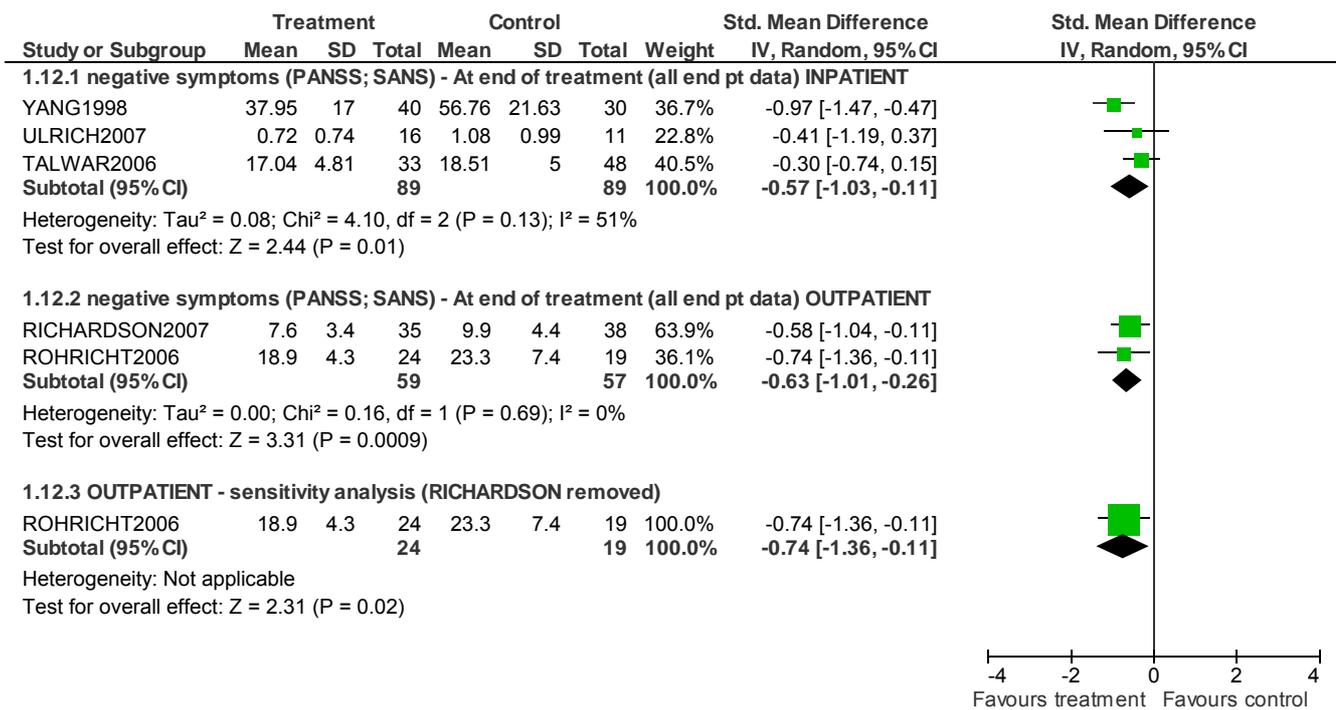
1.80 Treatment acceptability: 1. Leaving the study early



Psychological clinical evidence: Arts therapies (subgroup analyses)

1 Arts therapies versus any control - subgroup analysis by setting

1.12 Mental state: 3. Continuous measures - negative symptoms (lower = better)



2 Arts therapies versus any control - subgroup analysis by treatment modality

Psychological clinical evidence: Arts therapies (subgroup analyses)

2.12 Mental state: 3. Continuous measures - negative symptoms (lower = better)

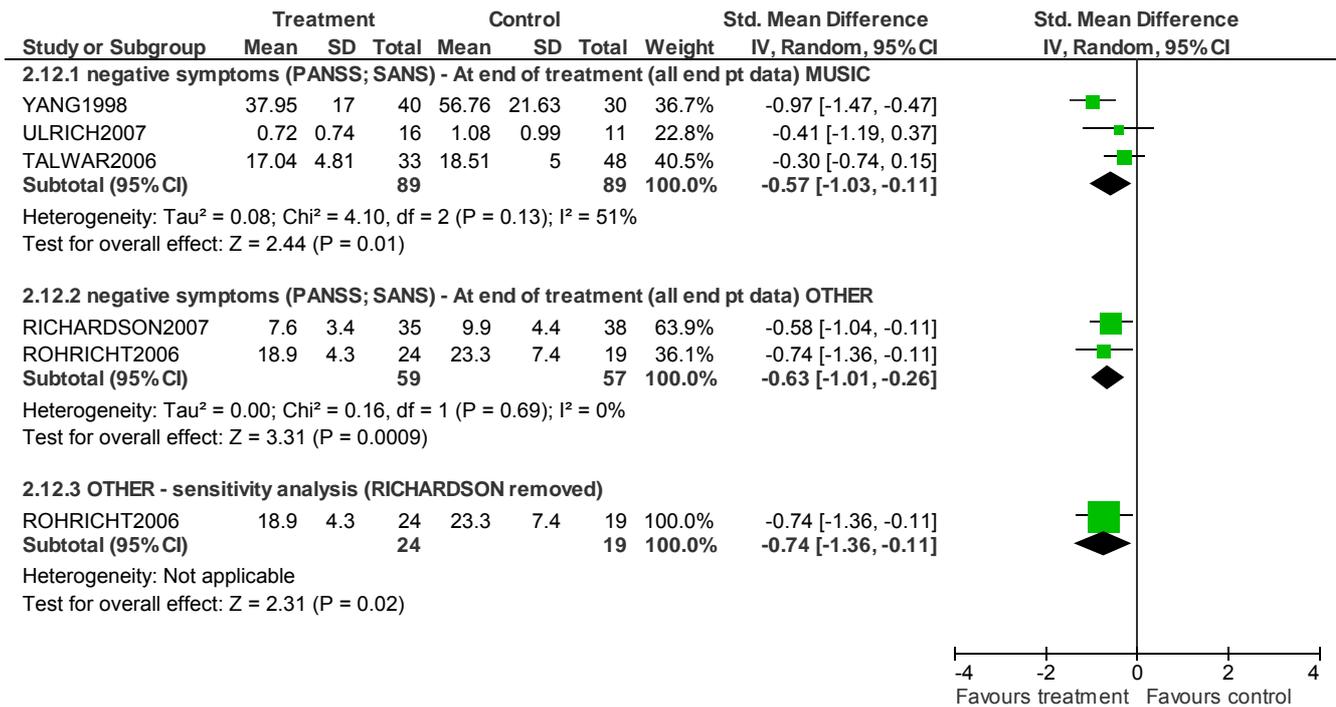


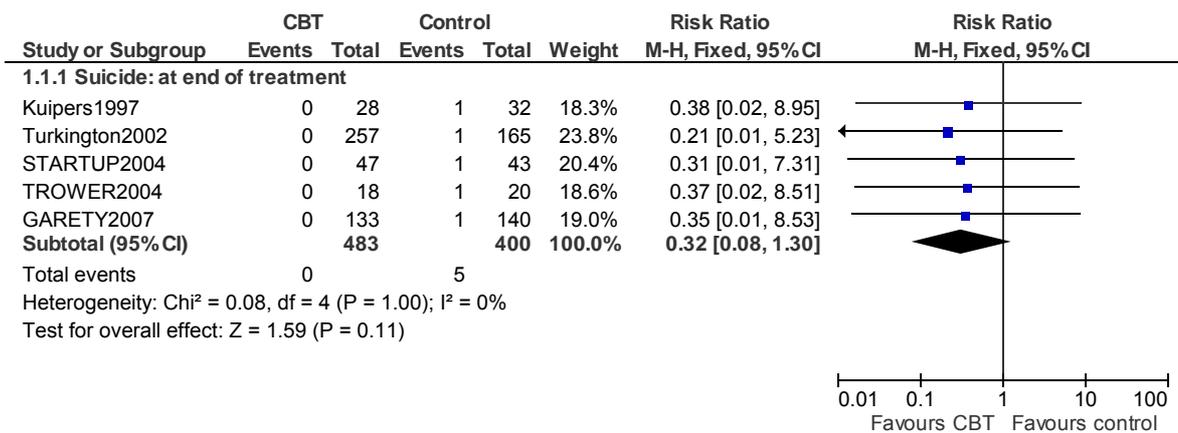
Table 3: Studies included in the CBT review

Intervention	versus Comparator
	Standard care
CBT	BACH2002 BARROWCLOUGH2006 DURHAM2003 ENGLAND2007 GARETY2008 GRANHOLM2005 * GUMLEY2003 JACKSON2005 JENNER2004 * Kuipers1997 LECLERC2000 LECOMTE2008 Lewis2002 MCLEOD2007 STARTUP2004 Tarrier1998 TROWER2004 Turkington2002 WYKES2005
	Other active treatments
CBT	BECHDOLF2004 CATHER2005 DURHAM2003 GARETY2008 Haddock1999 Hogarty1997 JACKSON2007 LECOMTE2008 Lewis2002 PENADES2006 PINTO1999 * Sensky2000 Tarrier1998 VALMAGGIA2005
	Non standard care
CBT + non-standard care	Drury1996 Bradshaw2000 RECTOR2003

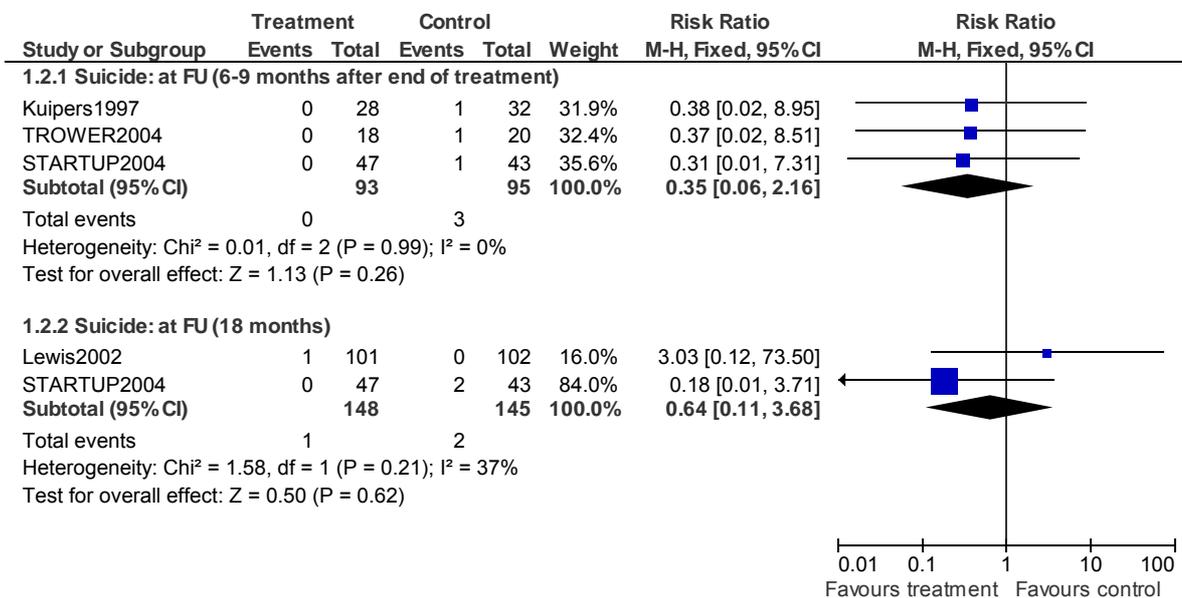
Psychological clinical evidence: CBT

1 CBT versus standard care

1.1 Mortality (at end of treatment)

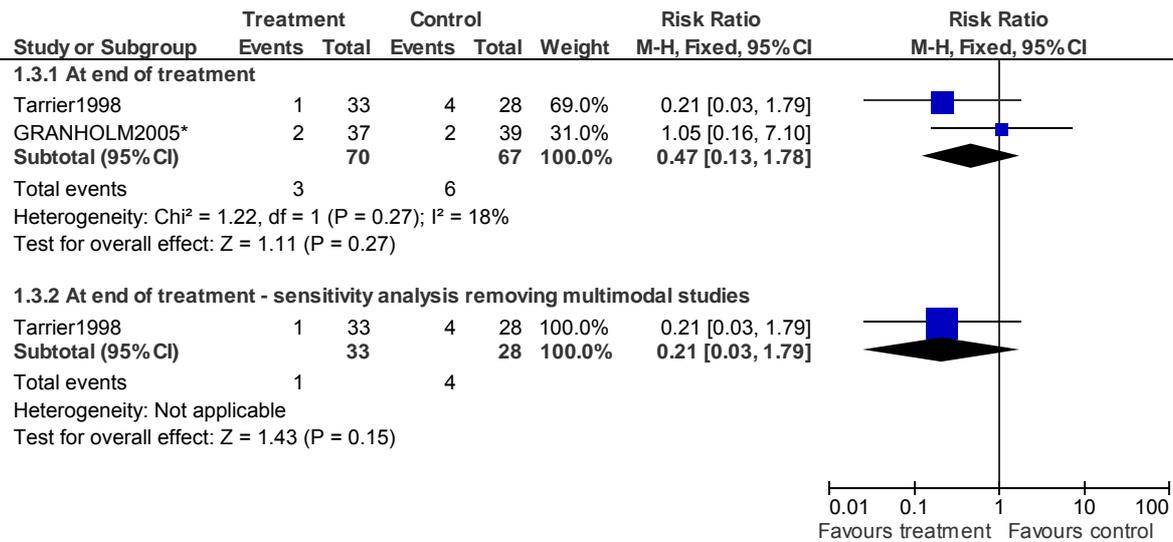


1.2 Mortality (at FU)



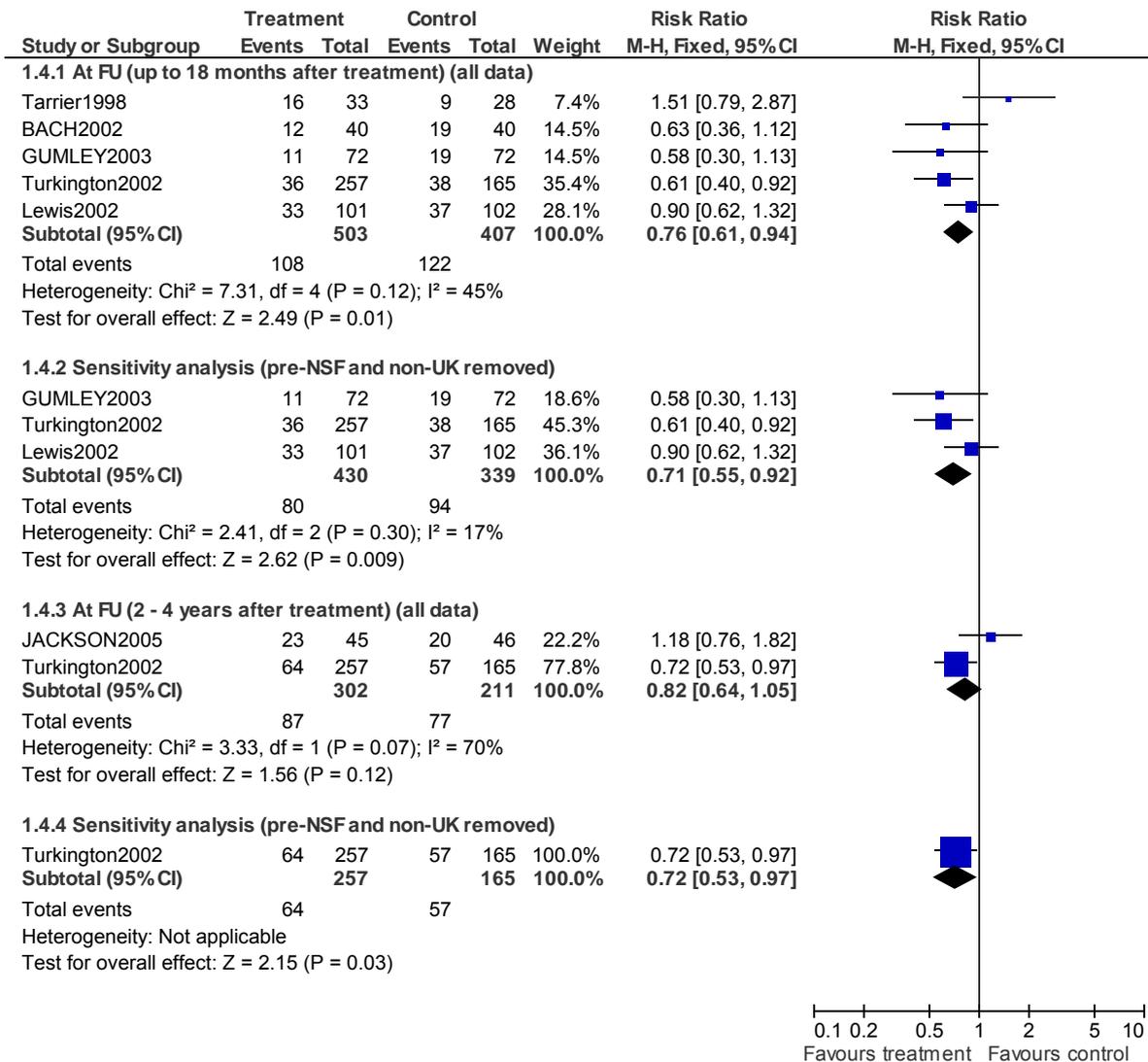
Psychological clinical evidence: CBT

1.3 Service outcome: 1. Rehospitalisation (at end of treatment)

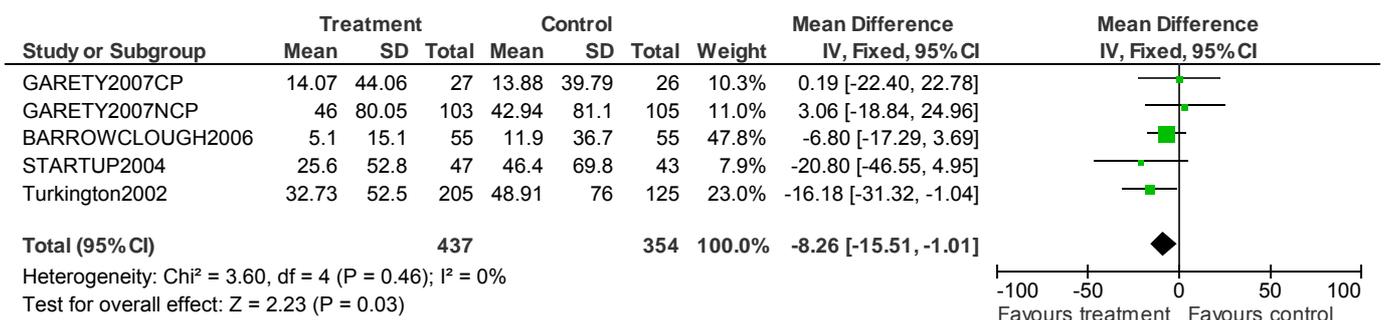


Psychological clinical evidence: CBT

1.4 Service outcome: 1. Rehospitalisation (at FU)

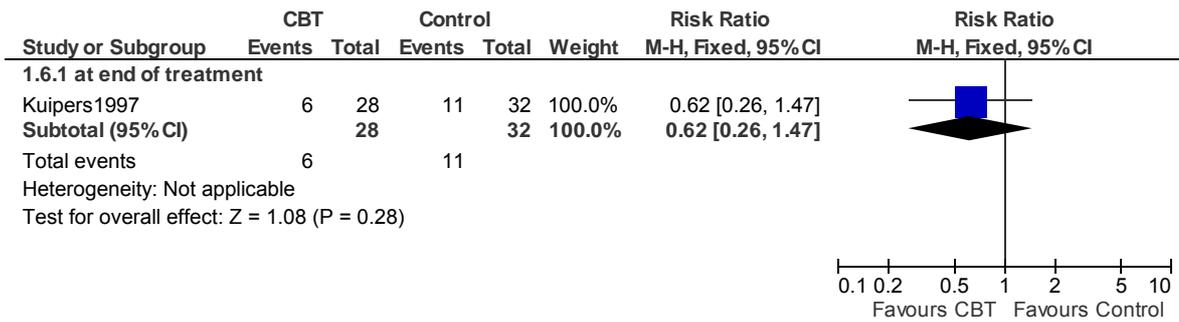


1.5 Service outcome: 2. Duration of re-hospitalisation (number of days) (up to 12 months FU)

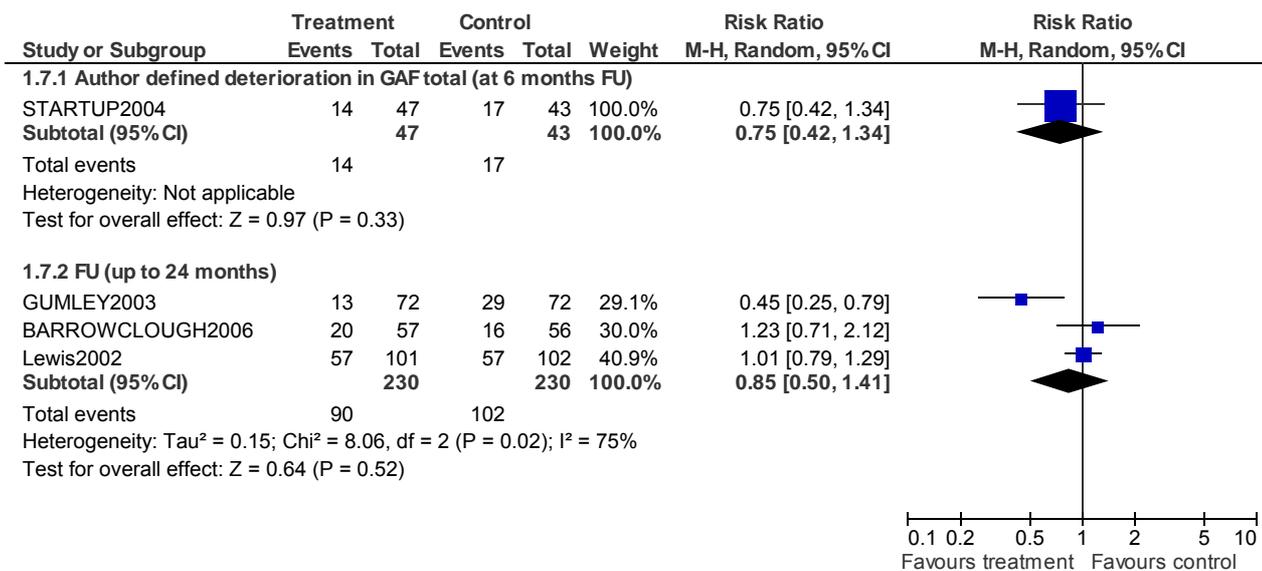


Psychological clinical evidence: CBT

1.6 Global state: 1. Relapse (at end of treatment)



1.7 Global state: 1. Relapse (at FU)



Psychological clinical evidence: CBT

1.8 Mental state. 1. Continuous measures - total symptoms (lower = better) (at end of treatment)

Study or Subgroup	Treatment			Control			Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean IV, Rand
	Mean	SD	Total	Mean	SD	Total			
1.8.1 Total symptom score at end of treatment (PANSS, BPRS, CPRS)									
Turkington2002	19.62	13.34	257	22.61	13.21	165	12.8%	-0.22 [-0.42, -0.03]	.
Lewis2002	68.12	21.38	52	70.15	21.46	59	9.1%	-0.09 [-0.47, 0.28]	.
Kuipers1997	19.87	8.46	23	22.67	7.43	24	5.9%	-0.35 [-0.92, 0.23]	—
JACKSON2005	15.23	8.98	45	14.76	8.11	46	8.4%	0.05 [-0.36, 0.47]	
ENGLAND2007	36.9	9.6	44	50.1	7.8	21	5.8%	-1.44 [-2.02, -0.86]	—
BARROWCLOUGH2006	57.78	13.15	54	61.44	15.83	45	8.6%	-0.25 [-0.65, 0.15]	—
GARETY2007CP	54.09	12.49	21	58.35	14.03	23	5.6%	-0.31 [-0.91, 0.28]	—
STARTUP2004	30.2	10	34	36.9	12.1	32	7.0%	-0.60 [-1.09, -0.10]	—
GARETY2007NCP	57.63	15.21	90	59.66	17.27	90	10.7%	-0.12 [-0.42, 0.17]	.
LECOMTE2008	35.9	8.4	36	38.4	13.9	20	6.2%	-0.23 [-0.78, 0.32]	—
DURHAM2003	96.2	17.7	22	90.6	17.5	19	5.4%	0.31 [-0.31, 0.93]	.
GRANHOLM2005*	51.6	11	32	52.2	14.2	33	7.1%	-0.05 [-0.53, 0.44]	—
JENNER2004*	52.5	15.3	35	62.4	18.9	34	7.2%	-0.57 [-1.05, -0.09]	—
Subtotal (95% CI)			745			611	100.0%	-0.27 [-0.45, -0.10]	◀

Heterogeneity: Tau² = 0.06; Chi² = 27.32, df = 12 (P = 0.007); I² = 56%

Test for overall effect: Z = 3.00 (P = 0.003)

1.8.2 Total symptom score at end of treatment (PANSS, BPRS, CPRS) (England removed)

Kuipers1997	19.87	8.46	23	22.67	7.43	24	3.7%	-0.35 [-0.92, 0.23]	—
Turkington2002	19.62	13.34	257	22.61	13.21	165	31.9%	-0.22 [-0.42, -0.03]	.
Lewis2002	68.12	21.38	52	70.15	21.46	59	8.8%	-0.09 [-0.47, 0.28]	.
GARETY2007CP	54.09	12.49	21	58.35	14.03	23	3.5%	-0.31 [-0.91, 0.28]	—
LECOMTE2008	35.9	8.4	36	38.4	13.9	20	4.1%	-0.23 [-0.78, 0.32]	—
STARTUP2004	30.2	10	34	36.9	12.1	32	5.0%	-0.60 [-1.09, -0.10]	—
GARETY2007NCP	57.63	15.21	90	59.66	17.27	90	14.3%	-0.12 [-0.42, 0.17]	.
DURHAM2003	96.2	17.7	22	90.6	17.5	19	3.2%	0.31 [-0.31, 0.93]	.
JACKSON2005	15.23	8.98	45	14.76	8.11	46	7.3%	0.05 [-0.36, 0.47]	
BARROWCLOUGH2006	57.78	13.15	54	61.44	15.83	45	7.8%	-0.25 [-0.65, 0.15]	—
GRANHOLM2005*	51.6	11	32	52.2	14.2	33	5.2%	-0.05 [-0.53, 0.44]	—
JENNER2004*	52.5	15.3	35	62.4	18.9	34	5.3%	-0.57 [-1.05, -0.09]	—
Subtotal (95% CI)			701			590	100.0%	-0.20 [-0.31, -0.09]	◀

Heterogeneity: Tau² = 0.00; Chi² = 10.35, df = 11 (P = 0.50); I² = 0%

Test for overall effect: Z = 3.52 (P = 0.0004)

1.8.3 Total symptom score at end of treatment (PANSS, BPRS, CPRS) - sensitivity analysis removing multimodal studies

Turkington2002	19.62	13.34	257	22.61	13.21	165	14.4%	-0.22 [-0.42, -0.03]	.
Lewis2002	68.12	21.38	52	70.15	21.46	59	10.6%	-0.09 [-0.47, 0.28]	.
Kuipers1997	19.87	8.46	23	22.67	7.43	24	7.0%	-0.35 [-0.92, 0.23]	—
JACKSON2005	15.23	8.98	45	14.76	8.11	46	9.8%	0.05 [-0.36, 0.47]	
BARROWCLOUGH2006	57.78	13.15	54	61.44	15.83	45	10.1%	-0.25 [-0.65, 0.15]	—
LECOMTE2008	35.9	8.4	36	38.4	13.9	20	7.4%	-0.23 [-0.78, 0.32]	—
STARTUP2004	30.2	10	34	36.9	12.1	32	8.3%	-0.60 [-1.09, -0.10]	—
GARETY2007NCP	57.63	15.21	90	59.66	17.27	90	12.3%	-0.12 [-0.42, 0.17]	.
ENGLAND2007	36.9	9.6	44	50.1	7.8	21	7.0%	-1.44 [-2.02, -0.86]	—
GARETY2007CP	54.09	12.49	21	58.35	14.03	23	6.7%	-0.31 [-0.91, 0.28]	—
DURHAM2003	96.2	17.7	22	90.6	17.5	19	6.4%	0.31 [-0.31, 0.93]	.
Subtotal (95% CI)			678			544	100.0%	-0.27 [-0.47, -0.07]	◀

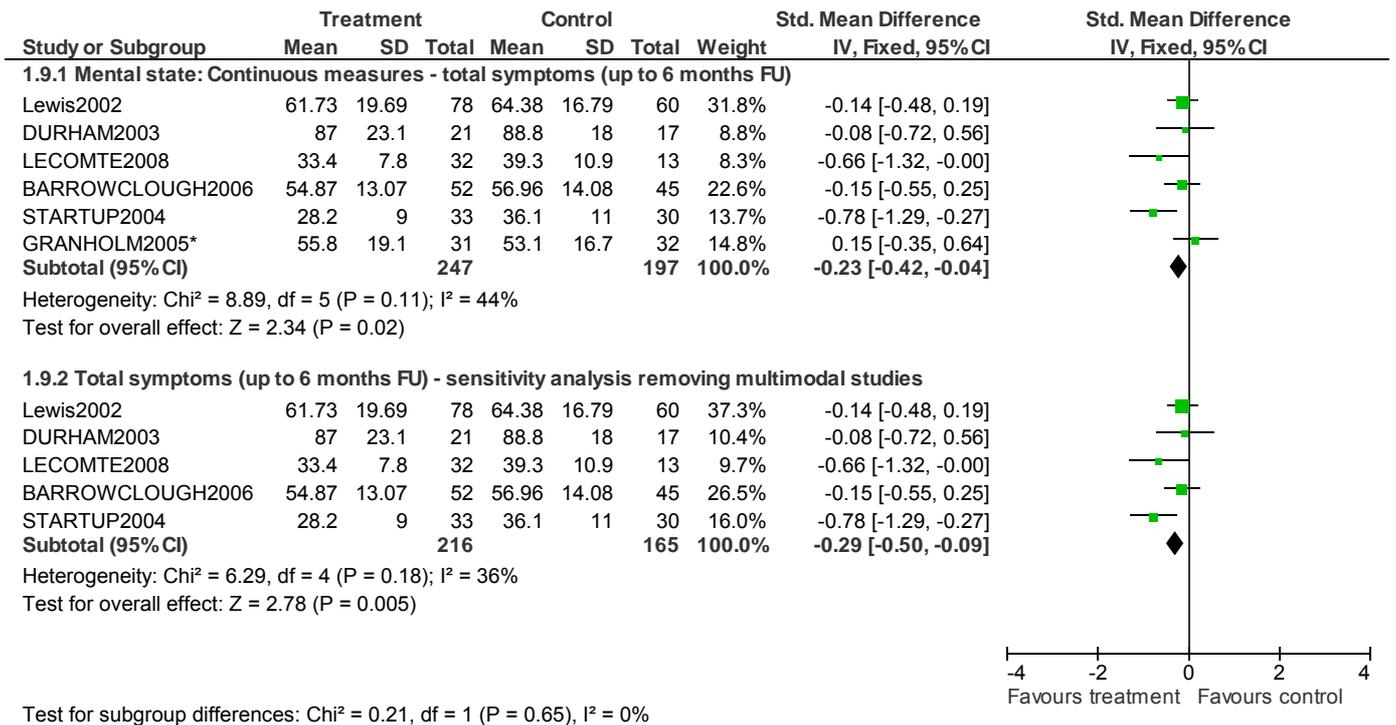
Heterogeneity: Tau² = 0.06; Chi² = 24.91, df = 10 (P = 0.006); I² = 60%

Test for overall effect: Z = 2.65 (P = 0.008)

-4 -2
Favours treatment

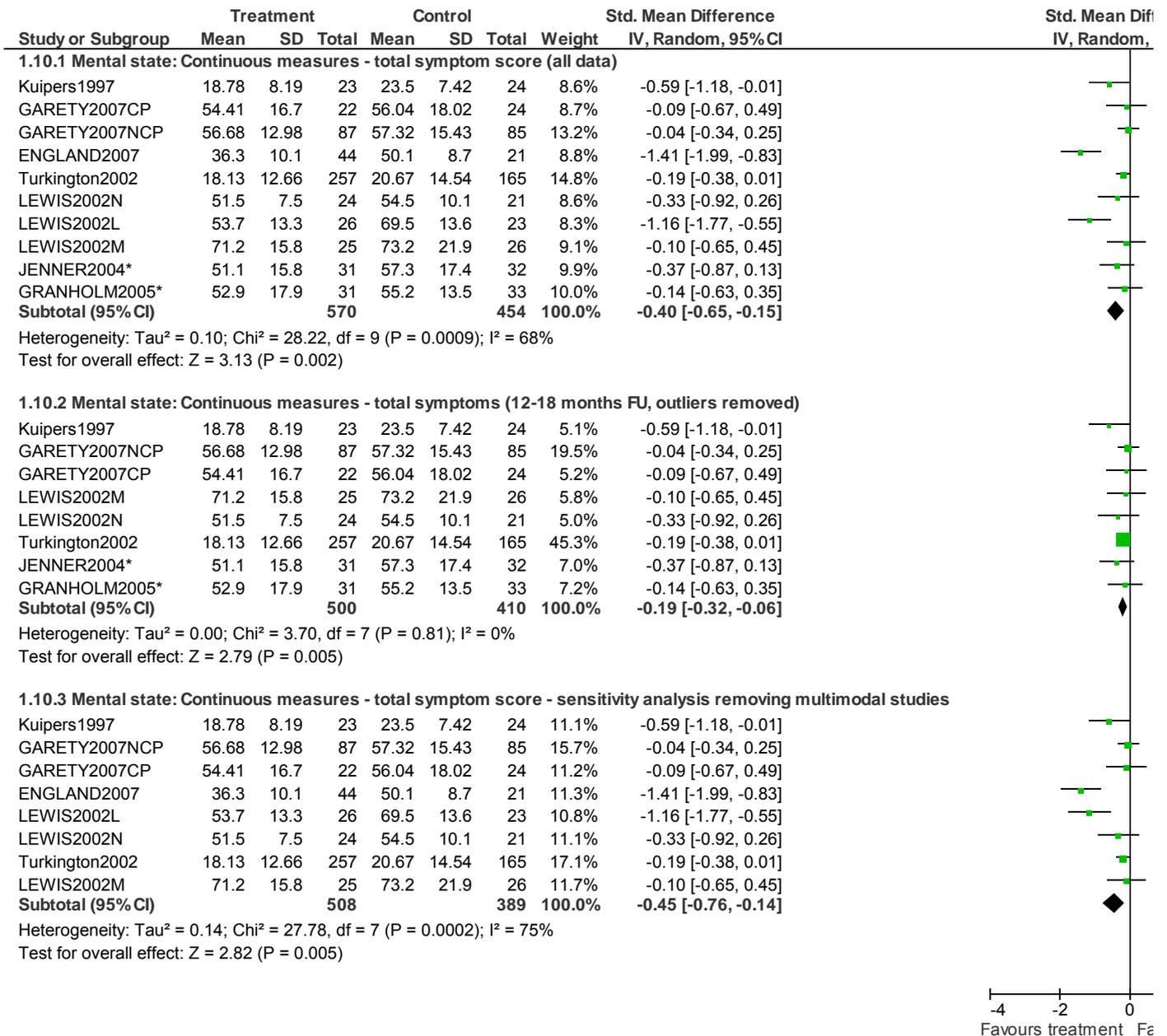
Psychological clinical evidence: CBT

1.9 Mental state: 1. Continuous measures - total symptoms (6 months FU)



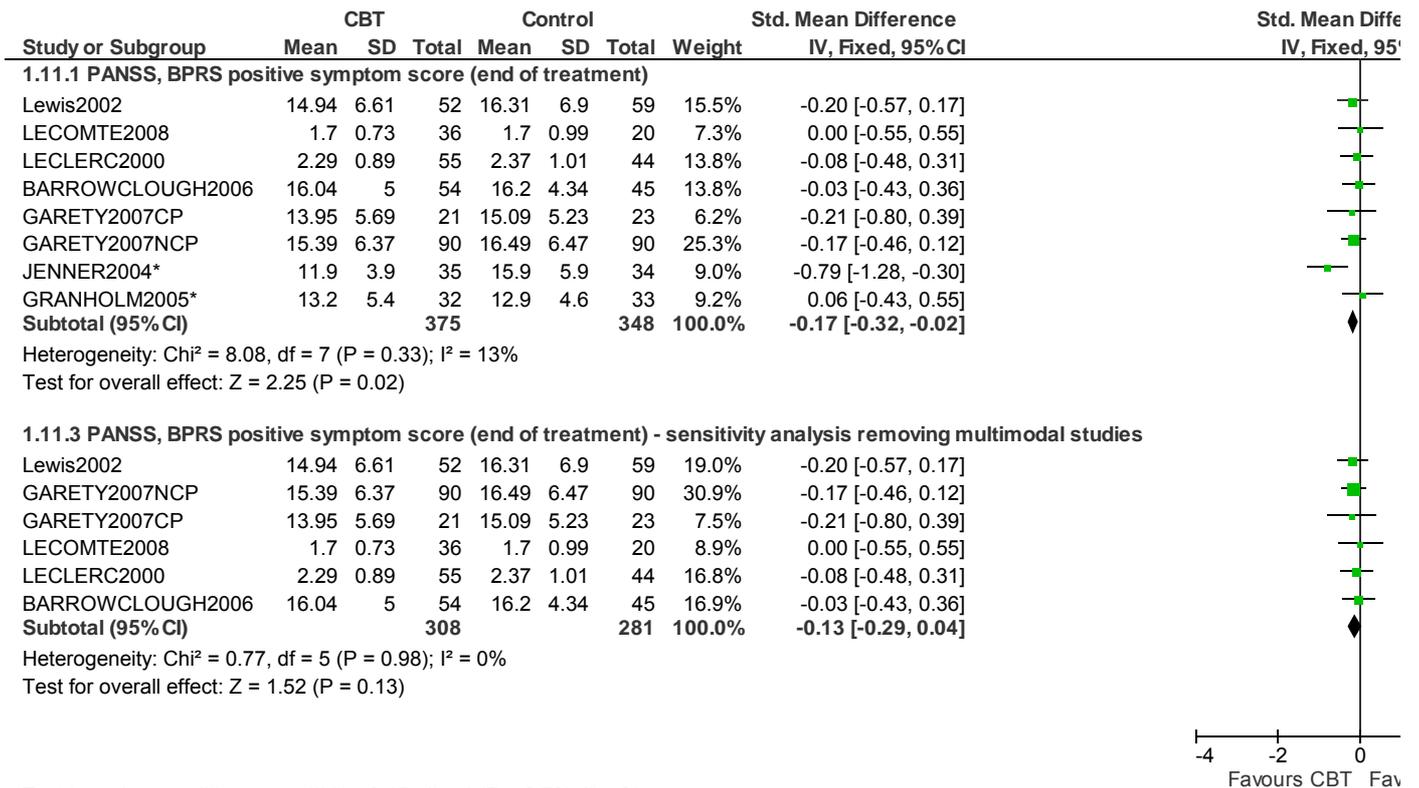
Psychological clinical evidence: CBT

1.10 Mental state: 1. Continuous measures - total symptoms (12 months FU)



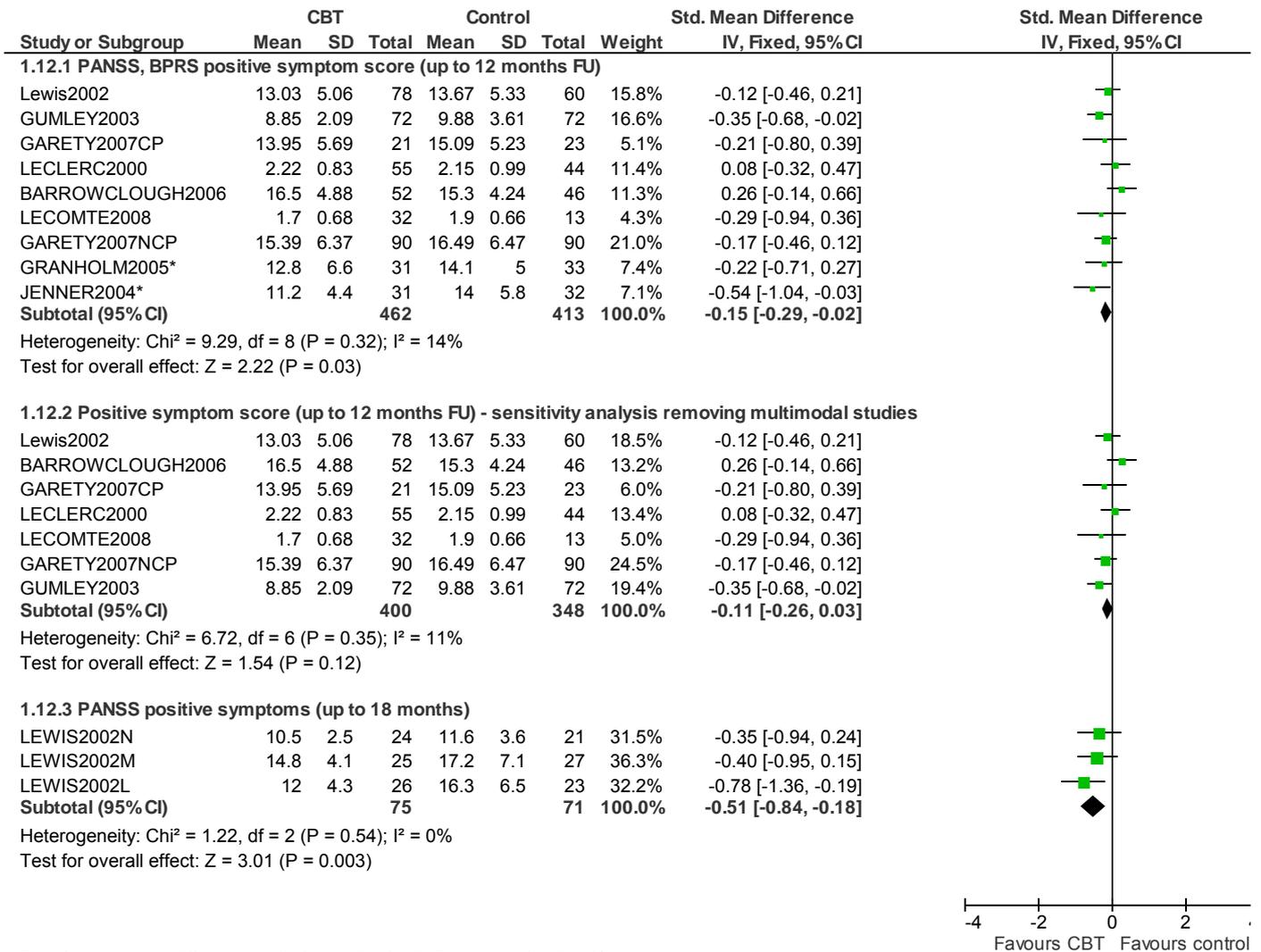
Psychological clinical evidence: CBT

1.11 Mental state: 2. Continuous measures - positive symptoms (at end of treatment) (lower = better)



Psychological clinical evidence: CBT

1.12 Mental state: 2. Continuous measures - positive symptoms (at FU) (lower = better)



Psychological clinical evidence: CBT

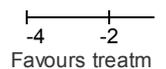
1.13 Mental state: 3. Continuous measures - negative symptoms (at end of treatment) (lower = better)

Study or Subgroup	Treatment			Control			Weight	Std. Mean Difference IV, Fixed, 95% CI	Std. Me IV, F
	Mean	SD	Total	Mean	SD	Total			
1.13.1 PANSS , SANS, BPRS negative symptom score (end of treatment)									
GARETY2007CP	12.33	4.94	21	13.26	5.58	23	5.8%	-0.17 [-0.77, 0.42]	
GARETY2007NCP	12.06	4.92	90	12.62	6.32	90	23.7%	-0.10 [-0.39, 0.19]	
BARROWCLOUGH2006	13	4.81	54	13.31	5.22	45	12.9%	-0.06 [-0.46, 0.33]	
LECLERC2000	2.09	0.85	55	2.08	0.8	44	12.9%	0.01 [-0.38, 0.41]	
JACKSON2005	18.84	12.61	45	15.61	13.36	46	11.9%	0.25 [-0.17, 0.66]	
LECOMTE2008	1.6	0.71	36	1.5	0.86	20	6.8%	0.13 [-0.42, 0.68]	
STARTUP2004	5.7	4	34	7	4.1	32	8.6%	-0.32 [-0.80, 0.17]	
JENNER2004*	11.8	6.9	35	12.6	7.2	34	9.1%	-0.11 [-0.58, 0.36]	
GRANHOLM2005*	12.9	3.8	32	13.7	5.2	33	8.5%	-0.17 [-0.66, 0.31]	
Subtotal (95% CI)			402			367	100.0%	-0.05 [-0.20, 0.09]	

Heterogeneity: $\text{Chi}^2 = 4.23$, $\text{df} = 8$ ($P = 0.84$); $I^2 = 0\%$ Test for overall effect: $Z = 0.74$ ($P = 0.46$)

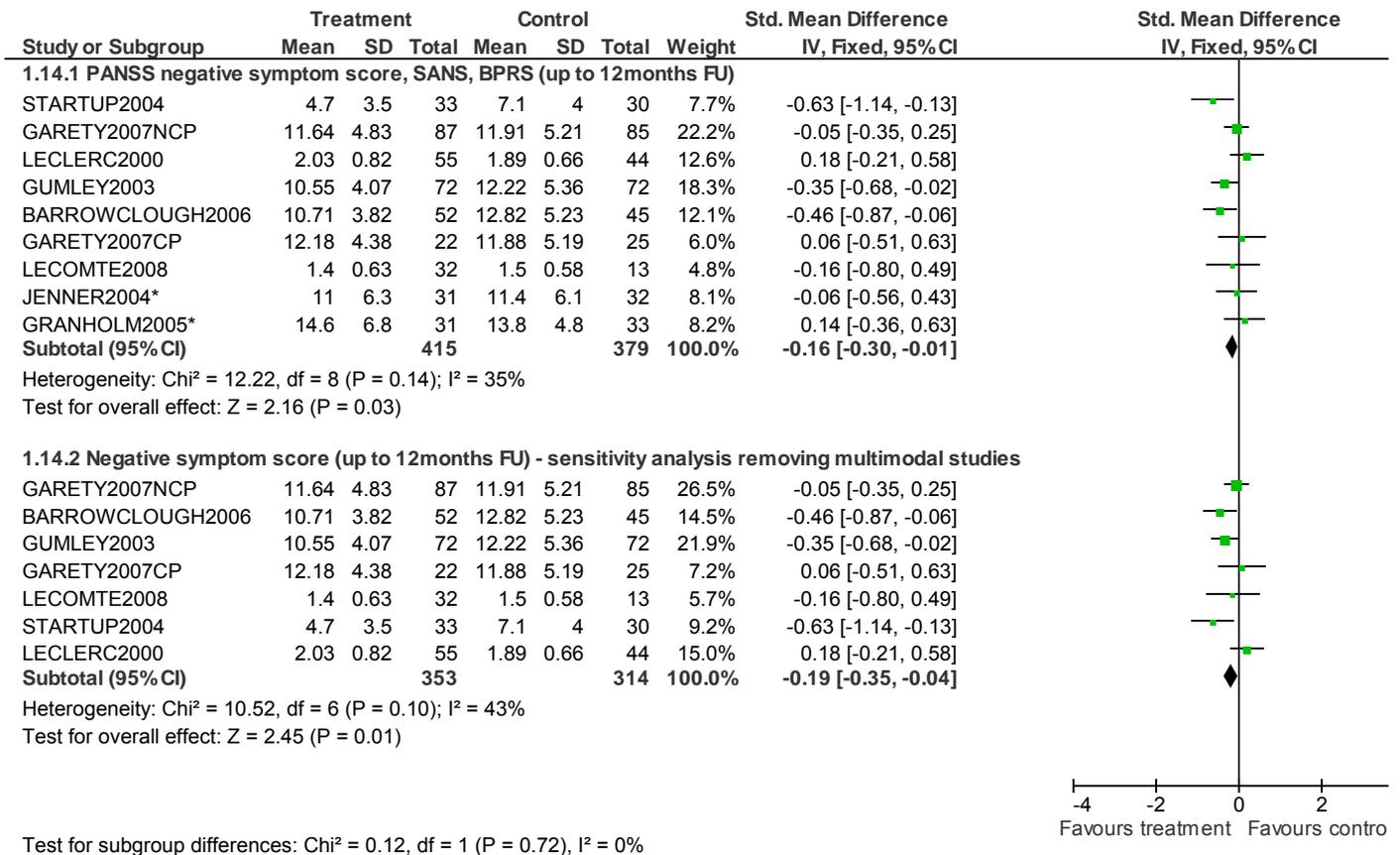
1.13.2 PANSS , SANS, BPRS negative symptom score (end of treatment)- sensitivity analysis removing multimodal studies

GARETY2007CP	12.33	4.94	21	13.26	5.58	23	7.0%	-0.17 [-0.77, 0.42]	
STARTUP2004	5.7	4	34	7	4.1	32	10.4%	-0.32 [-0.80, 0.17]	
LECLERC2000	2.09	0.85	55	2.08	0.8	44	15.6%	0.01 [-0.38, 0.41]	
JACKSON2005	18.84	12.61	45	15.61	13.36	46	14.4%	0.25 [-0.17, 0.66]	
BARROWCLOUGH2006	13	4.81	54	13.31	5.22	45	15.7%	-0.06 [-0.46, 0.33]	
LECOMTE2008	1.6	0.71	36	1.5	0.86	20	8.2%	0.13 [-0.42, 0.68]	
GARETY2007NCP	12.06	4.92	90	12.62	6.32	90	28.7%	-0.10 [-0.39, 0.19]	
Subtotal (95% CI)			335			300	100.0%	-0.04 [-0.19, 0.12]	

Heterogeneity: $\text{Chi}^2 = 3.89$, $\text{df} = 6$ ($P = 0.69$); $I^2 = 0\%$ Test for overall effect: $Z = 0.44$ ($P = 0.66$)Test for subgroup differences: $\text{Chi}^2 = 0.03$, $\text{df} = 1$ ($P = 0.86$), $I^2 = 0\%$

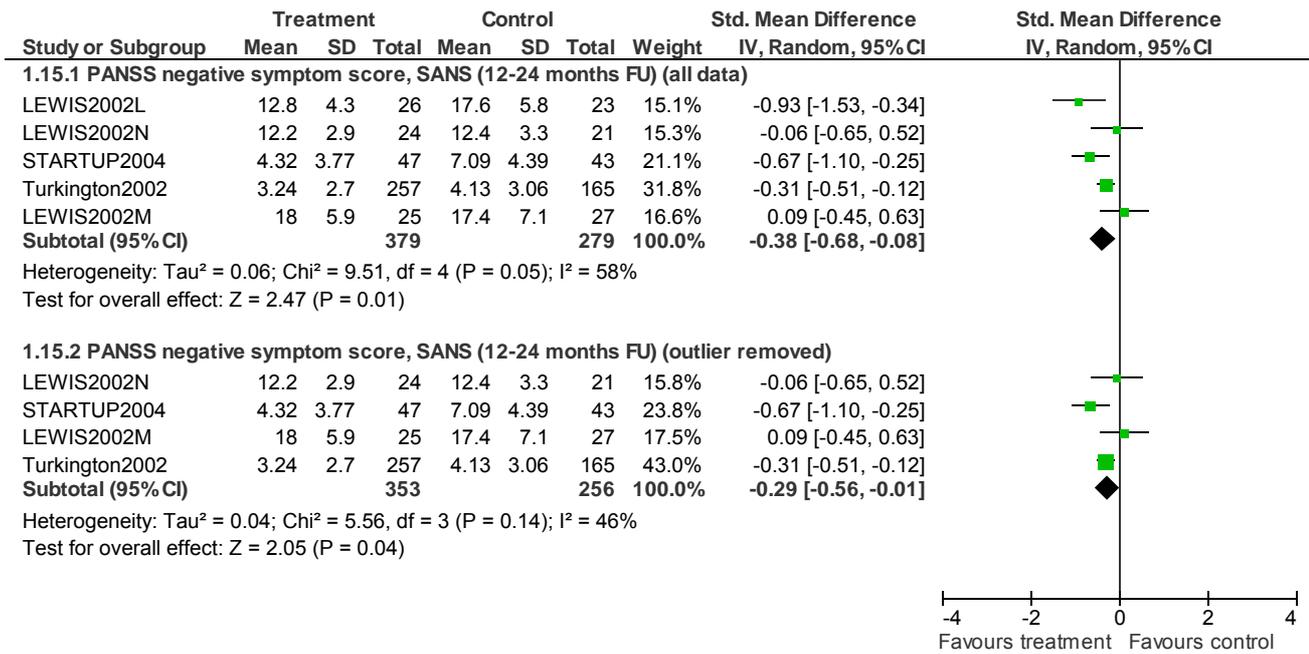
Psychological clinical evidence: CBT

1.14 Mental state: 3. Continuous measures - negative symptoms (at FU) (lower = better)



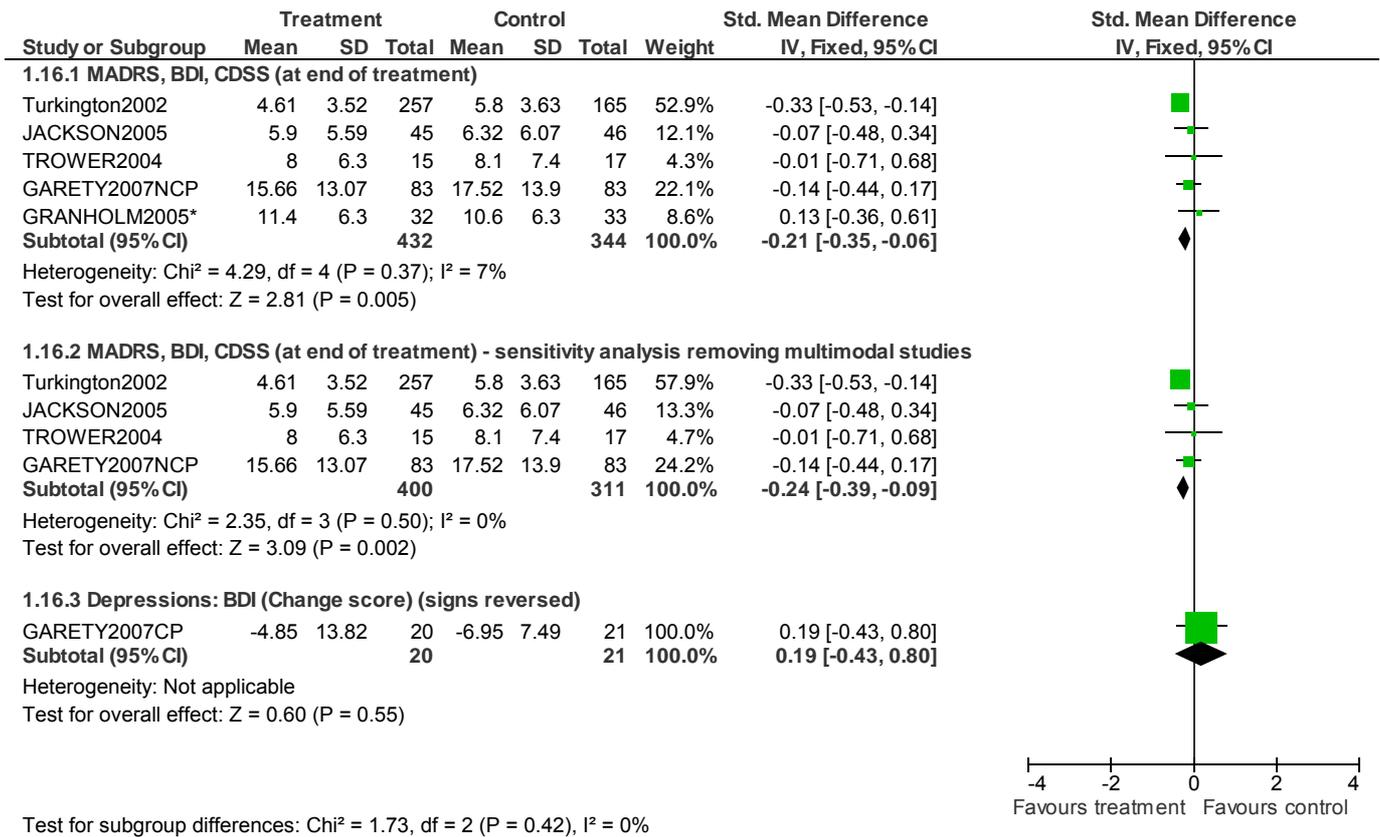
Psychological clinical evidence: CBT

1.15 Mental state: 3. Continuous measures - negative symptoms (at FU)



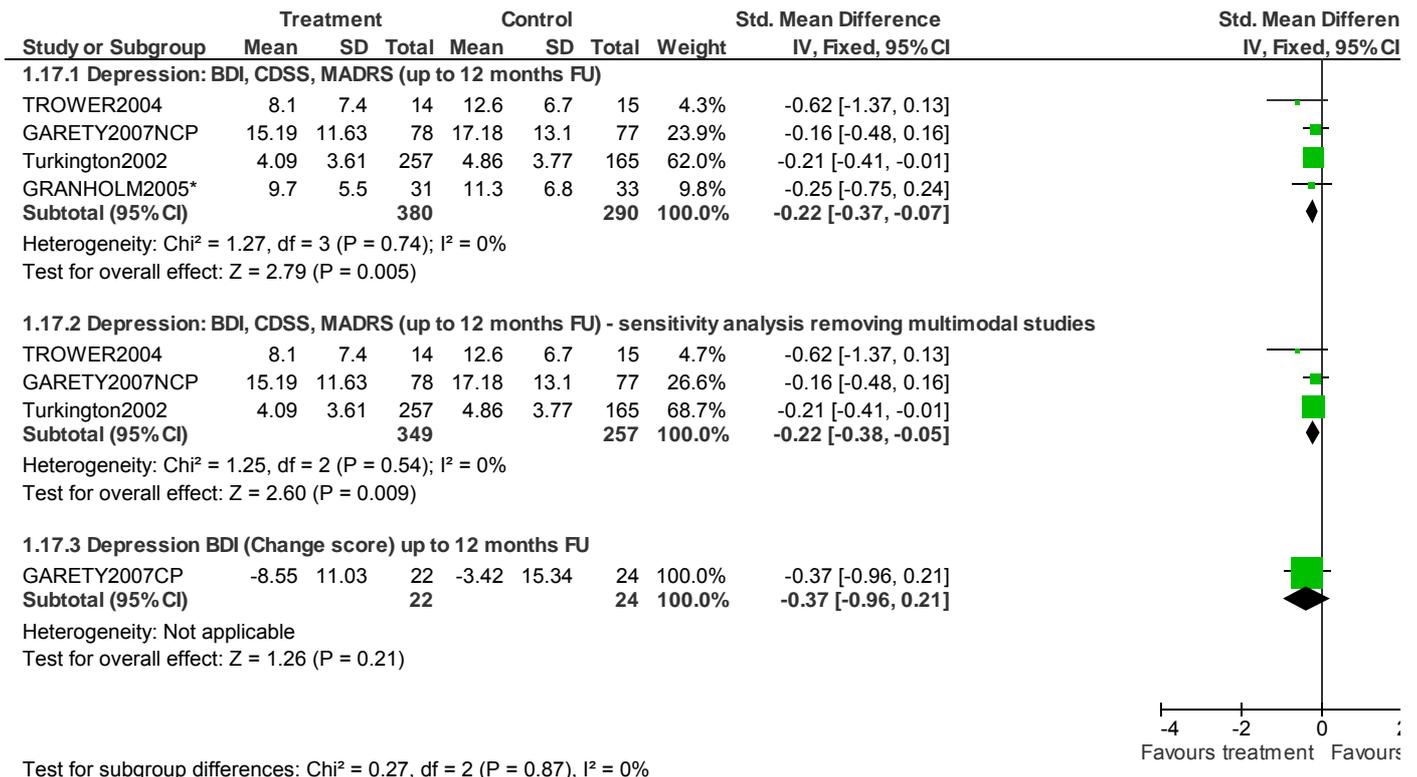
Psychological clinical evidence: CBT

1.16 Mental state: 4. Depression: MADRS, BDI, CDSS

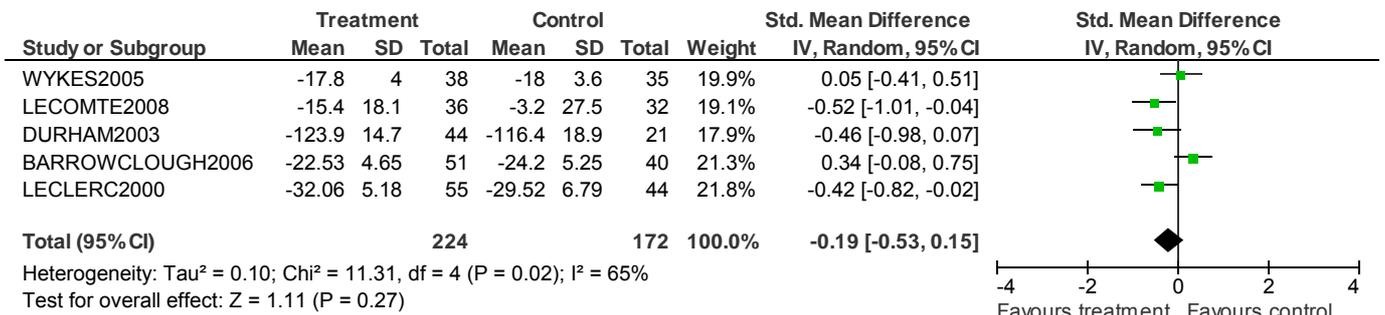


Psychological clinical evidence: CBT

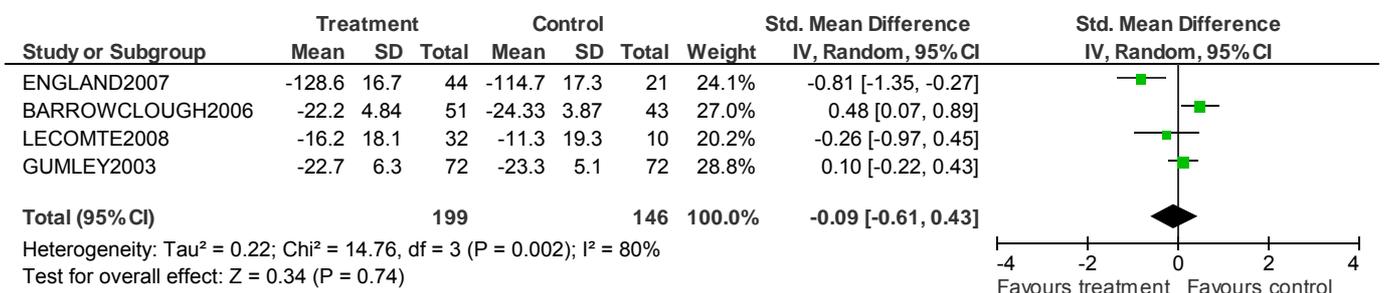
1.17 Mental state: 4. Depression, MADRS, BDI, CDSS (at FU)



1.18 Mental state: 5. Self-esteem (RSES, RSCQ) (at end of treatment) (signs reversed)

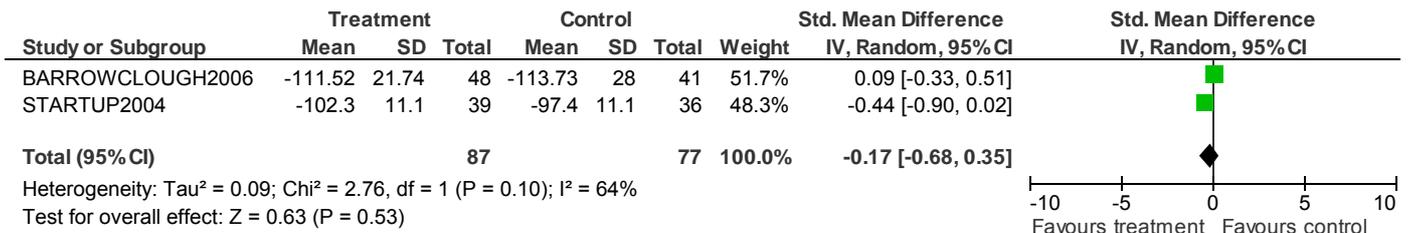


1.19 Mental state: 5. Self-esteem (RSES, RSCQ) (up to 12 months FU) (signs reversed)

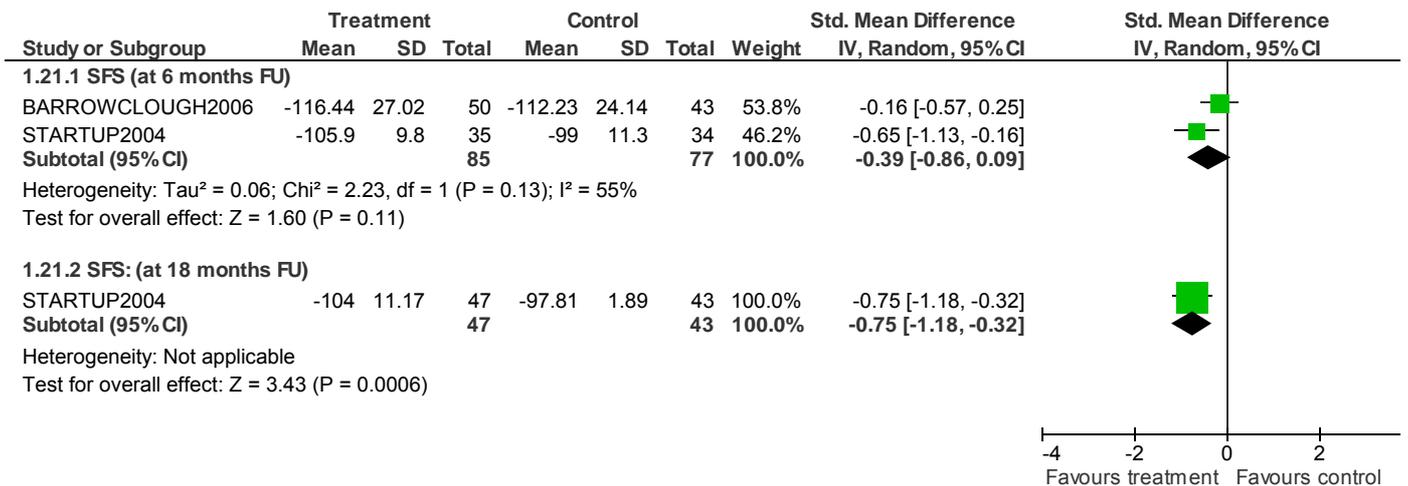


Psychological clinical evidence: CBT

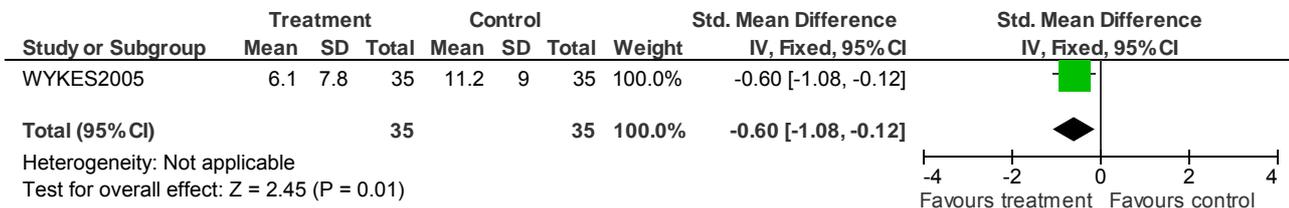
1.20 Psychosocial Functioning: 1. Social Functioning Scale (end of treatment) (signs reversed)



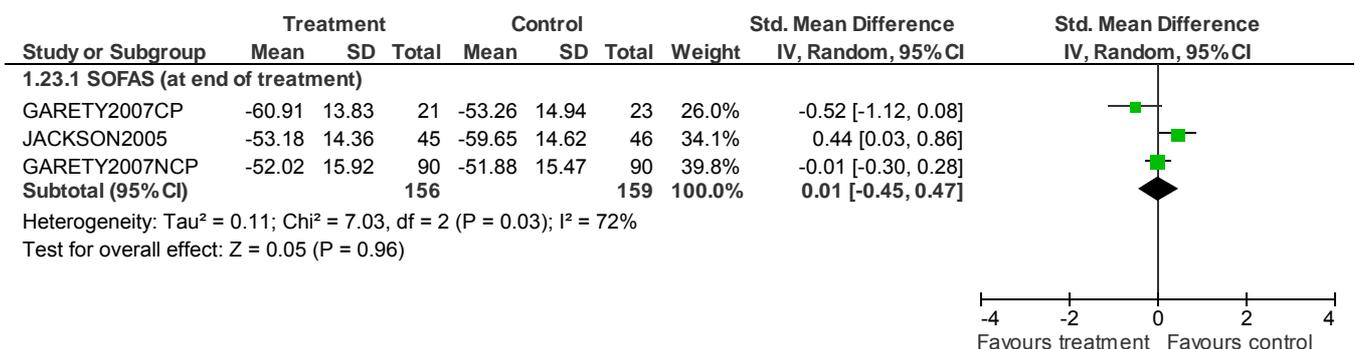
1.21 Psychosocial Functioning: 1. Social Functioning Scale (at FU) (signs reversed)



1.22 Psychosocial Functioning: 2. Social Behaviour Scale (lower = better) (at end of treatment)

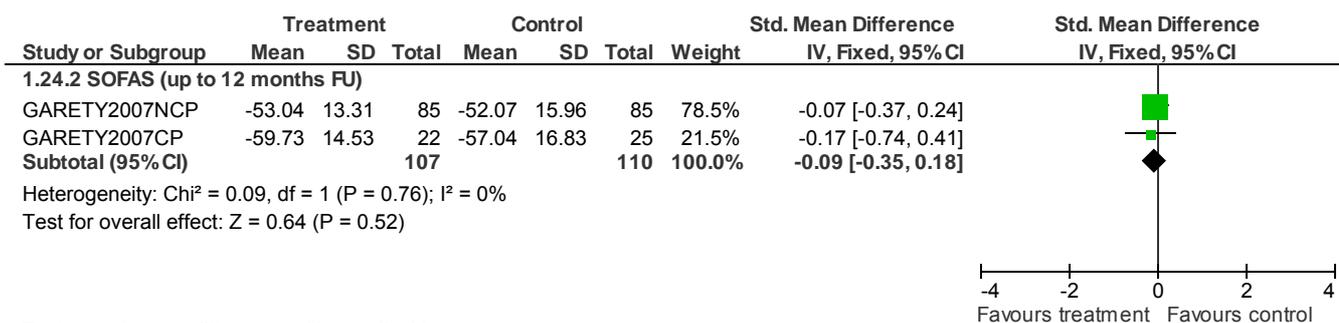


1.23 Psychosocial Functioning: 3. Social and Occupational Functioning Scale (signs reversed) (at end of treatment)

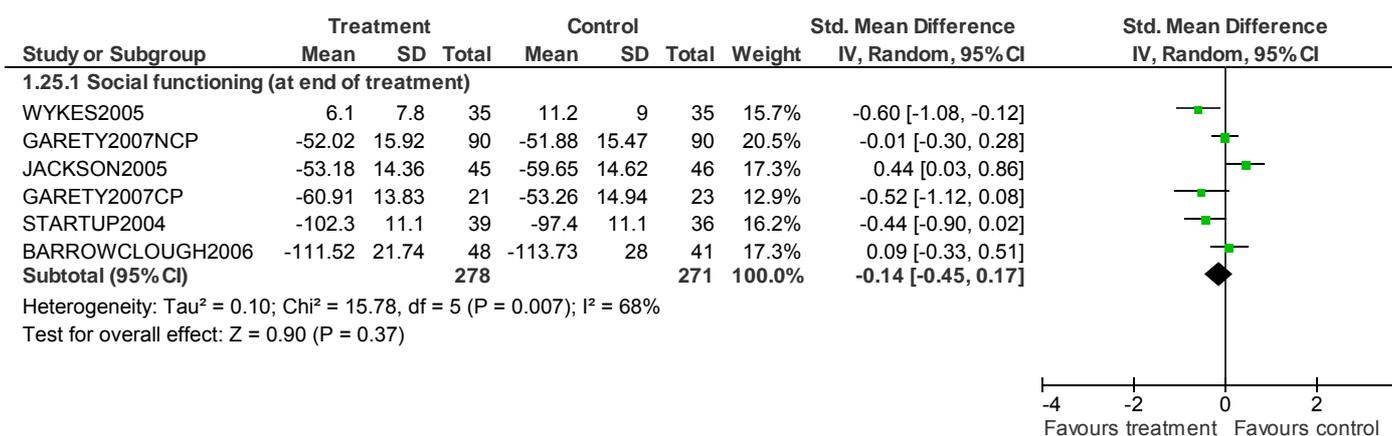


Psychological clinical evidence: CBT

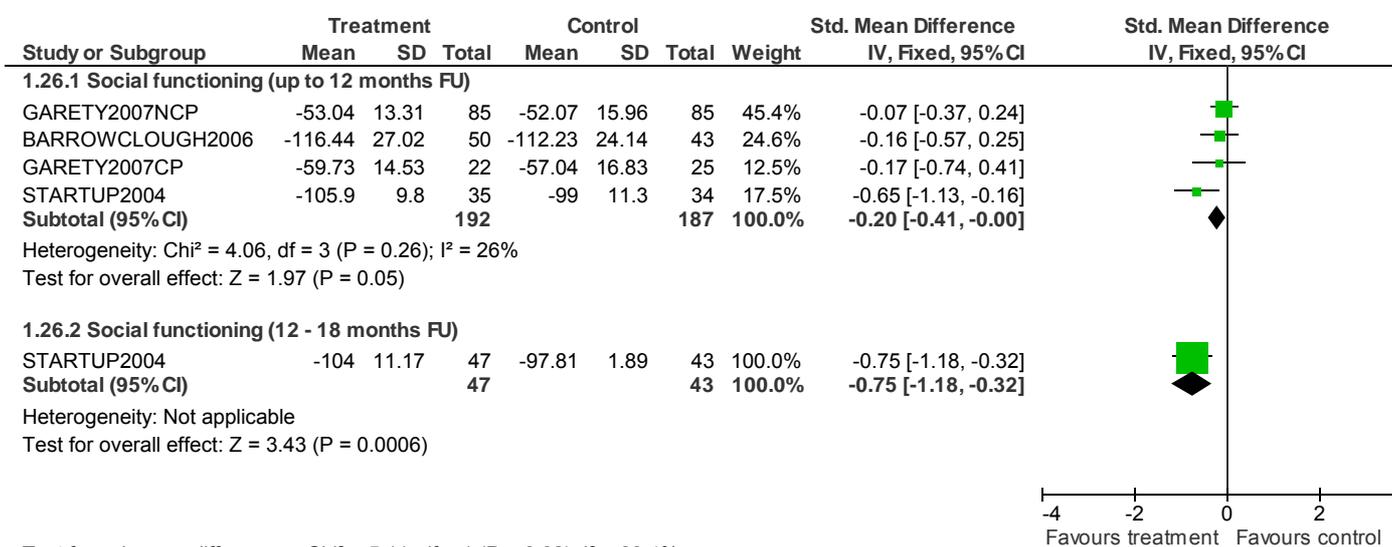
1.24 Psychosocial Functioning: 3. Social and Occupational Functioning Scale (at FU)(signs reversed)



1.25 Psychosocial Functioning: 1-3 combined (SFS, SBS, SOFAS combined) (at end of treatment) (signs reversed)

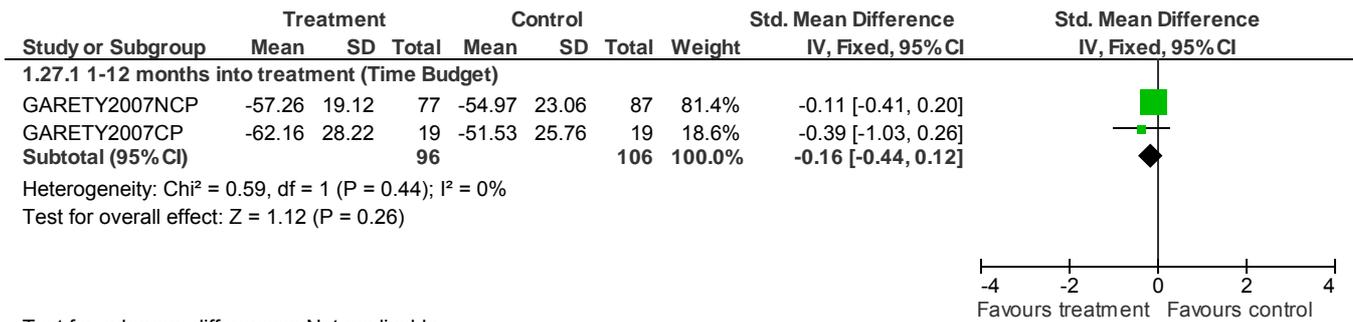


1.26 Psychosocial Functioning: 1-3 combined (SFS, SBS, SOFAs combined) (at FU) (signs reversed)

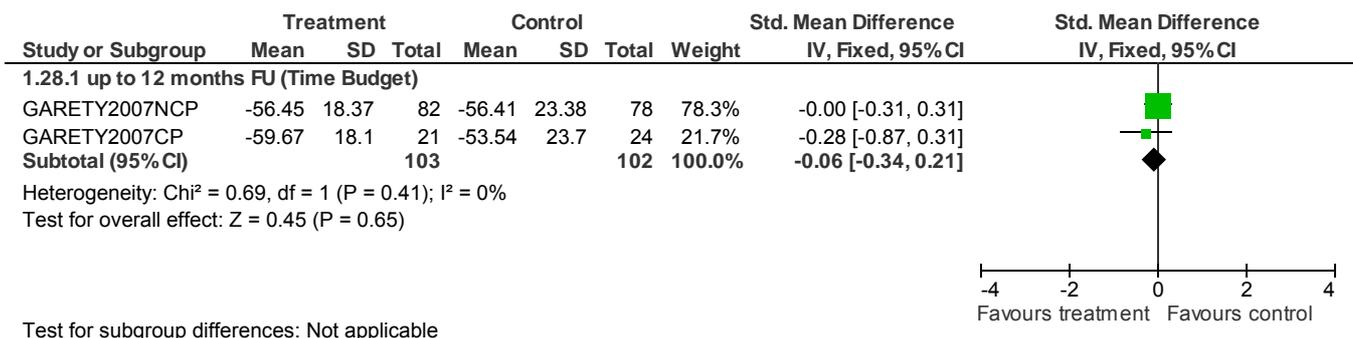


Psychological clinical evidence: CBT

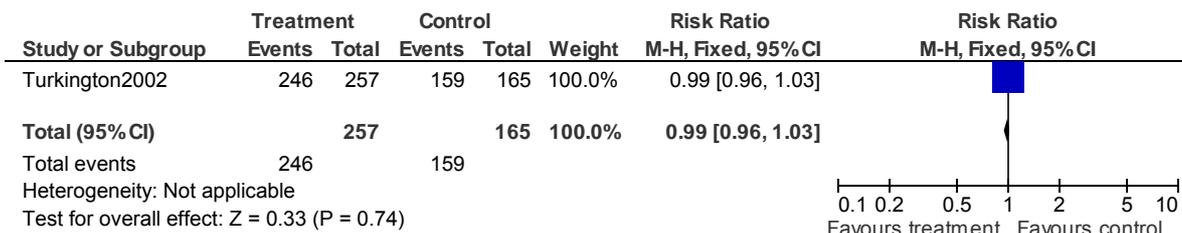
1.27 Psychosocial Functioning: 4. Social functioning - time budget (signs reversed) (end of treatment)



1.28 Psychosocial Functioning: 4. Social functioning - time budget (signs reversed) (at FU)

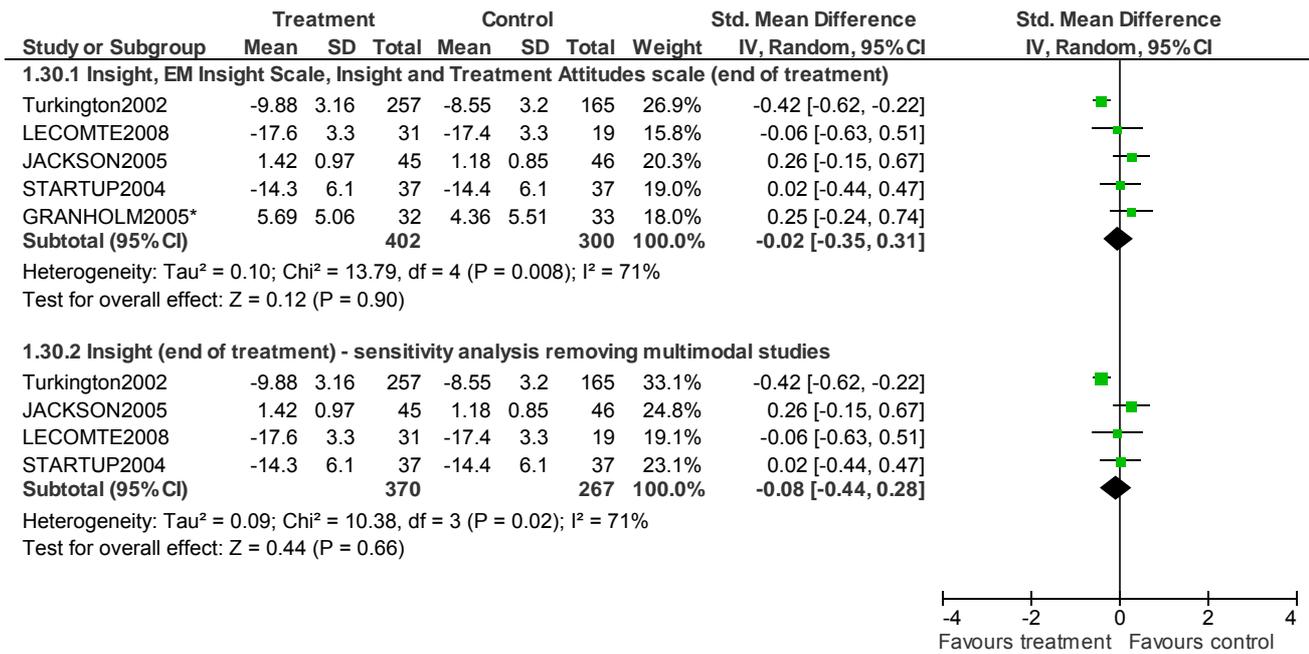


1.29 Psychosocial Functioning: 5. Not in employment (at FU)



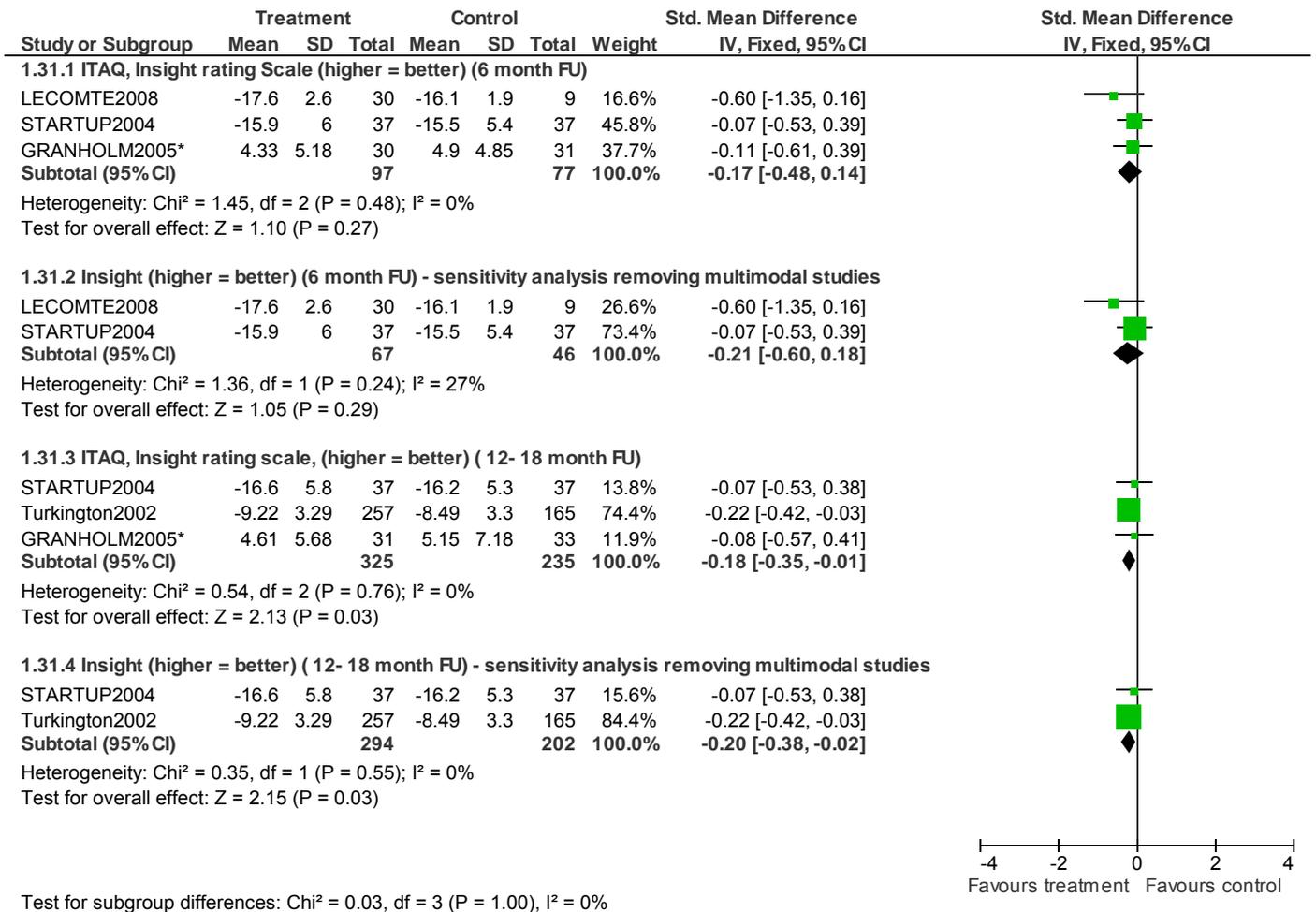
Psychological clinical evidence: CBT

1.30 Insight (end of treatment)

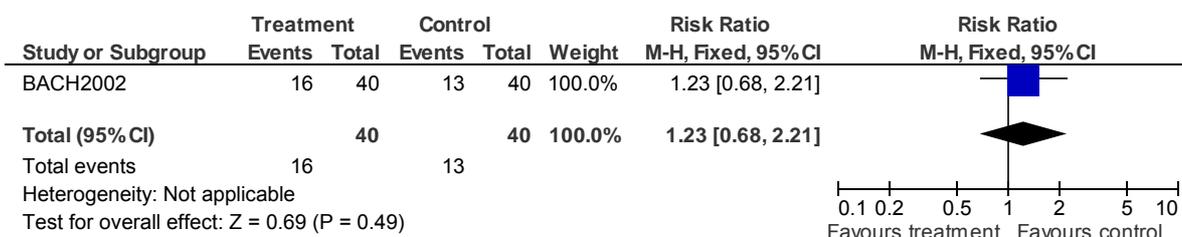


Psychological clinical evidence: CBT

1.31 Insight: (at FU)

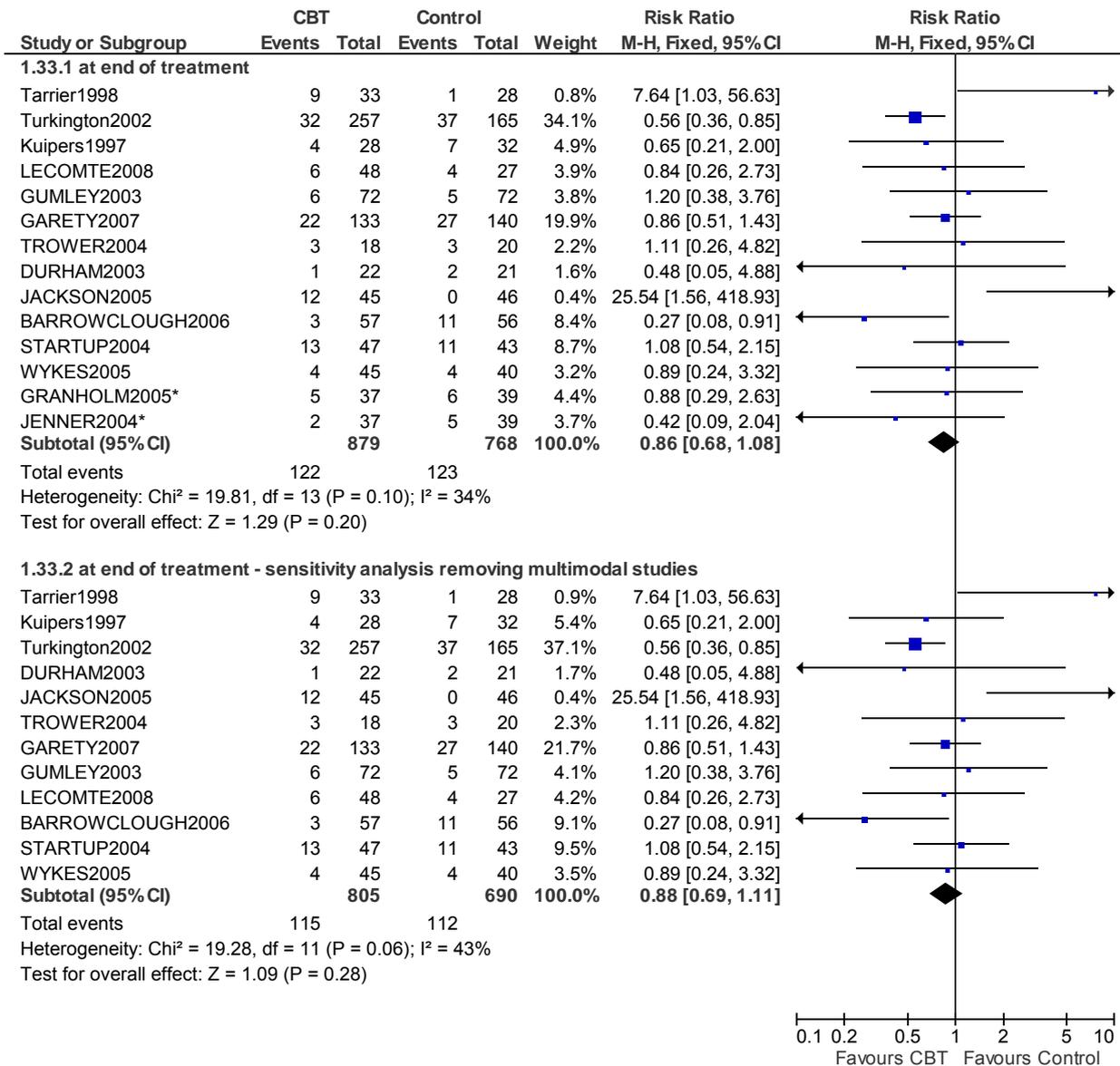


1.32 Non-compliance to medication (at FU)



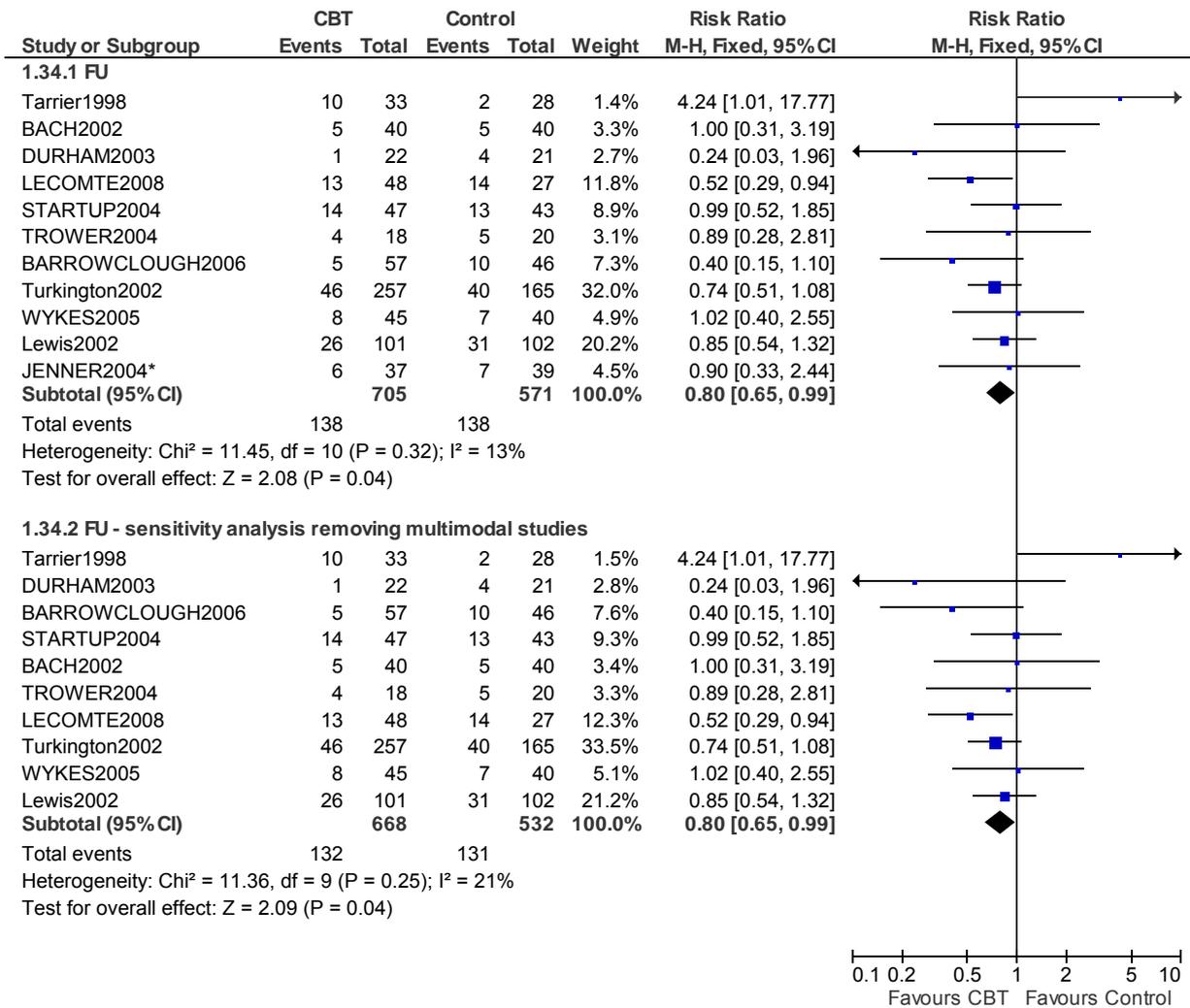
Psychological clinical evidence: CBT

1.33 Treatment acceptability: 1. Leaving the study early (at end of treatment)



Psychological clinical evidence: CBT

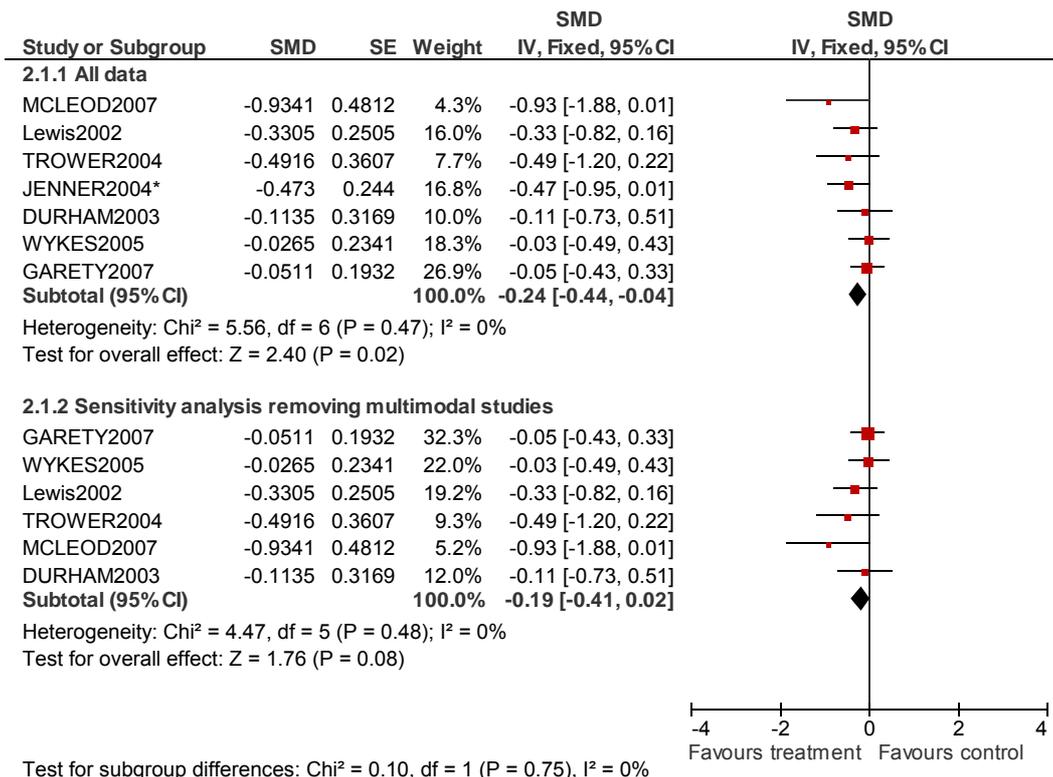
1.34 Treatment acceptability: 1. Leaving the study early (at FU)



2 CBT versus standard care (PSYRATS UK data, hallucination and delusions data)

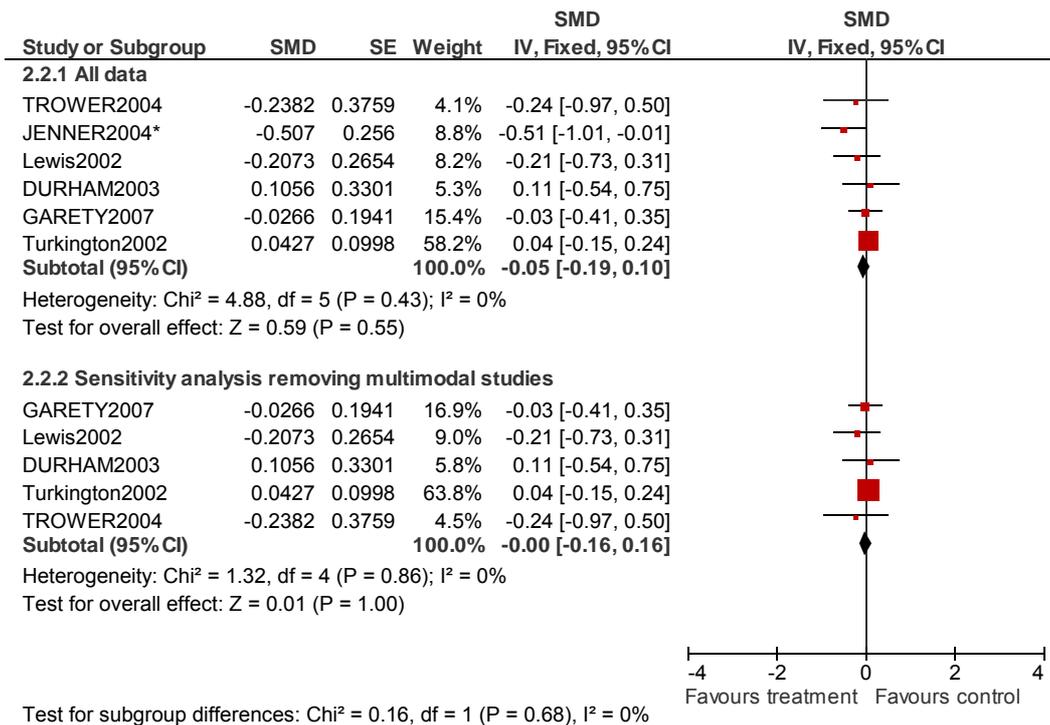
Psychological clinical evidence: CBT

2.1 PSYRATS 1. Auditory Hallucinations subscale - at end of treatment

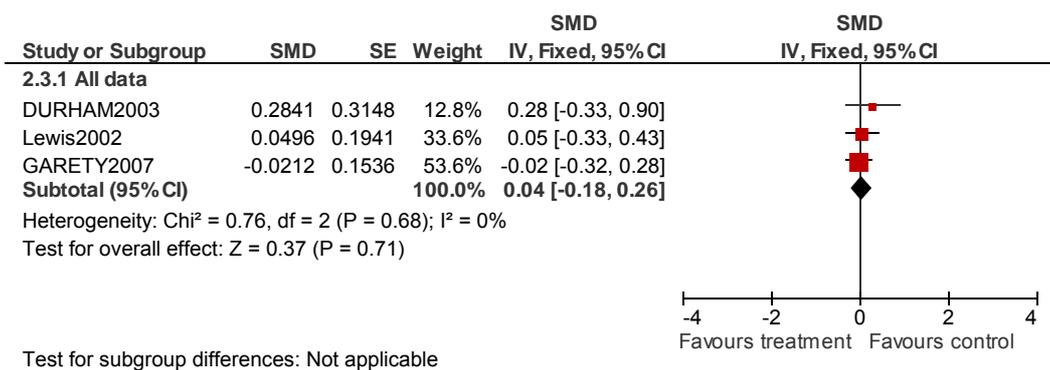


Psychological clinical evidence: CBT

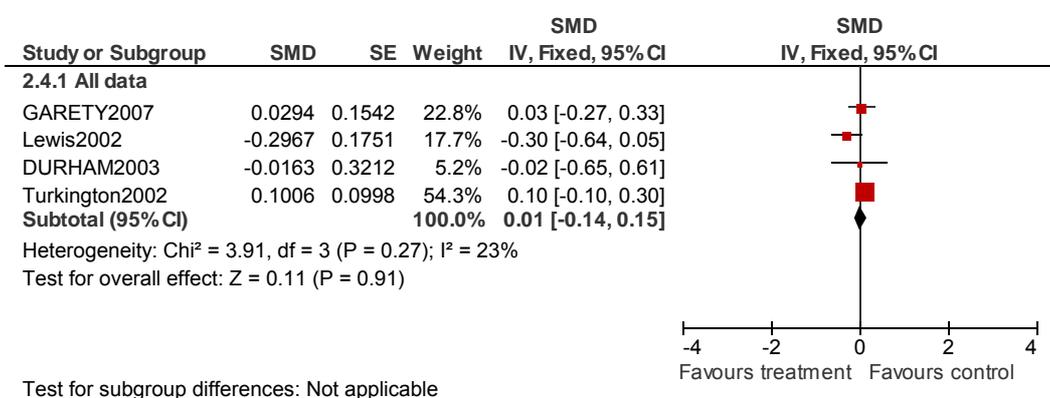
2.2 PSYRATS 1. Auditory Hallucinations subscale - at FU



2.3 PSYRATS 2. Delusions subscale - at end of treatment

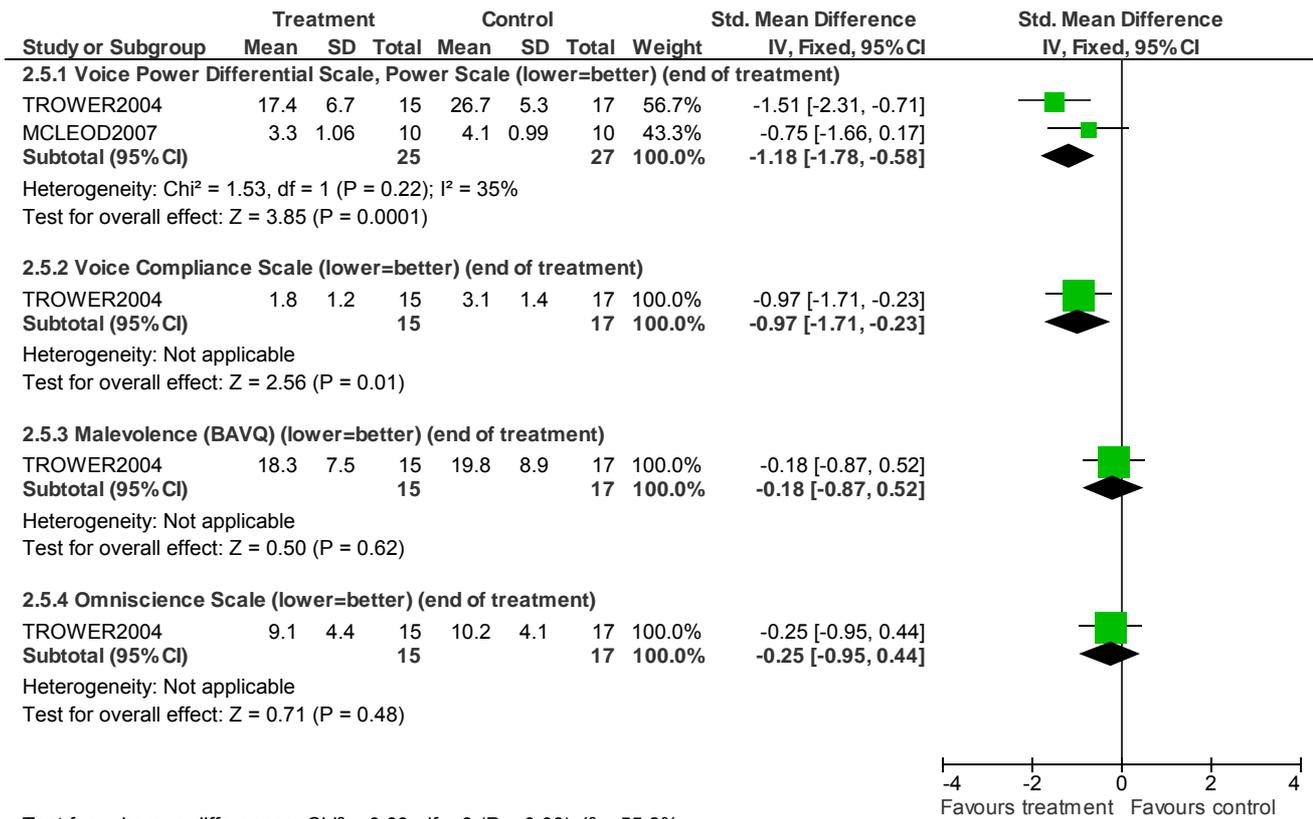


2.4 PSYRATS 2. Delusions subscale - at FU



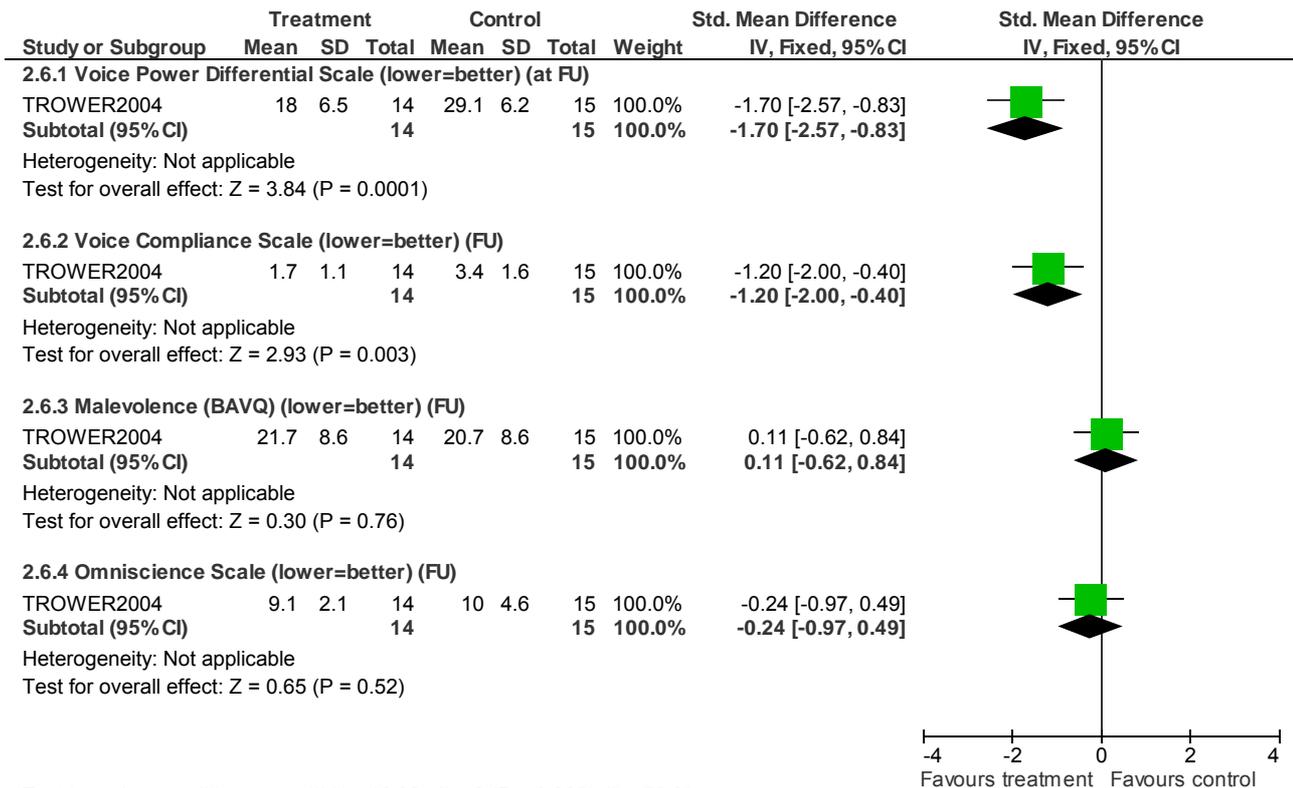
Psychological clinical evidence: CBT

2.5 Mental State: 1. Command Hallucinations - at end of treatment

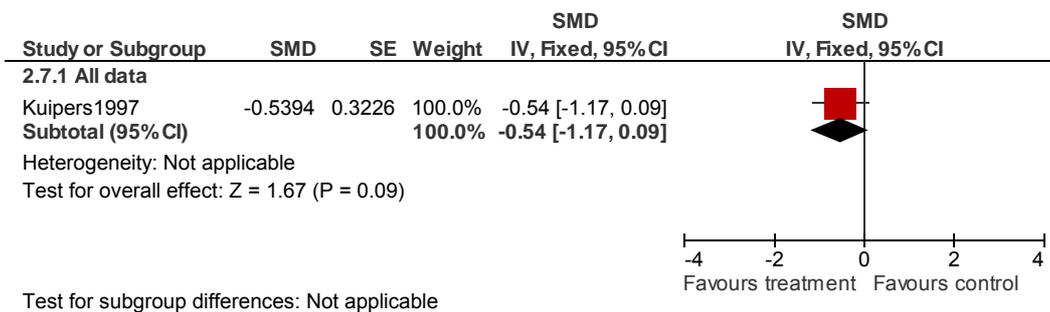


Psychological clinical evidence: CBT

2.6 Mental State: 1. Command Hallucinations - at FU

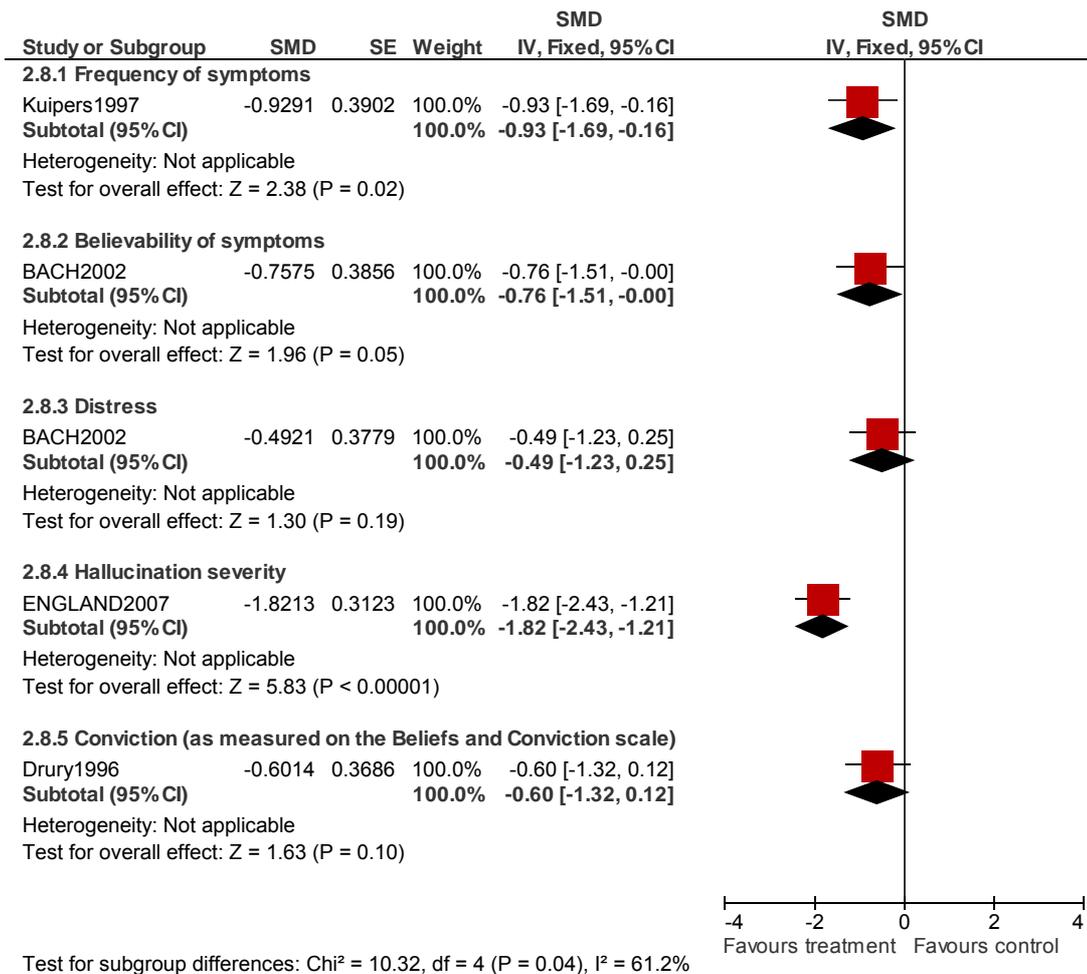


2.7 Mental State: 2. Maudsley Assessment of Delusions Schedule (MADS) - at FU

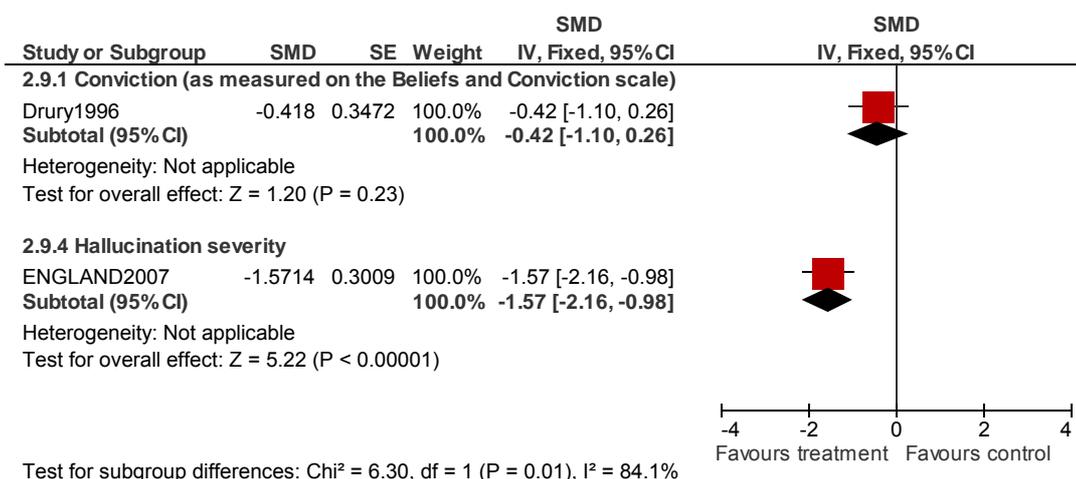


Psychological clinical evidence: CBT

2.8 Mental State: 3. Symptom specific measures - at end of treatment

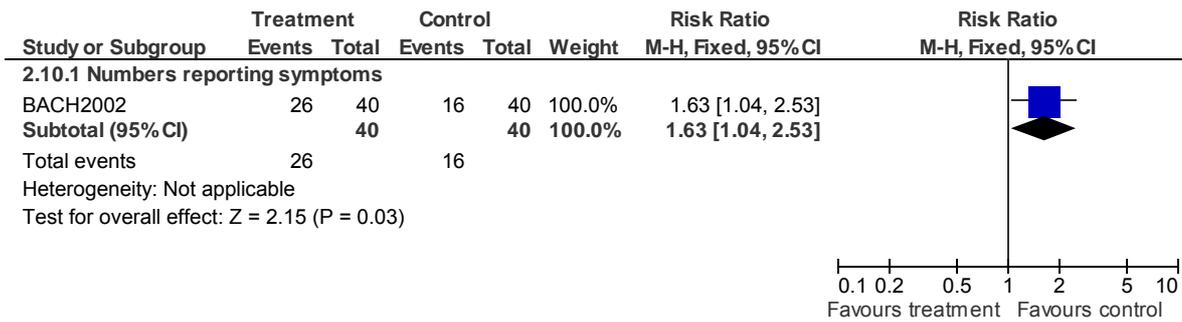


2.9 Mental State: 3. Symptom specific measures - at FU

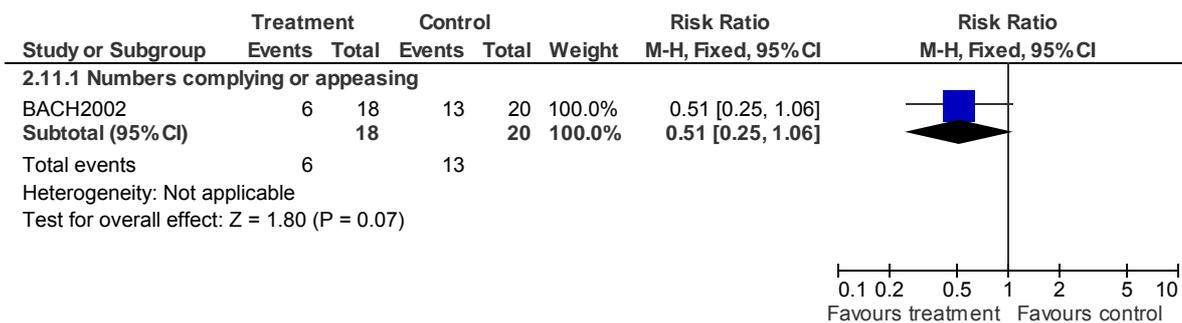


Psychological clinical evidence: CBT

2.10 Number of participants reporting symptoms (hallucinations and delusions) (at FU)

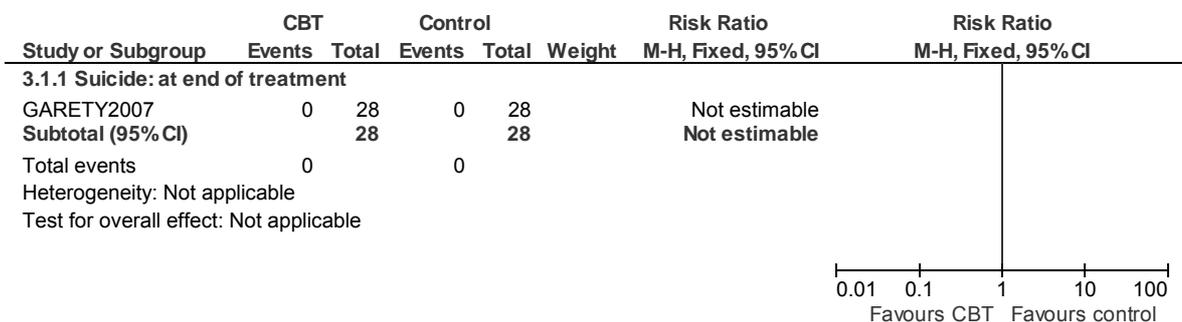


2.11 Number of participants complying with voices - at FU

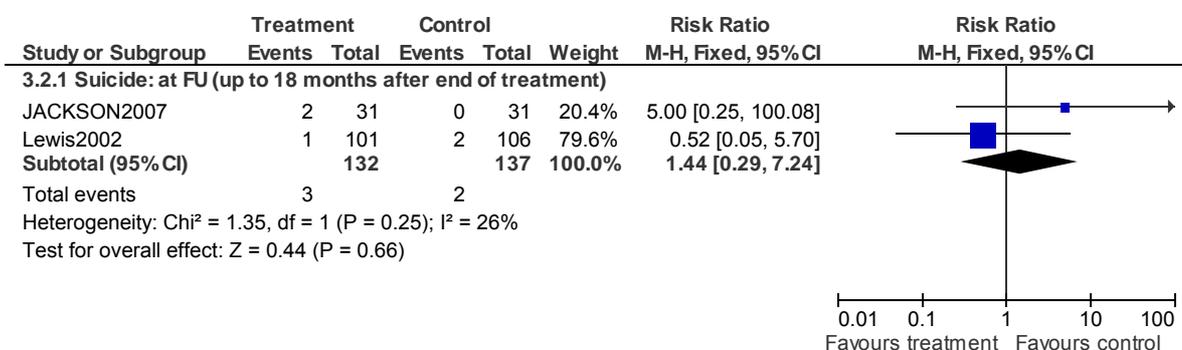


3 CBT versus other active treatments

3.1 Mortality (at end of treatment)

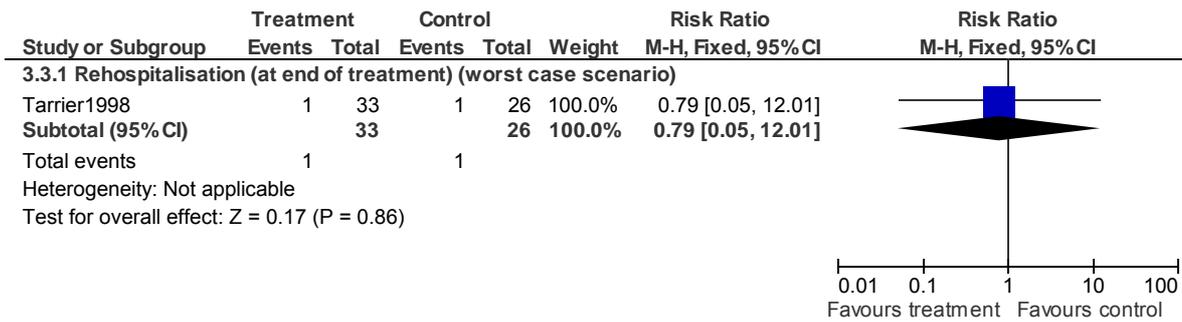


3.2 Mortality (at FU)

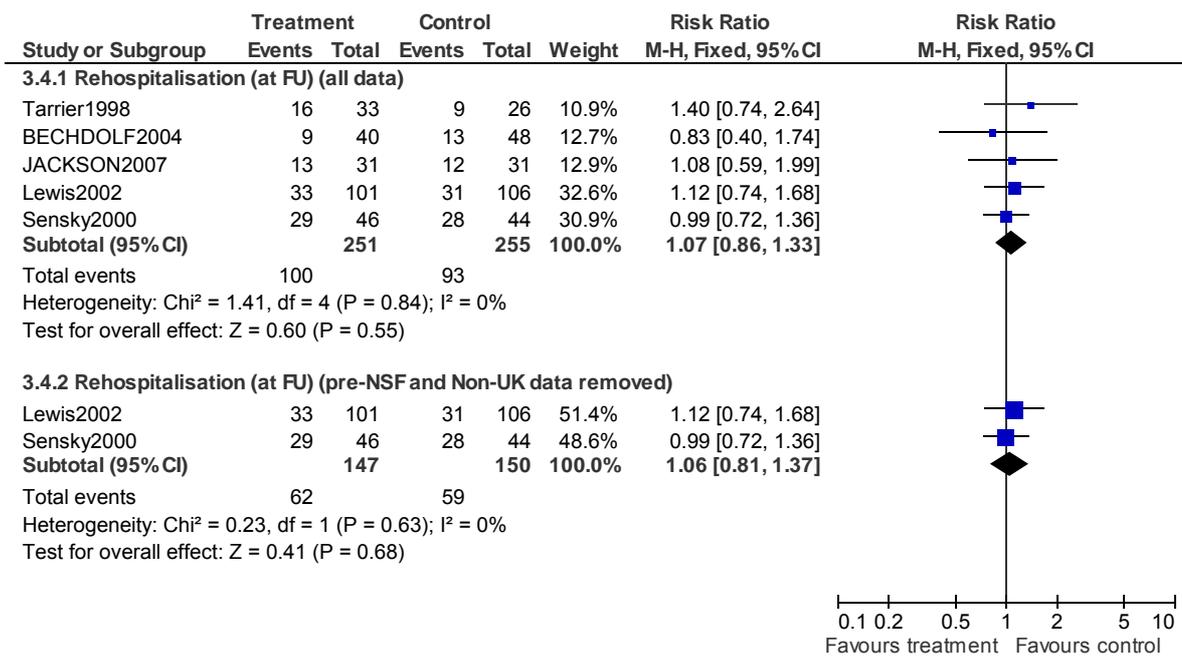


Psychological clinical evidence: CBT

3.3 Service outcome: 1. Rehospitalisation (at end of treatment)

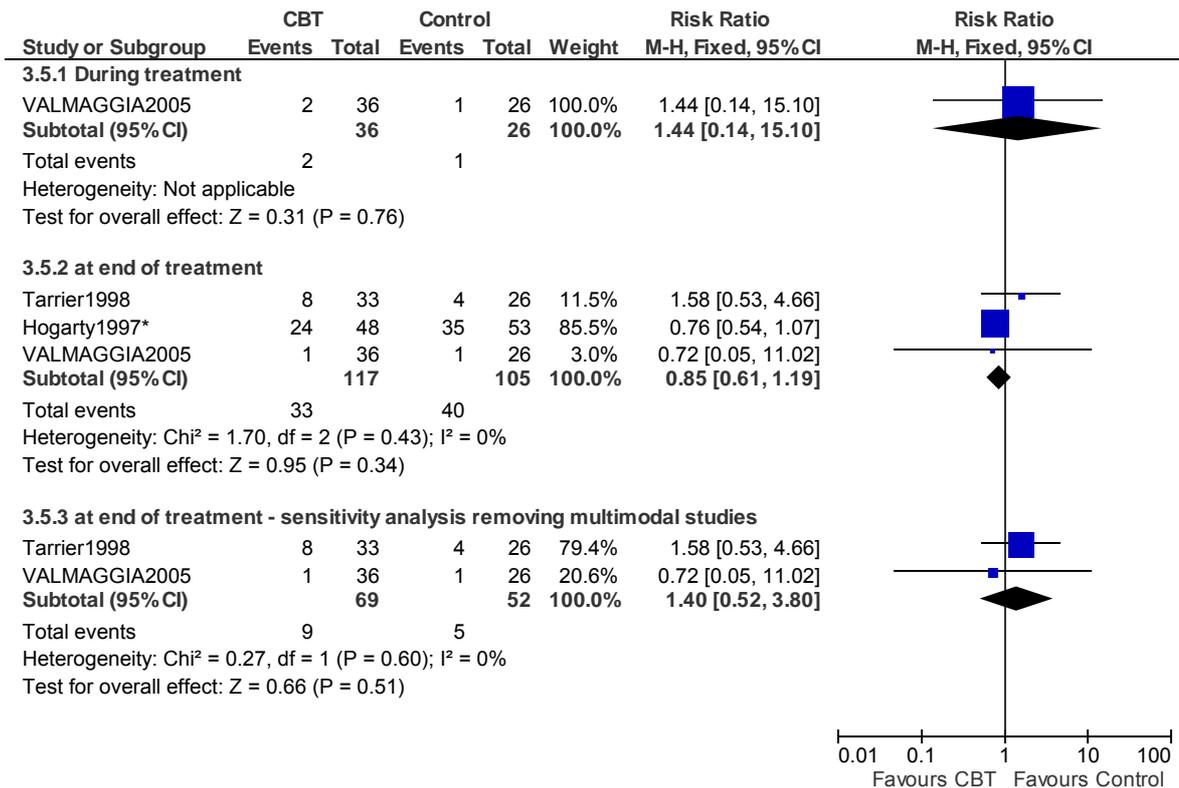


3.4 Service outcome: 1. Rehospitalisation (up to 2 years FU)

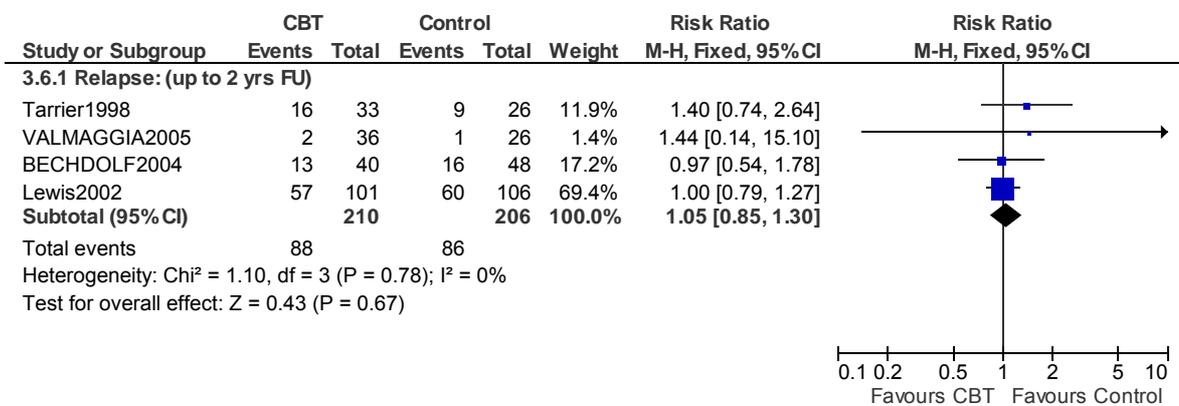


Psychological clinical evidence: CBT

3.5 Global state: 1. Relapse (at end of treatment)

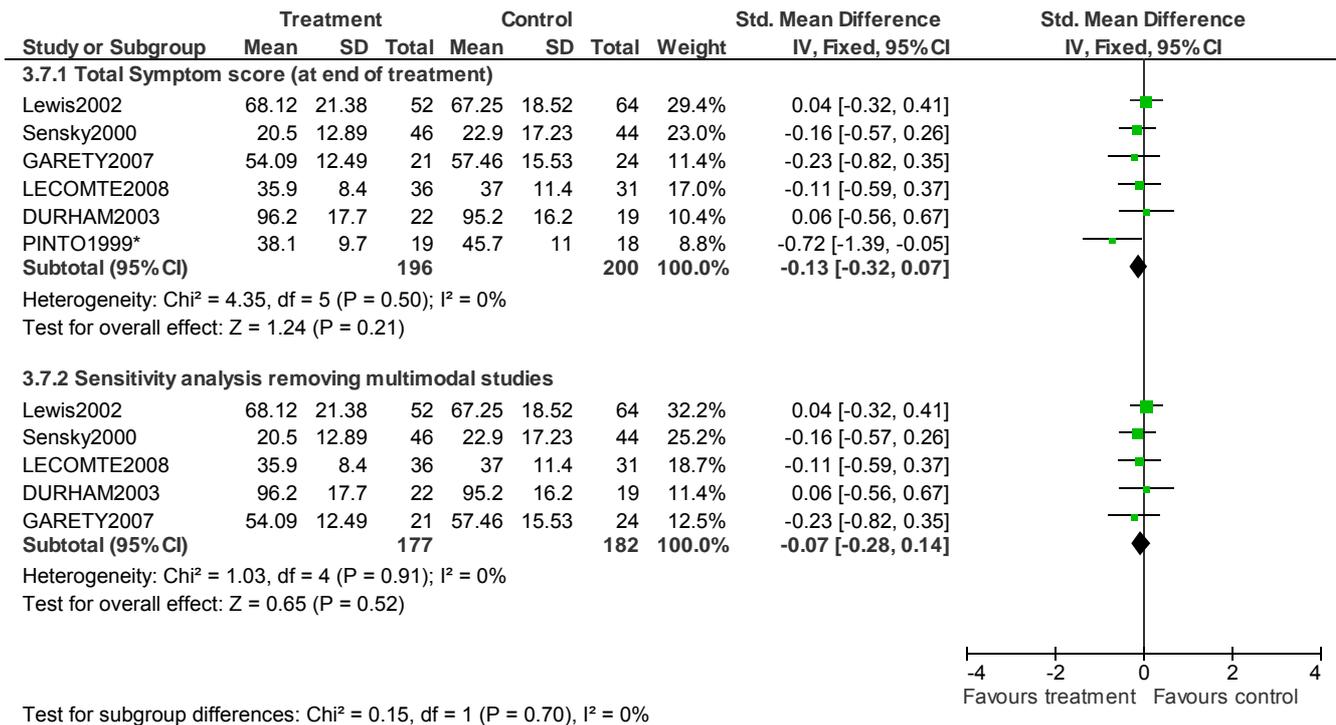


3.6 Global state: 1. Relapse (at FU)



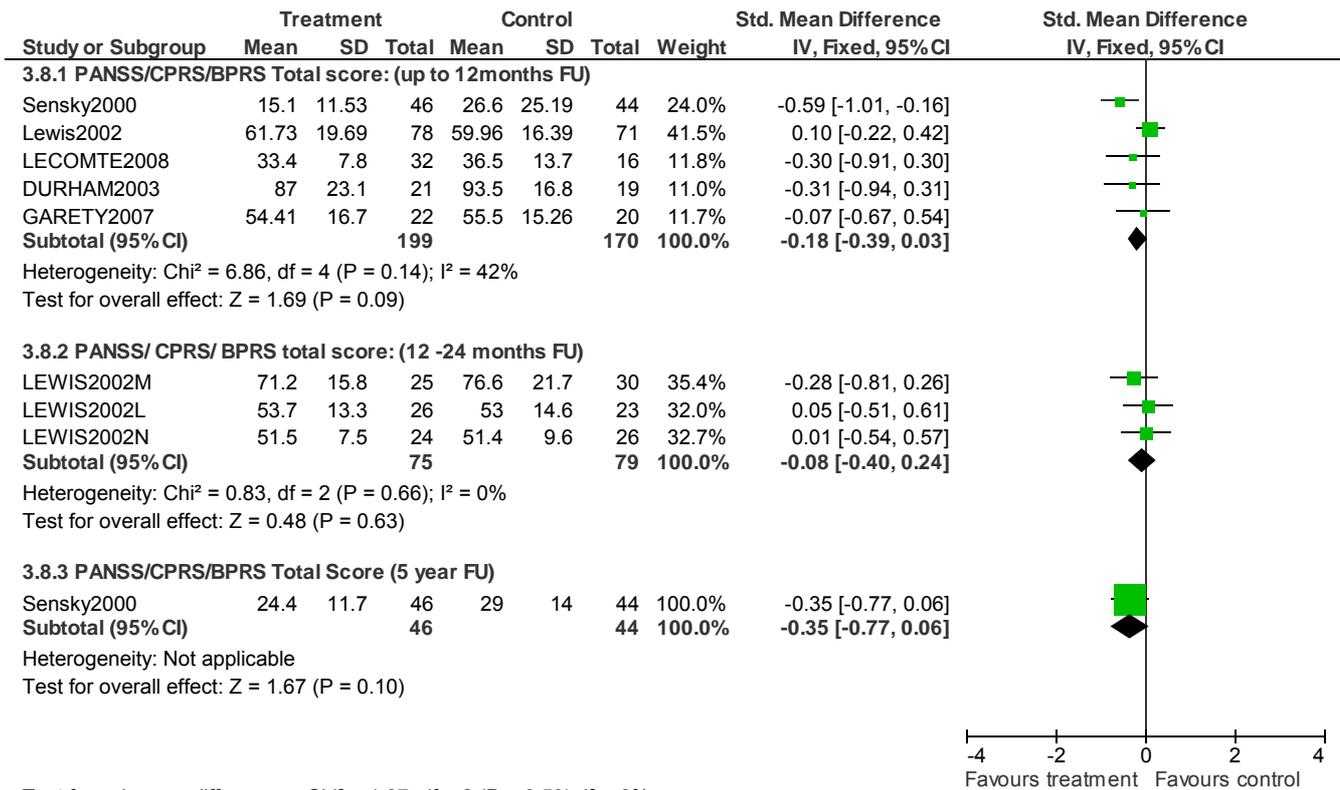
Psychological clinical evidence: CBT

3.7 Mental state: 1. Continuous measures - total symptom score (BPRS, PANSS, CPRS) (at end of treatment)



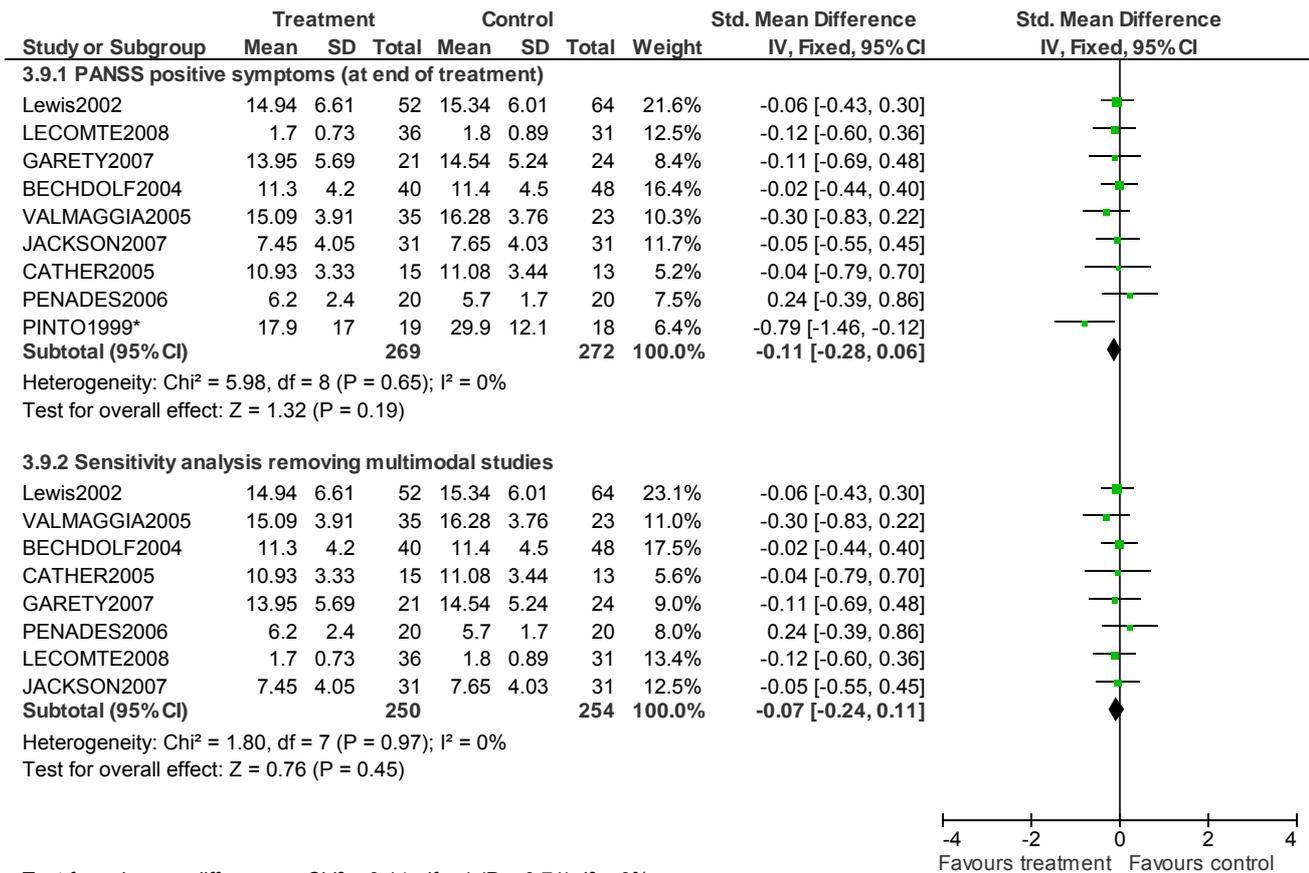
Psychological clinical evidence: CBT

3.8 Mental state: 1. Continuous measure - total score: (at FU)



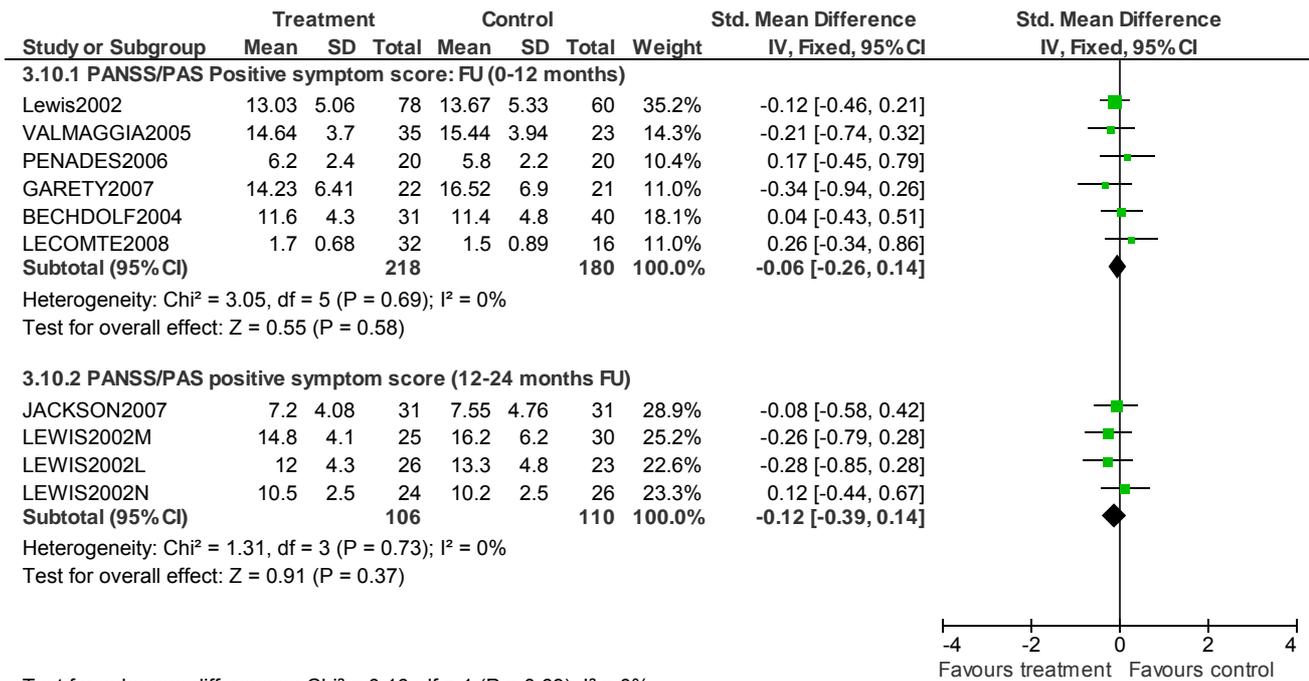
Psychological clinical evidence: CBT

3.9 Mental state: 2. Continuous measures - PANSS positive symptoms



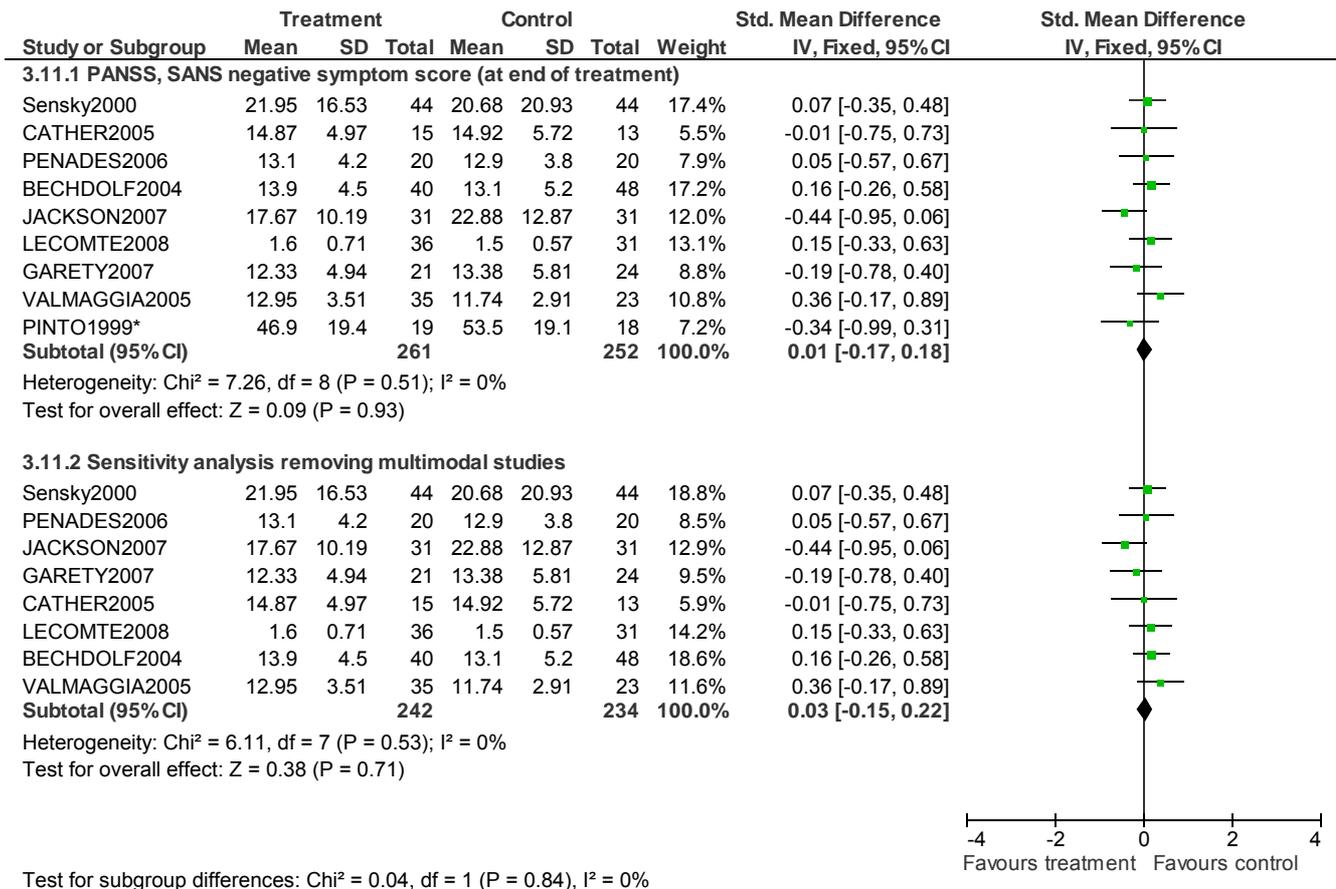
Psychological clinical evidence: CBT

3.10 Mental state: 2. Continuous measures - positive symptoms (at FU)



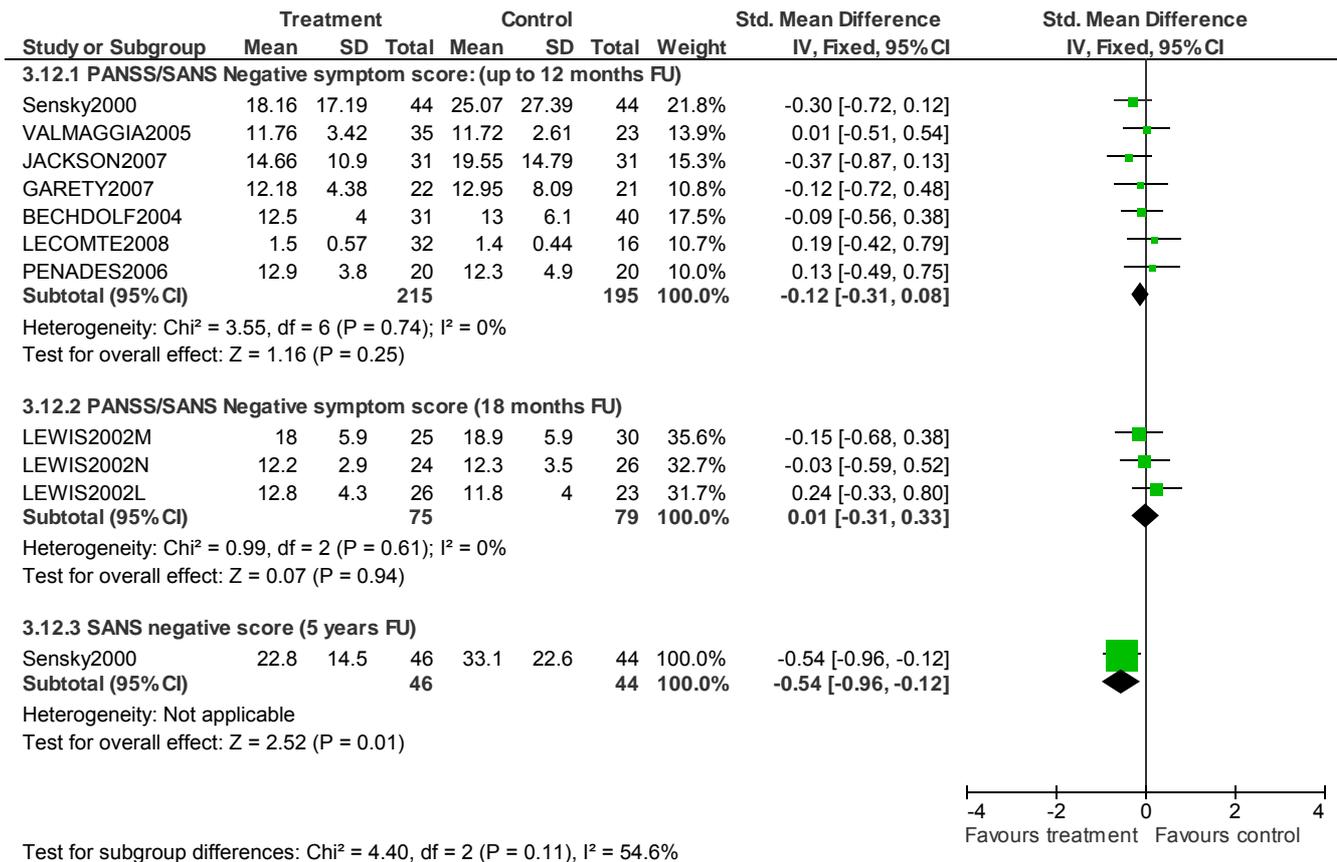
Psychological clinical evidence: CBT

3.11 Mental state: 3. Continuous measures - PANSS negative symptoms, SANS

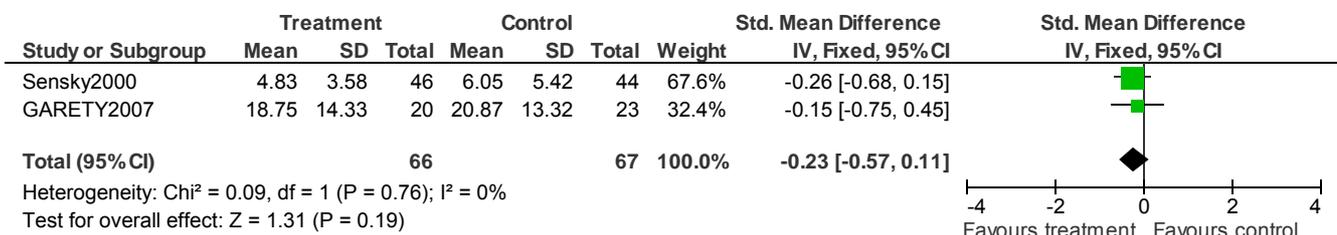


Psychological clinical evidence: CBT

3.12 Mental state: 3. Continuous measures - negative symptoms (at FU)

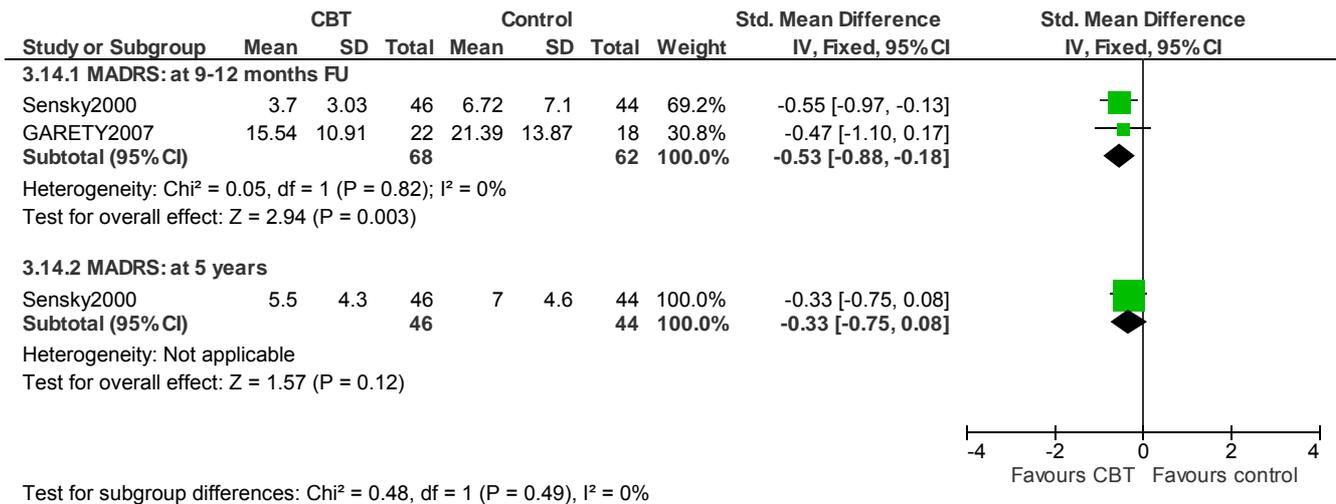


3.13 Mental state: 4. Depression: MADRS, BDI (at end of treatment)

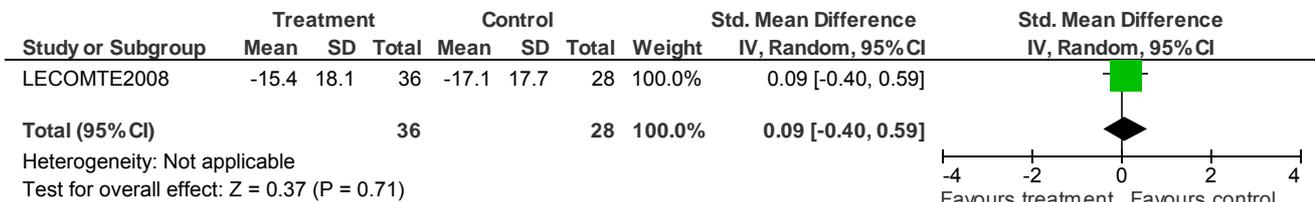


Psychological clinical evidence: CBT

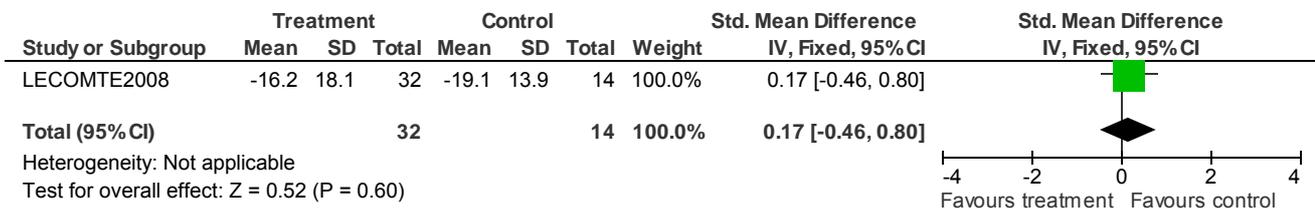
3.14 Mental state: 4. Depression: MADRS , BDI(at FU)



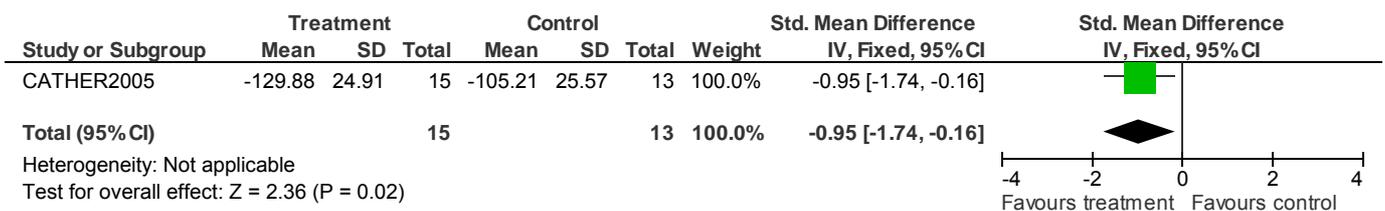
3.15 Mental state: 5. Self-esteem (RSES, RSCQ) (at end of treatment) (signs reversed)



3.16 Mental state: 5. Self-esteem (RSES, RSCQ) (at FU) (signs reversed)

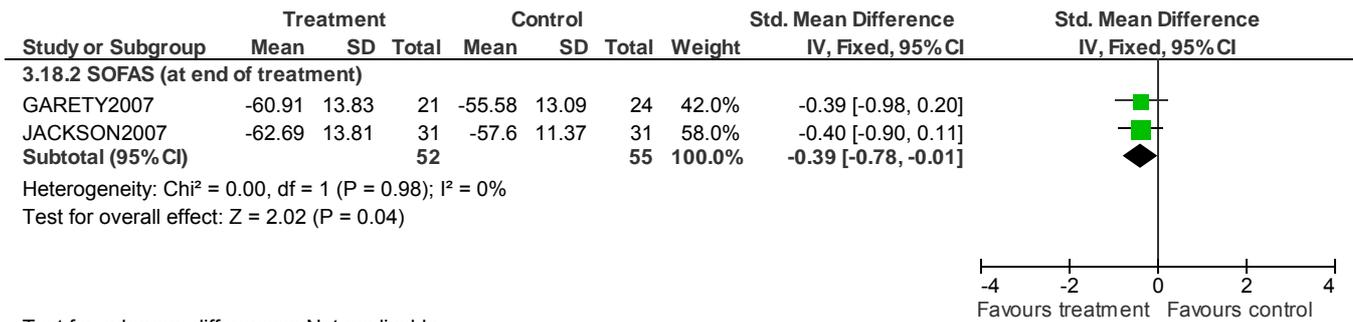


3.17 Psychosocial Functioning: 1. Social Functioning Scale (end of treatment) (signs reversed)

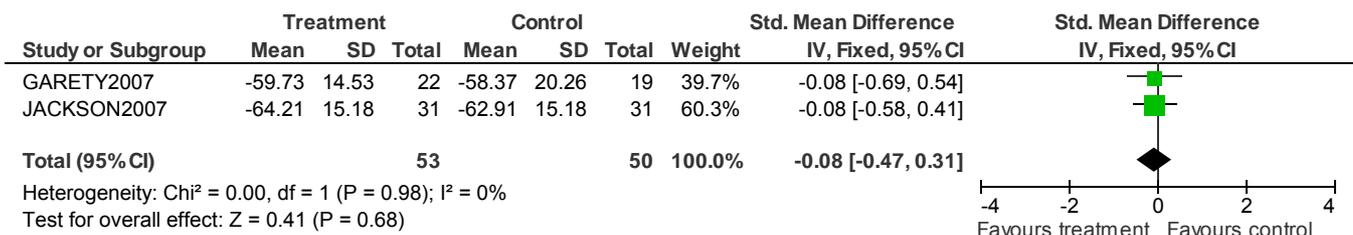


Psychological clinical evidence: CBT

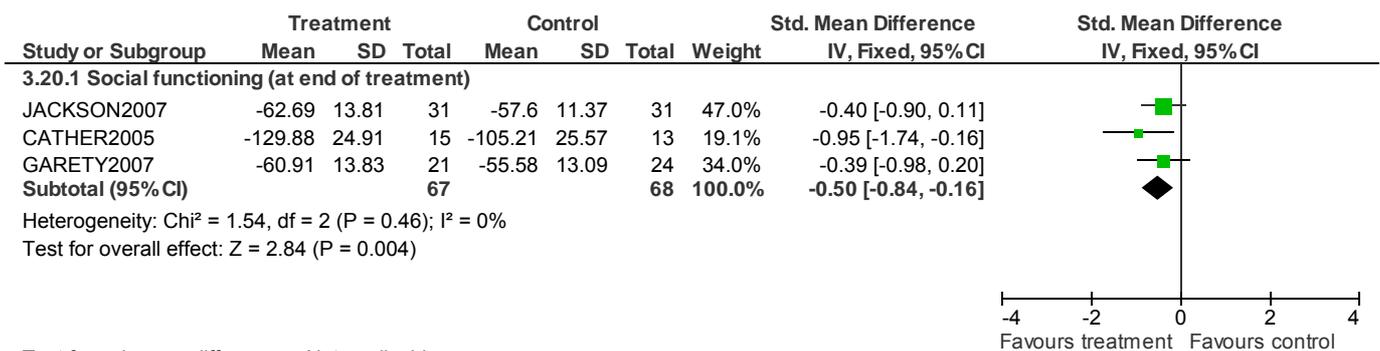
3.18 Psychosocial Functioning: 2. Social and Occupational Functioning Assessment Scale (signs reversed)



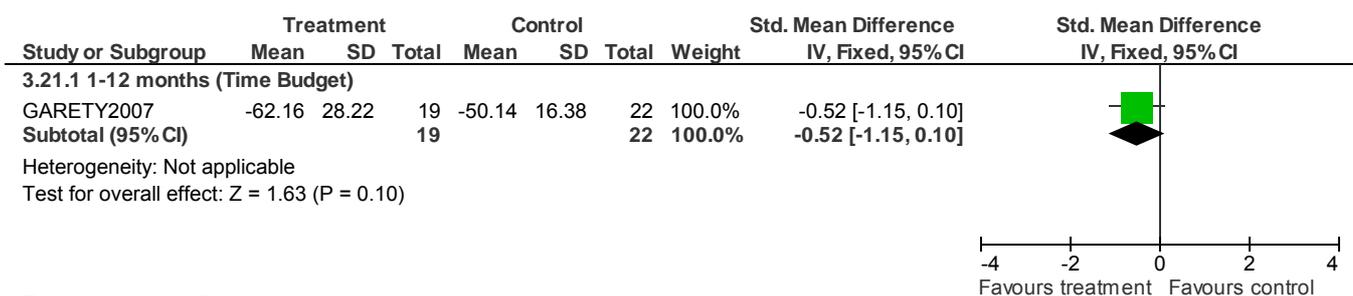
3.19 Psychosocial Functioning: 2. Social and Occupational Assessment Scale (signs reversed) (up to 12 months FU)



3.20 Psychosocial Functioning: 1-2 combined (SFS, SBS, SOFAS combined) (at end of treatment) (signs reversed)

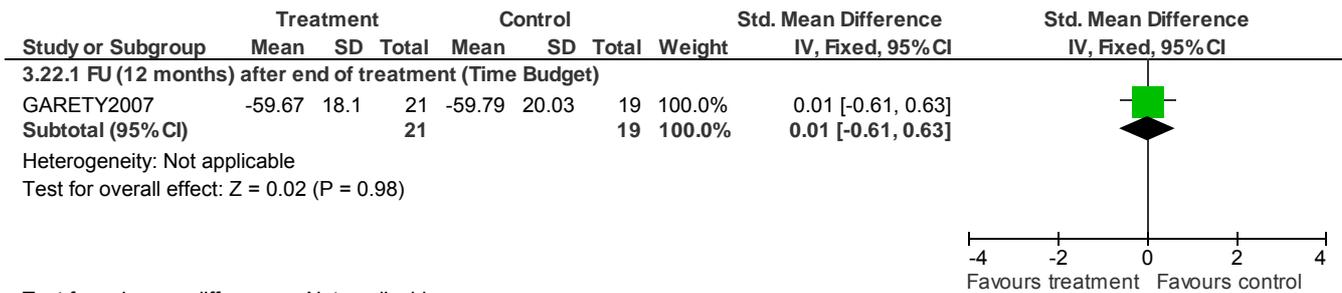


3.21 Psychosocial Functioning: 3. Social functioning - Time budget (signs reversed) (at end of treatment)

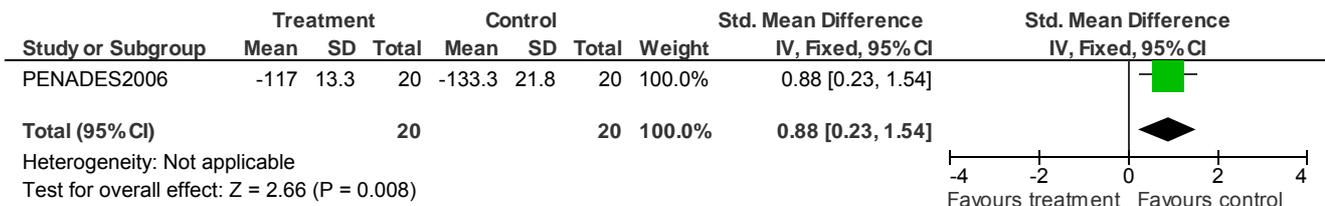


Psychological clinical evidence: CBT

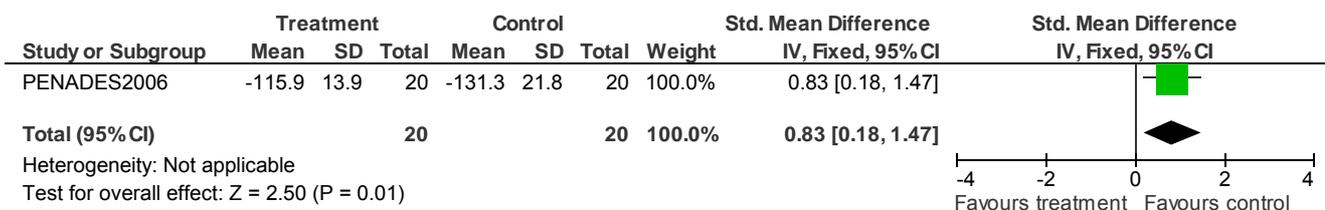
3.22 Psychosocial Functioning: 3. Social functioning - Time budget (signs reversed) (6-12 mths FU)



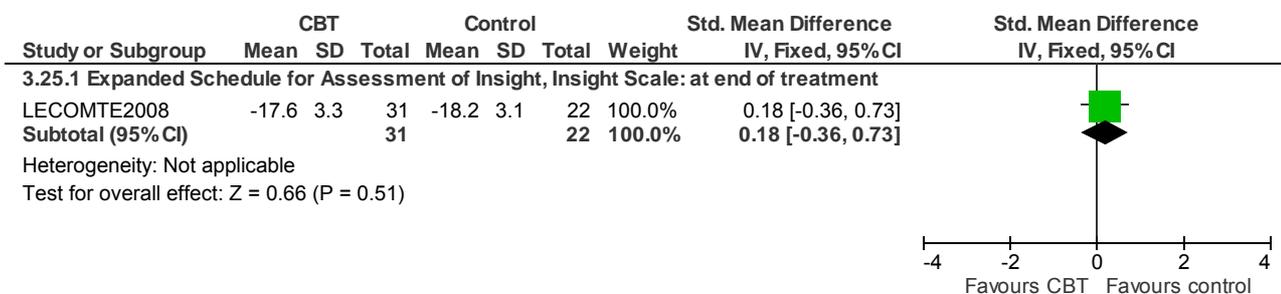
3.23 Psychosocial Functioning: 4. Life Skills Profile (end of treatment) (signs reversed)



3.24 Psychosocial Functioning: 4. Life Skills Profile (signs reversed) (at FU)

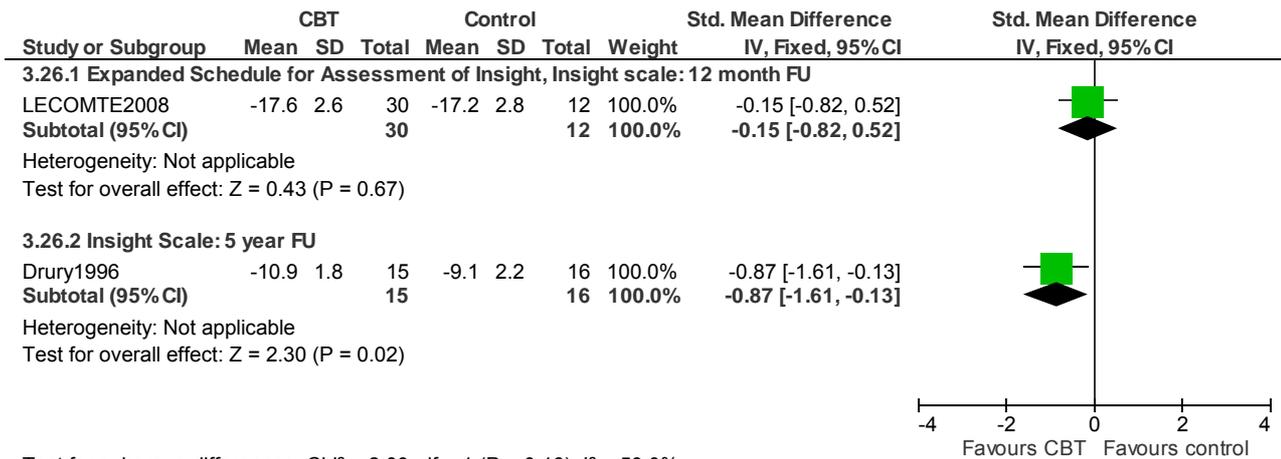


3.25 Insight (signs reversed)

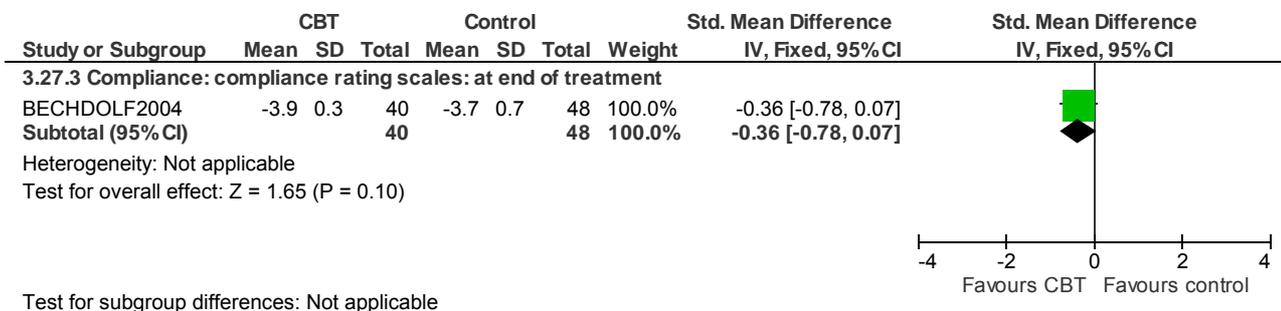


Psychological clinical evidence: CBT

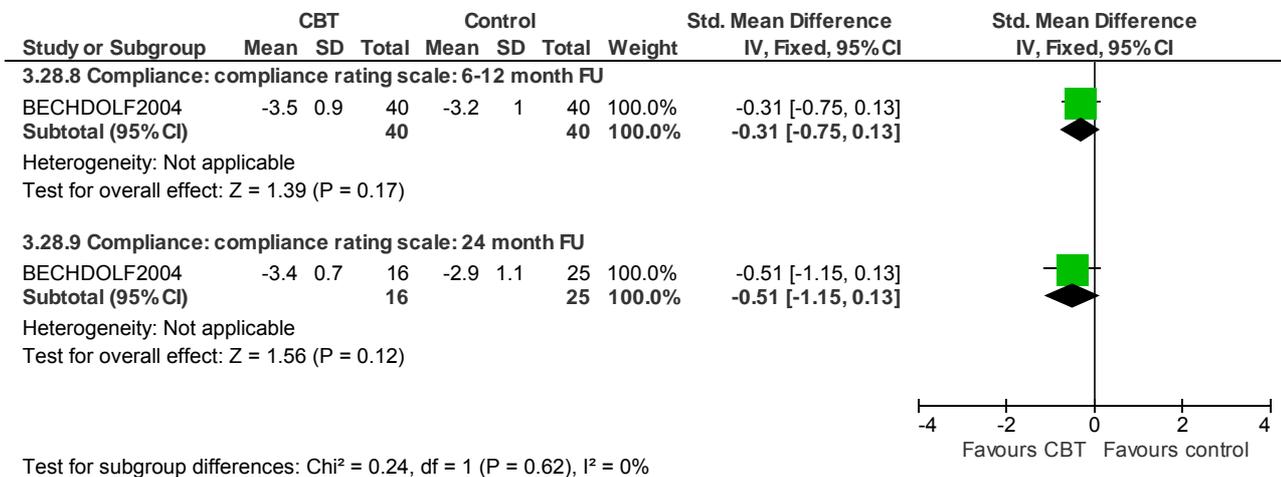
3.26 Insight (at FU)



3.27 Non-adherence to study medication (at end of treatment)

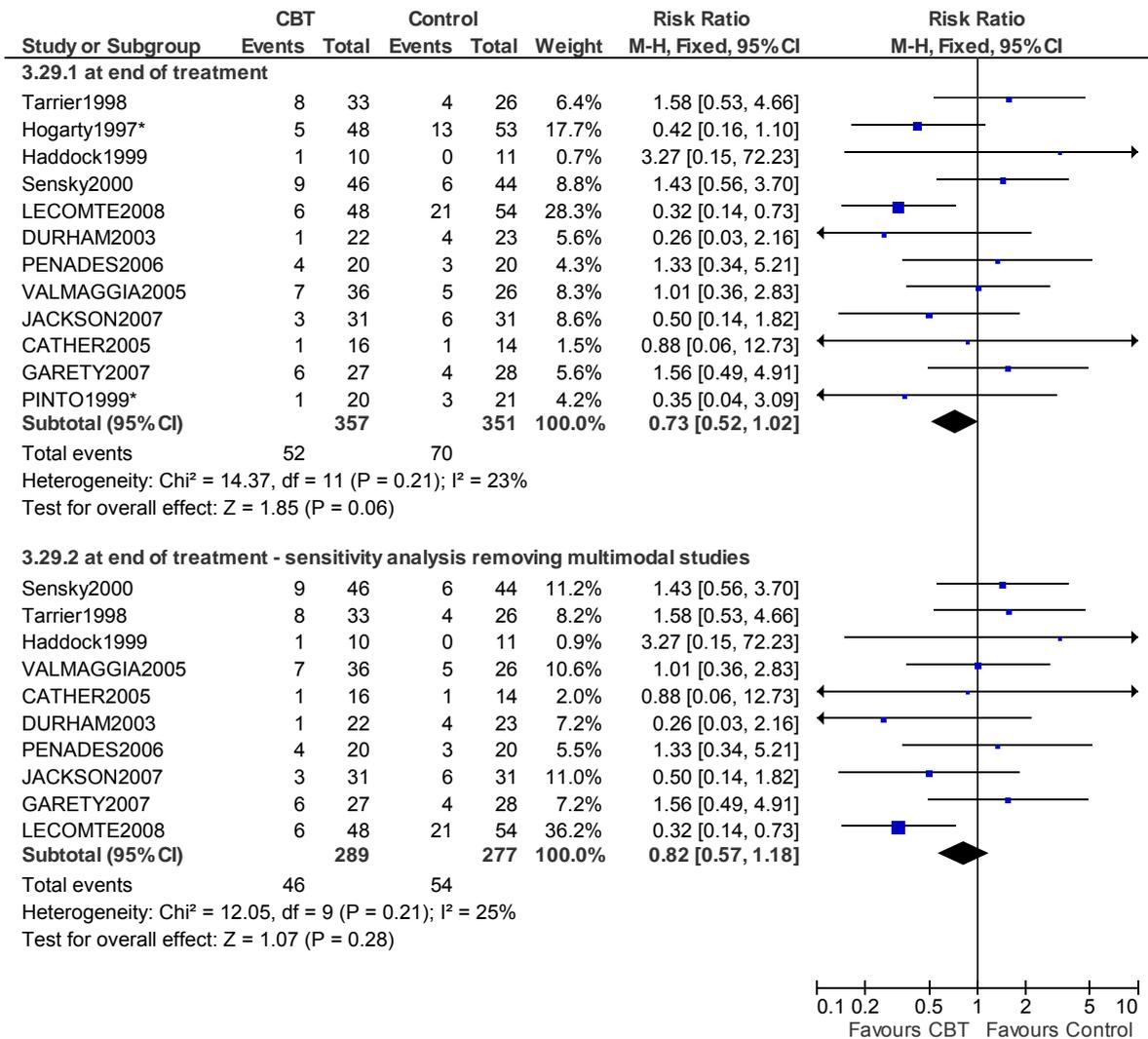


3.28 Non-adherence to study medication (at FU)



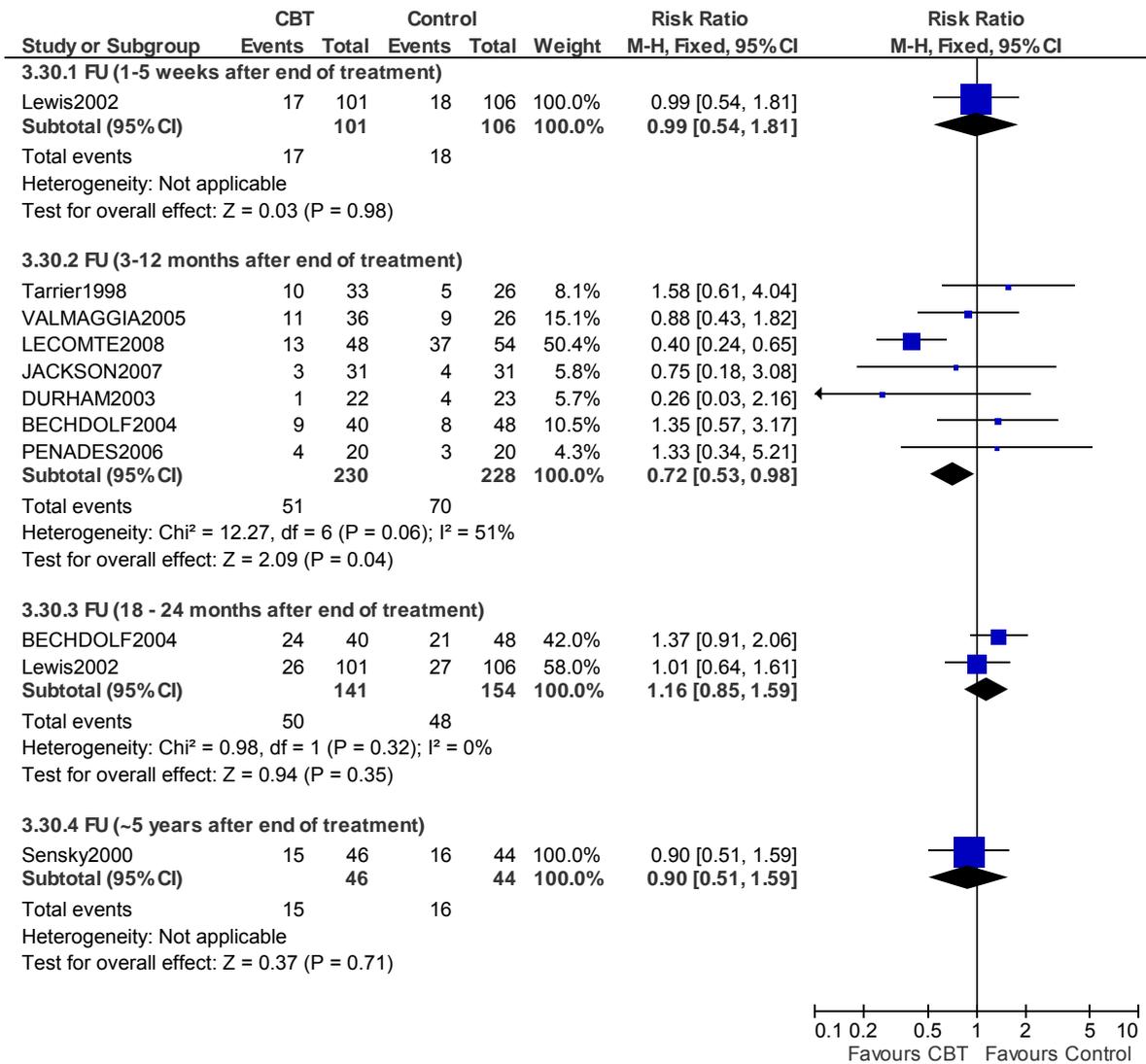
Psychological clinical evidence: CBT

3.29 Treatment acceptability: 1. Leaving the study early (at end of treatment)



Psychological clinical evidence: CBT

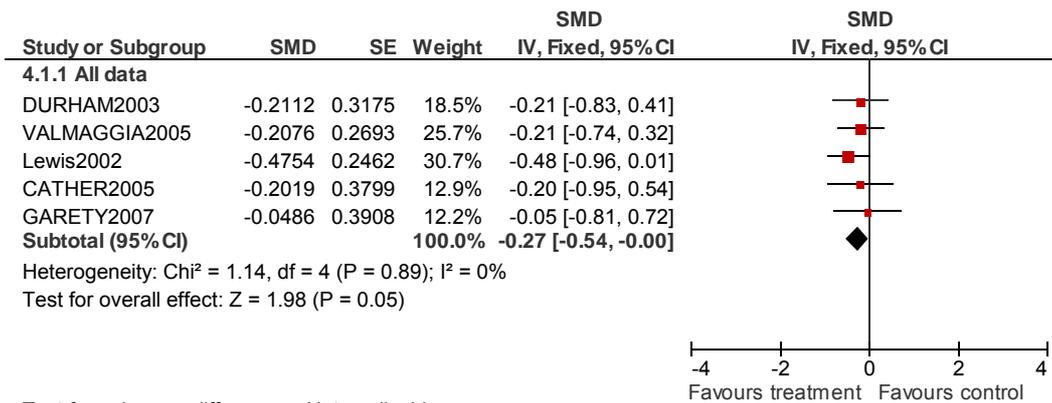
3.30 Treatment acceptability: 1. Leaving the study early (at FU)



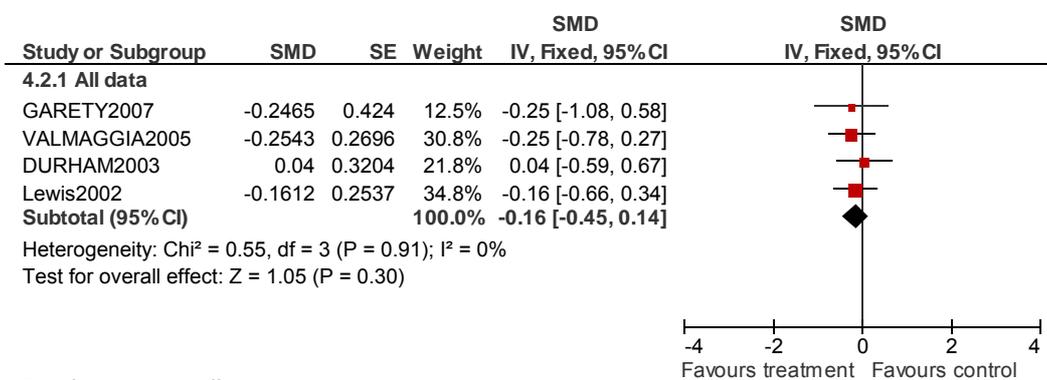
4 CBT versus other active treatments (PSYRATS UK data, hallucination and delusions data)

Psychological clinical evidence: CBT

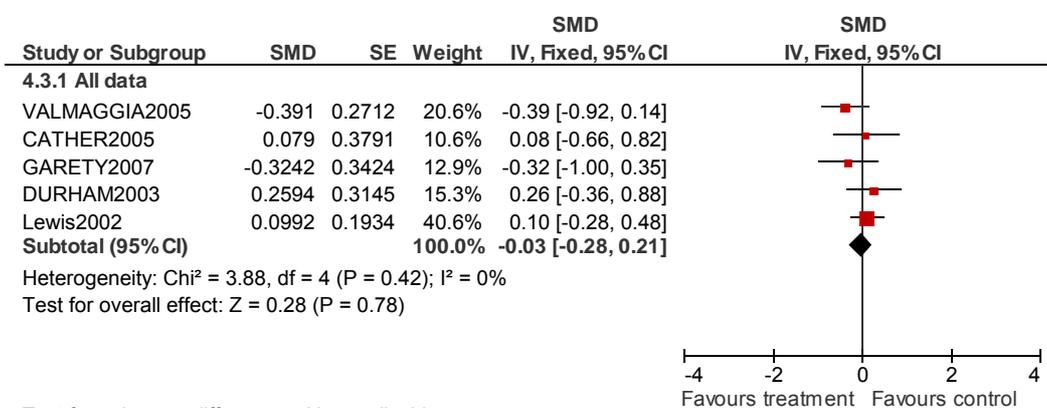
4.1 PSYRATS 1. Auditory Hallucinations subscale - at end of treatment



4.2 PSYRATS 1. Auditory Hallucinations subscale - at FU

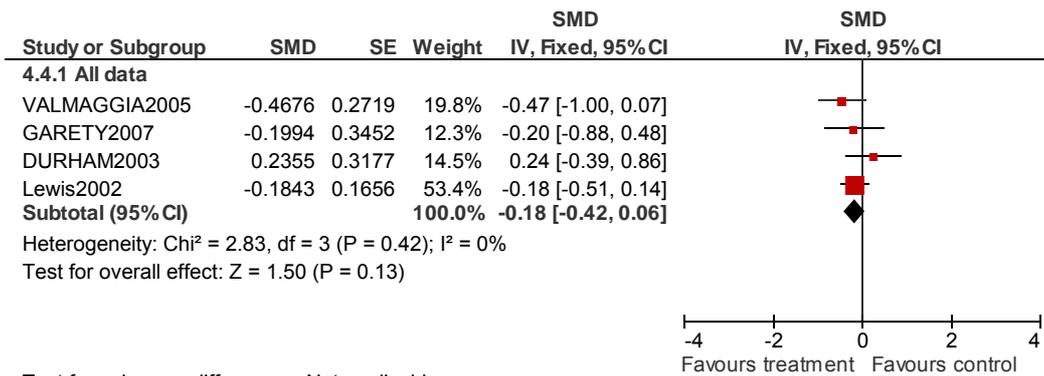


4.3 PSYRATS 2. Delusions subscale - at end of treatment



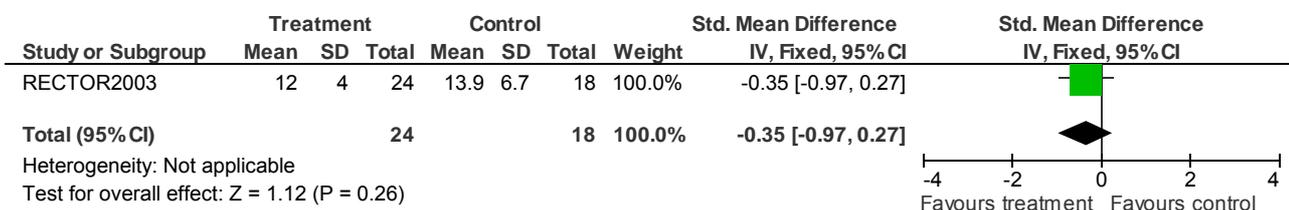
Psychological clinical evidence: CBT

4.4 PSYRATS 2. Delusions subscale - at FU

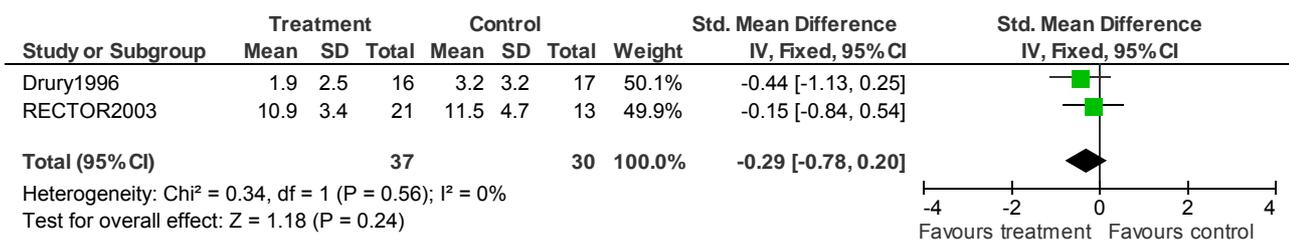


5 CBT versus non-standard care

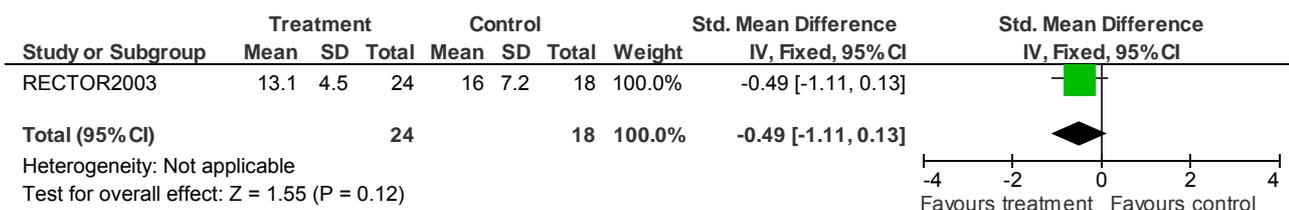
5.1 Mental state: 1. Continuous measures - PANSS positive symptoms (at end of treatment)



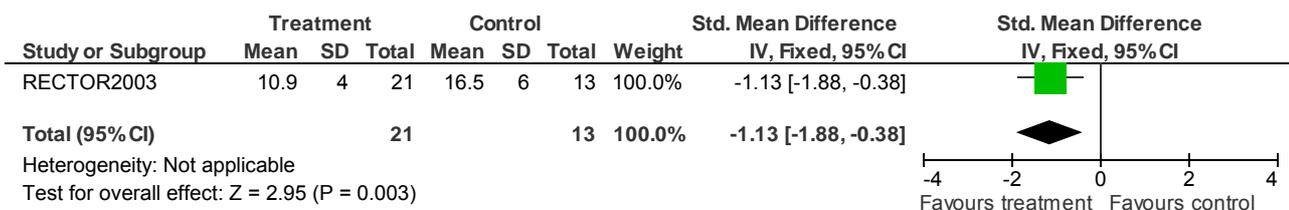
5.2 Mental state: 1. Continuous measures - PANSS positive (lower = better) (at FU)



5.3 Mental state: 2. Continuous measures - PANSS negative symptoms (at end of treatment)

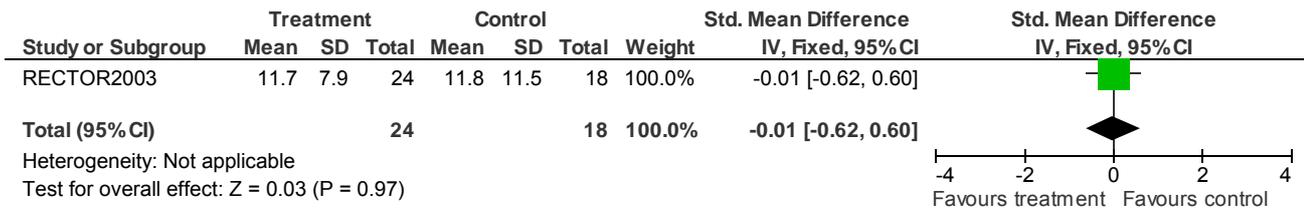


5.4 Mental state: 2. Continuous measures - PANSS negative (lower = better) (at FU)

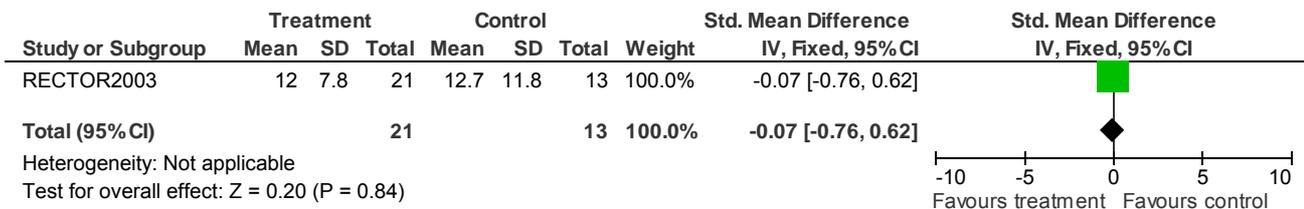


Psychological clinical evidence: CBT

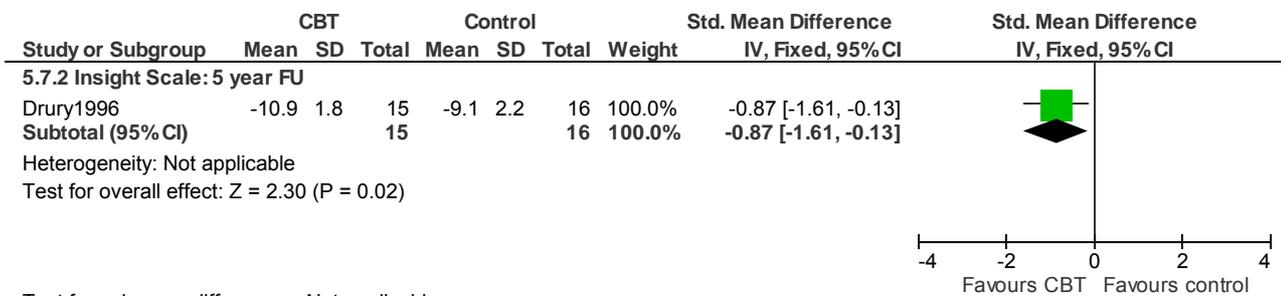
5.5 Mental state: 3. Depression: BDI (lower = better) (at end of treatment)



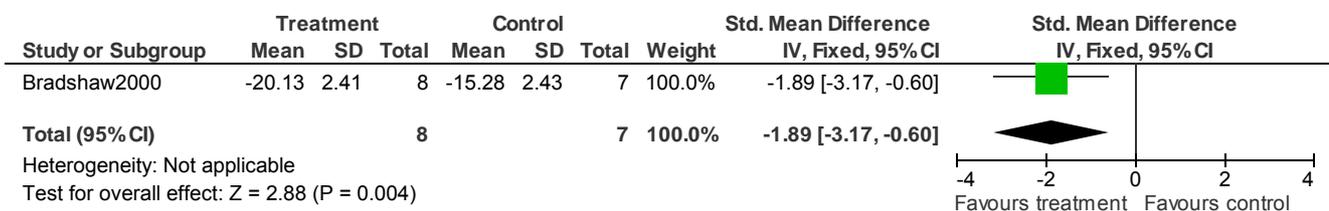
5.6 Mental state: 3. Depression: BDI (lower = better) (at FU)



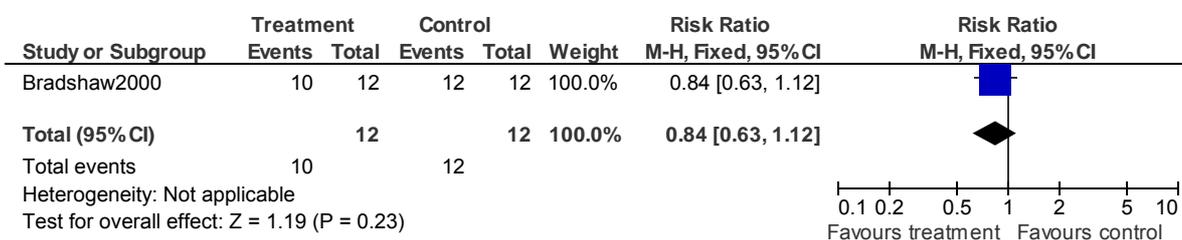
5.7 Insight (at FU)



5.8 Psychosocial Functioning: 1. Continuous measures - role functioning Scale (at end of treatment)

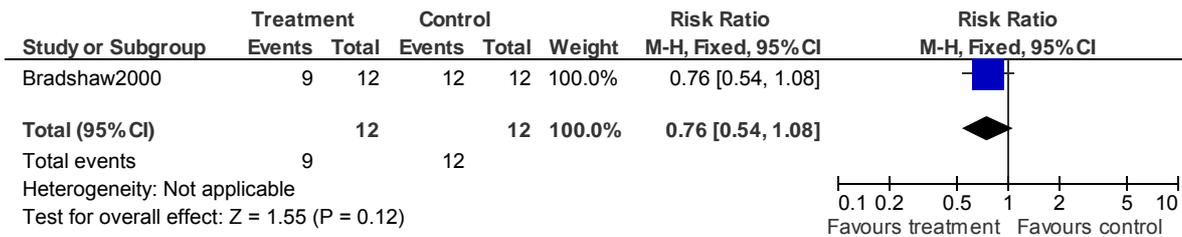


5.9 Psychosocial Functioning: 2. Not living independently (at end of treatment)

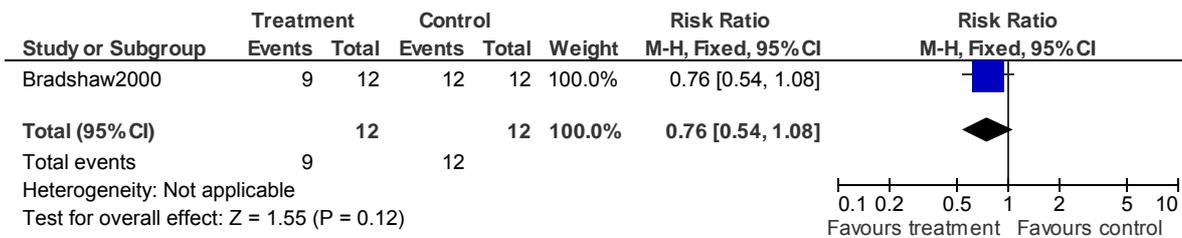


Psychological clinical evidence: CBT

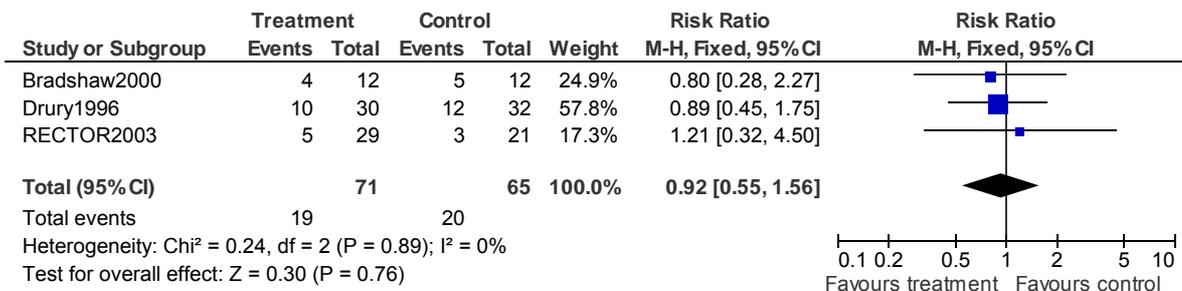
5.10 Psychosocial Functioning: 3. Not returned to education (at end of treatment)



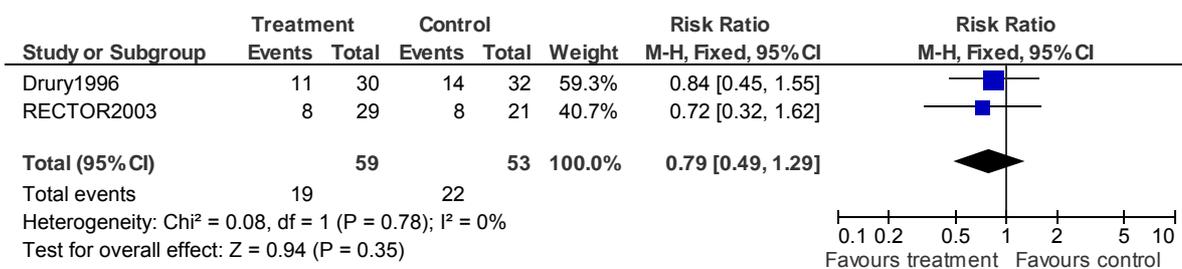
5.11 Psychosocial Functioning: 4. Not employed part-time (at end of treatment)



5.12 Treatment acceptability: 1. Leaving study early (at end of treatment)



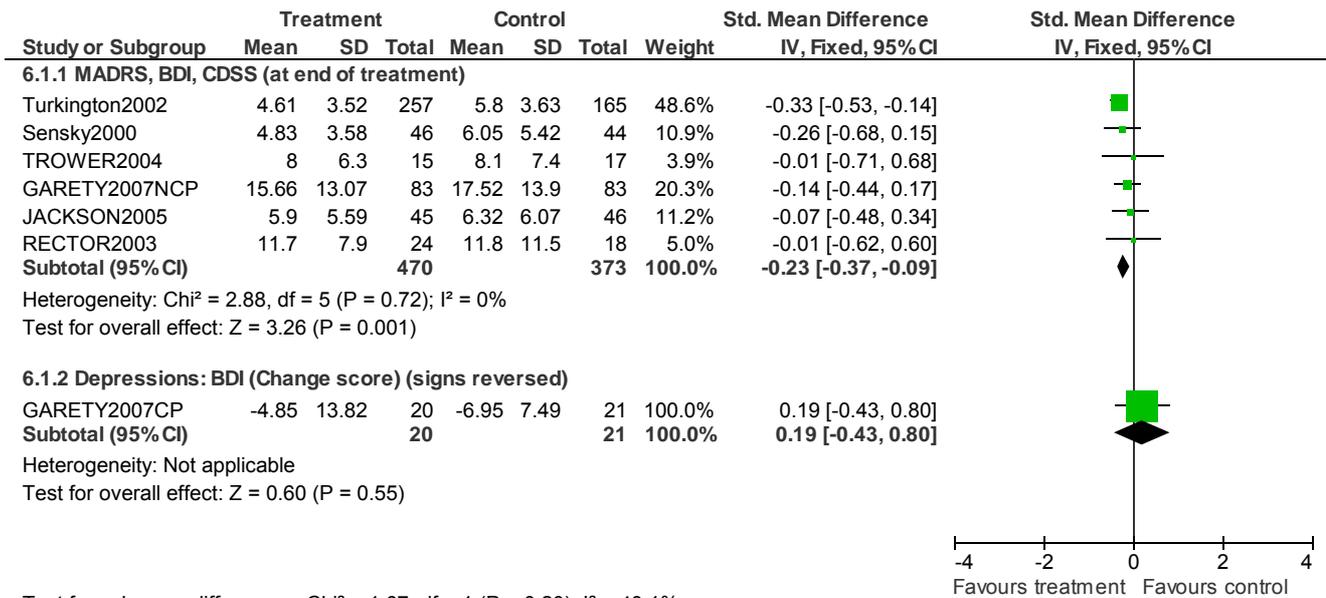
5.13 Treatment acceptability: 1. Leaving the study early (up to 12 months FU)



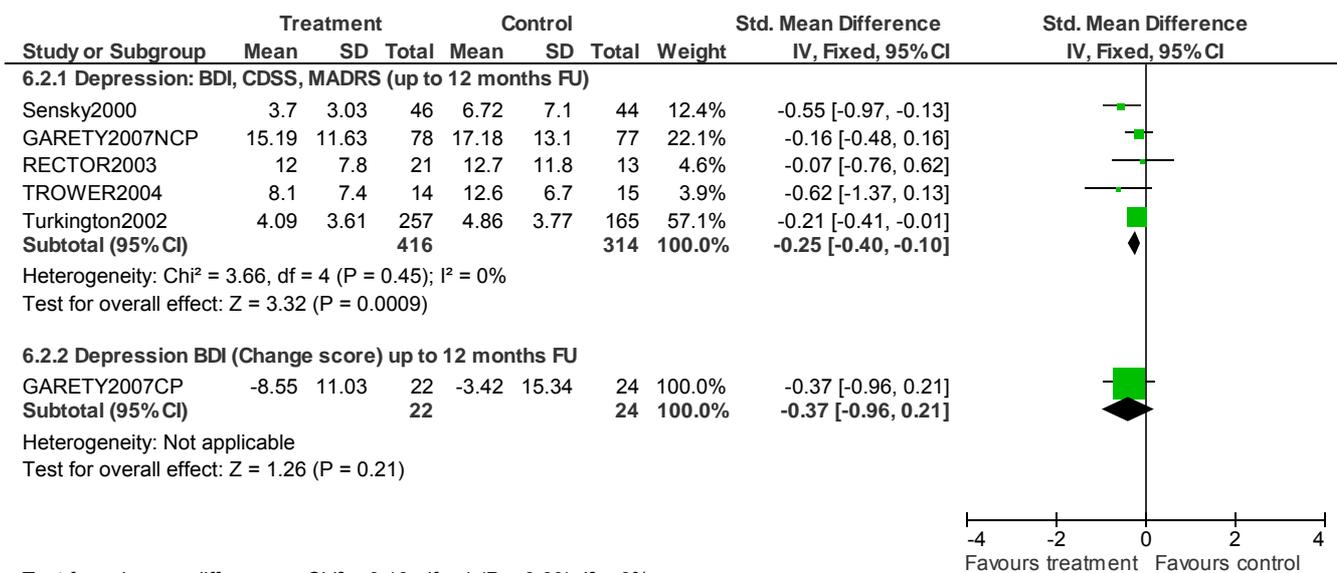
6 CBT versus any control (selected critical outcomes only)

Psychological clinical evidence: CBT

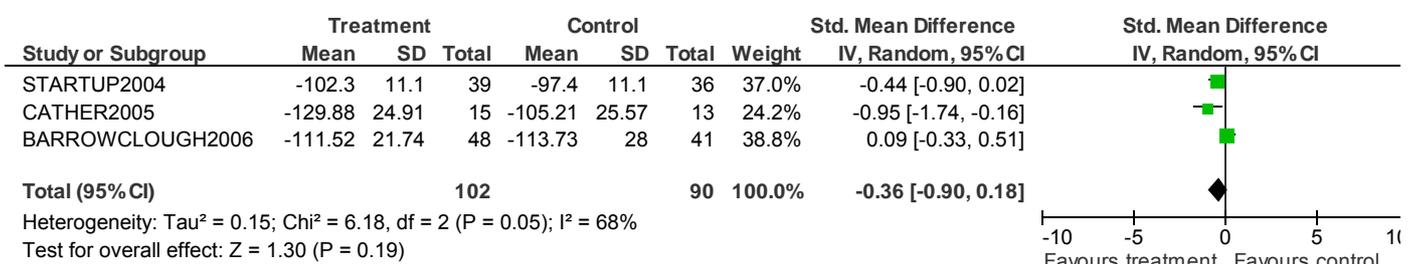
6.1 Mental state: 1. Depression: MADRS, BDI, CDSS (at end of treatment)



6.2 Mental state: 1. Depression: MADRS, BDI, CDSS (at FU)

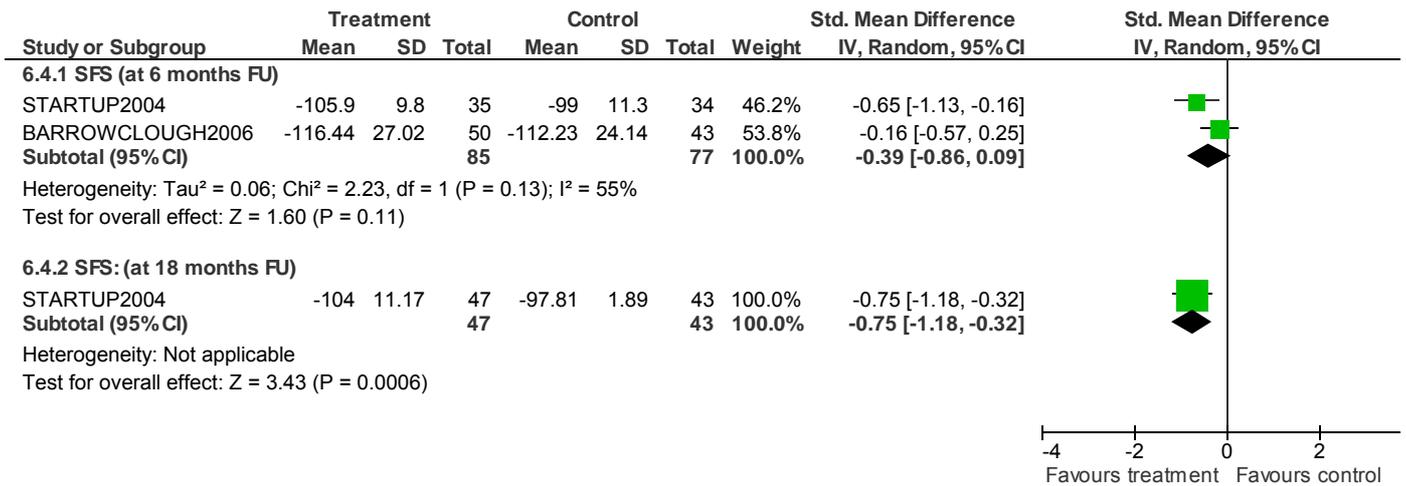


6.3 Psychosocial Functioning: 1. Social Functioning Scale (end of treatment) (signs reversed)

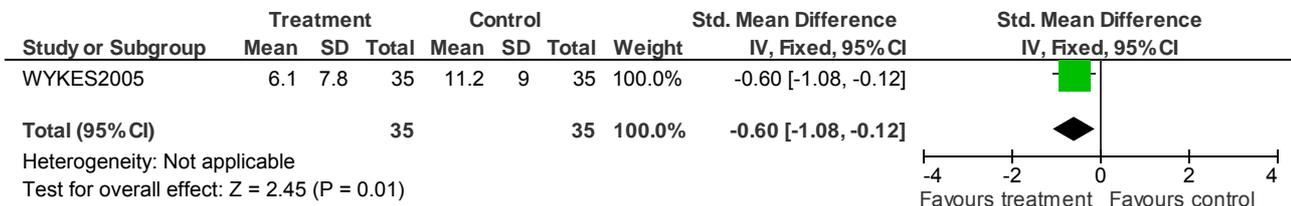


Psychological clinical evidence: CBT

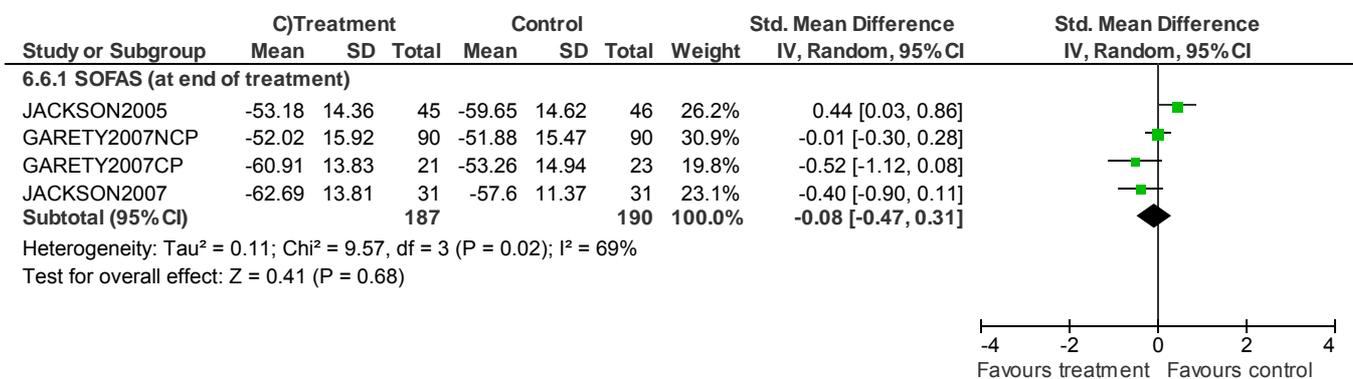
6.4 Psychosocial Functioning: 1. Social Functioning Scale (at FU) (signs reversed)



6.5 Psychosocial Functioning: 2. Social Behaviour Scale (lower = better) (at end of treatment)

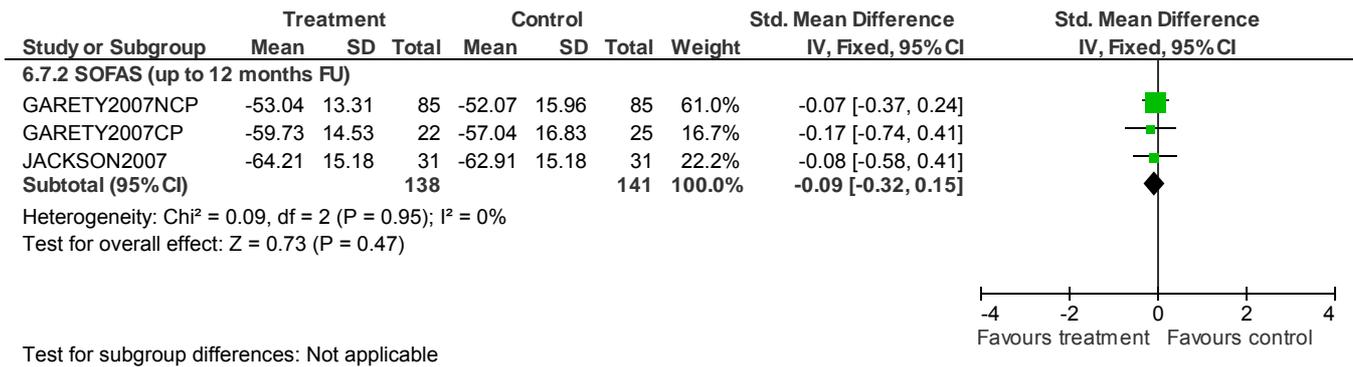


6.6 Psychosocial Functioning: 3. Social and Occupational Functioning Scale (signs reversed) (at end of treatment)

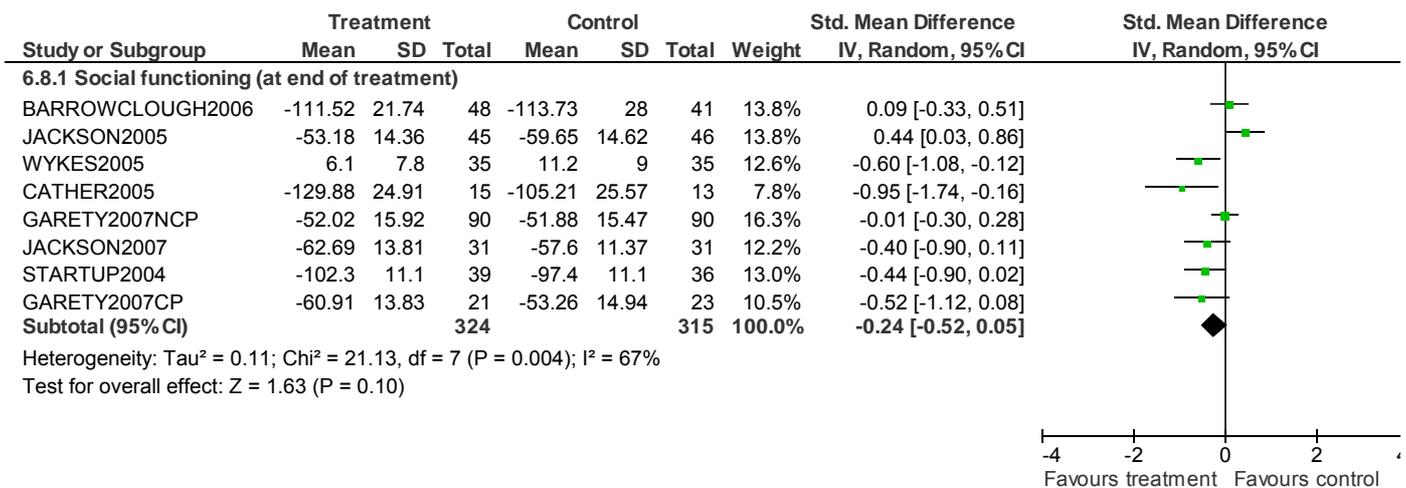


Psychological clinical evidence: CBT

6.7 Psychosocial Functioning: 3. Social and Occupational Functioning Scale (at FU)(signs reversed)

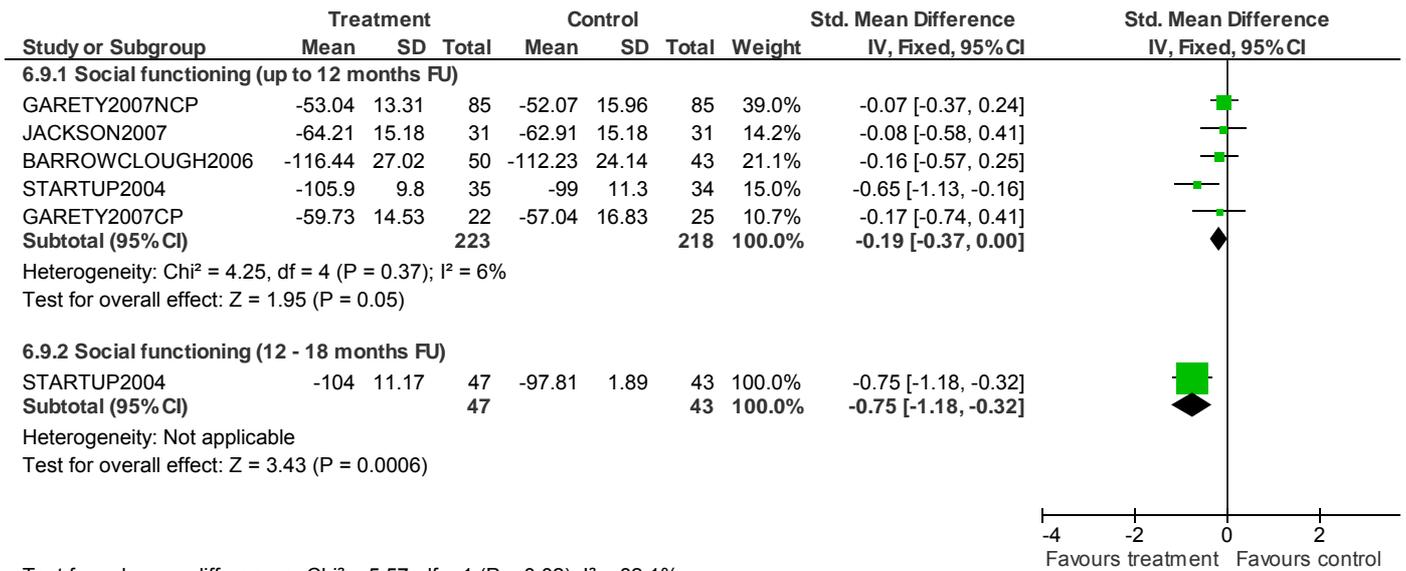


6.8 Psychosocial Functioning: 1-3 combined (SFS, SBS, SOFAS combined) (at end of treatment) (signs reversed)

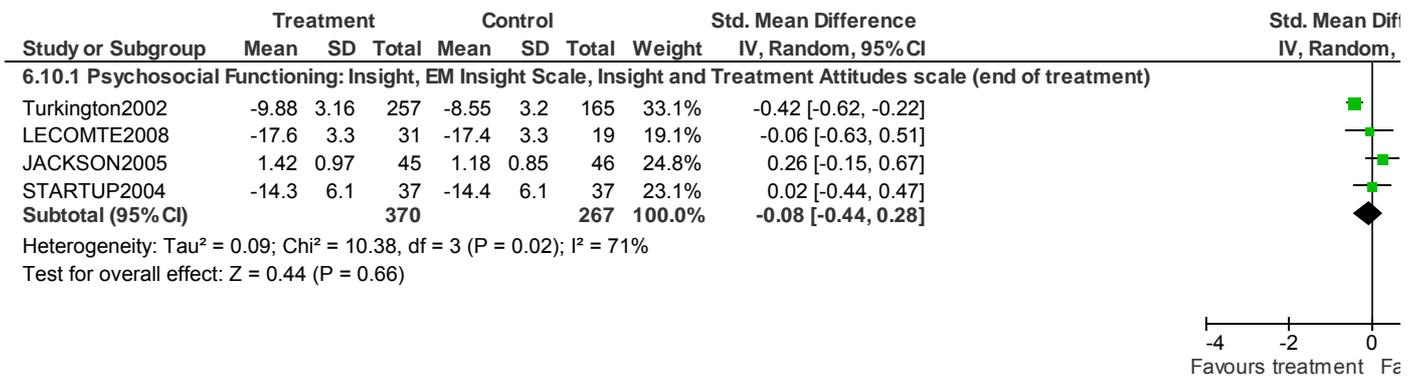


Psychological clinical evidence: CBT

6.9 Psychosocial Functioning: 1-3 combined (SFS, SBS, SOFAs combined) (at FU) (signs reversed)

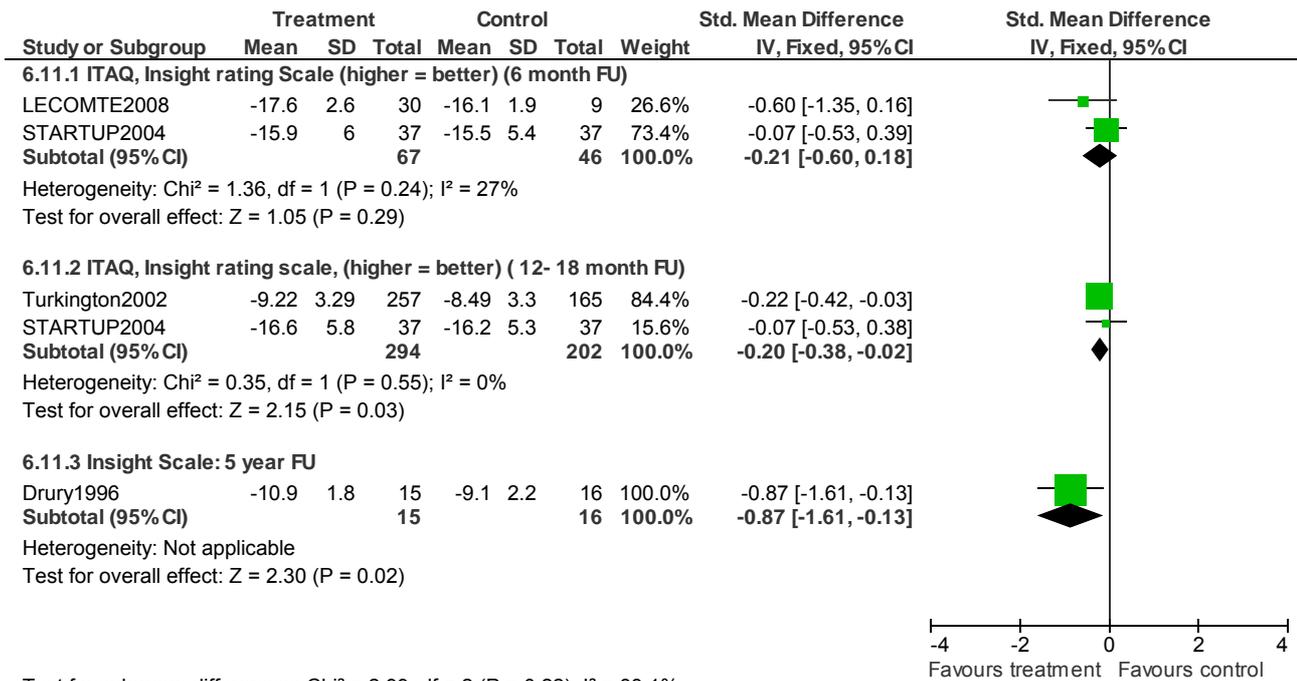


6.10 Insight (end of treatment)



Psychological clinical evidence: CBT

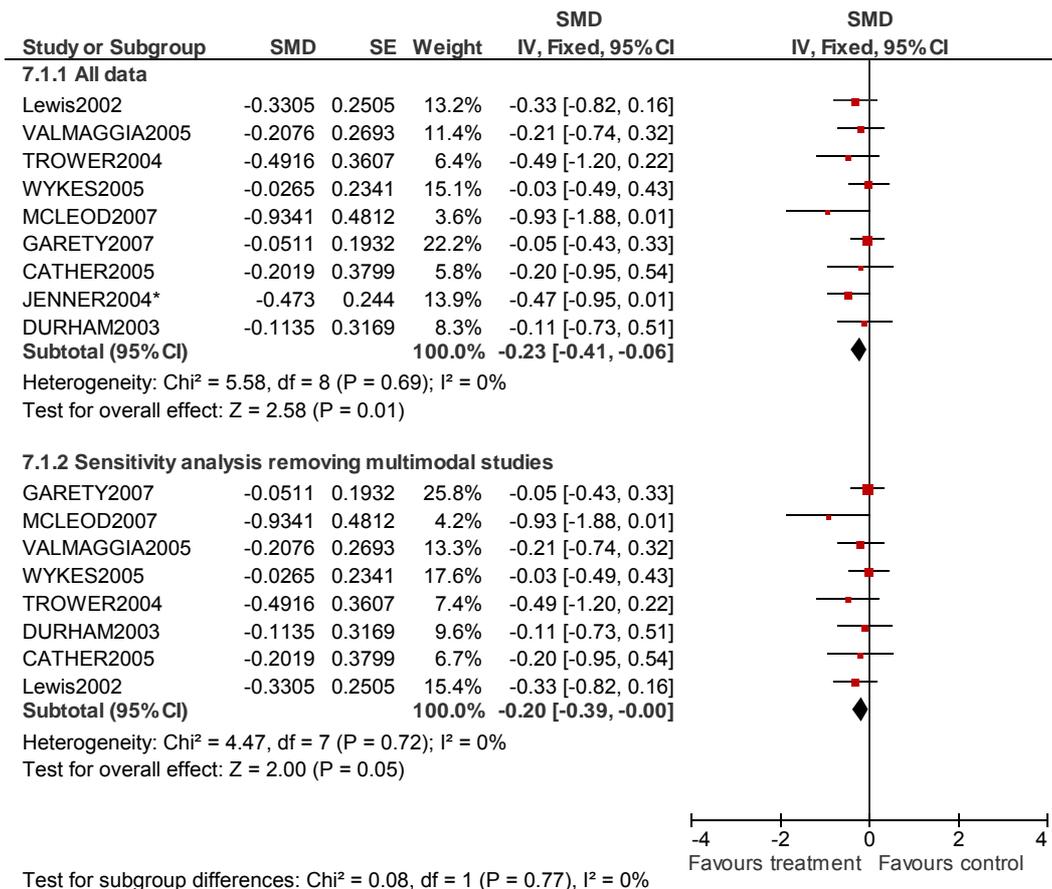
6.11 Insight (signs reversed)



7 CBT versus any control (PSYRATS UK data, hallucination and delusions data)

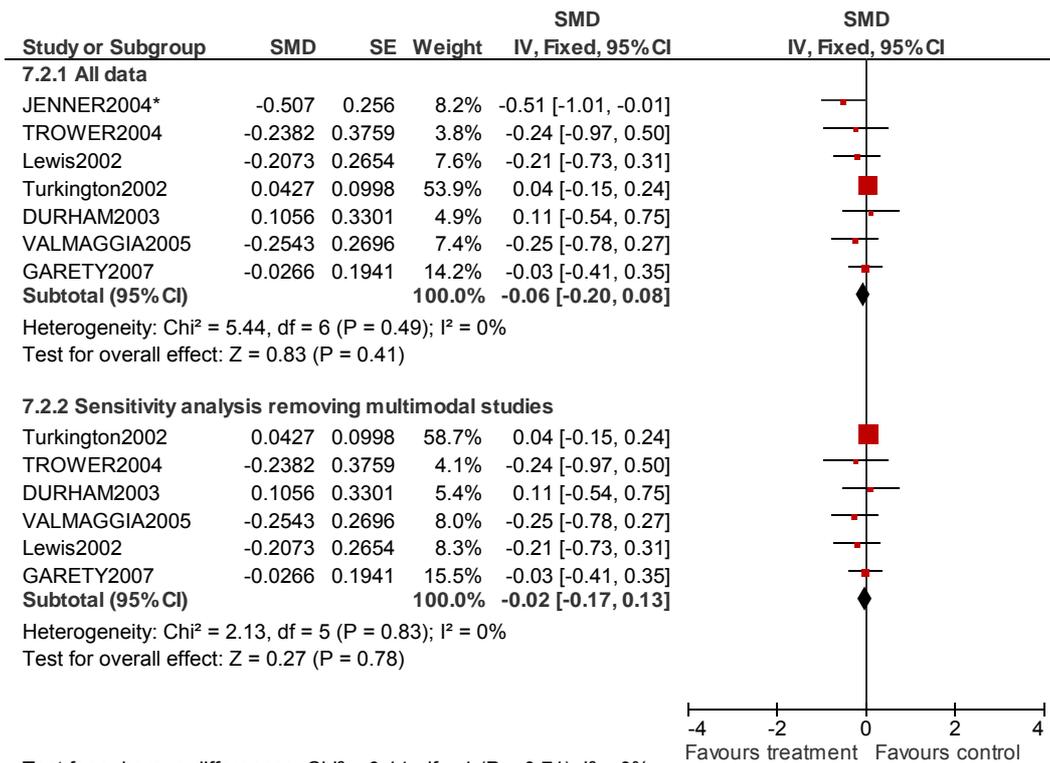
Psychological clinical evidence: CBT

7.1 PSYRATS 1. Auditory Hallucinations subscale - at end of treatment

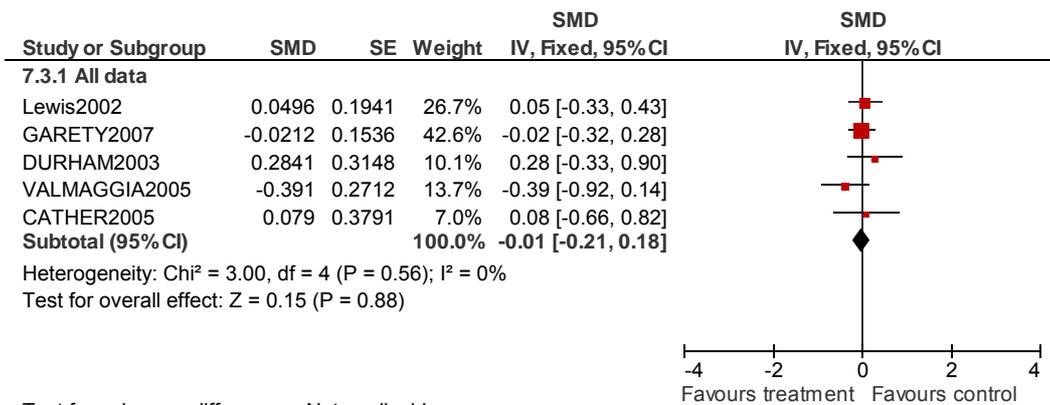


Psychological clinical evidence: CBT

7.2 PSYRATS 1. Auditory Hallucinations subscale - at FU

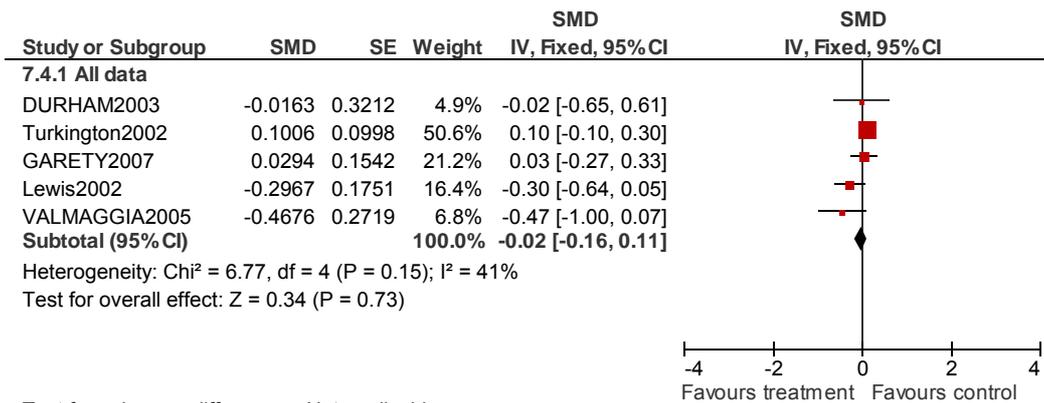


7.3 PSYRATS 2. Delusions subscale - at end of treatment

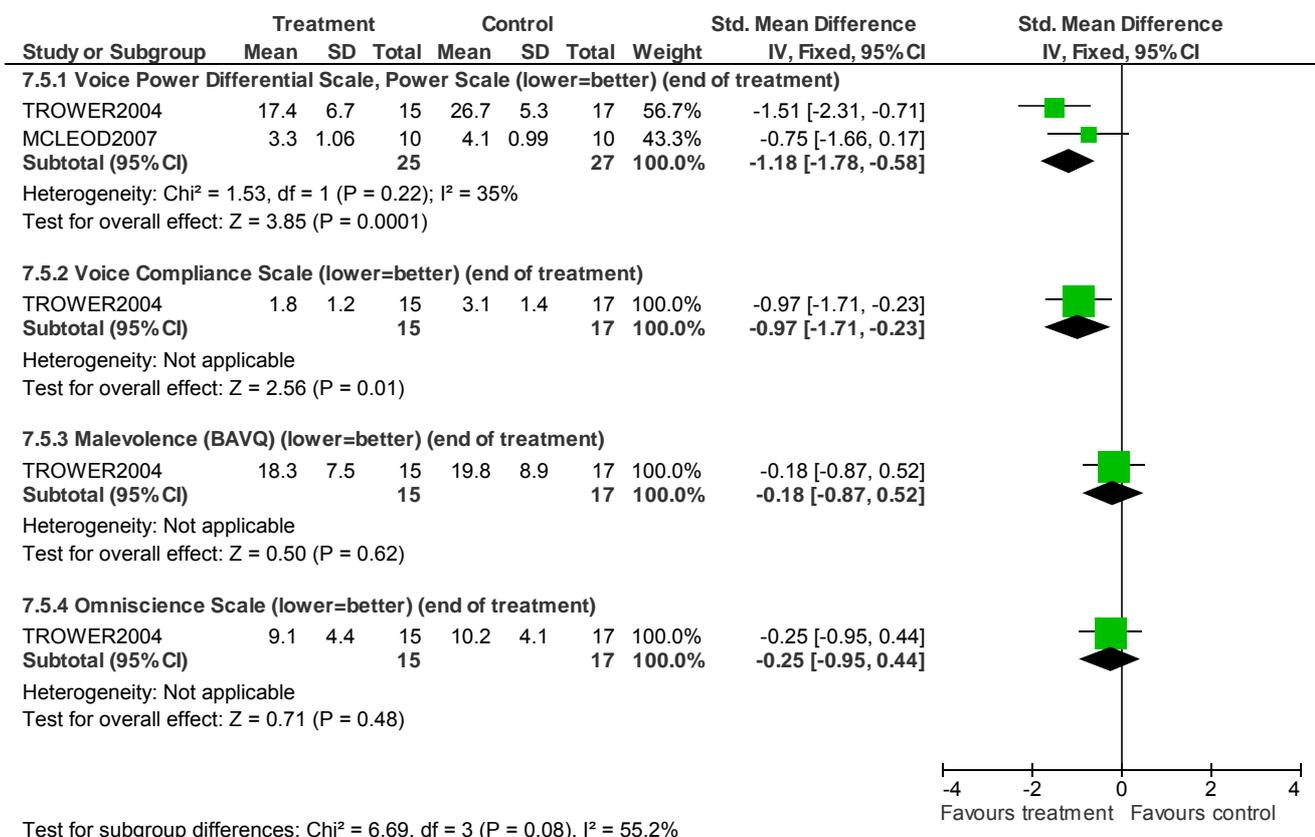


Psychological clinical evidence: CBT

7.4 PSYRATS 2. Delusions subscale - at FU

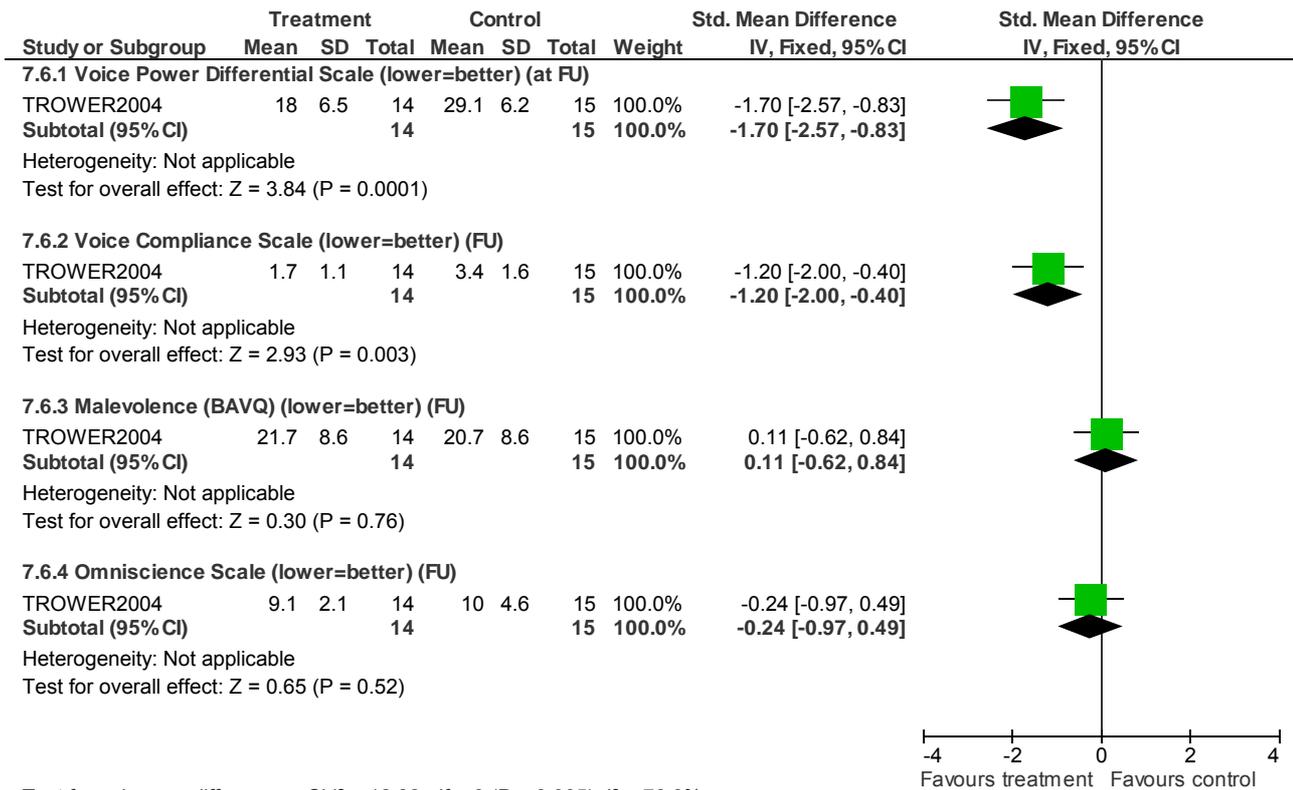


7.5 Mental State: 1. Command Hallucinations - at end of treatment

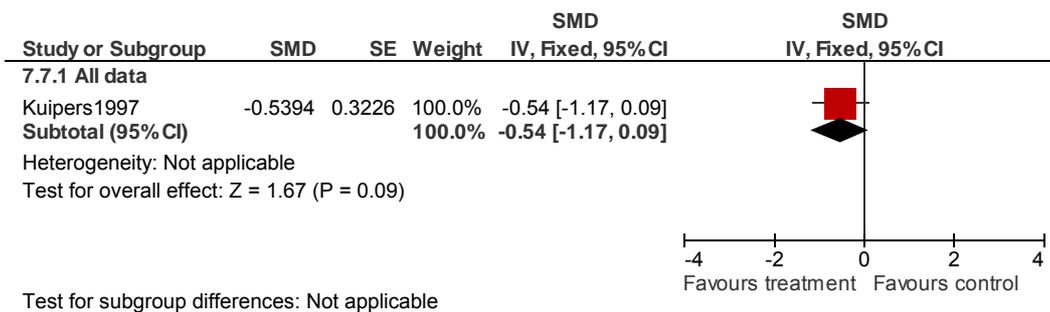


Psychological clinical evidence: CBT

7.6 Mental State: 1. Command Hallucinations - at FU

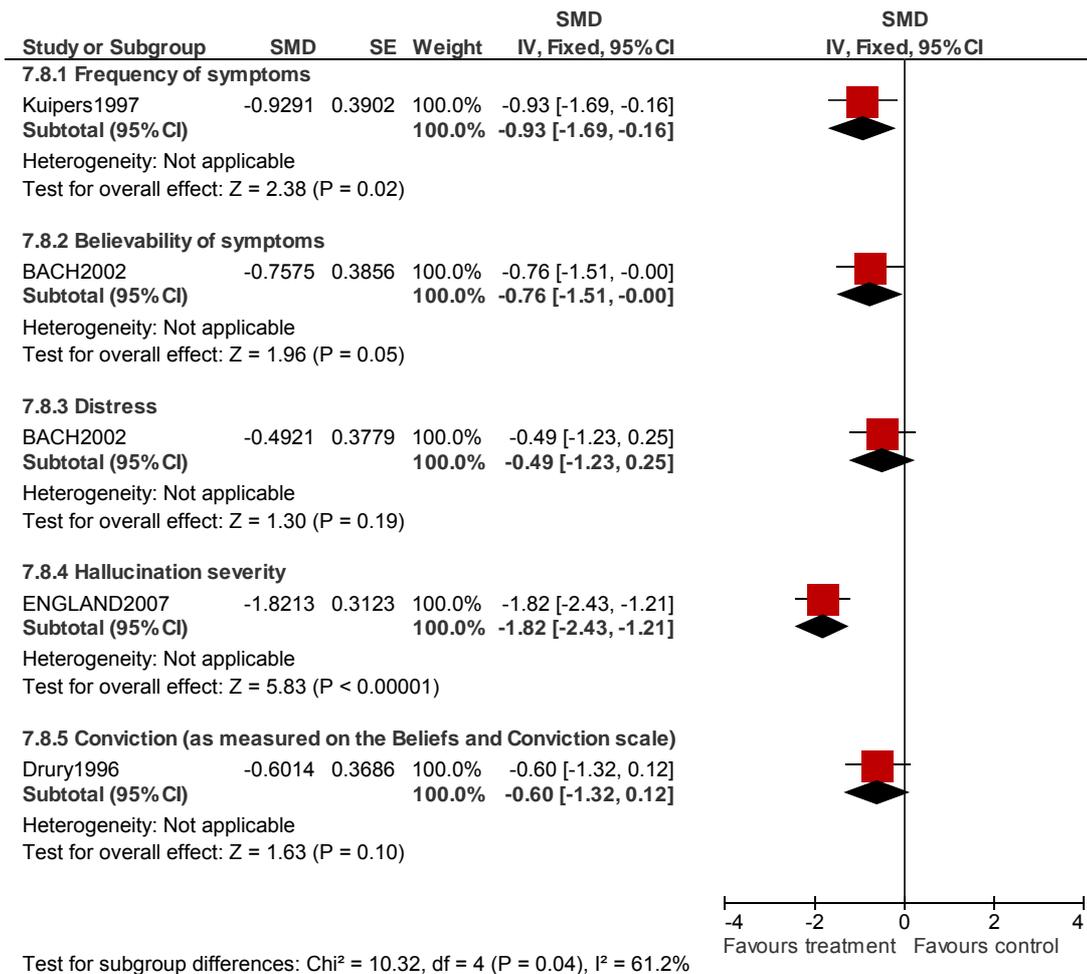


7.7 Mental State: 2. Maudsley Assessment of Delusions Schedule (MADS) - at FU

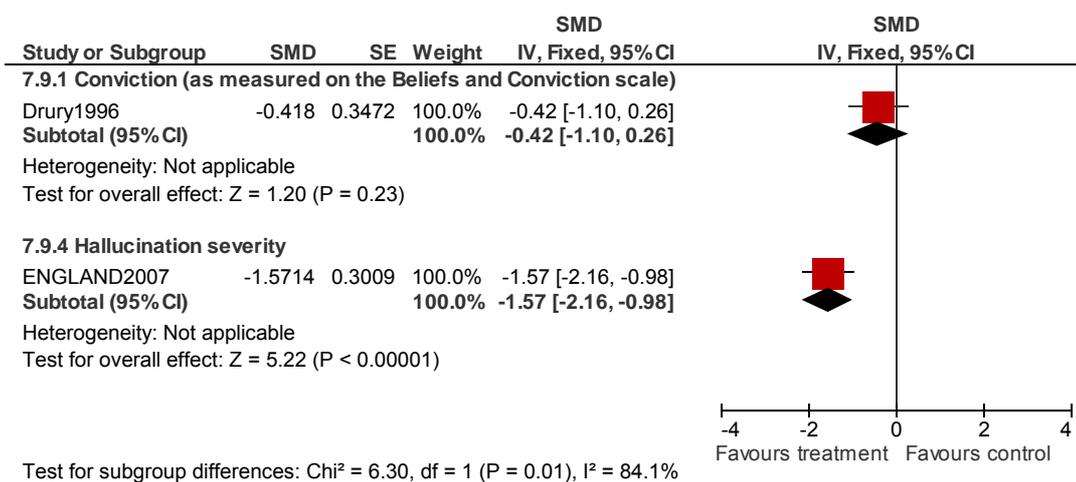


Psychological clinical evidence: CBT

7.8 Mental State: 3. Symptom specific measures - at end of treatment

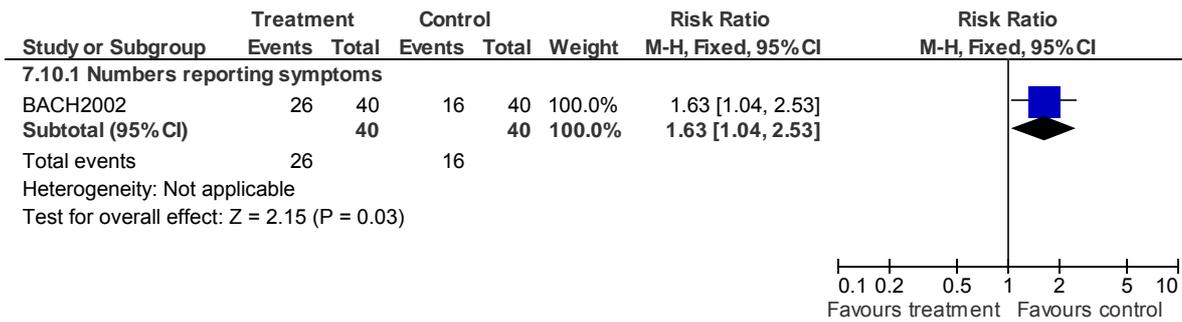


7.9 Mental State: 3. Symptom specific measures - at FU

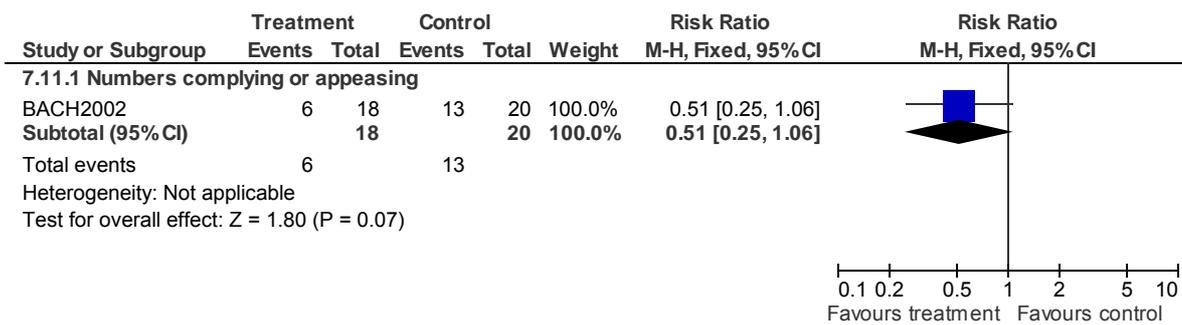


Psychological clinical evidence: CBT

7.10 Number of participants reporting symptoms (hallucinations and delusions) (at FU)



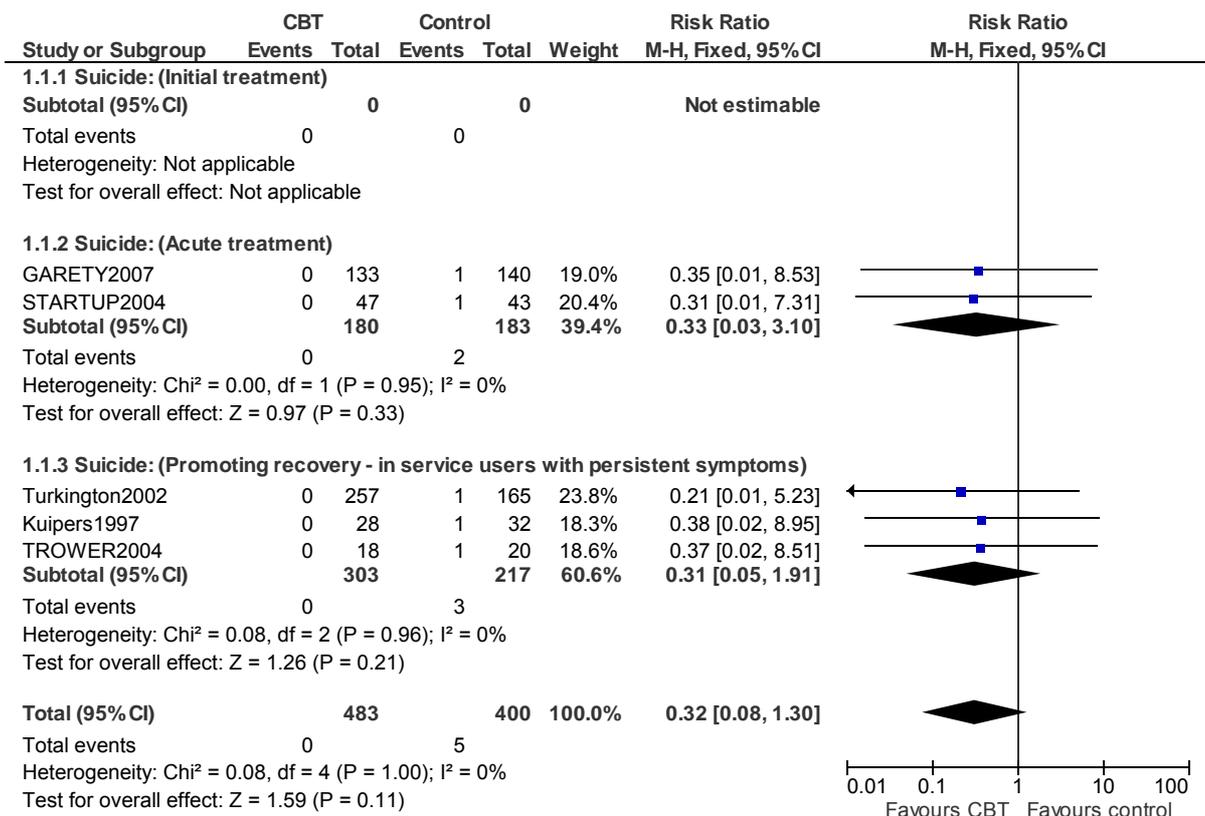
7.11 Number of participants complying with voices - at FU



Psychological clinical evidence: CBT (subgroup analyses)

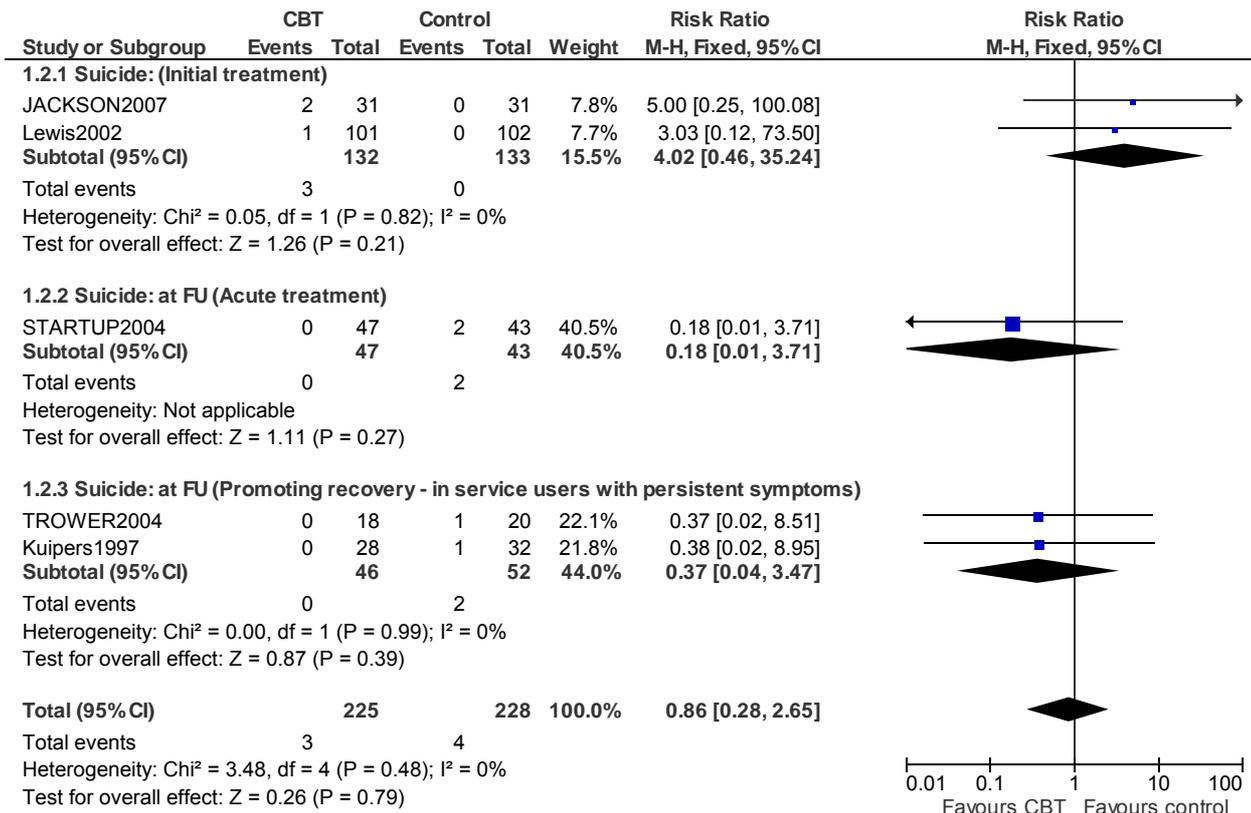
1 CBT versus any control - subgroup by phase of illness

1.1 Mortality (at end of treatment)



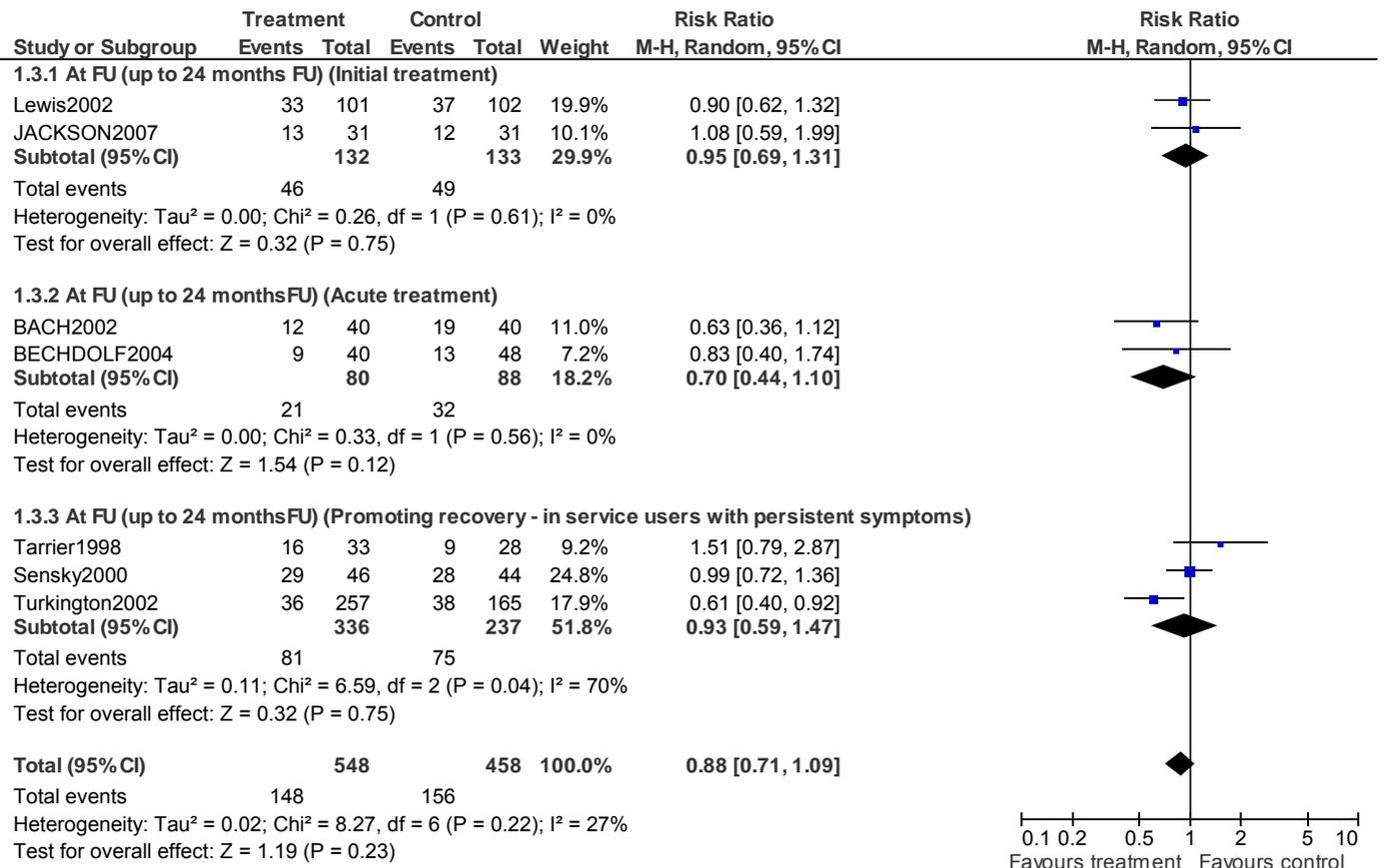
Psychological clinical evidence: CBT (subgroup analyses)

1.2 Mortality (at FU)



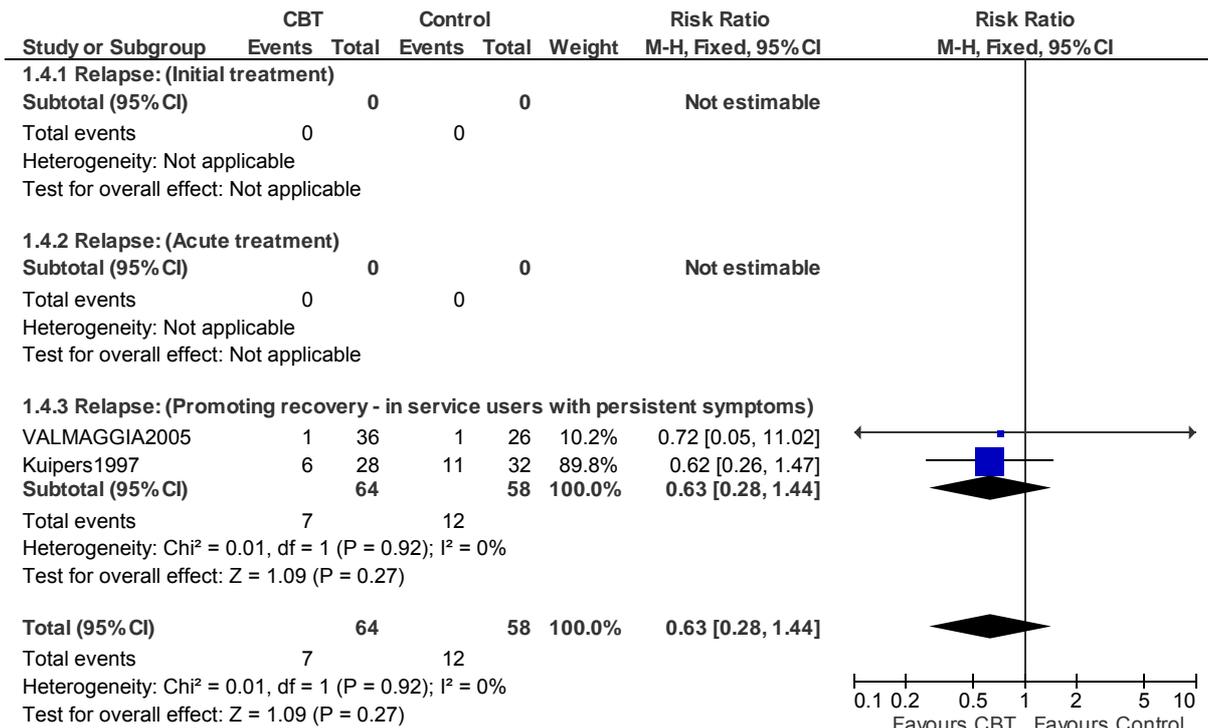
Psychological clinical evidence: CBT (subgroup analyses)

1.3 Service outcome: 1. Hospital admission (up to 24 months FU)



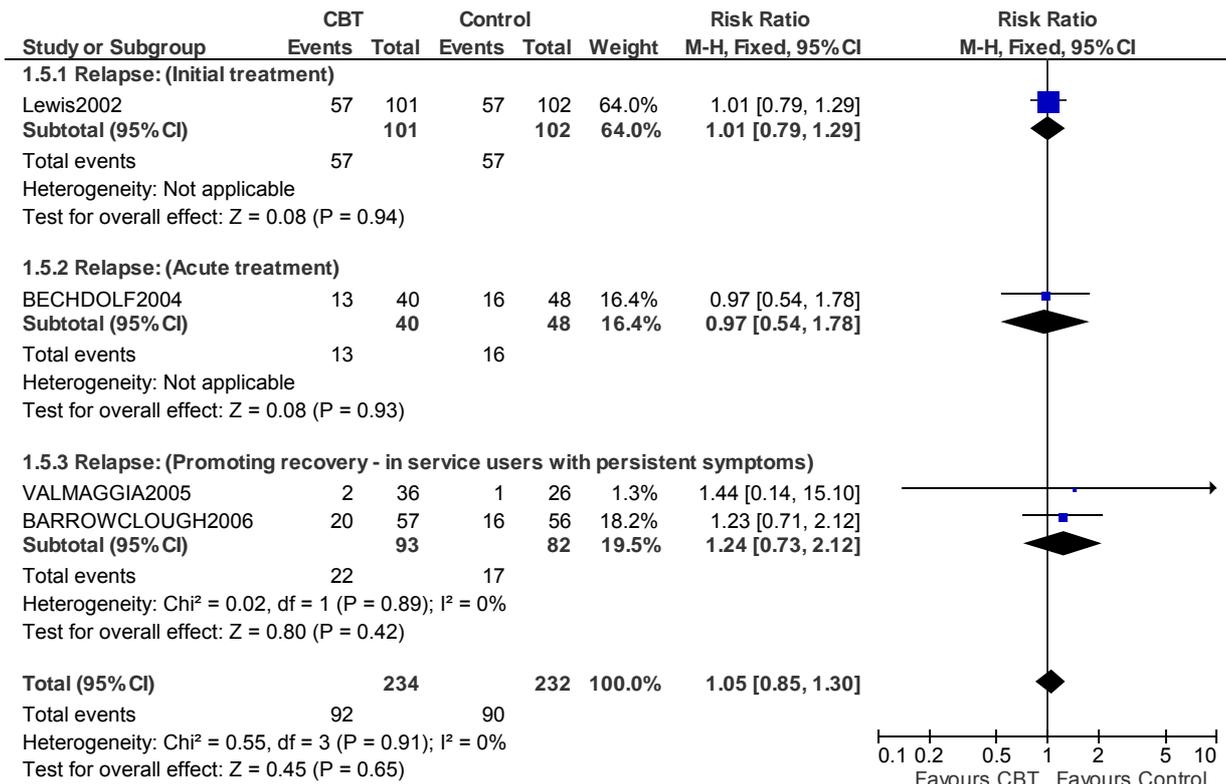
Psychological clinical evidence: CBT (subgroup analyses)

1.4 Global state: 1. Relapse (at end of treatment)



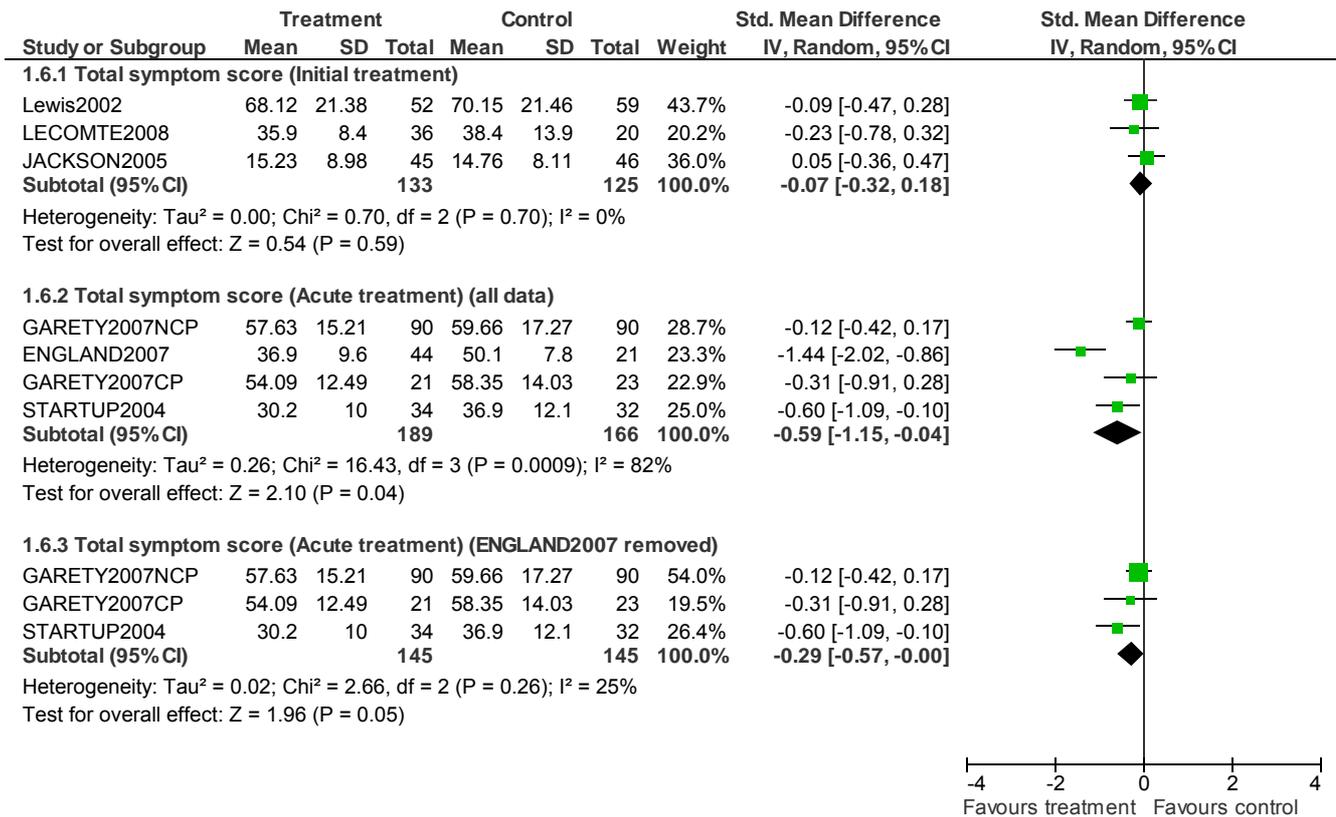
Psychological clinical evidence: CBT (subgroup analyses)

1.5 Global state: 1. Relapse (at 24 months FU)



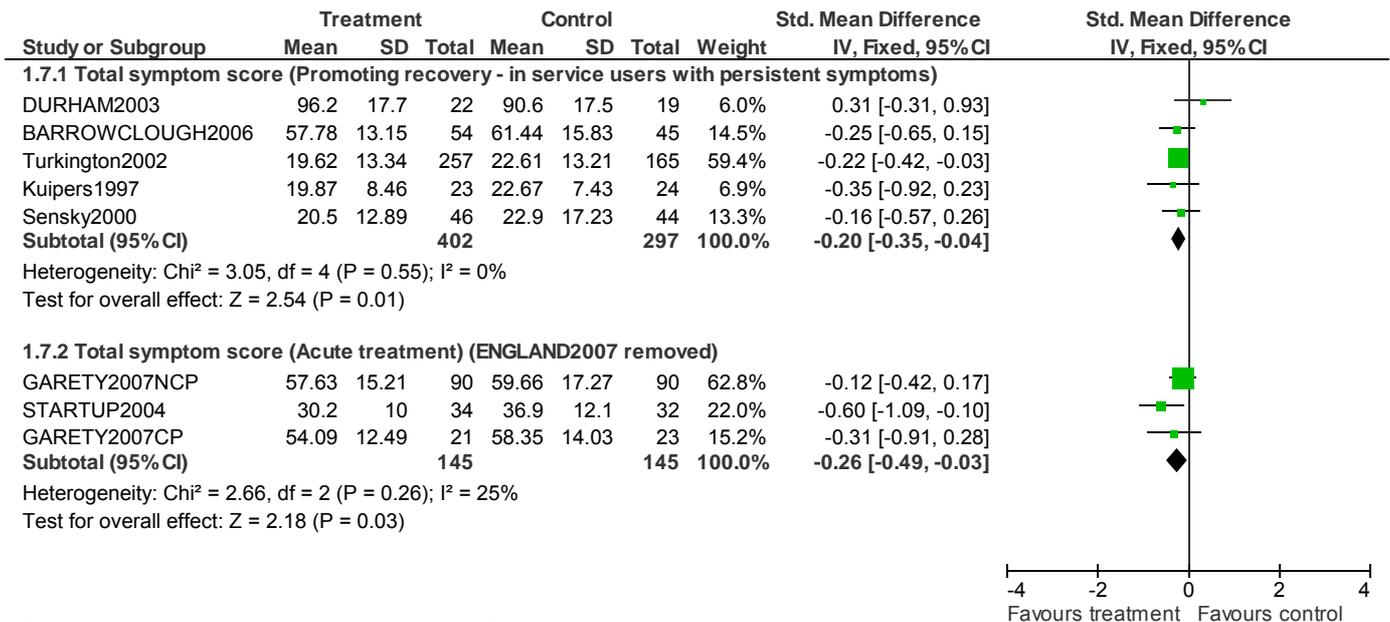
Psychological clinical evidence: CBT (subgroup analyses)

1.6 Mental State: 1. Total symptom score (end of treatment) (lower = better)

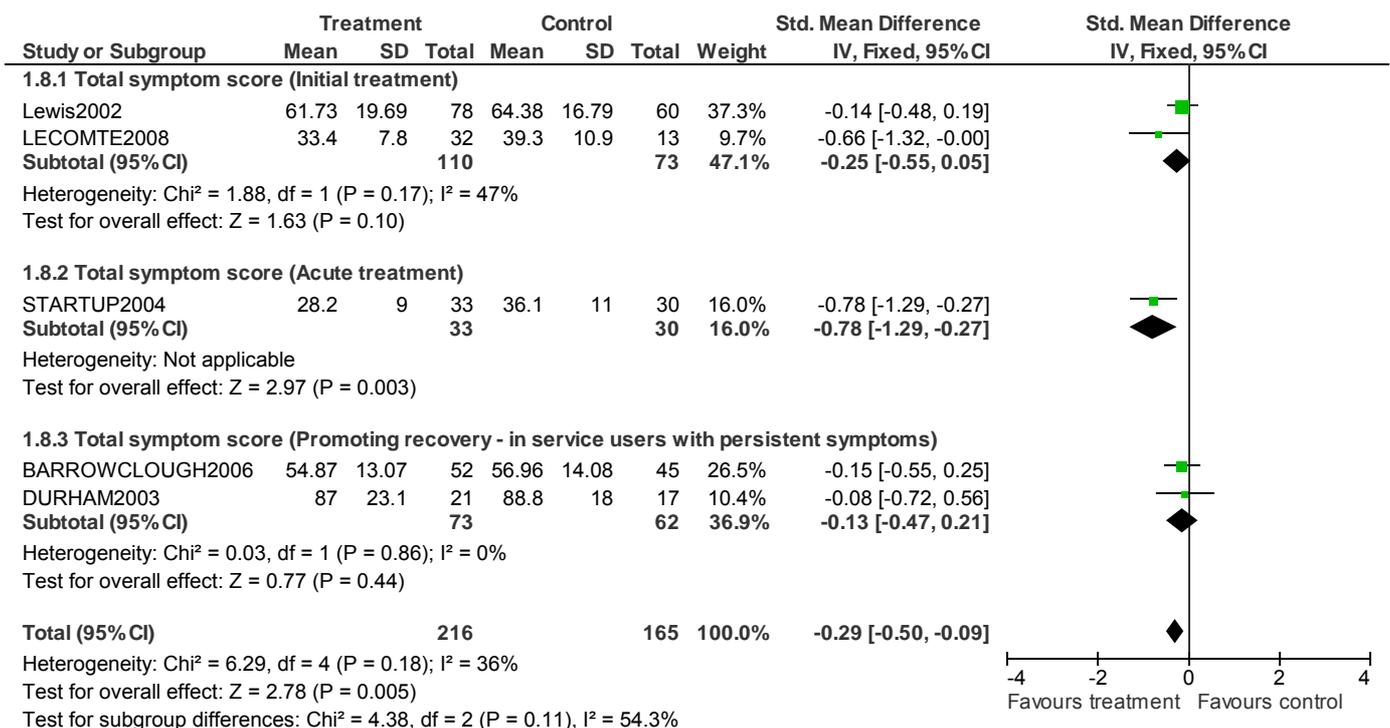


Psychological clinical evidence: CBT (subgroup analyses)

1.7 Mental State: 1. Total symptom score (end of treatment) (lower = better)

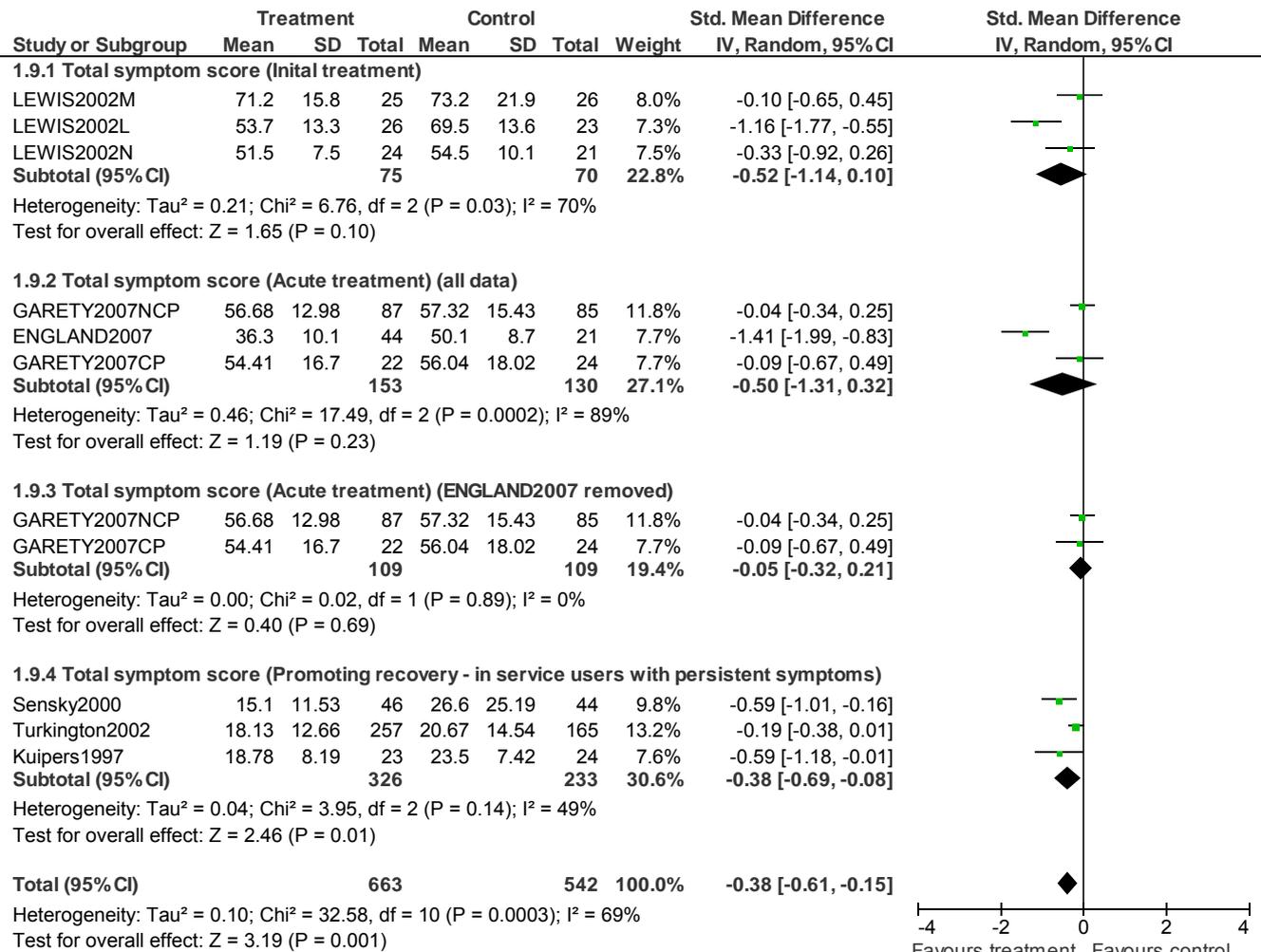


1.8 Mental State: 1. Total symptom score (up to 6 months FU) (lower = better)



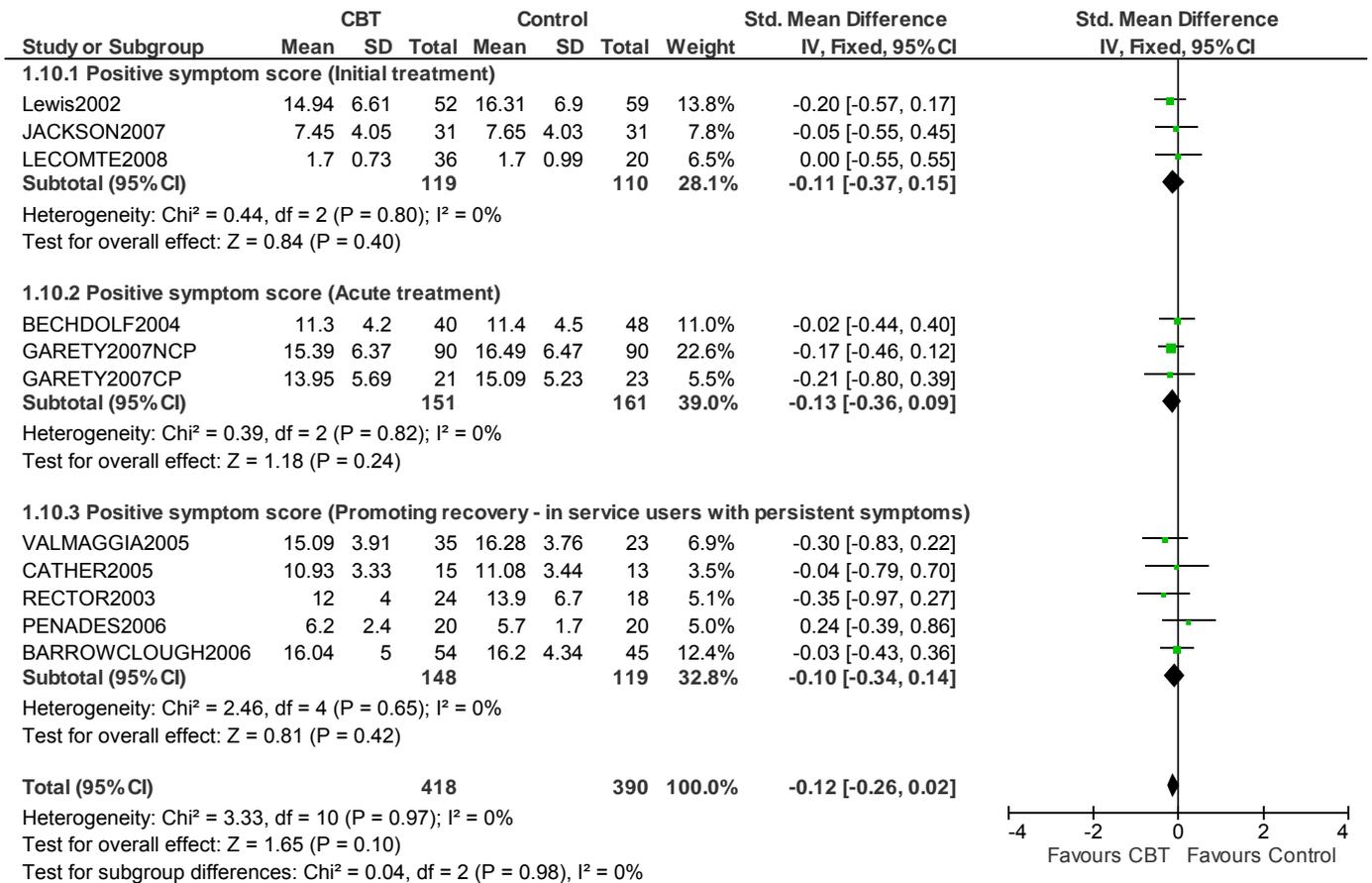
Psychological clinical evidence: CBT (subgroup analyses)

1.9 Mental State: 1. Total symptom score (at 9-18 months FU) (lower = better)



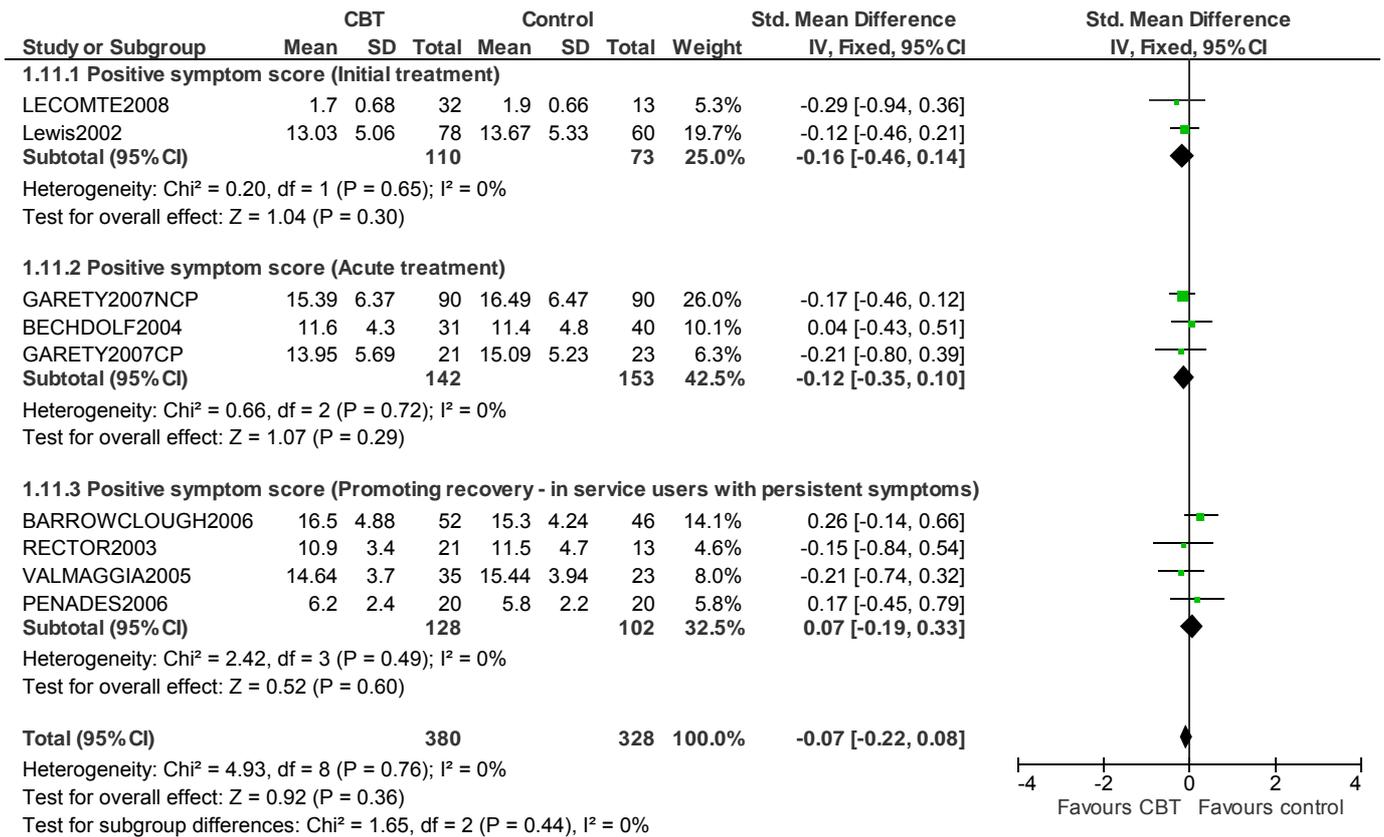
Psychological clinical evidence: CBT (subgroup analyses)

1.10 Mental state: 2. Continuous measures - positive symptoms (at end of treatment) (lower = better)



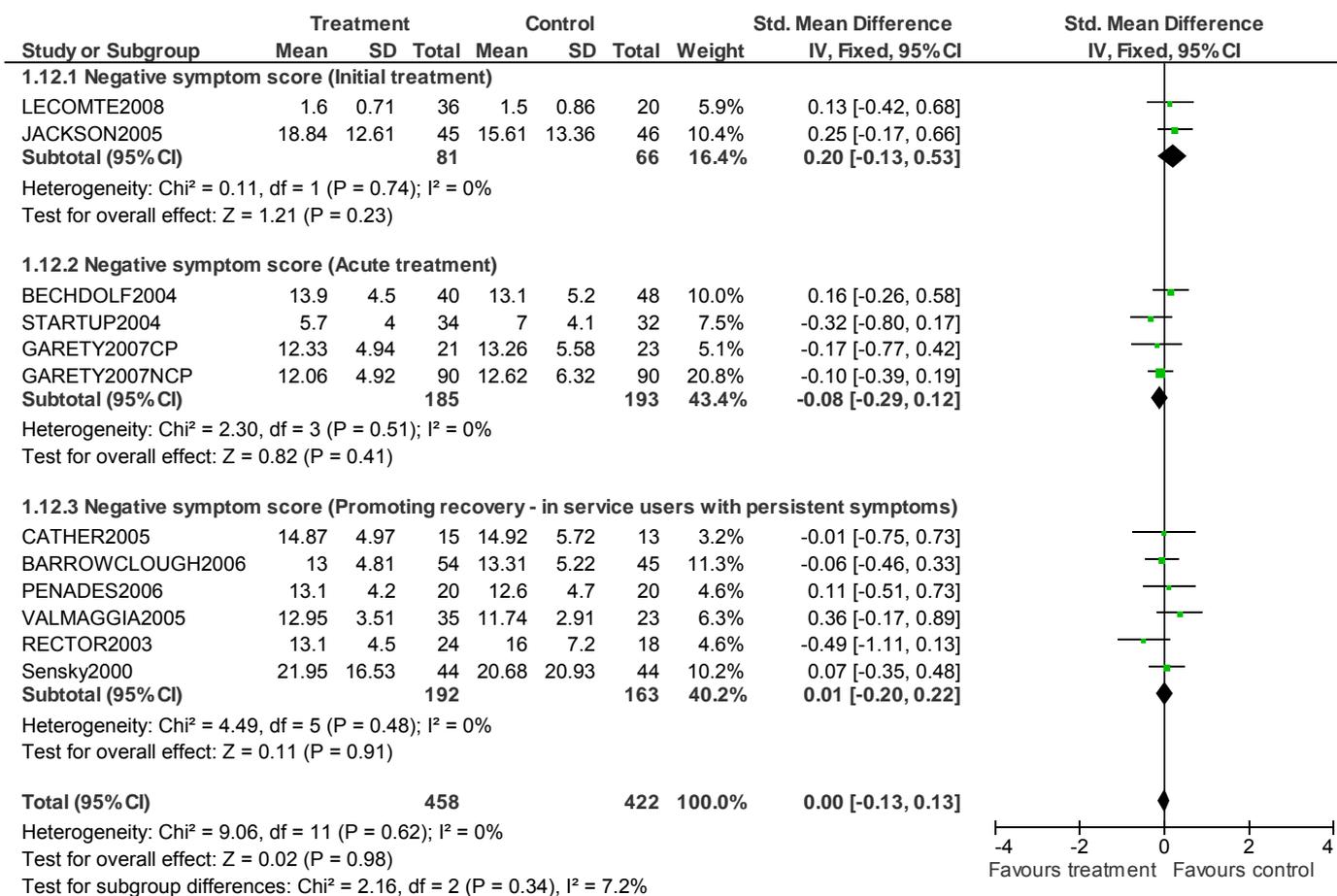
Psychological clinical evidence: CBT (subgroup analyses)

1.11 Mental state: 2. Continuous measures - positive symptoms (up to 12 months FU) (lower = better)



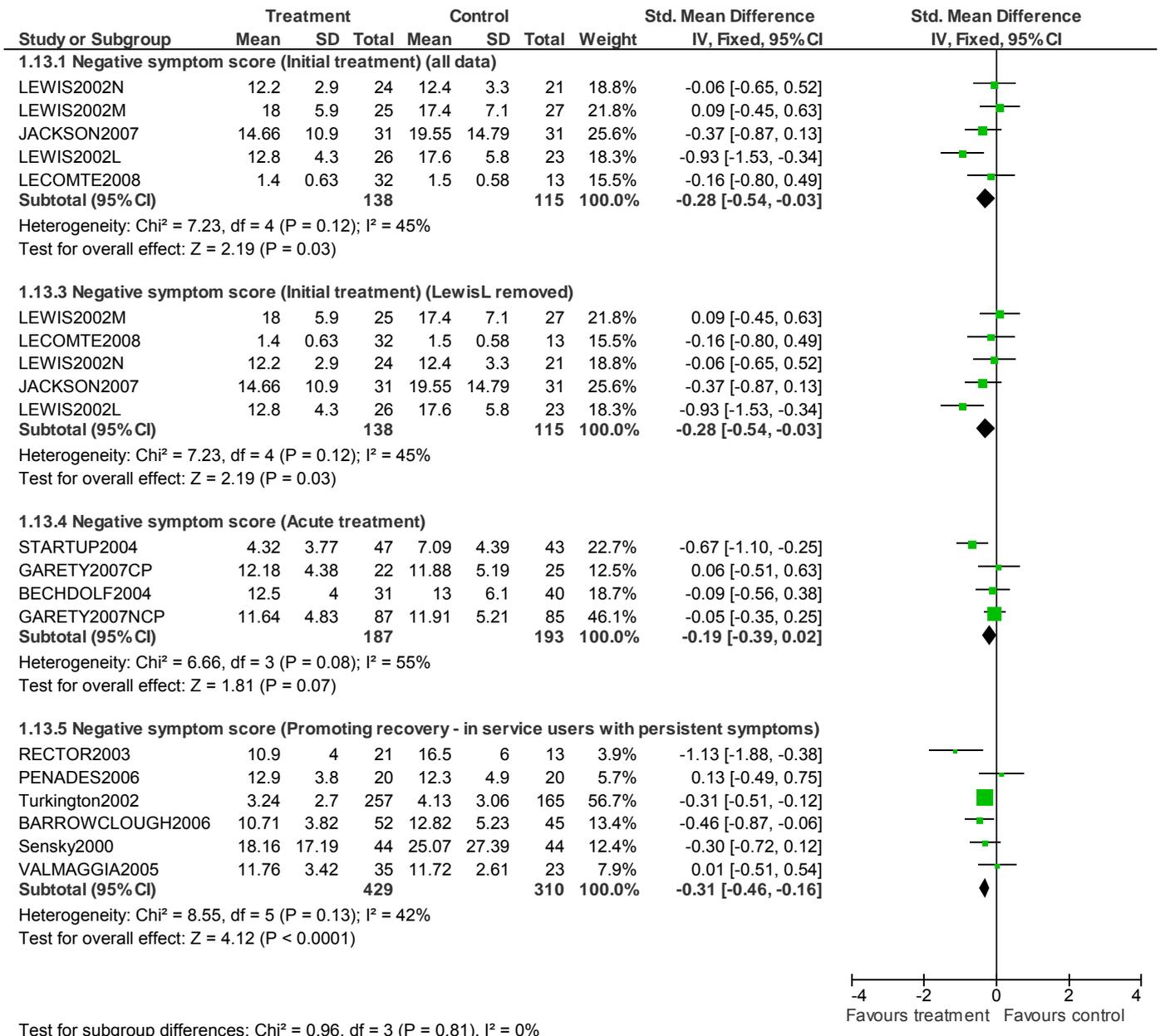
Psychological clinical evidence: CBT (subgroup analyses)

1.12 Mental state: 3. Continuous measures - negative symptoms (at end of treatment) (lower = better)



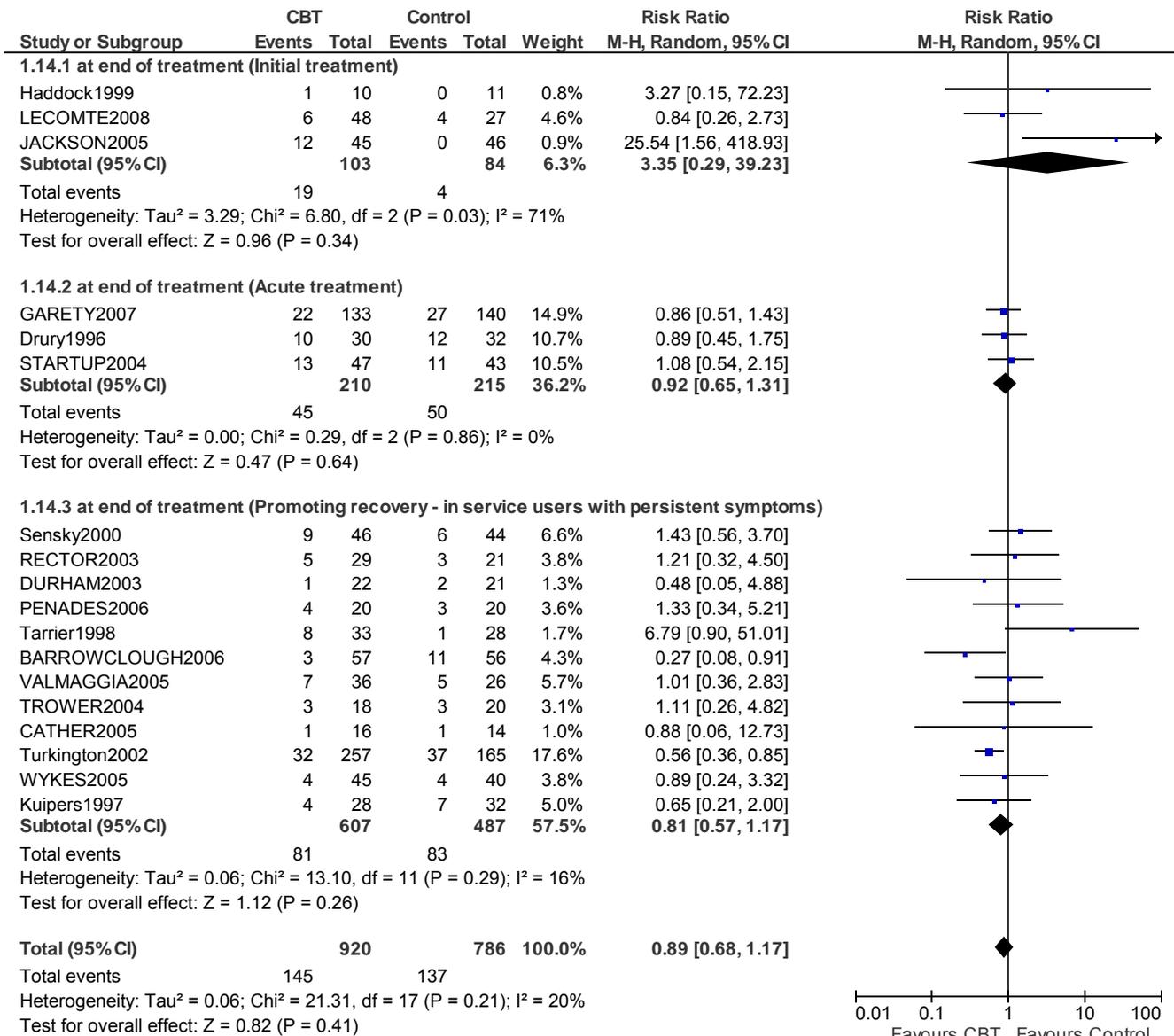
Psychological clinical evidence: CBT (subgroup analyses)

1.13 Mental state: 3. Continuous measures - negative symptoms (up to 24 months FU) (lower = better)



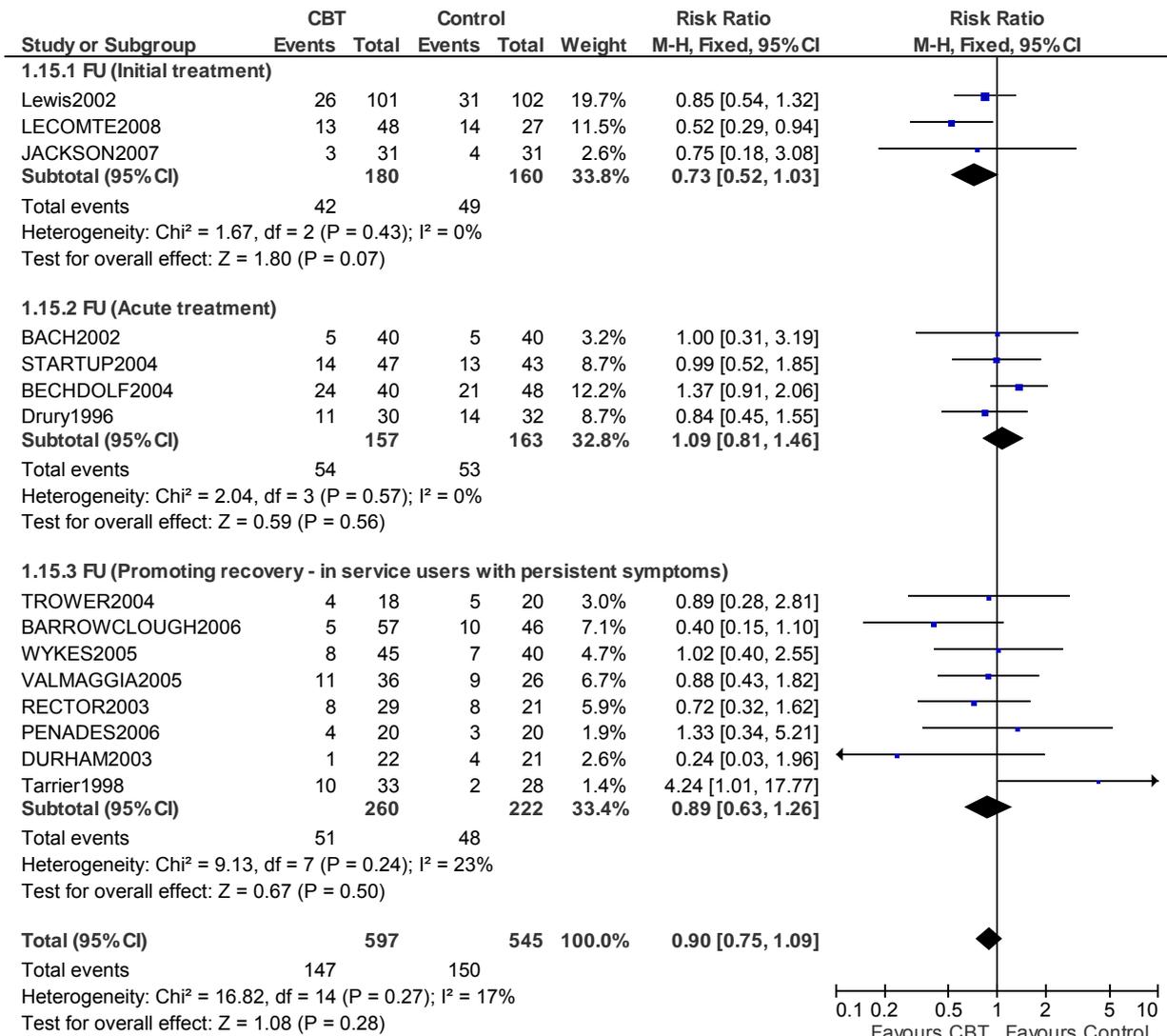
Psychological clinical evidence: CBT (subgroup analyses)

1.14 Treatment acceptability: 1. Leaving the study early (end of treatment)



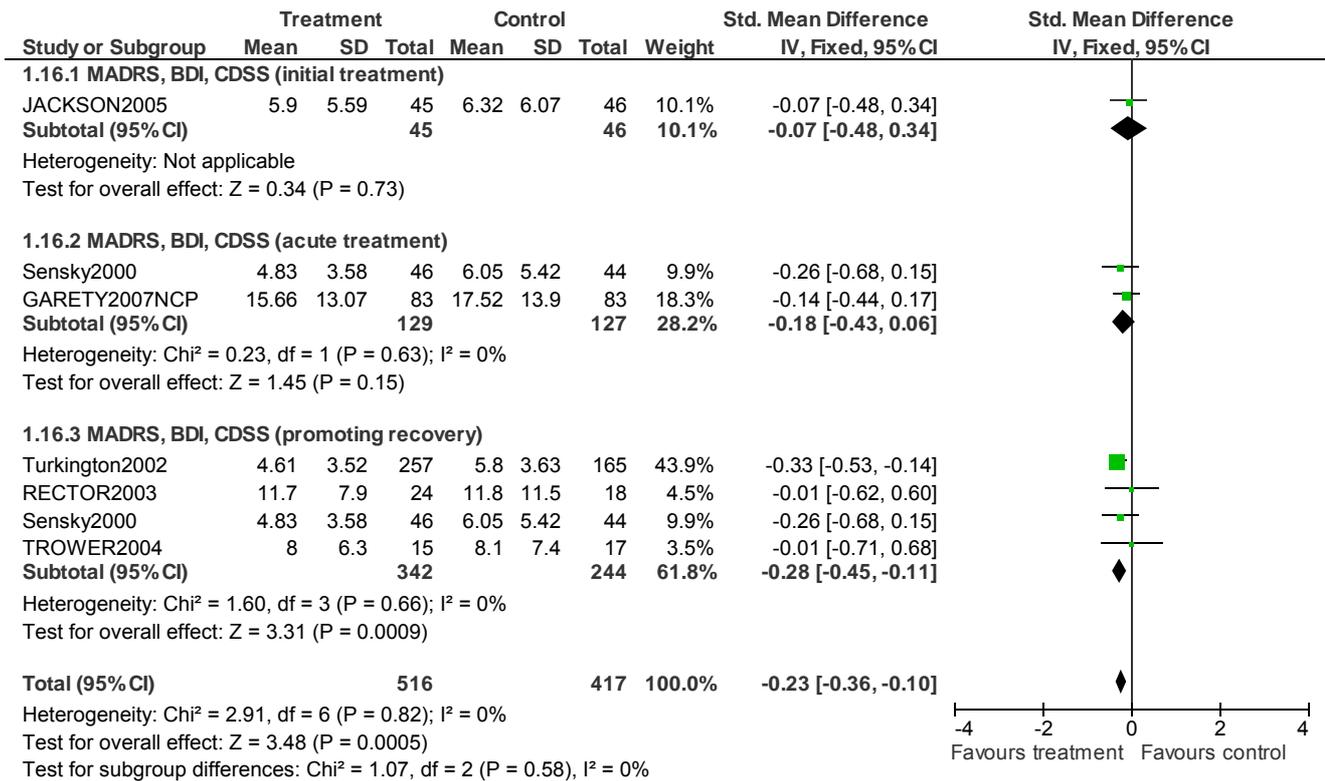
Psychological clinical evidence: CBT (subgroup analyses)

1.15 Treatment acceptability: 1. Leaving the study early (up to 24 months FU)



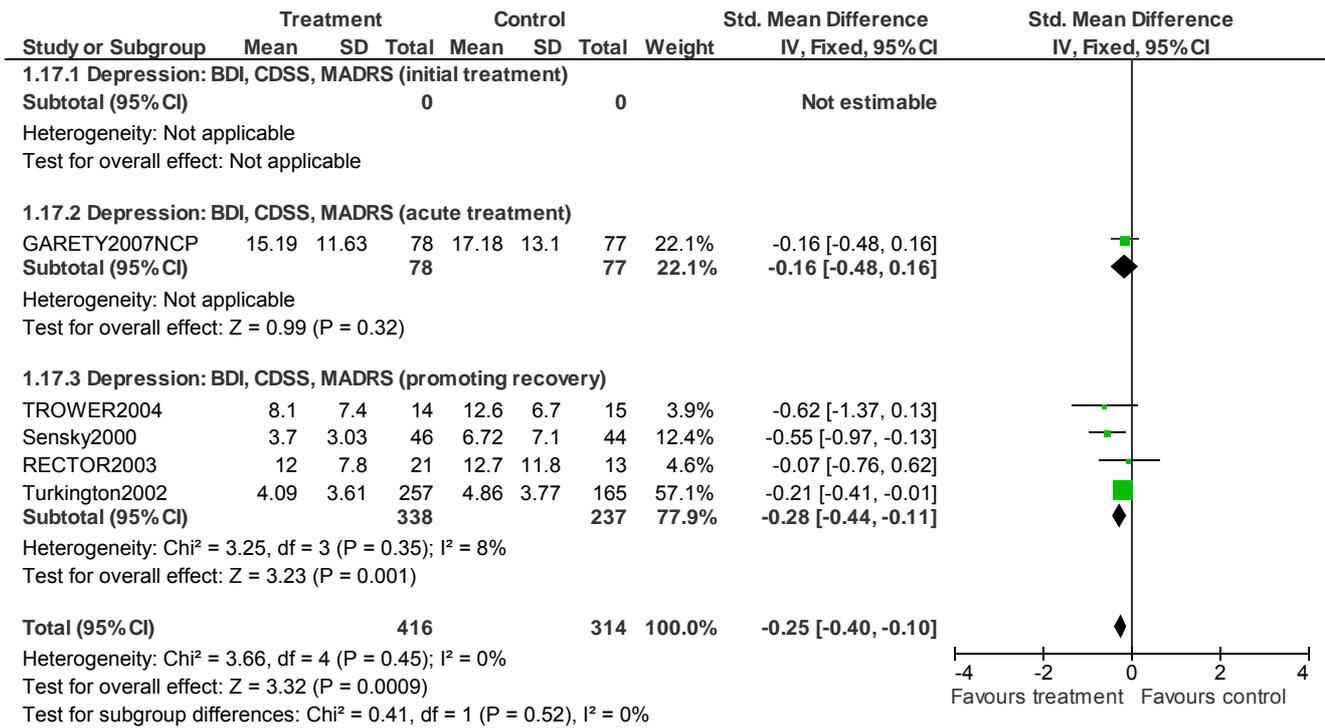
Psychological clinical evidence: CBT (subgroup analyses)

1.16 Depression: MADRS, BDI, CDSS (at end of treatment)



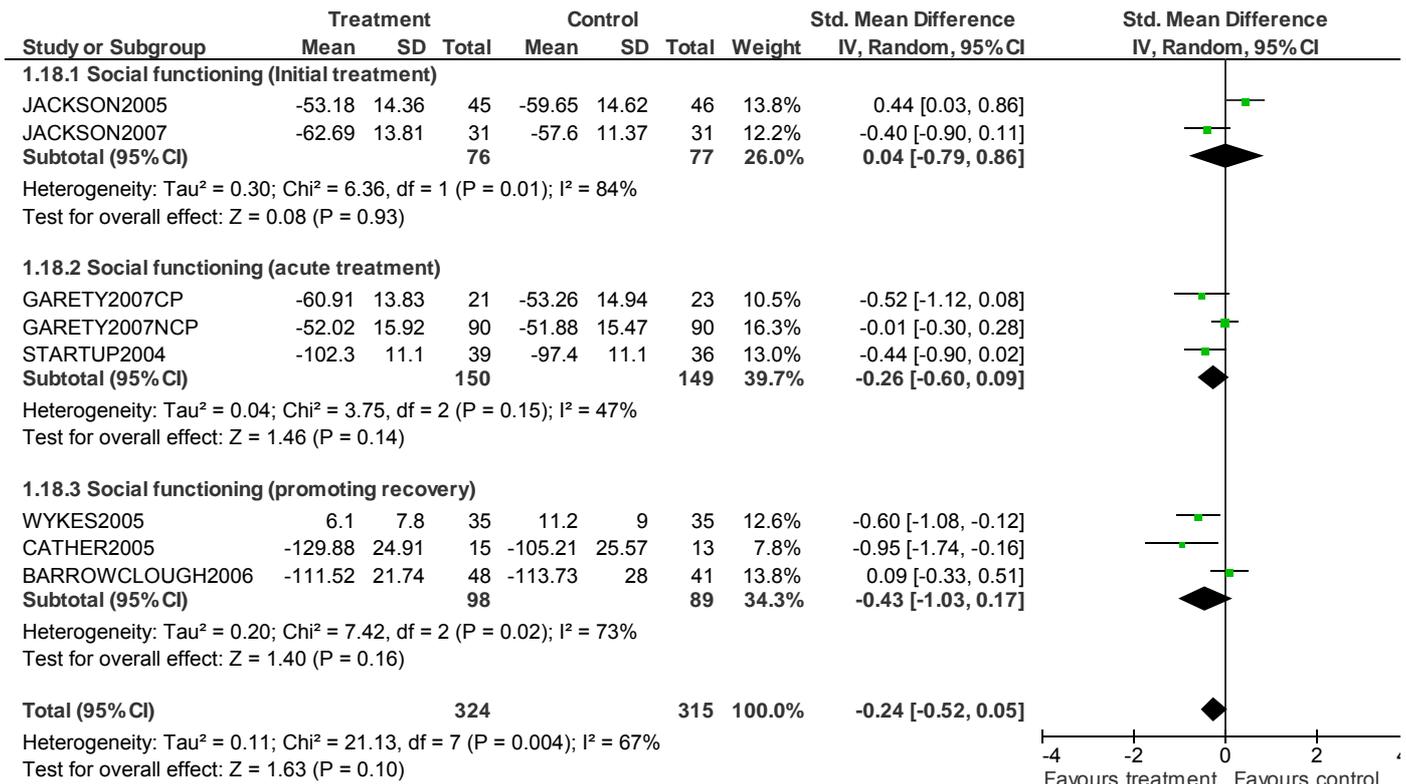
Psychological clinical evidence: CBT (subgroup analyses)

1.17 Depression, MADRS, BDI, CDSS (at FU)



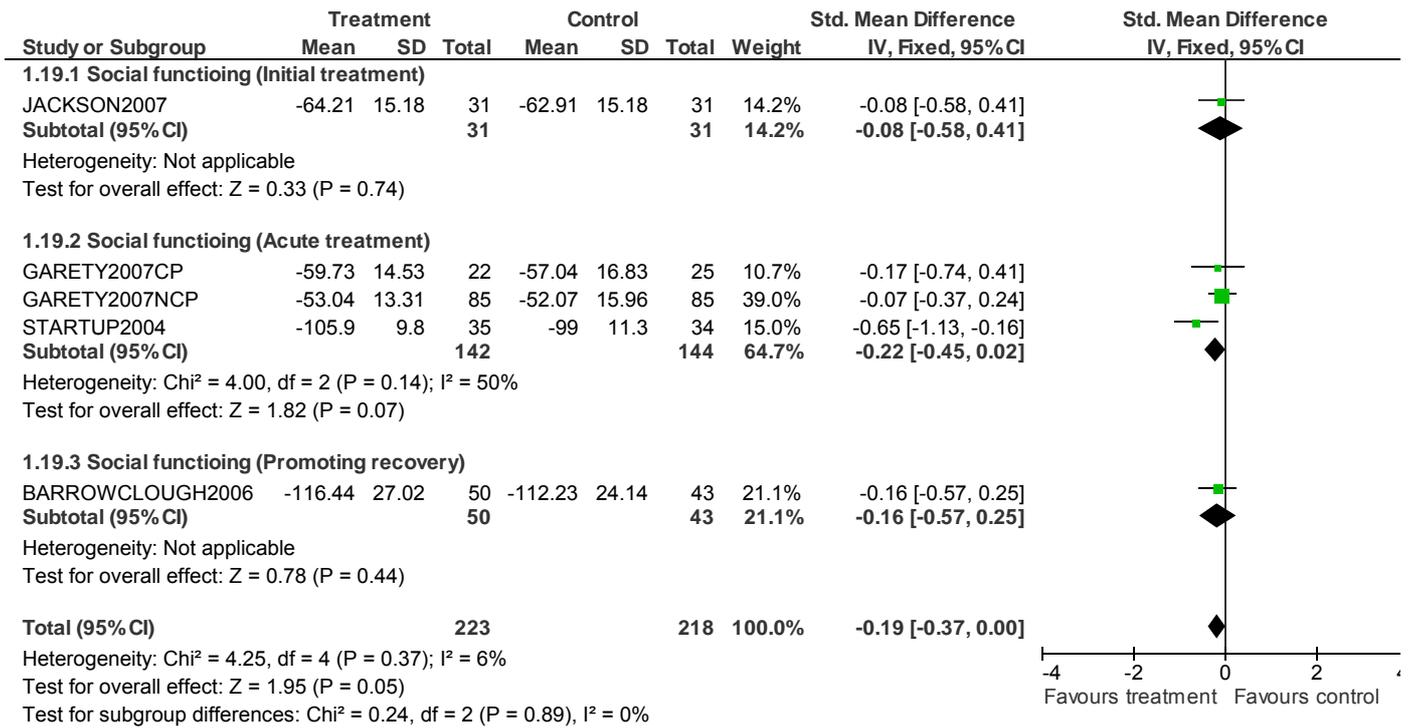
Psychological clinical evidence: CBT (subgroup analyses)

1.18 Social Functioning measures (SFS, SBS, SOFAS combined) (at end of treatment) (signs reversed)



Psychological clinical evidence: CBT (subgroup analyses)

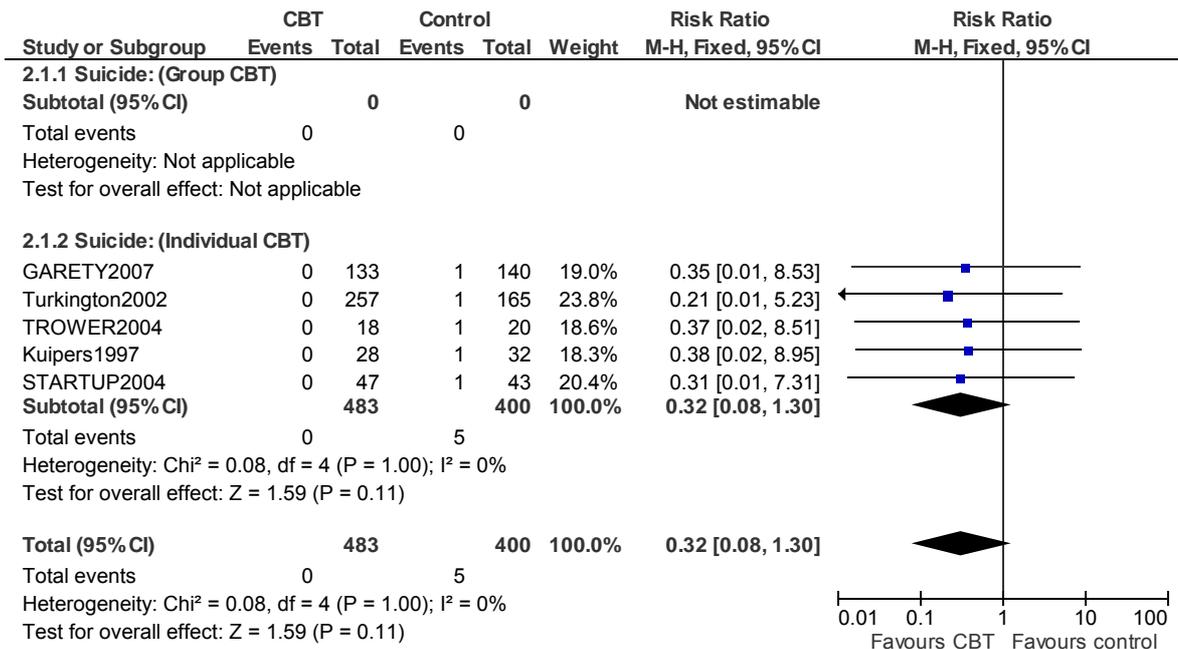
1.19 Social Functioning measures (SFS, SBS, SOFAs combined) (at FU) (signs reversed)



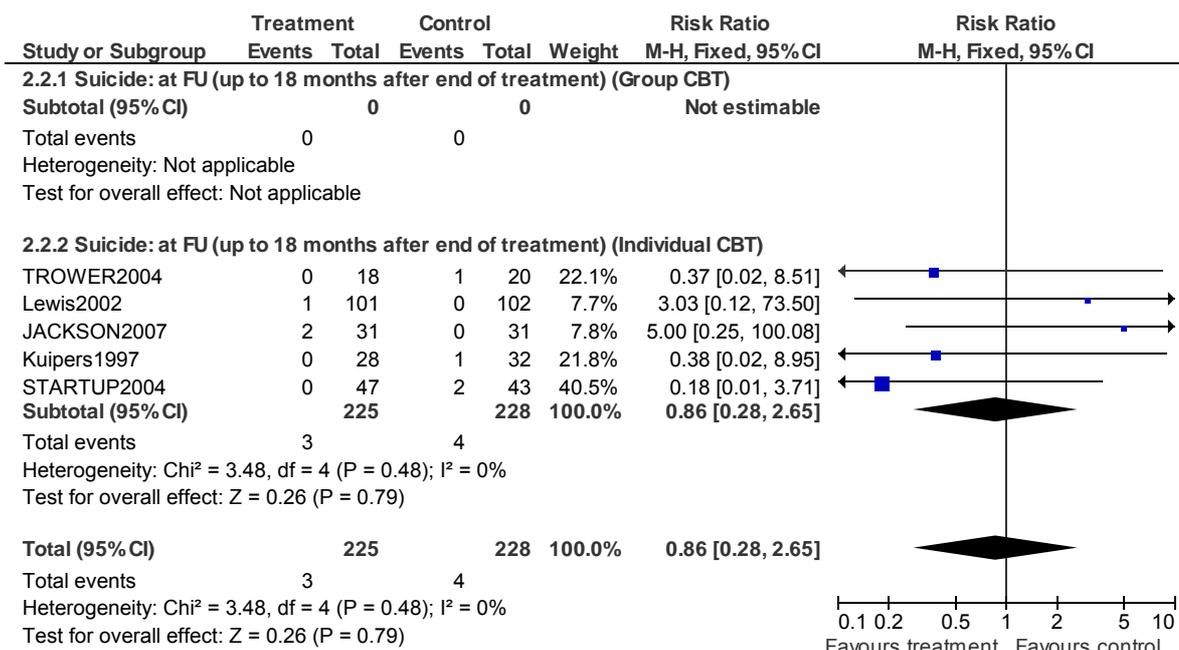
2 CBT versus any control - subgroup analysis by format

Psychological clinical evidence: CBT (subgroup analyses)

2.1 Mortality (at end of treatment)

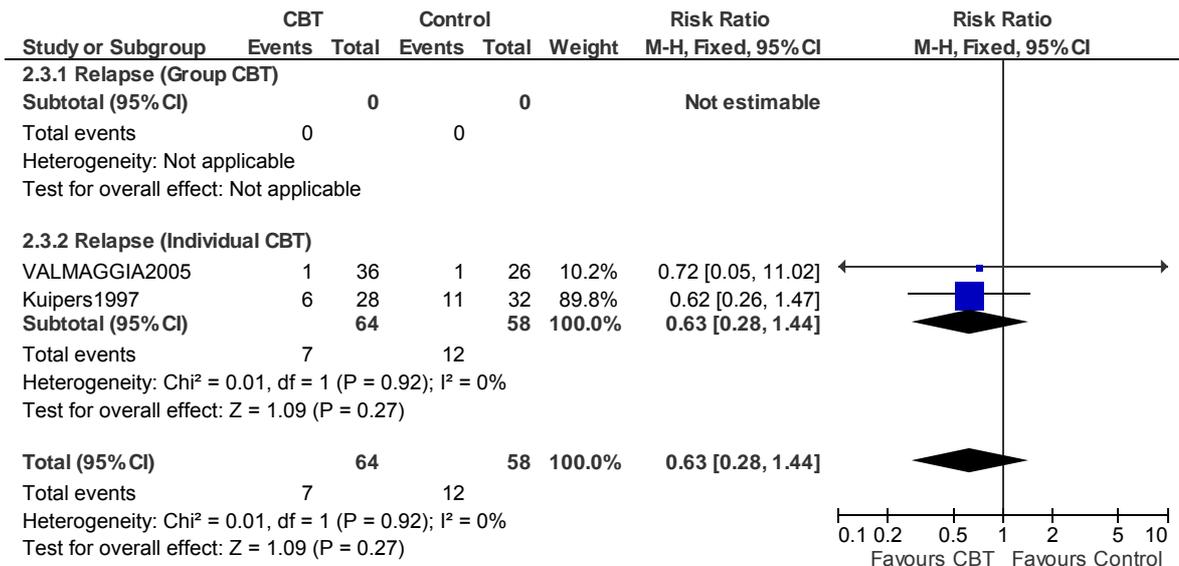


2.2 Mortality (at FU)

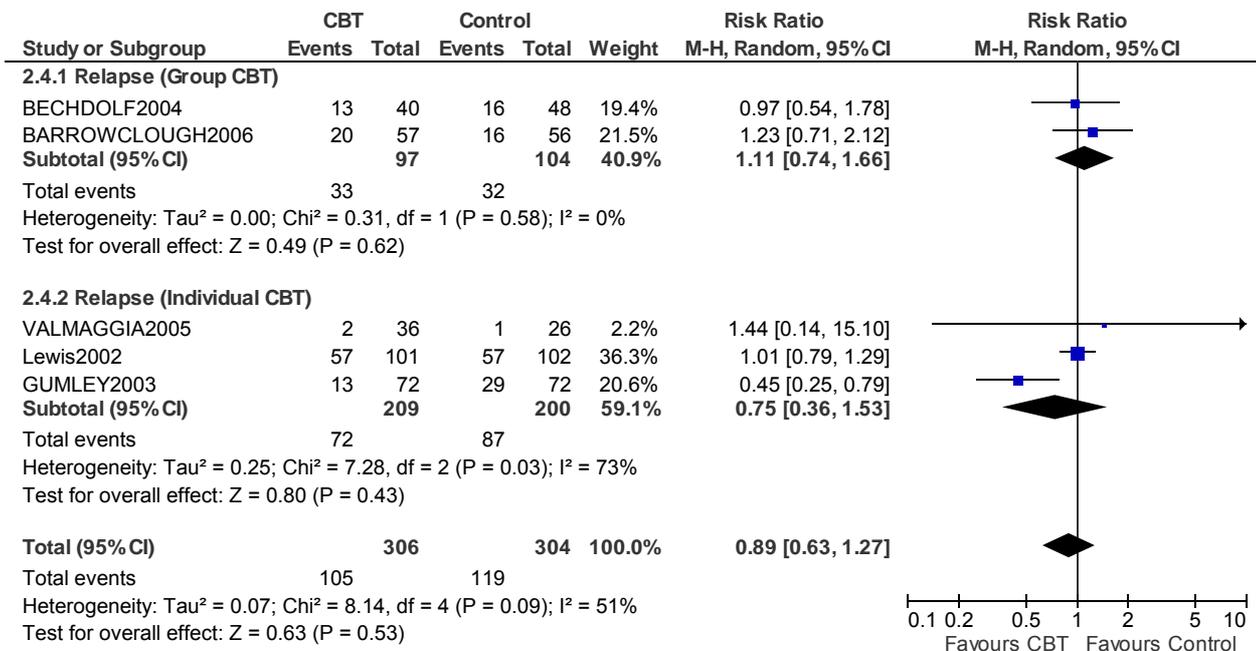


Psychological clinical evidence: CBT (subgroup analyses)

2.3 Global state: 1. Relapse (at end of treatment)

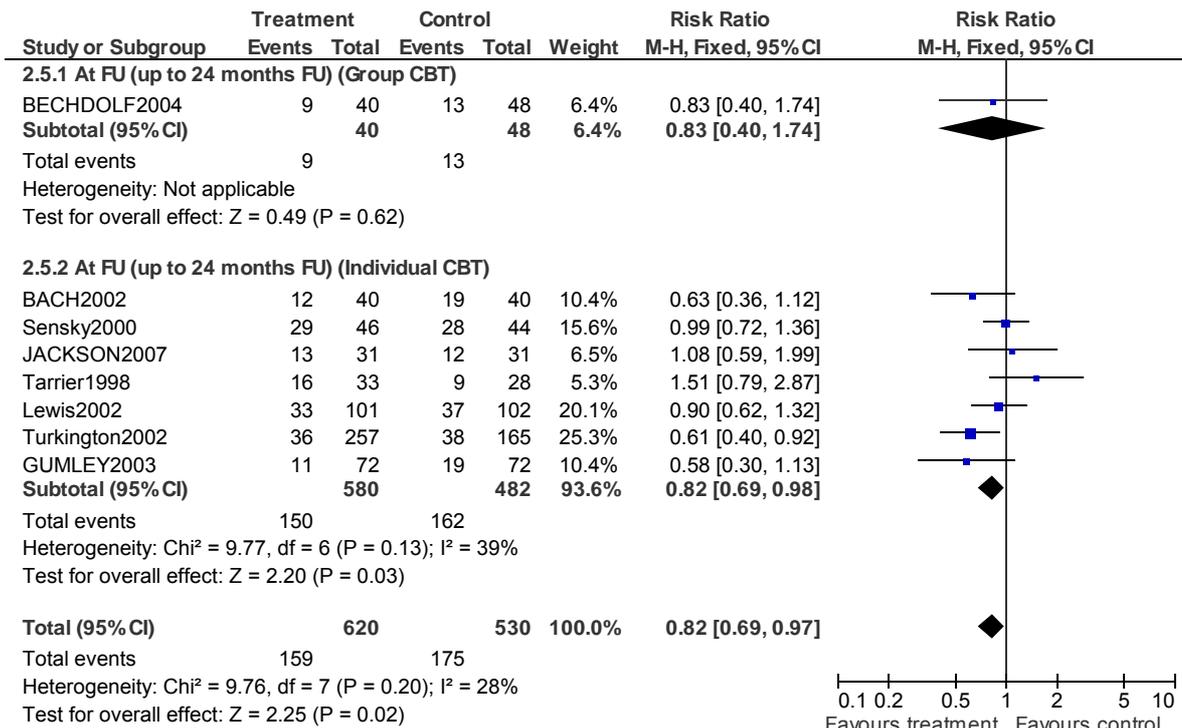


2.4 Global state: 1. Relapse (up to 2 years FU)



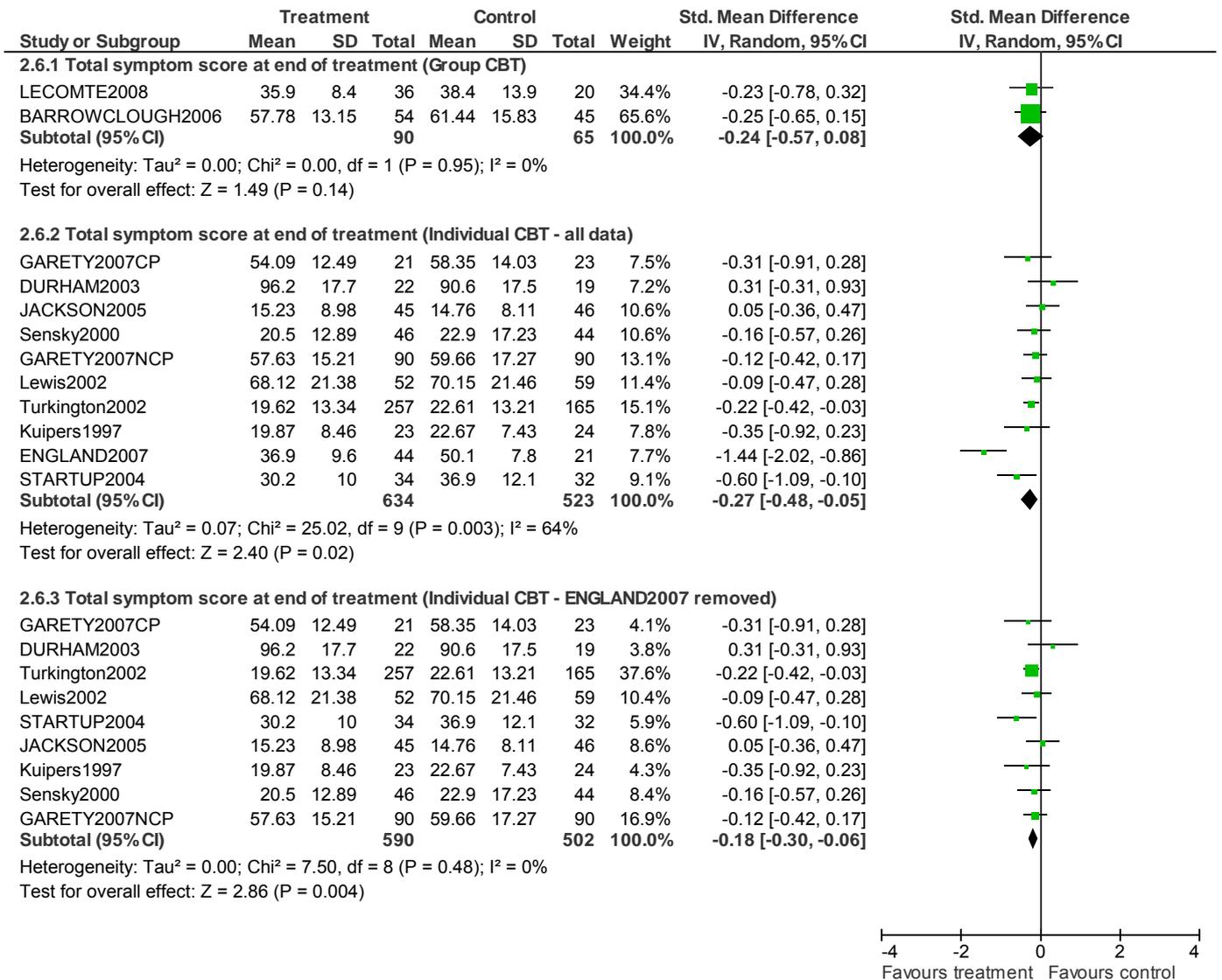
Psychological clinical evidence: CBT (subgroup analyses)

2.5 Service outcome: 1. Hospital admission (up to 24 months FU)



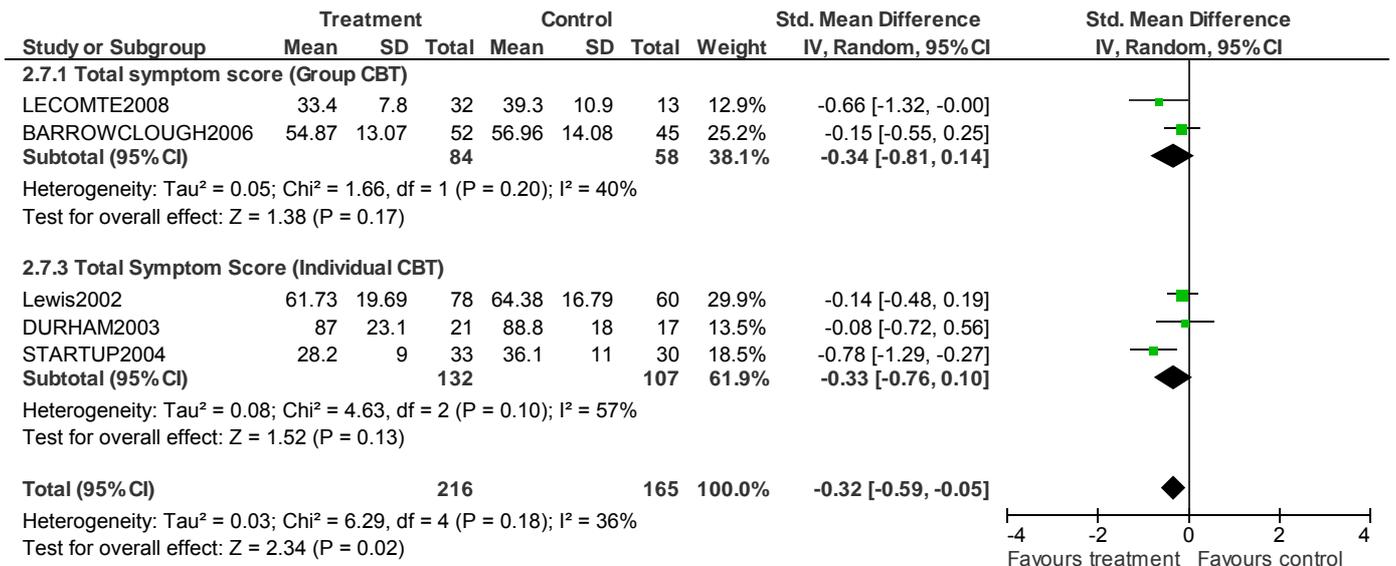
Psychological clinical evidence: CBT (subgroup analyses)

2.6 Mental State: 1. Total symptom score (end of treatment) (lower = better)



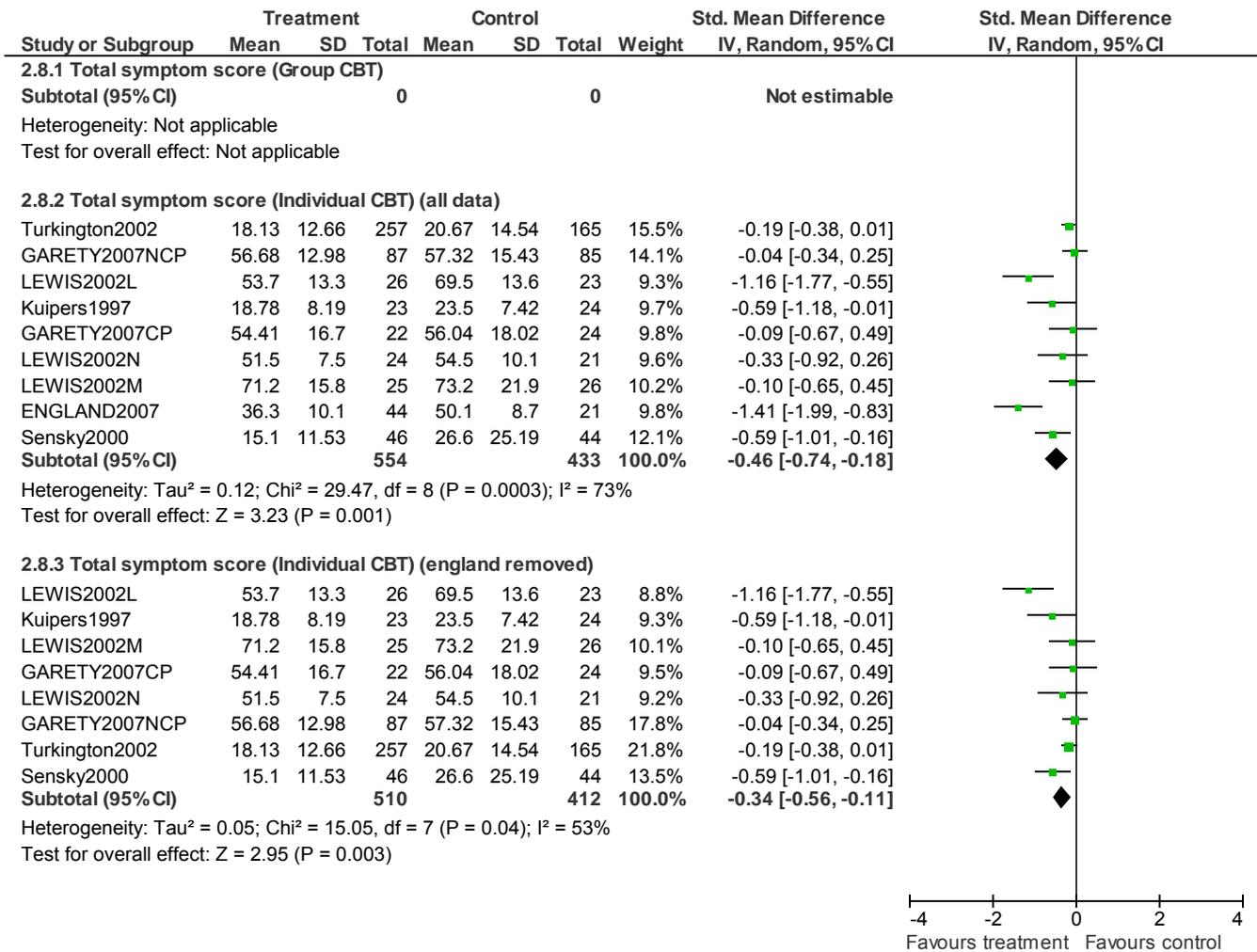
Psychological clinical evidence: CBT (subgroup analyses)

2.7 Mental State: 1. Total symptom score (up to 6 months FU) (lower = better)



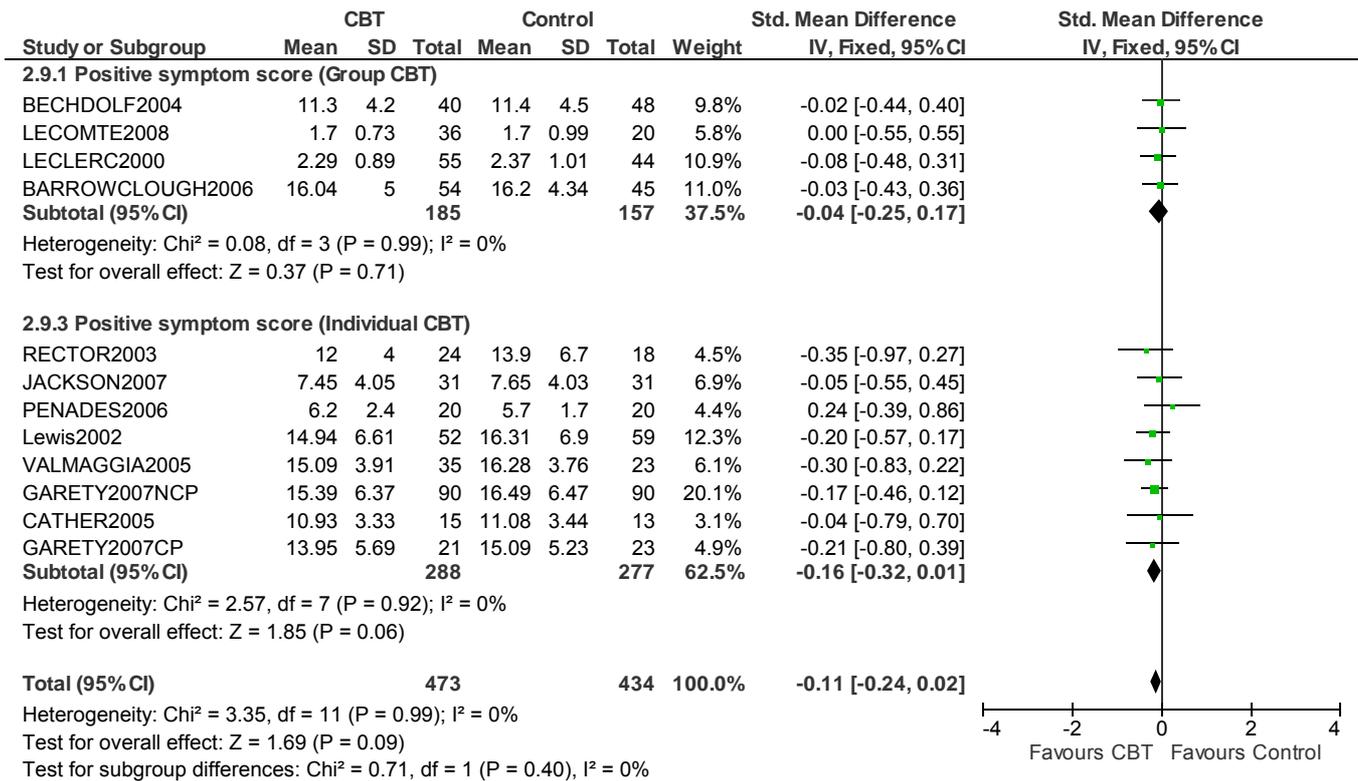
Psychological clinical evidence: CBT (subgroup analyses)

2.8 Mental State: 1. Total symptom score (at 9-18 months FU) (lower = better)



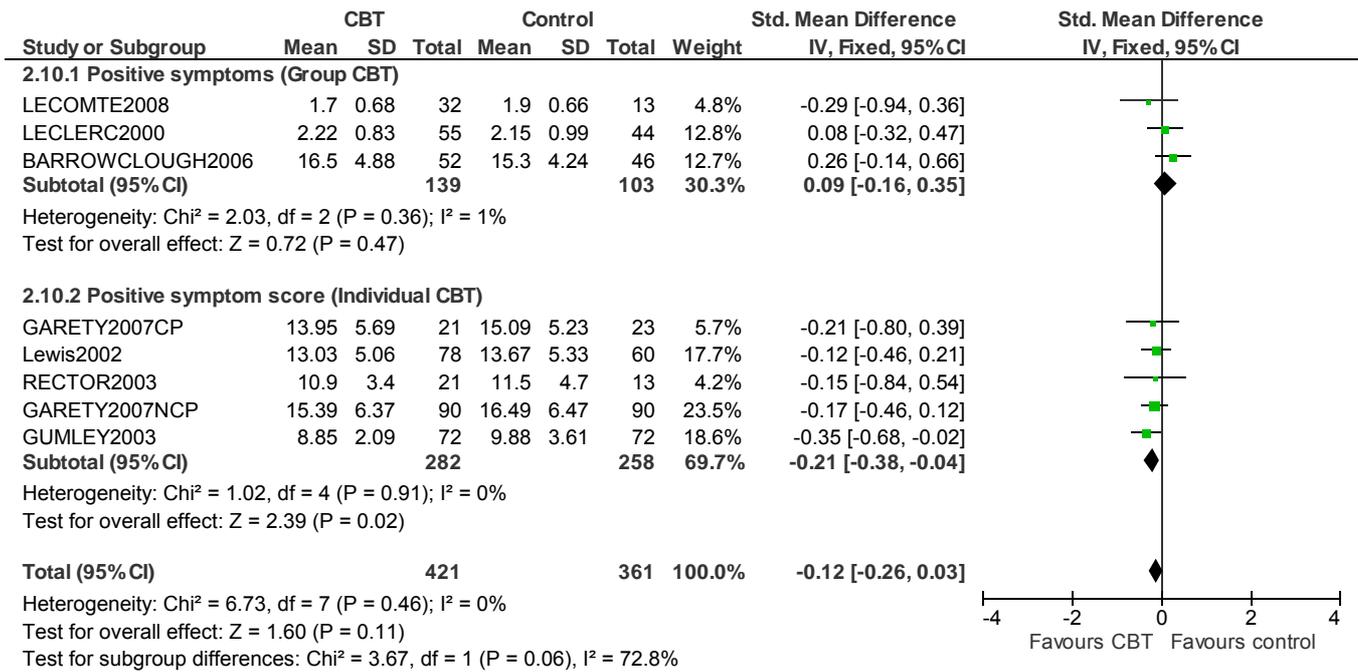
Psychological clinical evidence: CBT (subgroup analyses)

2.9 Mental state: 2. Continuous measures - positive symptoms (at end of treatment) (lower = better)



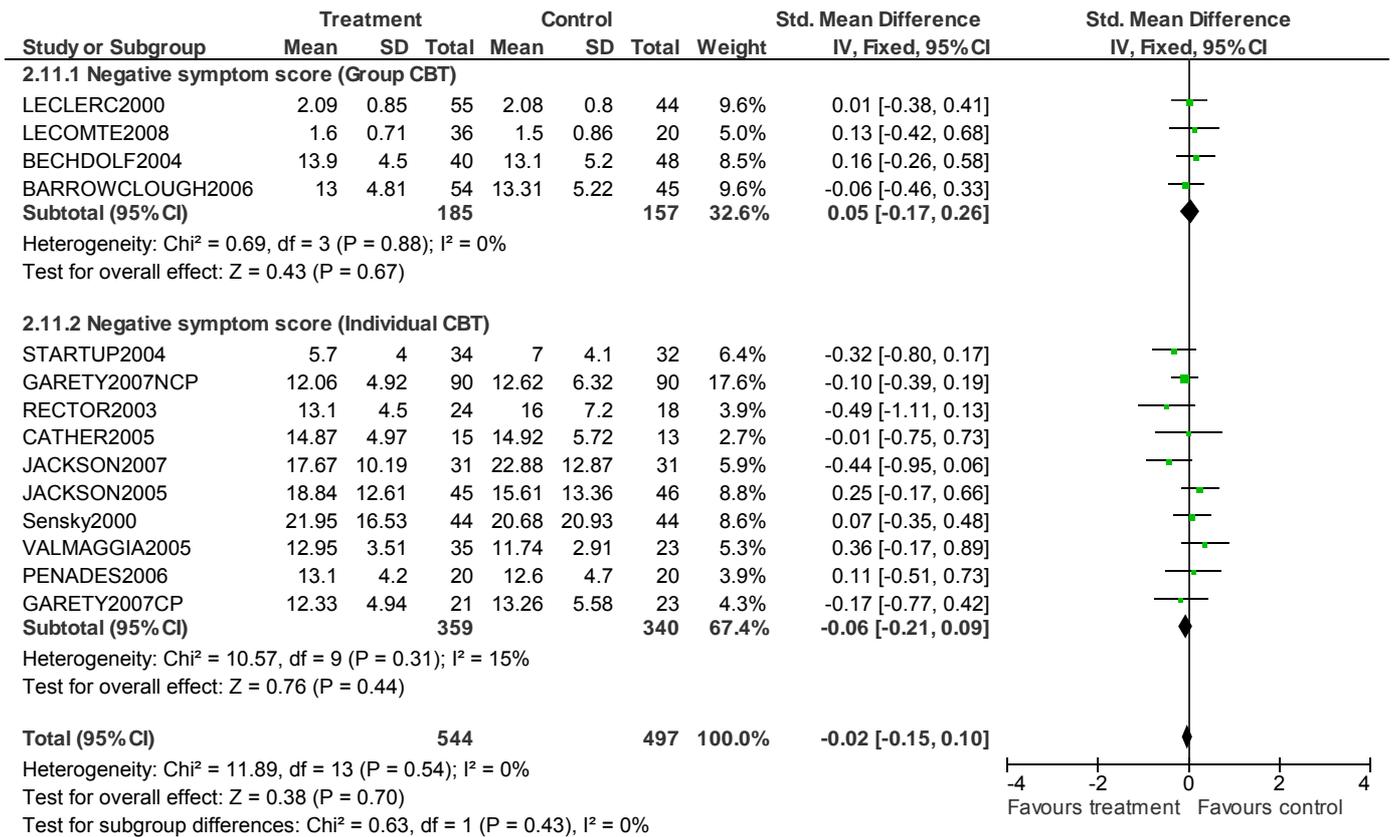
Psychological clinical evidence: CBT (subgroup analyses)

2.10 Mental state: 2. Continuous measures - positive symptoms (up to 12 months FU) (lower = better)



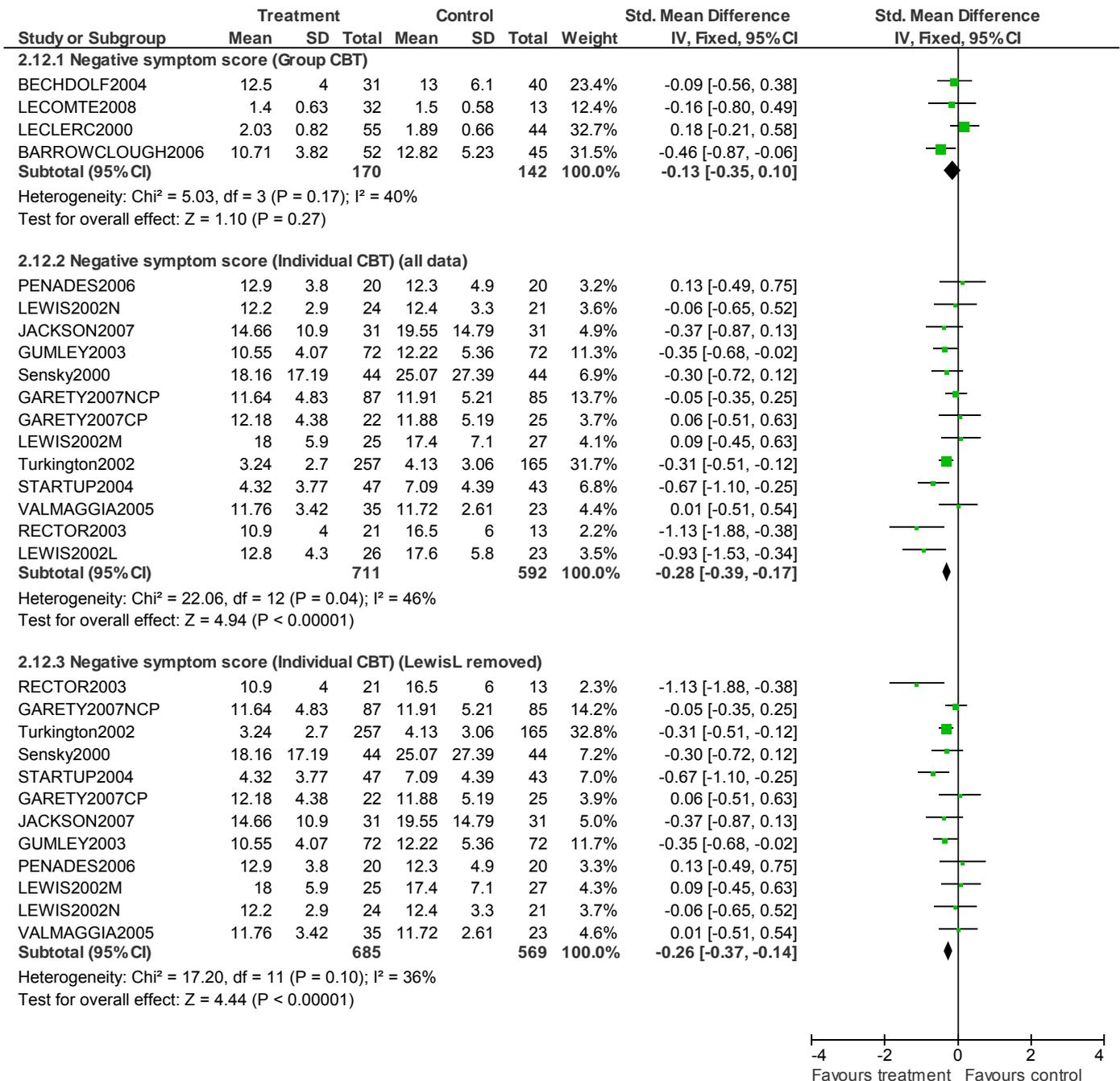
Psychological clinical evidence: CBT (subgroup analyses)

2.11 Mental state: 3. Continuous measures - negative symptoms (at end of treatment) (lower = better)



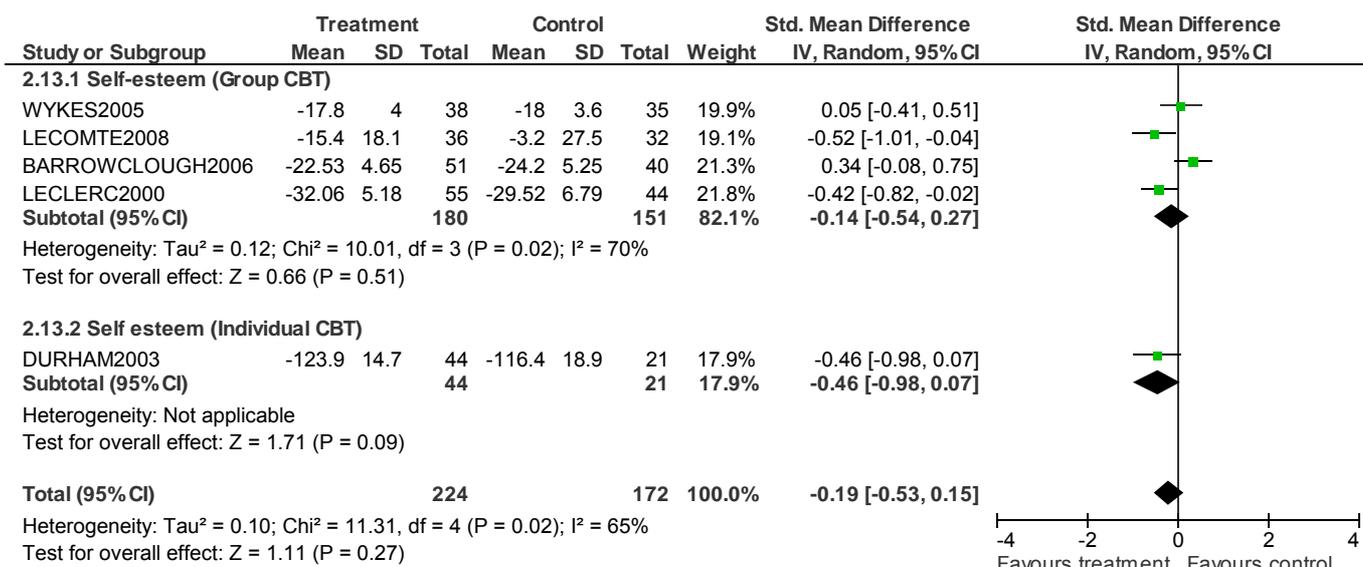
Psychological clinical evidence: CBT (subgroup analyses)

2.12 Mental state: 3. Continuous measures - negative symptoms (up to 24 months FU) (lower = better)

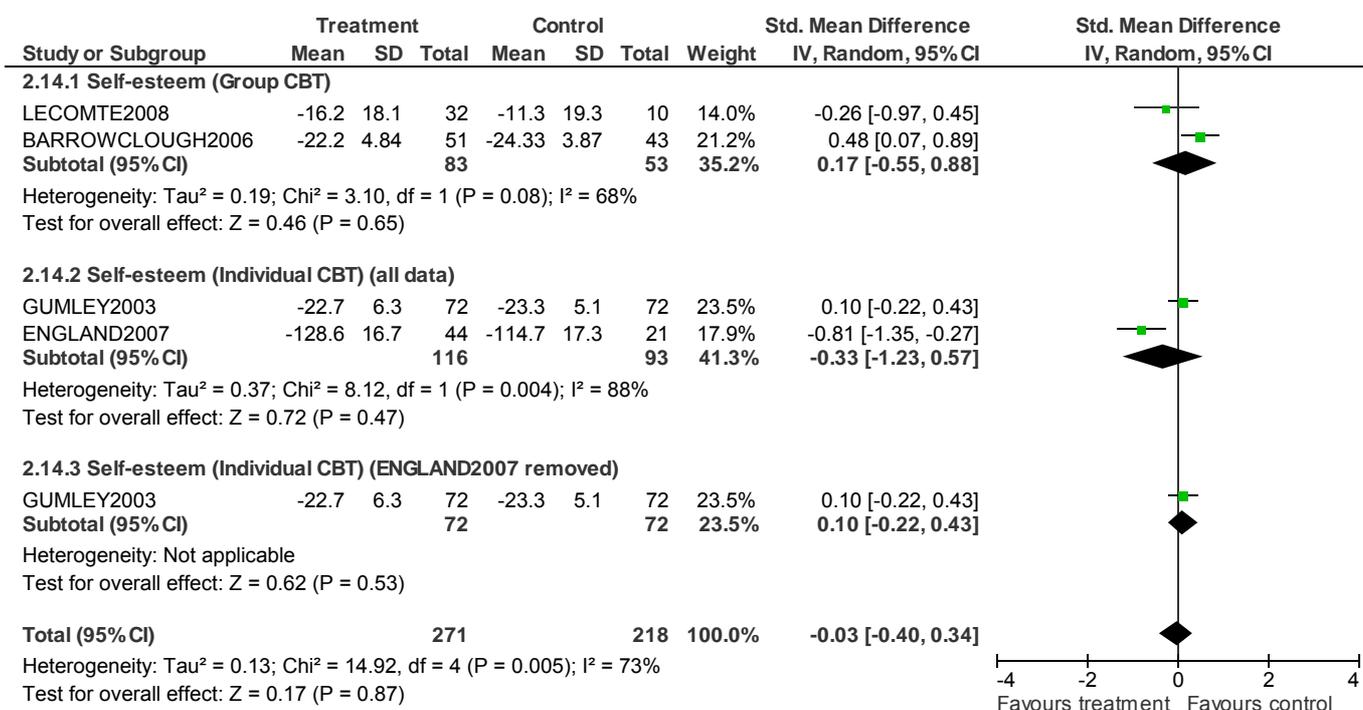


Psychological clinical evidence: CBT (subgroup analyses)

2.13 Mental State: 4. Self-esteem (RSES, RSCQ) (at end of treatment)

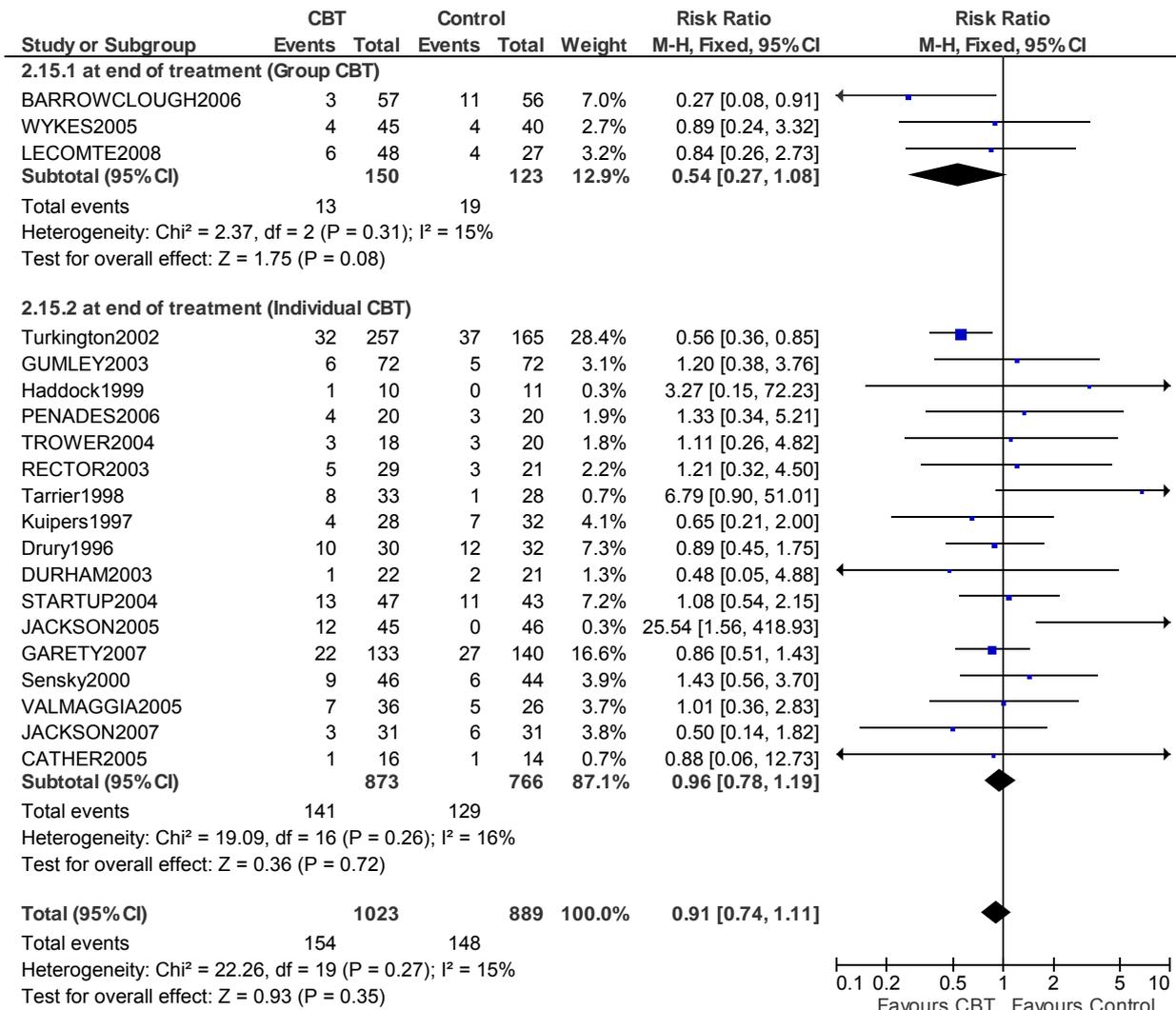


2.14 Mental state: 4. Self-esteem (RSES, RSCQ) (up to 12 months Follow Up)



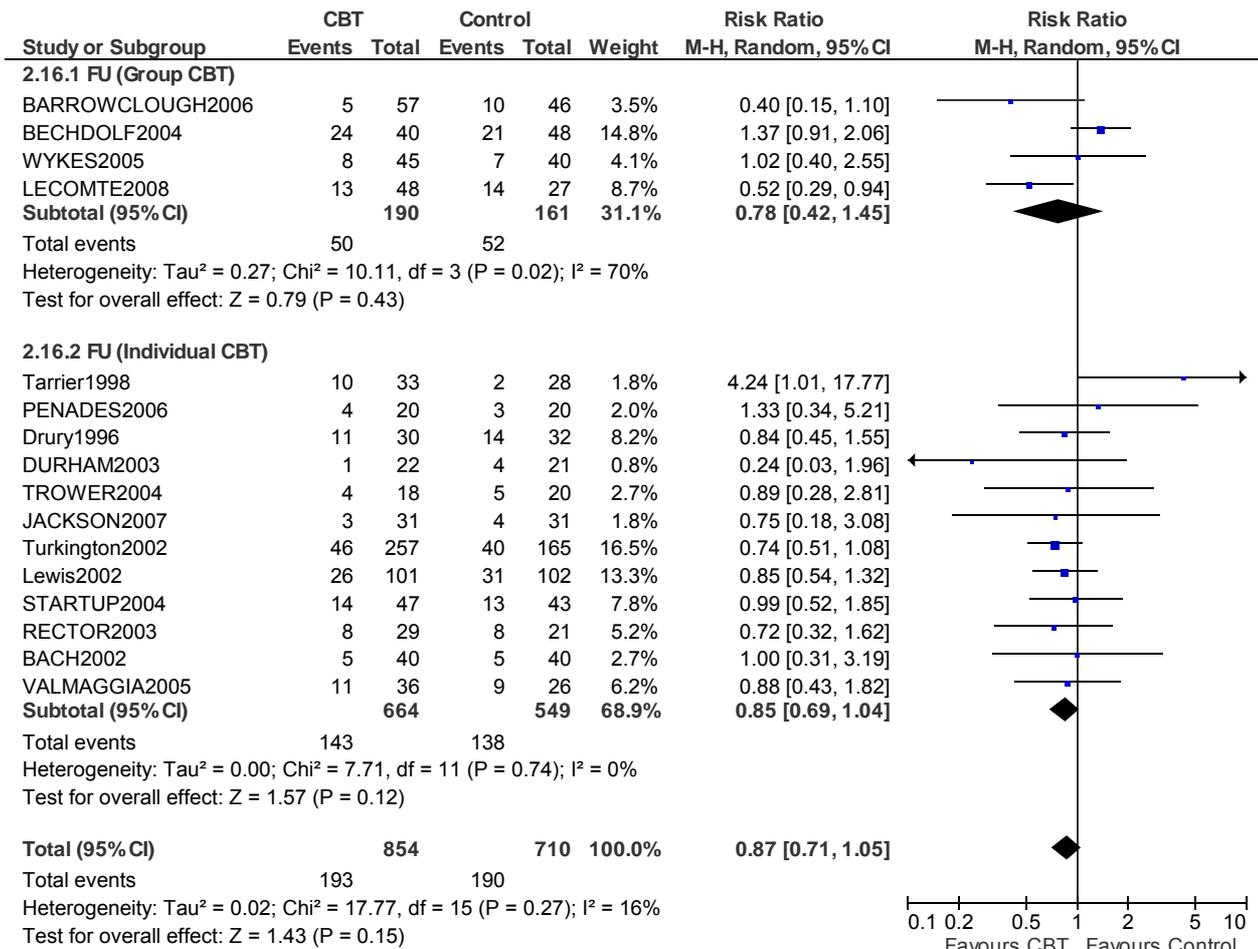
Psychological clinical evidence: CBT (subgroup analyses)

2.15 Treatment acceptability: 1. Leaving the study early (at end of treatment)



Psychological clinical evidence: CBT (subgroup analyses)

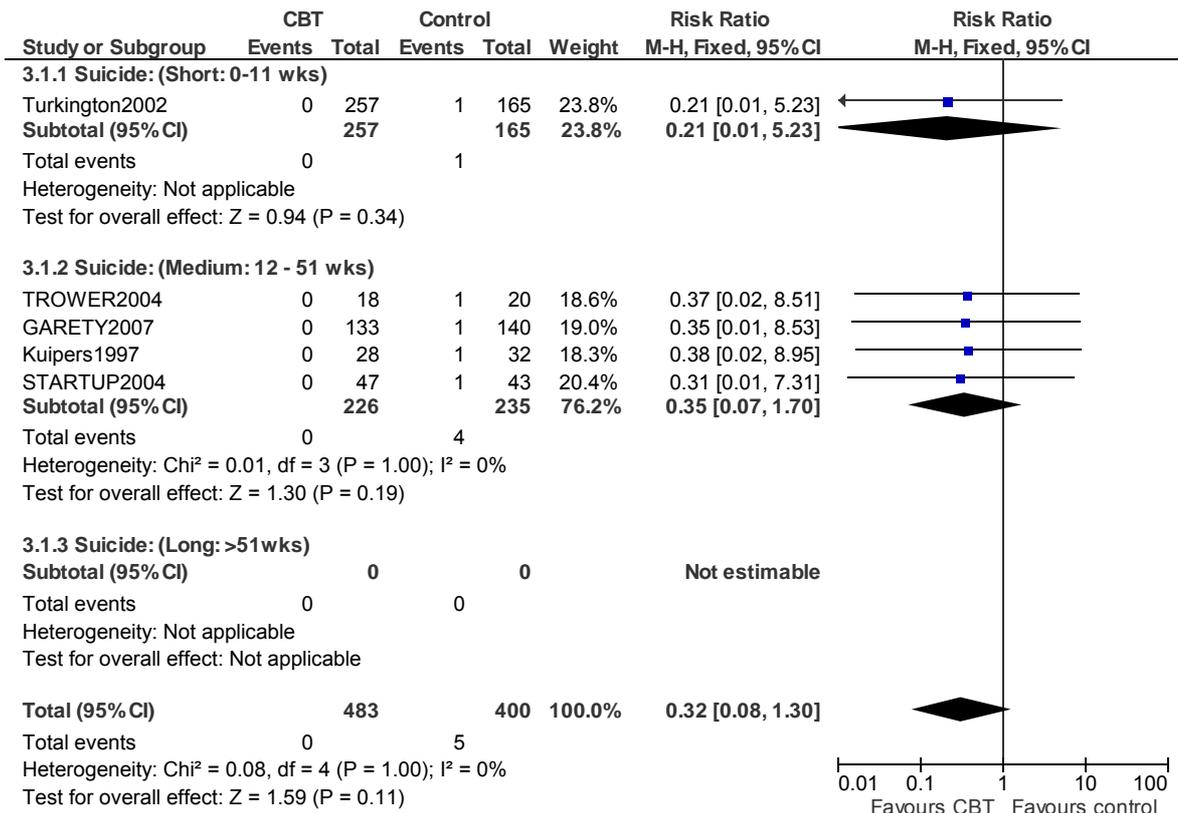
2.16 Treatment acceptability: 1. Leaving the study early (at FU)



3 CBT versus any control - subgroup analysis by duration

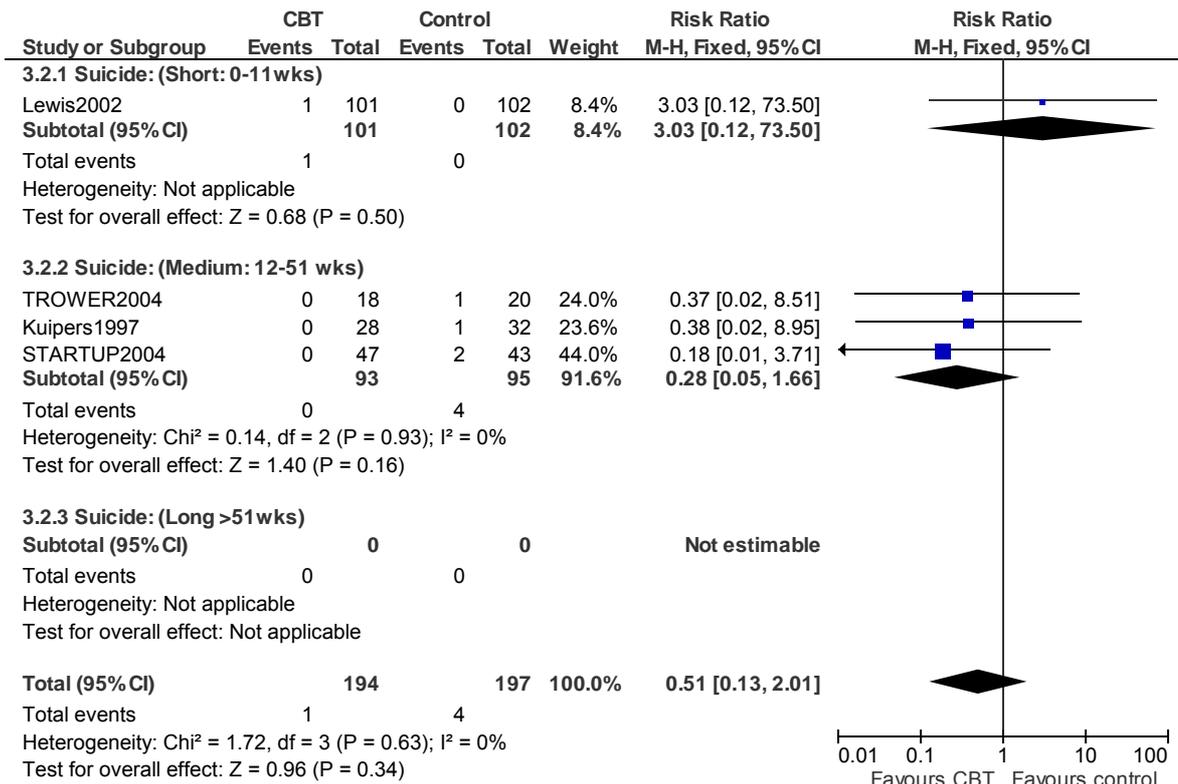
Psychological clinical evidence: CBT (subgroup analyses)

3.1 Mortality (at end of treatment)



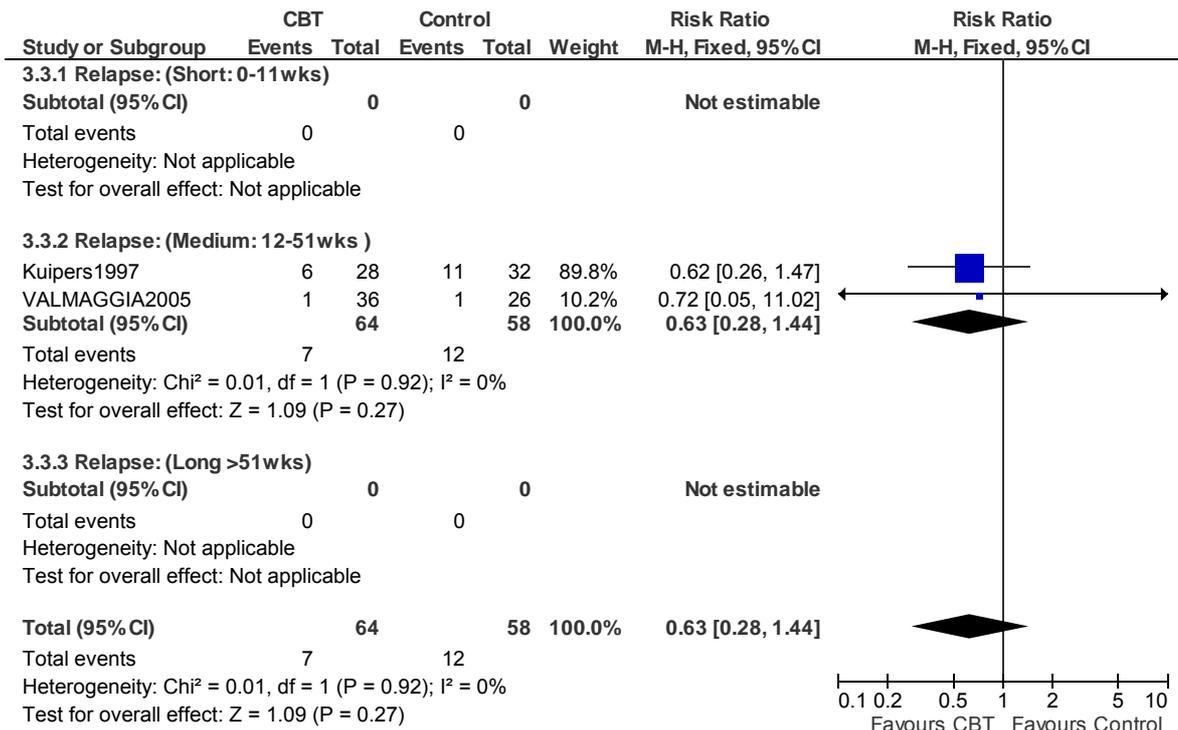
Psychological clinical evidence: CBT (subgroup analyses)

3.2 Mortality (at FU)



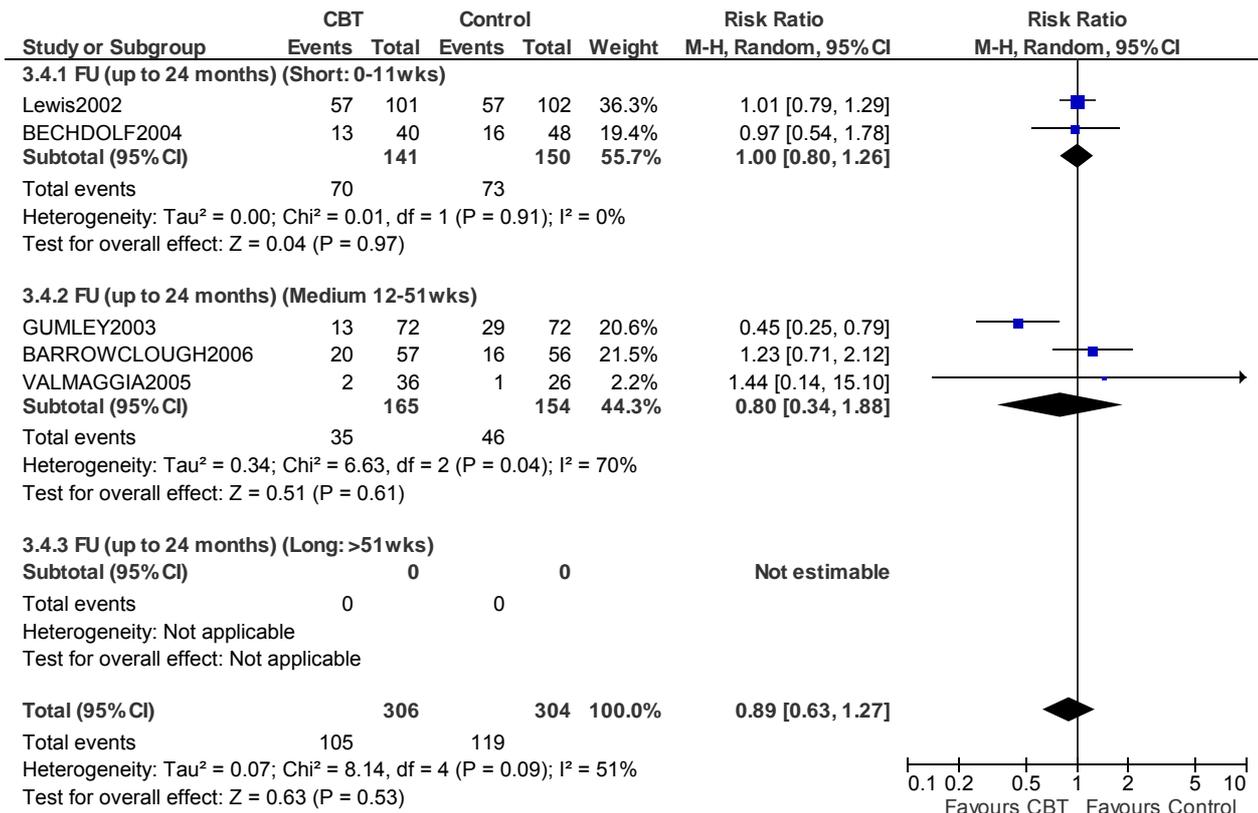
Psychological clinical evidence: CBT (subgroup analyses)

3.3 Global state: 1. Relapse (at end of treatment)



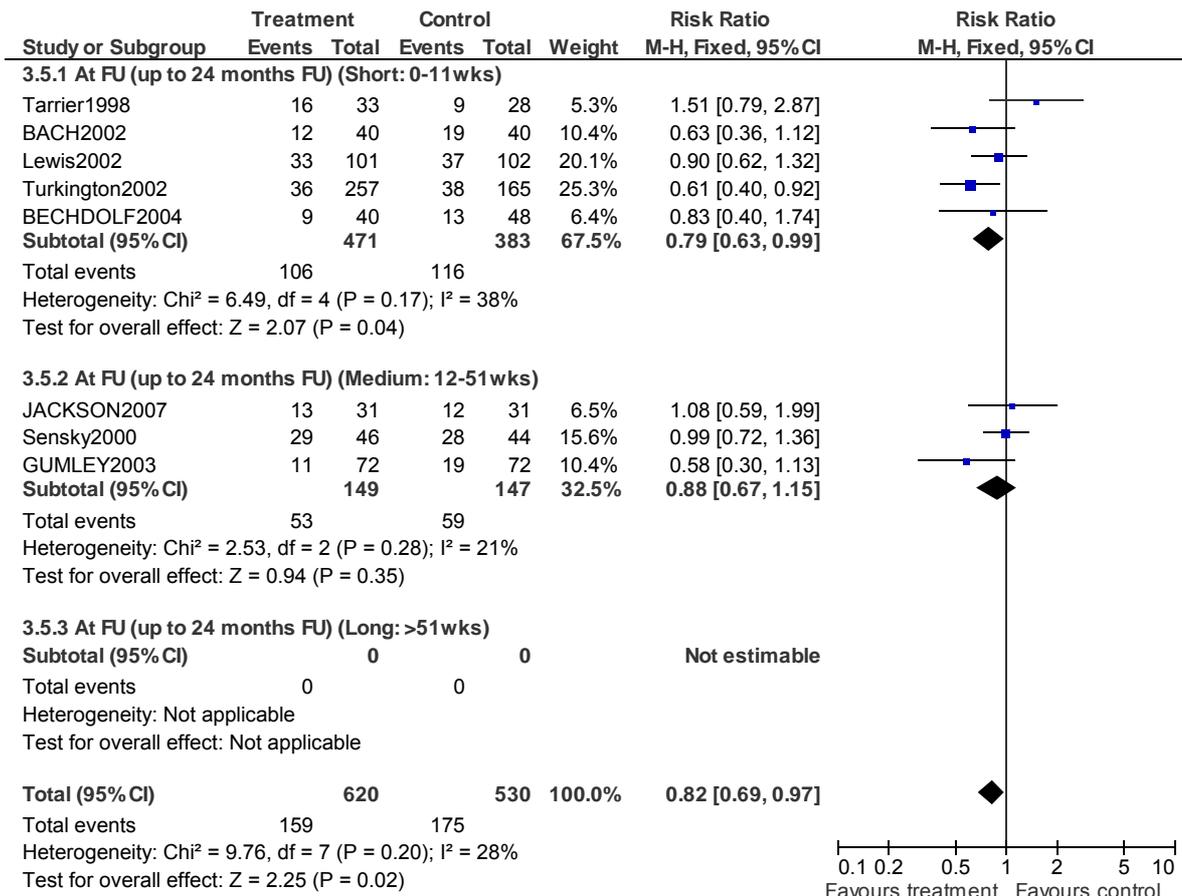
Psychological clinical evidence: CBT (subgroup analyses)

3.4 Global state: 1. Relapse (at FU)



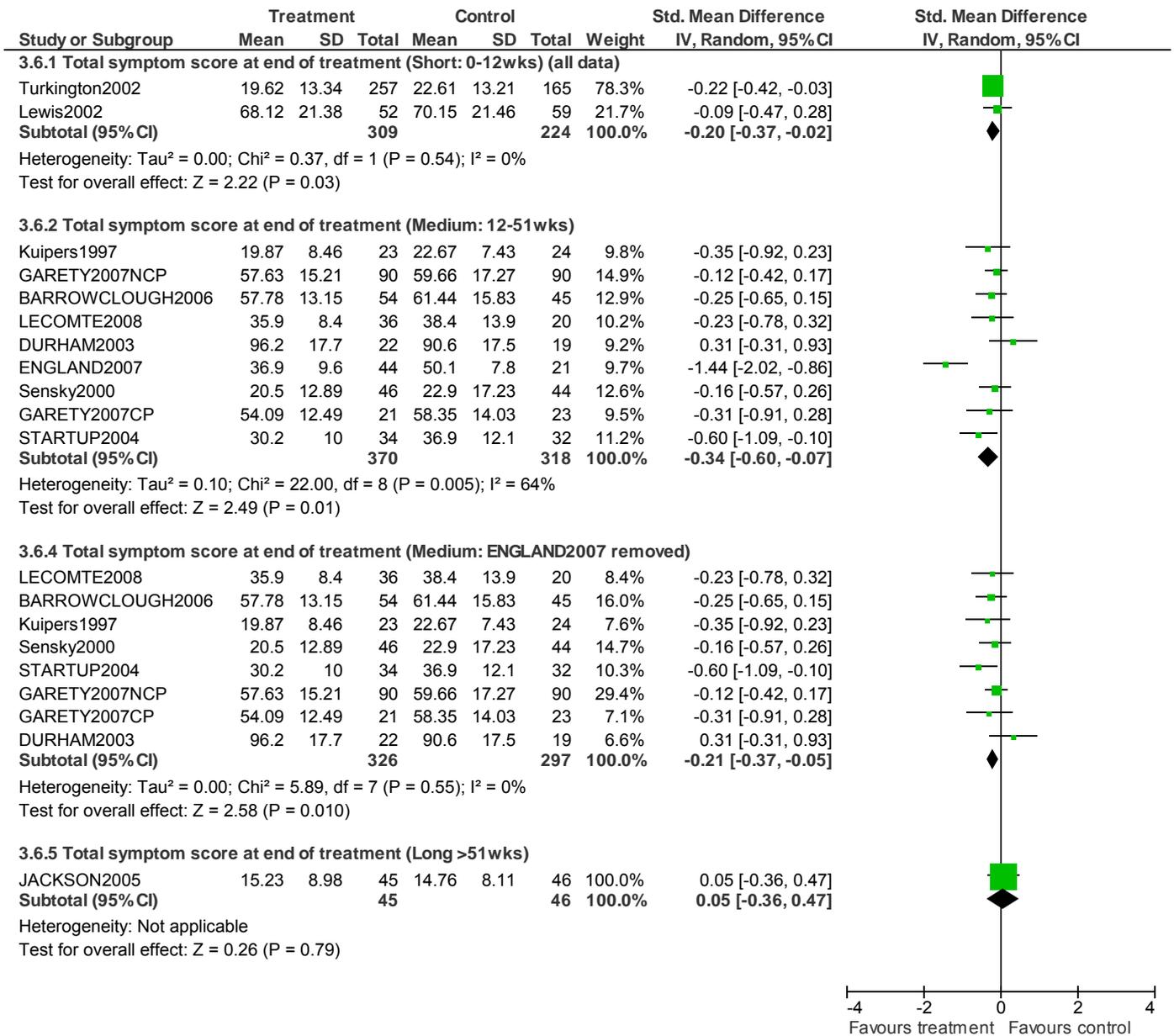
Psychological clinical evidence: CBT (subgroup analyses)

3.5 Service outcome: 1. Hospital admission (up to 24 months FU)



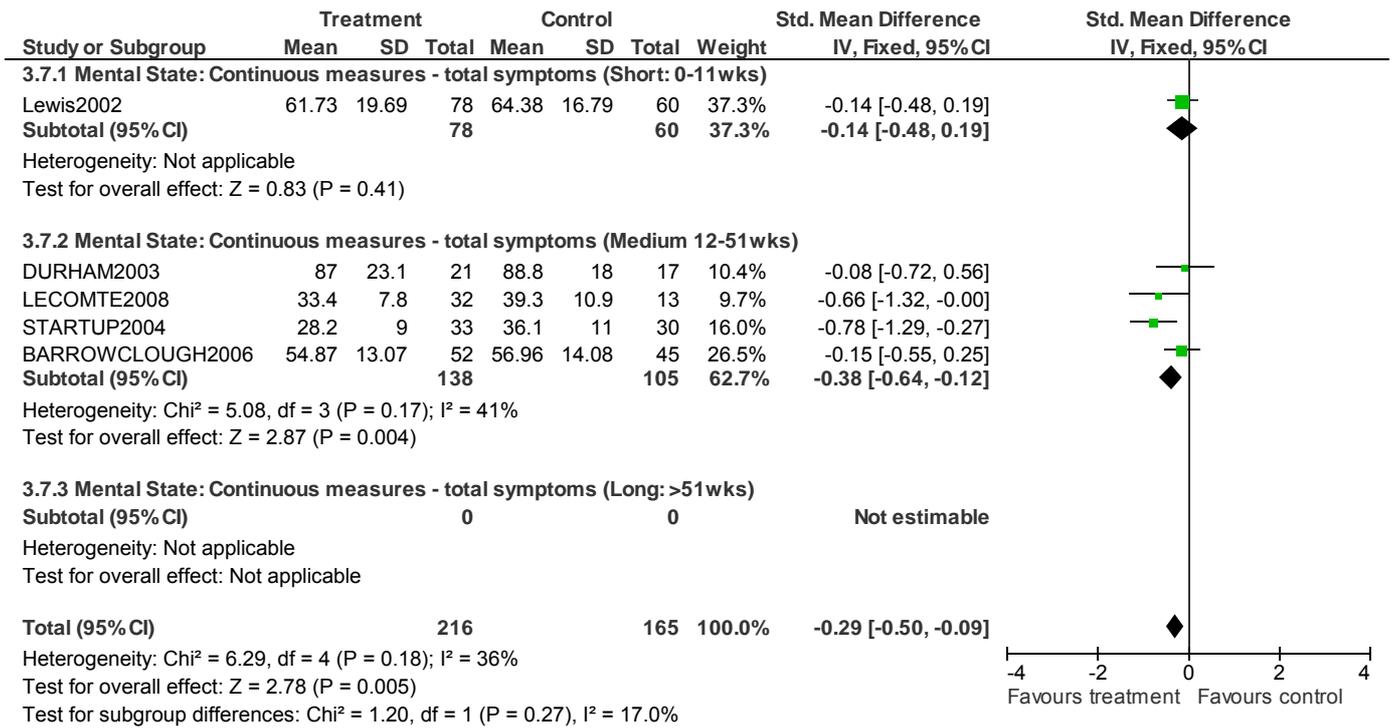
Psychological clinical evidence: CBT (subgroup analyses)

3.6 Mental State: 1. Total symptom score (end of treatment) (lower = better)



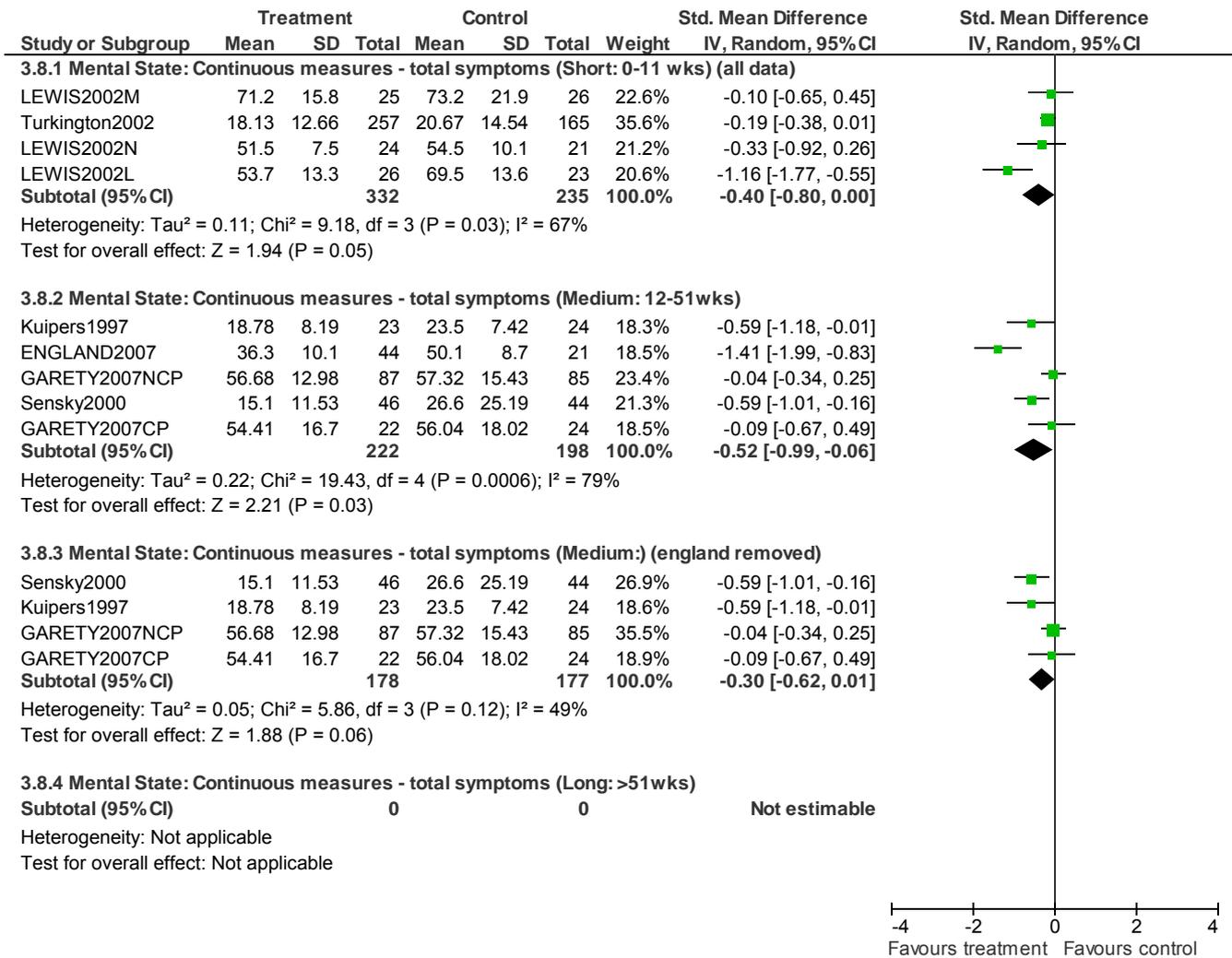
Psychological clinical evidence: CBT (subgroup analyses)

3.7 Mental State: 1. Total symptom score (up to 6 months FU) (lower = better)



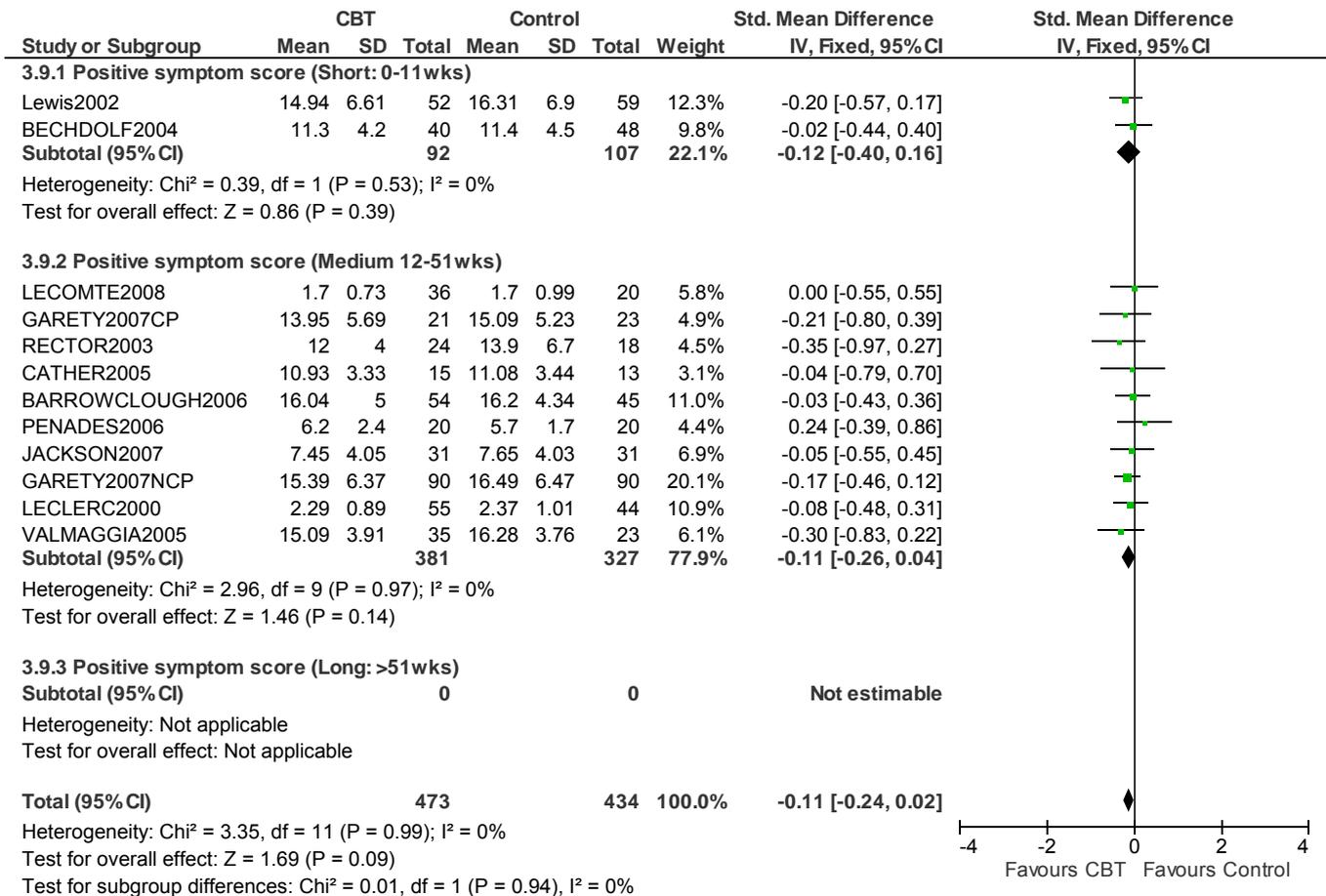
Psychological clinical evidence: CBT (subgroup analyses)

3.8 Mental State: 1. Total symptom score (at 9-18 months FU) (lower = better)



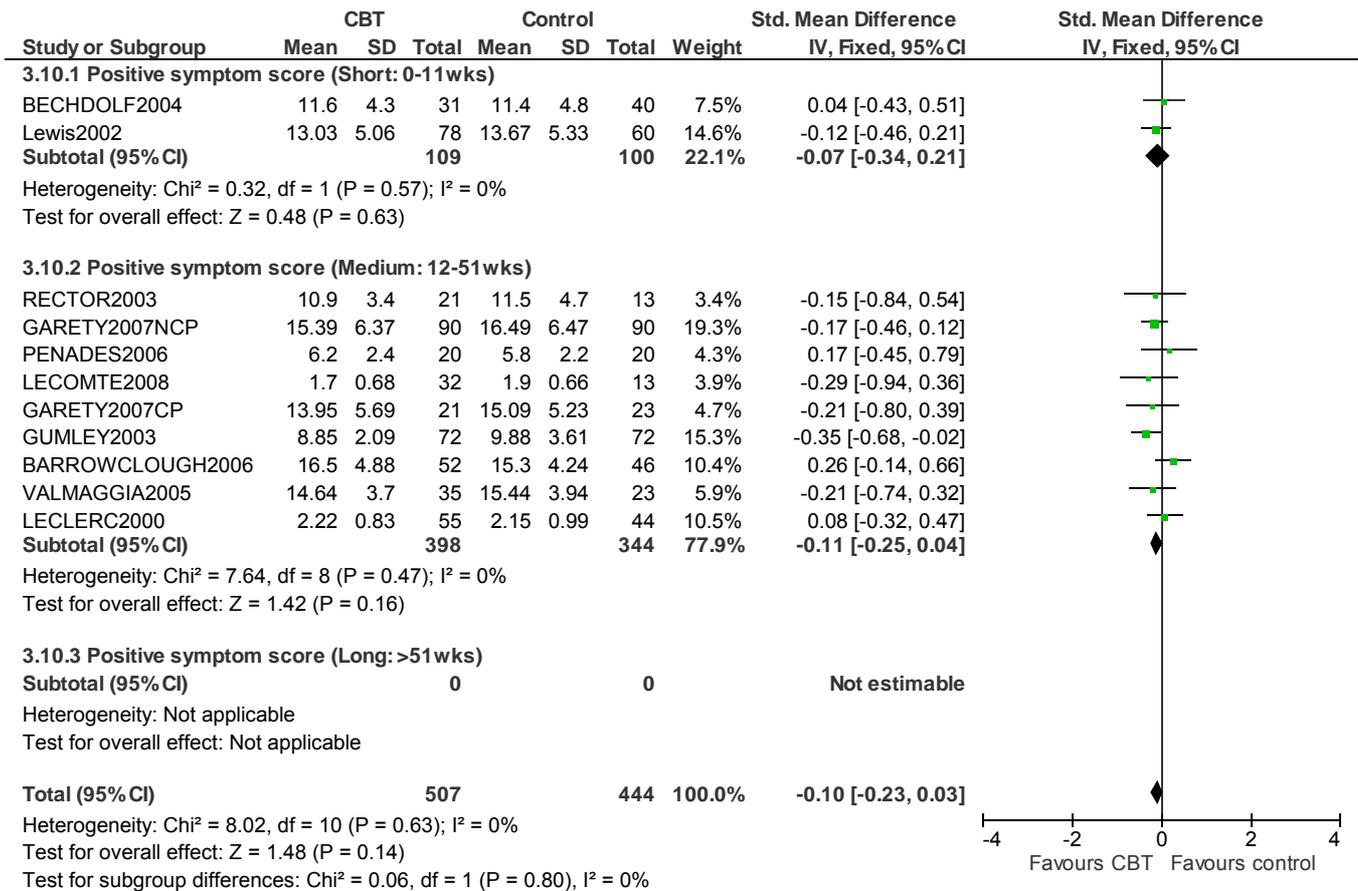
Psychological clinical evidence: CBT (subgroup analyses)

3.9 Mental state: 2. Continuous measures - positive symptoms (at end of treatment) (lower = better)



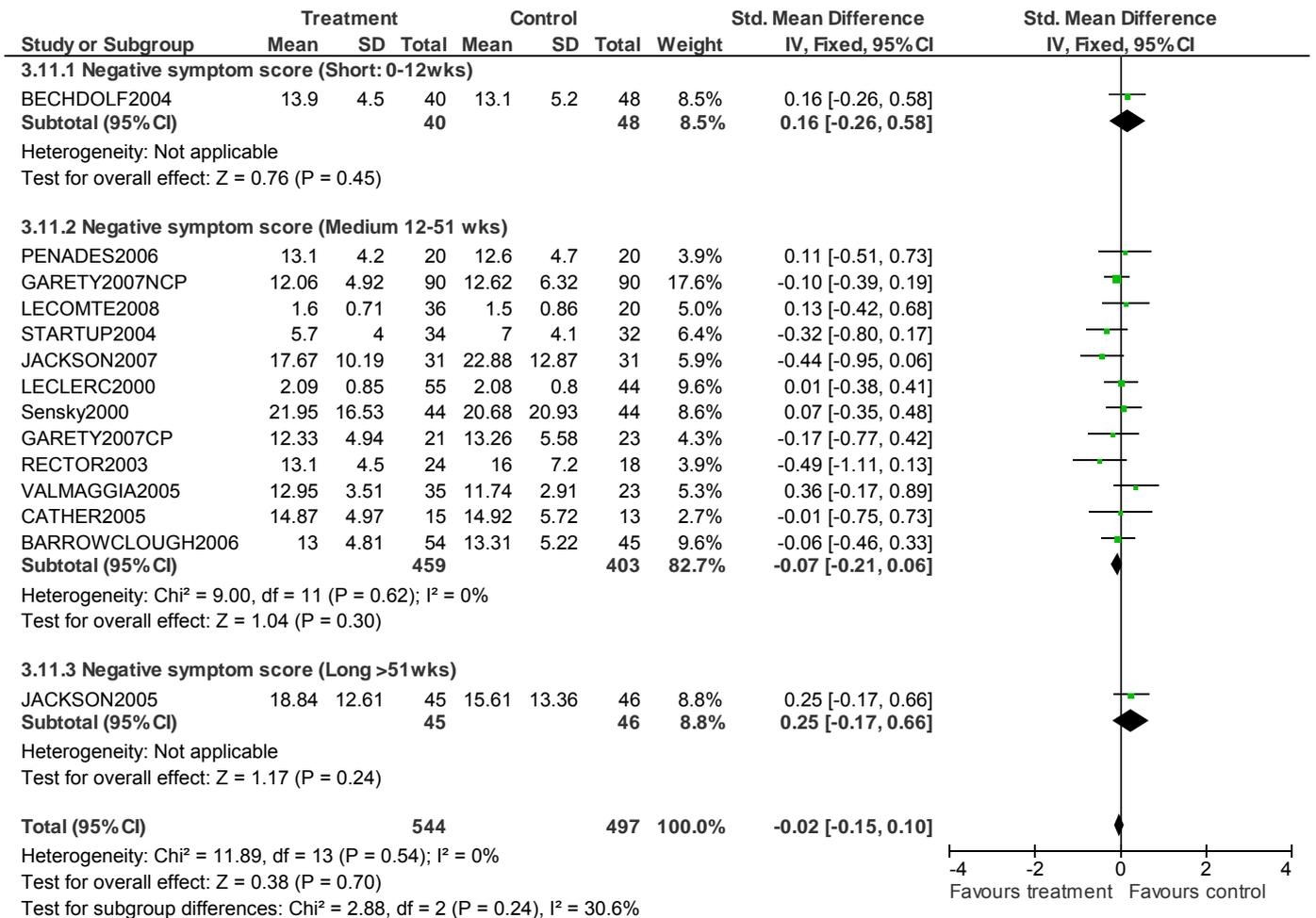
Psychological clinical evidence: CBT (subgroup analyses)

3.10 Mental state: 2. Continuous measures - positive symptoms (up to 12 months FU) (lower = better)



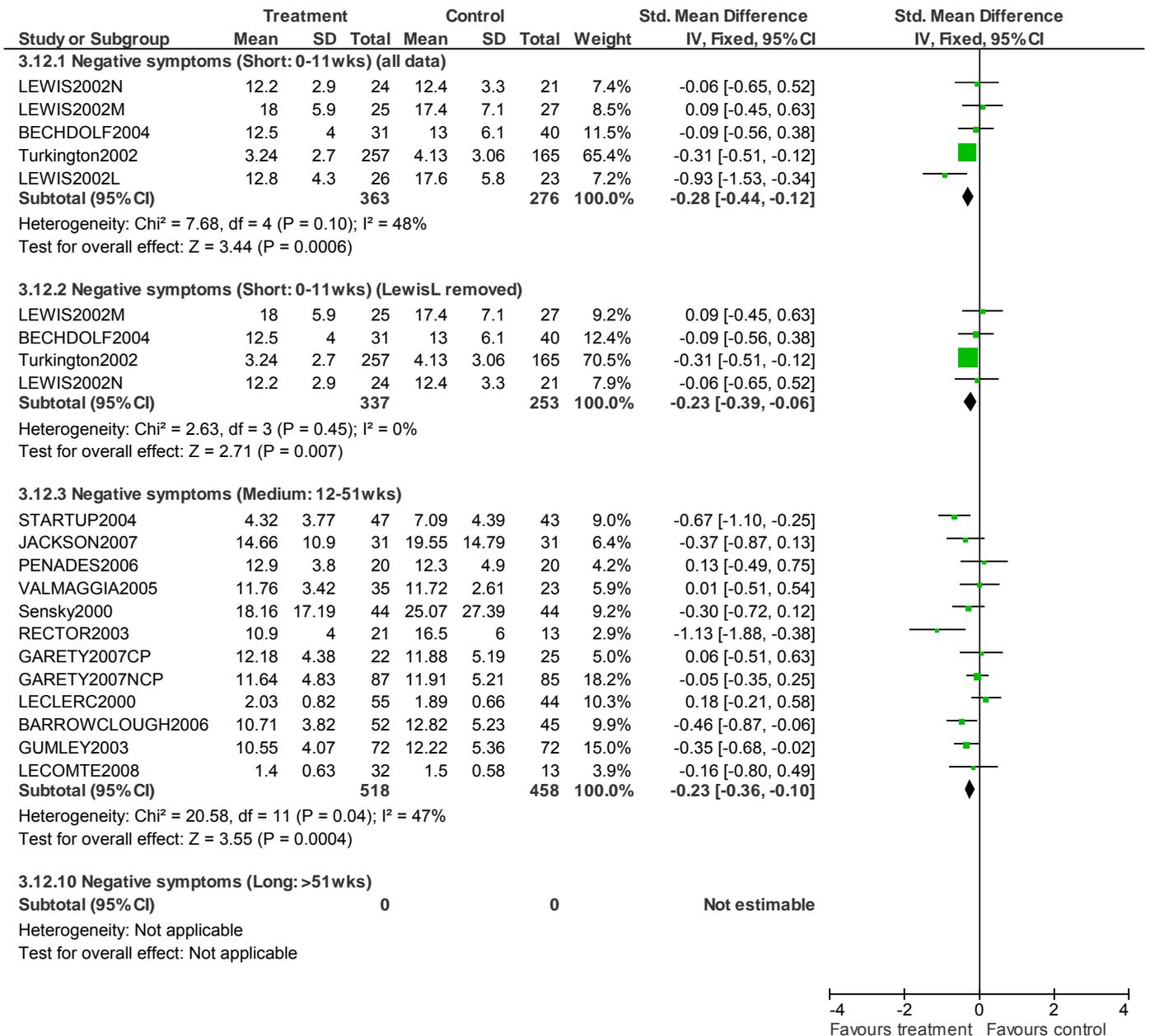
Psychological clinical evidence: CBT (subgroup analyses)

3.11 Mental state: 3. Continuous measures - negative symptoms (at end of treatment) (lower = better)



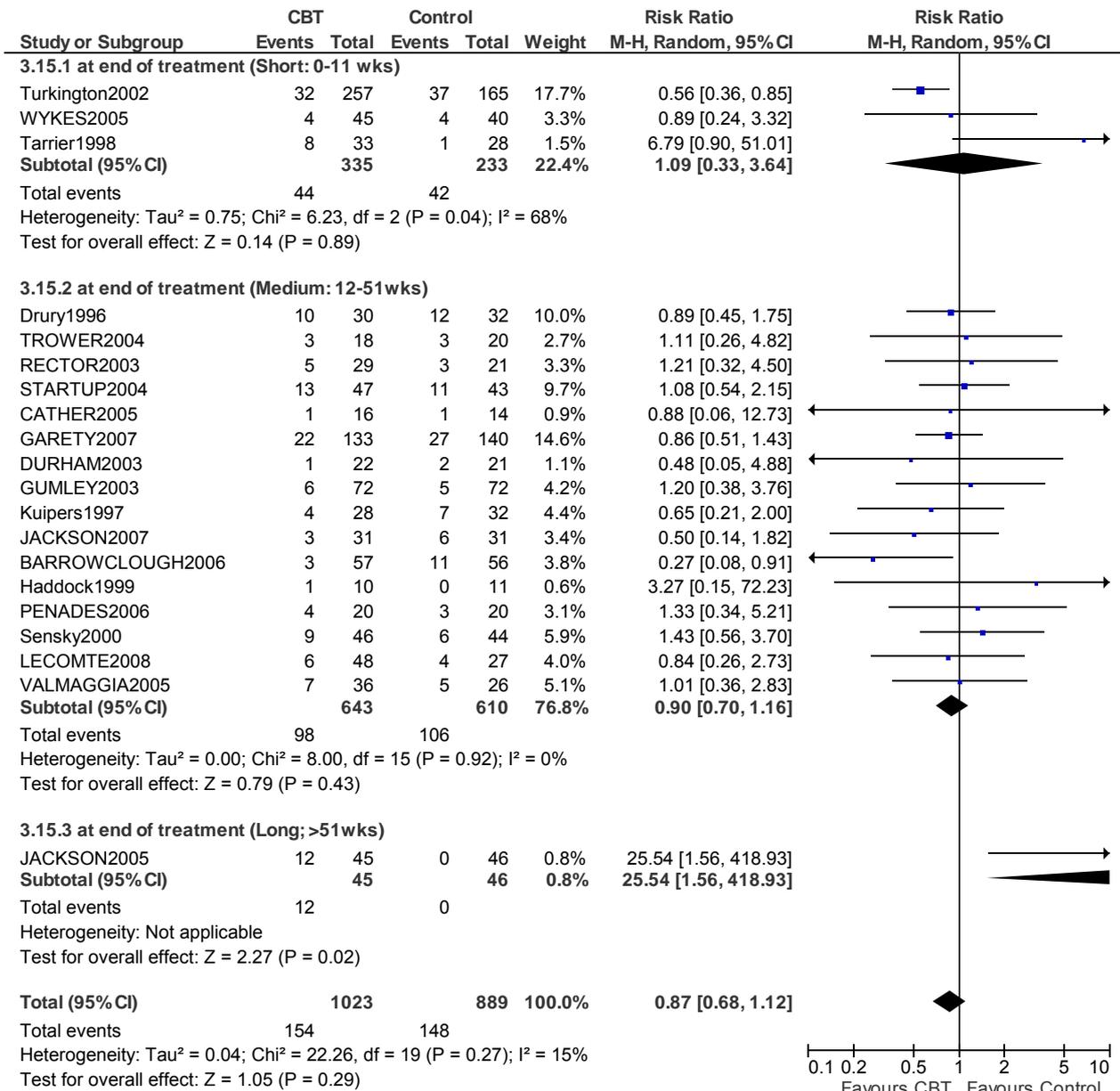
Psychological clinical evidence: CBT (subgroup analyses)

3.12 Mental state: 3. Continuous measures - negative symptoms (up to 24 months FU) (lower = better)



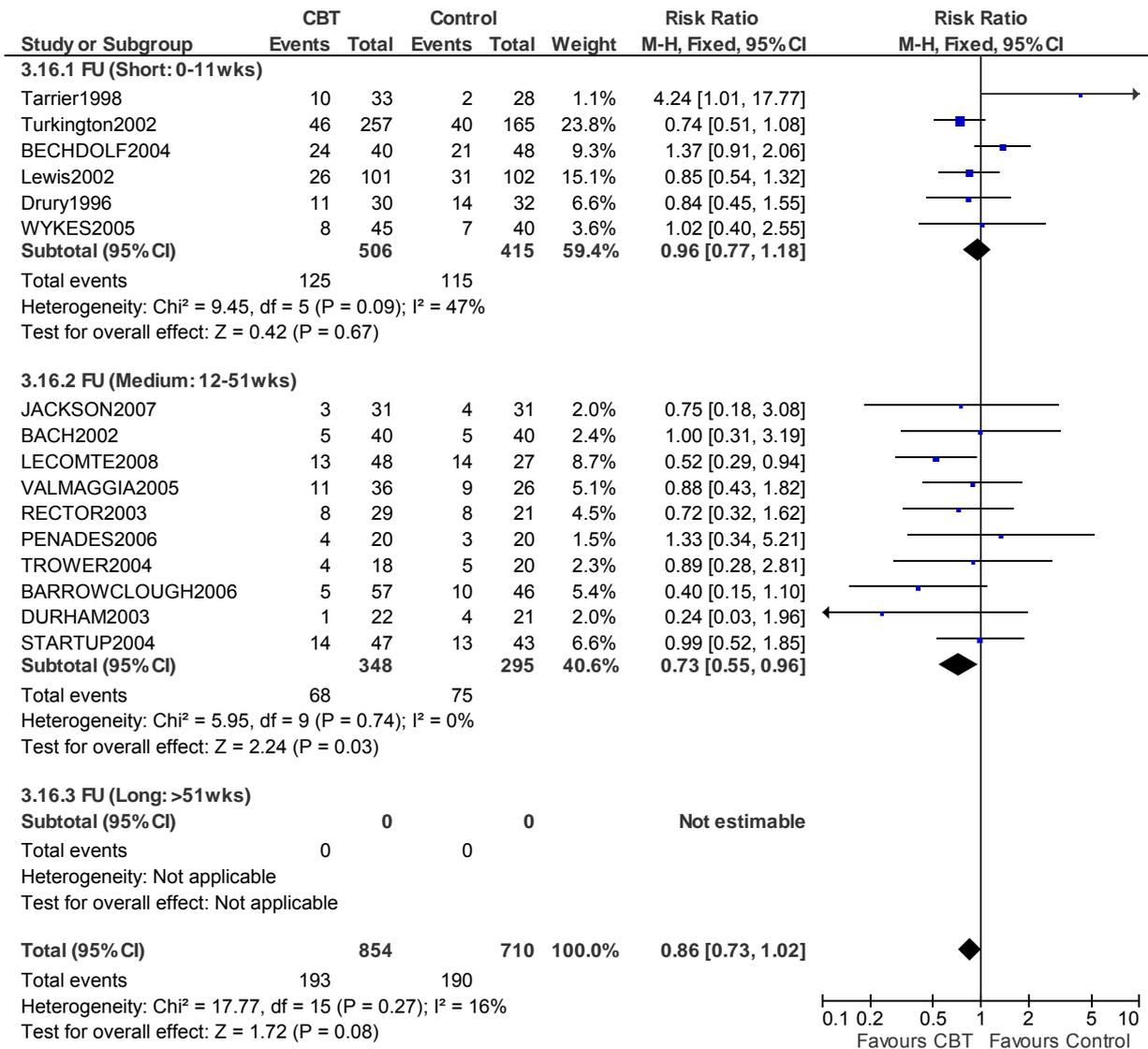
Psychological clinical evidence: CBT (subgroup analyses)

3.15 Treatment acceptability: 1. Leaving the study early (at end of treatment)



Psychological clinical evidence: CBT (subgroup analyses)

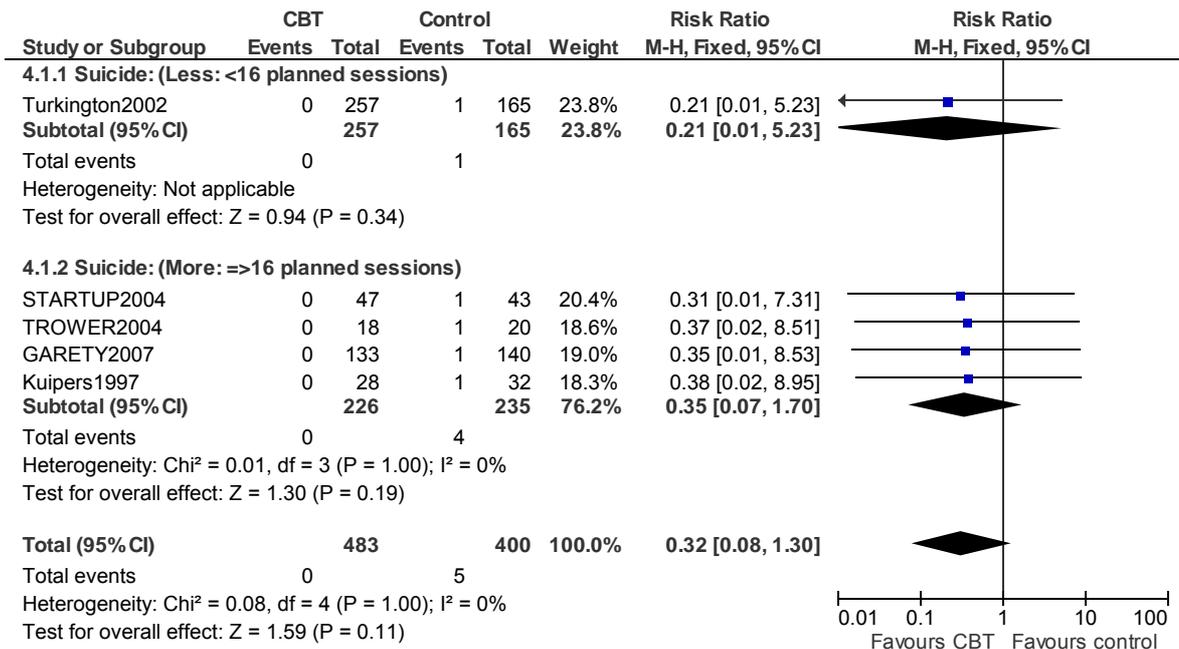
3.16 Treatment acceptability: 1. Leaving the study early (at FU)



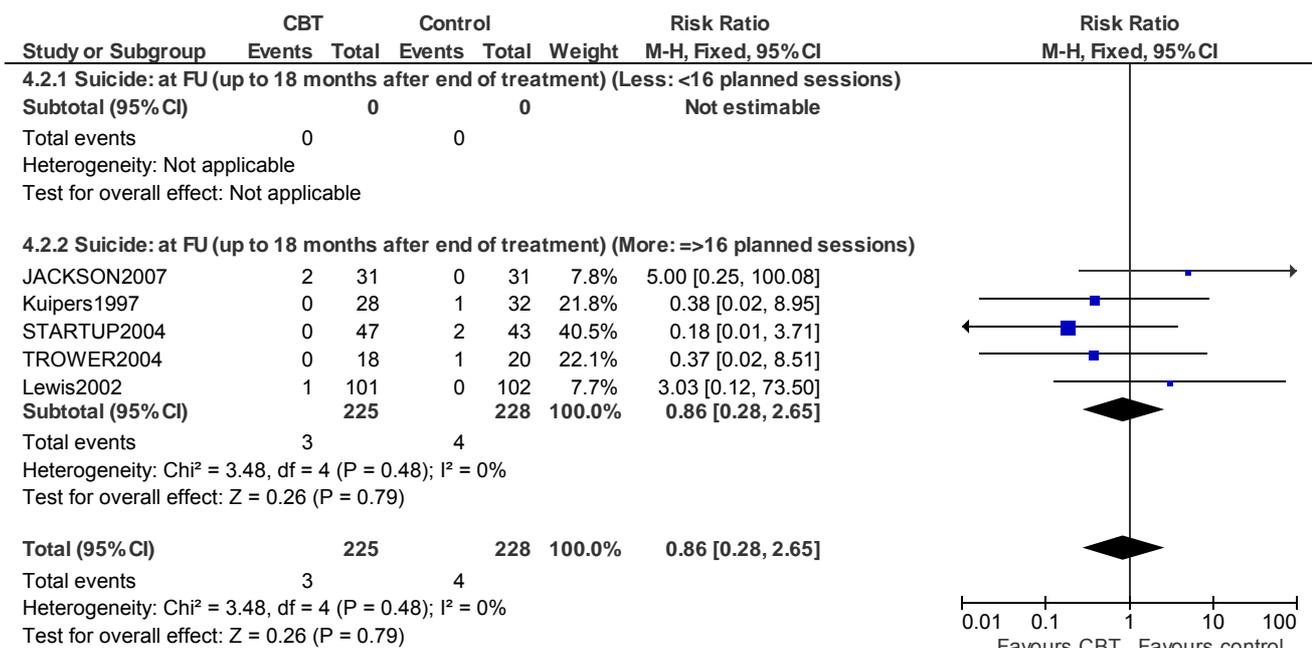
4 CBT versus any control - subgroup analysis by number of sessions

Psychological clinical evidence: CBT (subgroup analyses)

4.1 Mortality (at end of treatment)

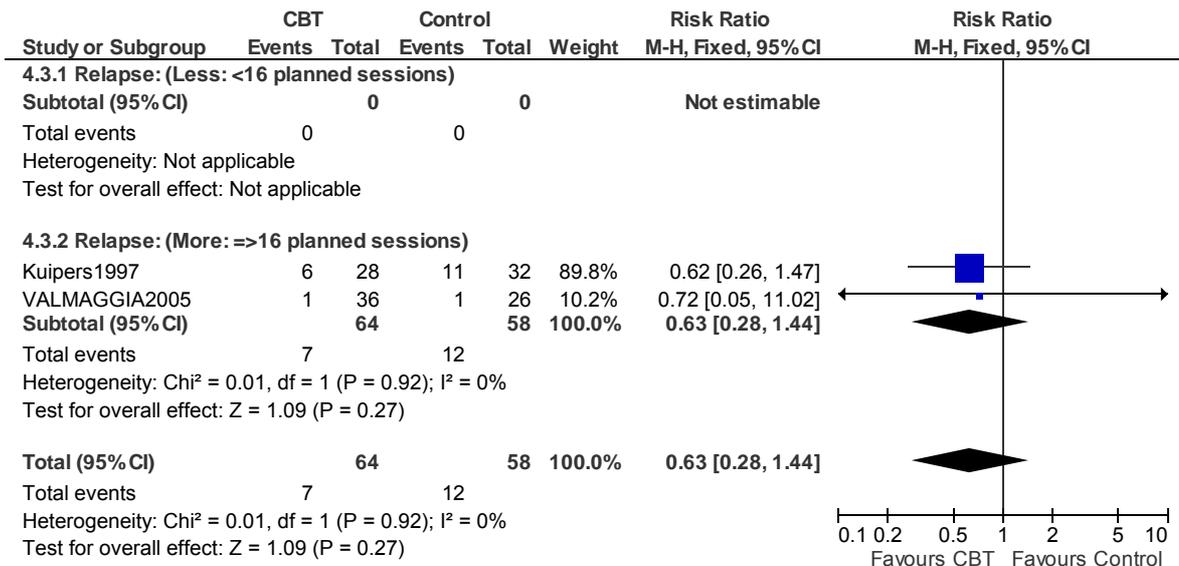


4.2 Mortality (at FU)

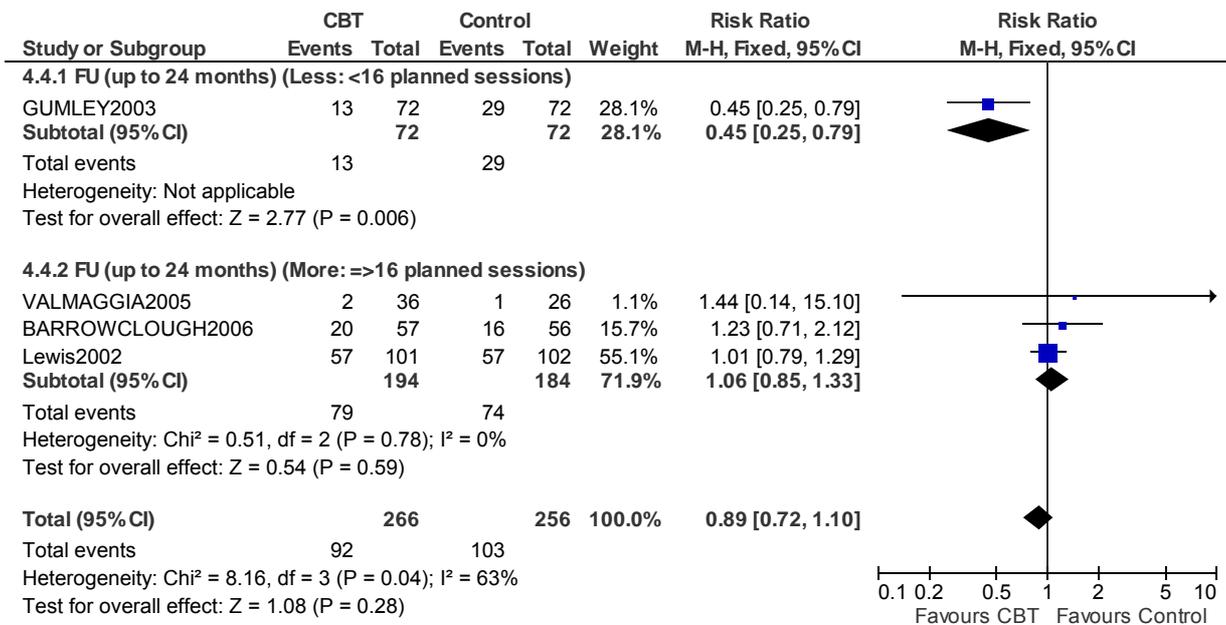


Psychological clinical evidence: CBT (subgroup analyses)

4.3 Global state: 1. Relapse (at end of treatment)

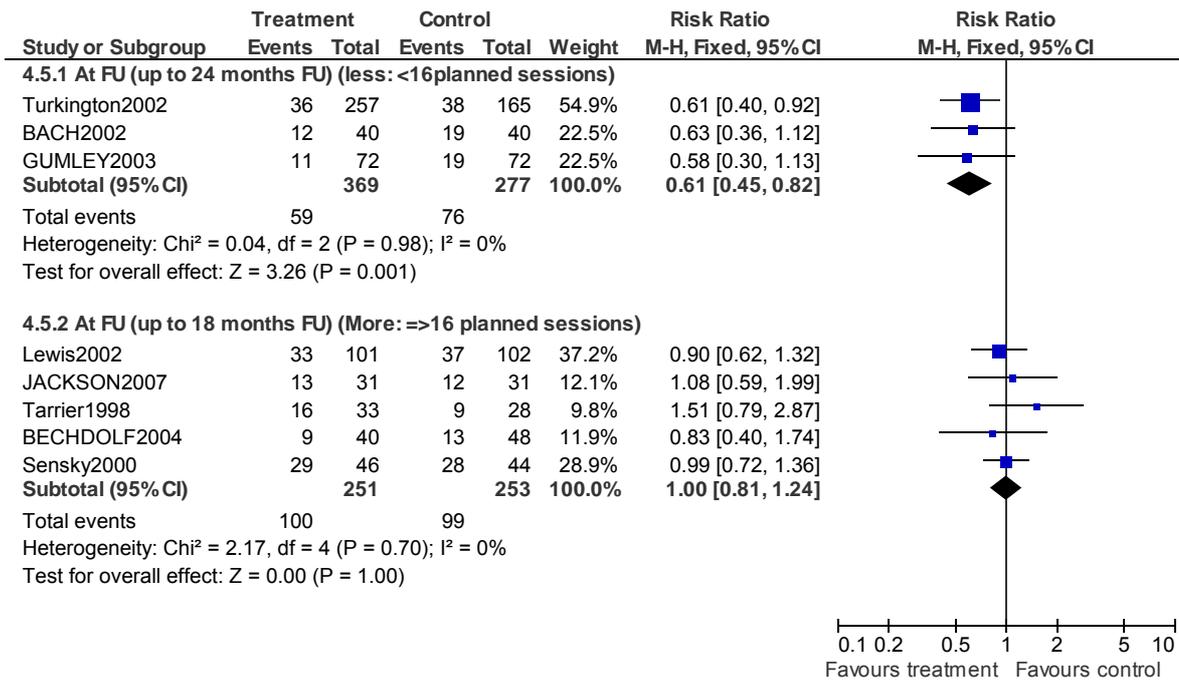


4.4 Global state: 1. Relapse (up to 24 months FU)



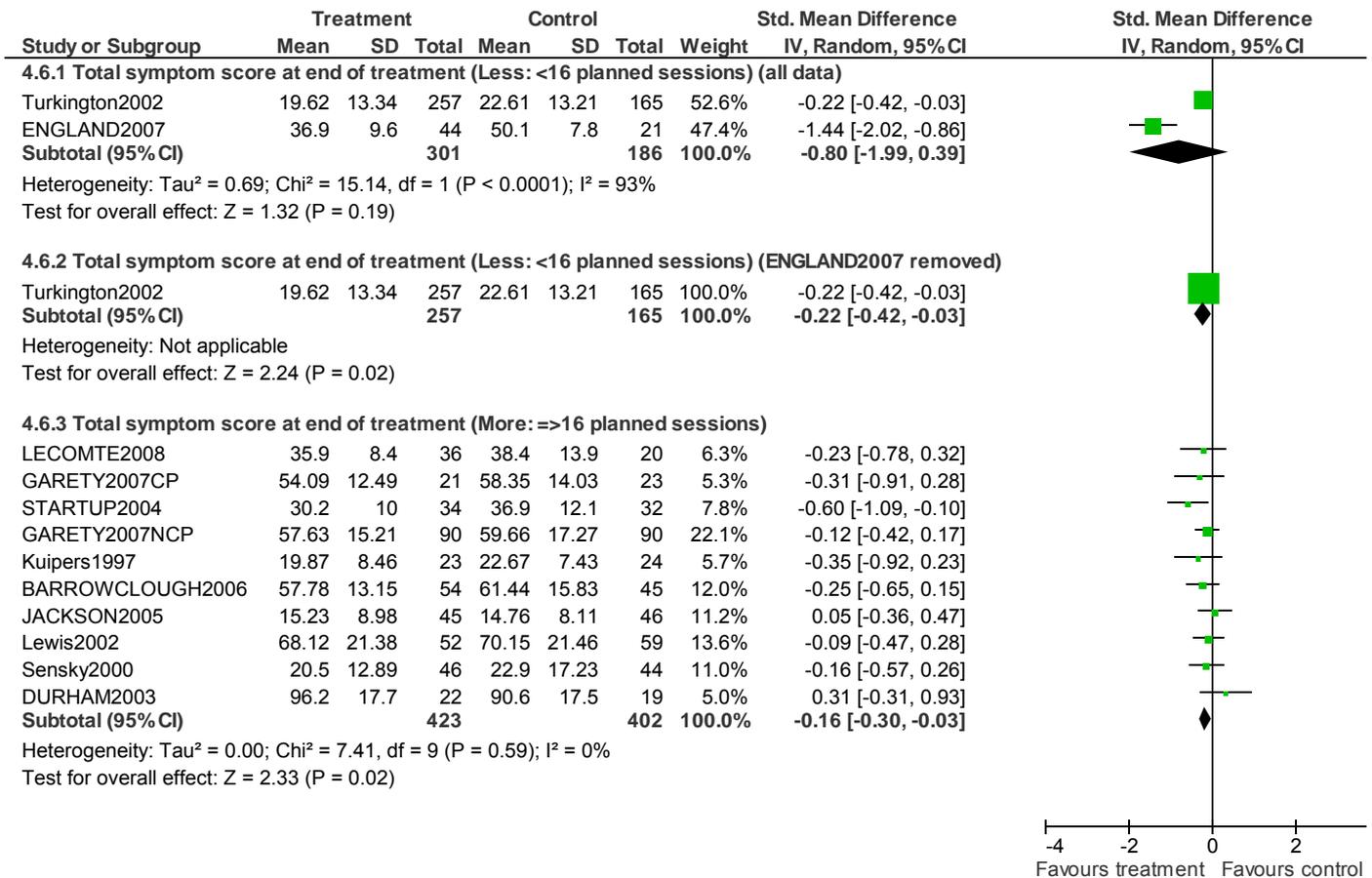
Psychological clinical evidence: CBT (subgroup analyses)

4.5 Service outcome: 1. Hospital admission (up to 24 months FU)



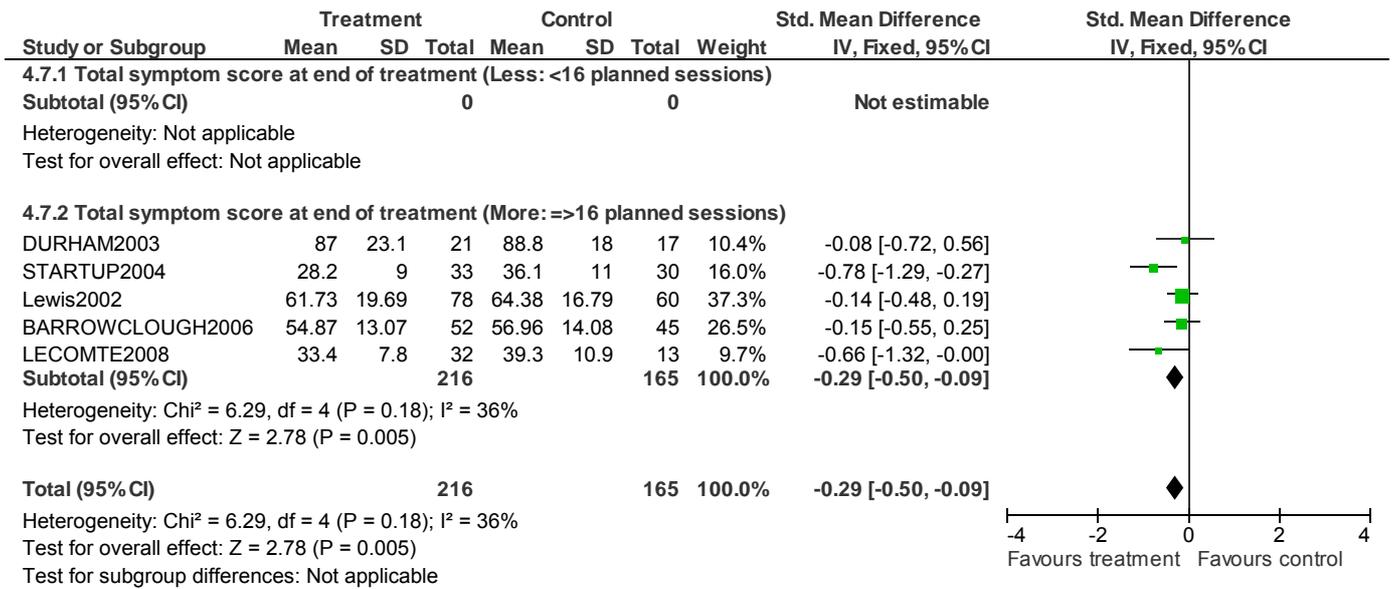
Psychological clinical evidence: CBT (subgroup analyses)

4.6 Mental State: 1. Total symptom score (end of treatment) (lower = better)



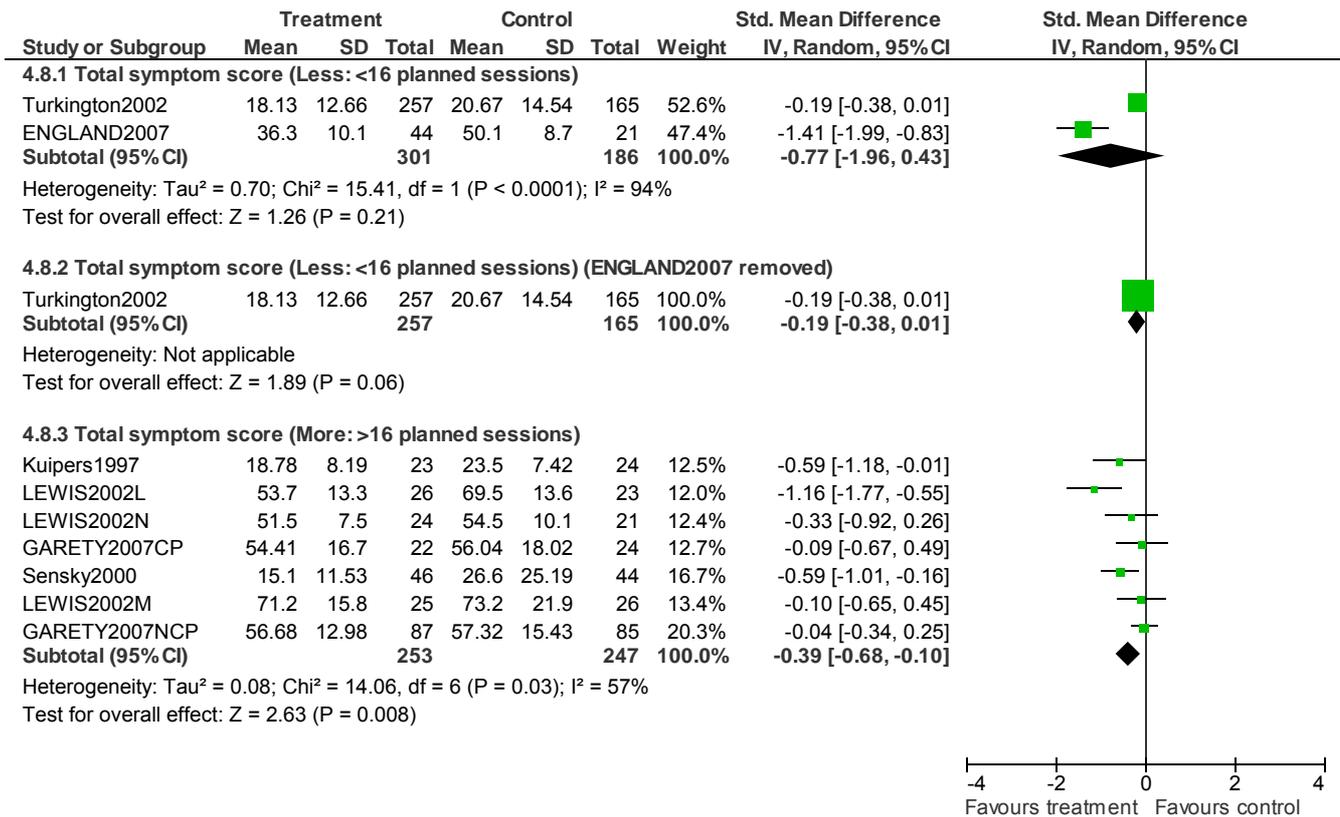
Psychological clinical evidence: CBT (subgroup analyses)

4.7 Mental State: 1. Total symptom score (up to 6 months FU) (lower = better)



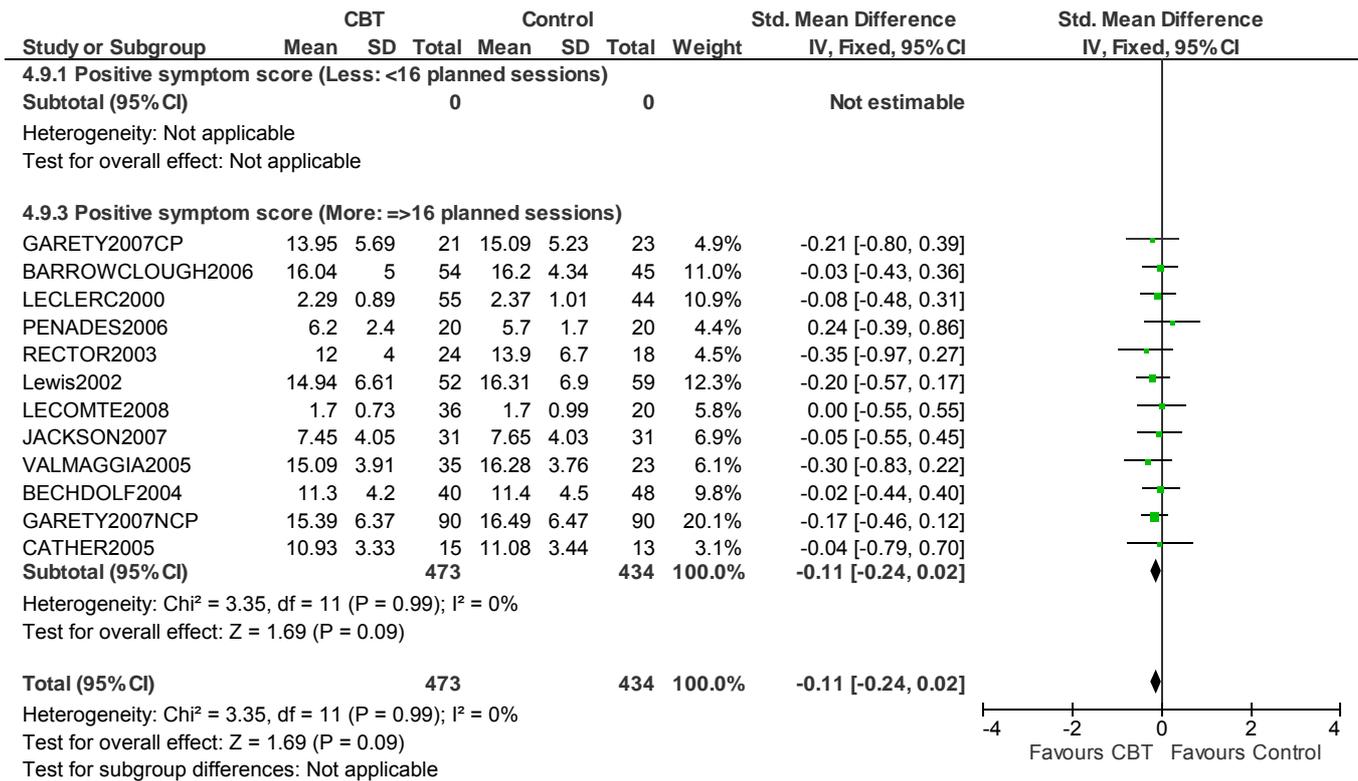
Psychological clinical evidence: CBT (subgroup analyses)

4.8 Mental State: 1. Total symptom score (at 9-18 months FU) (lower = better)



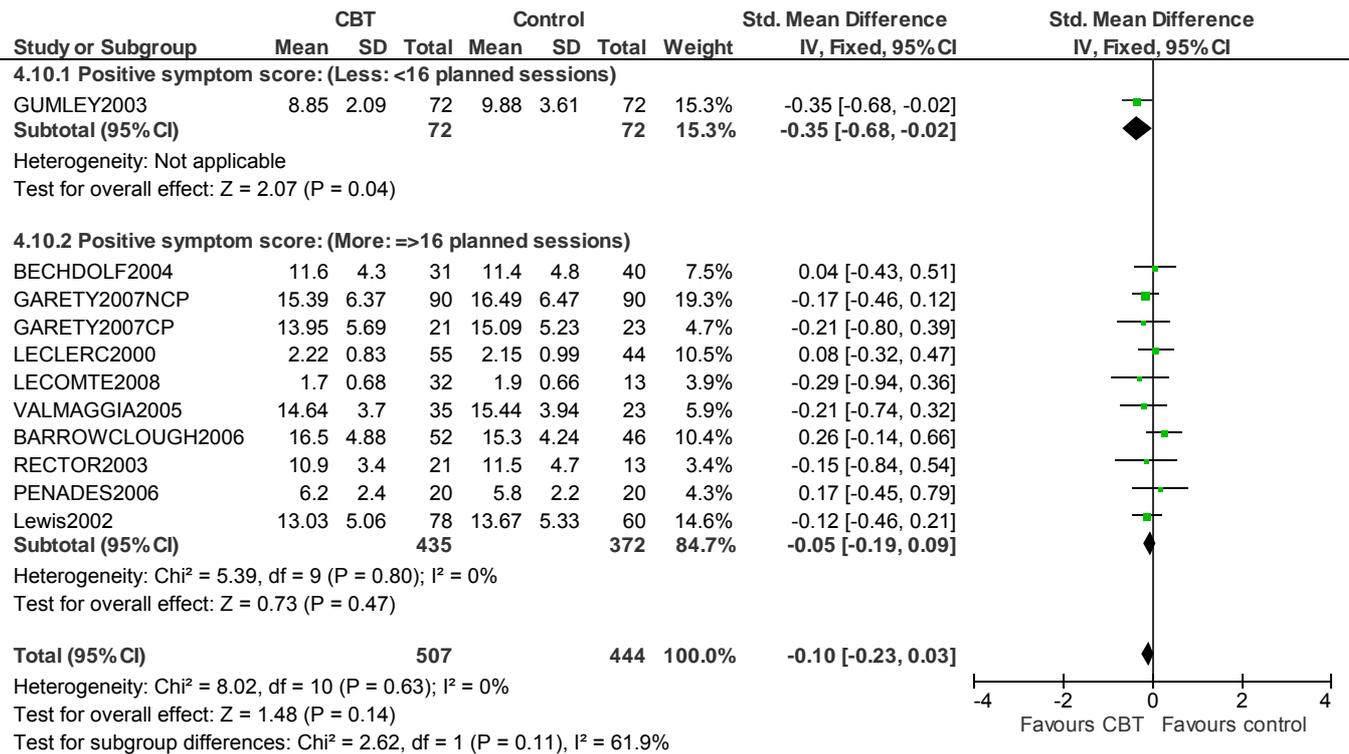
Psychological clinical evidence: CBT (subgroup analyses)

4.9 Mental state: 2. Continuous measures - positive symptoms (at end of treatment) (lower = better)



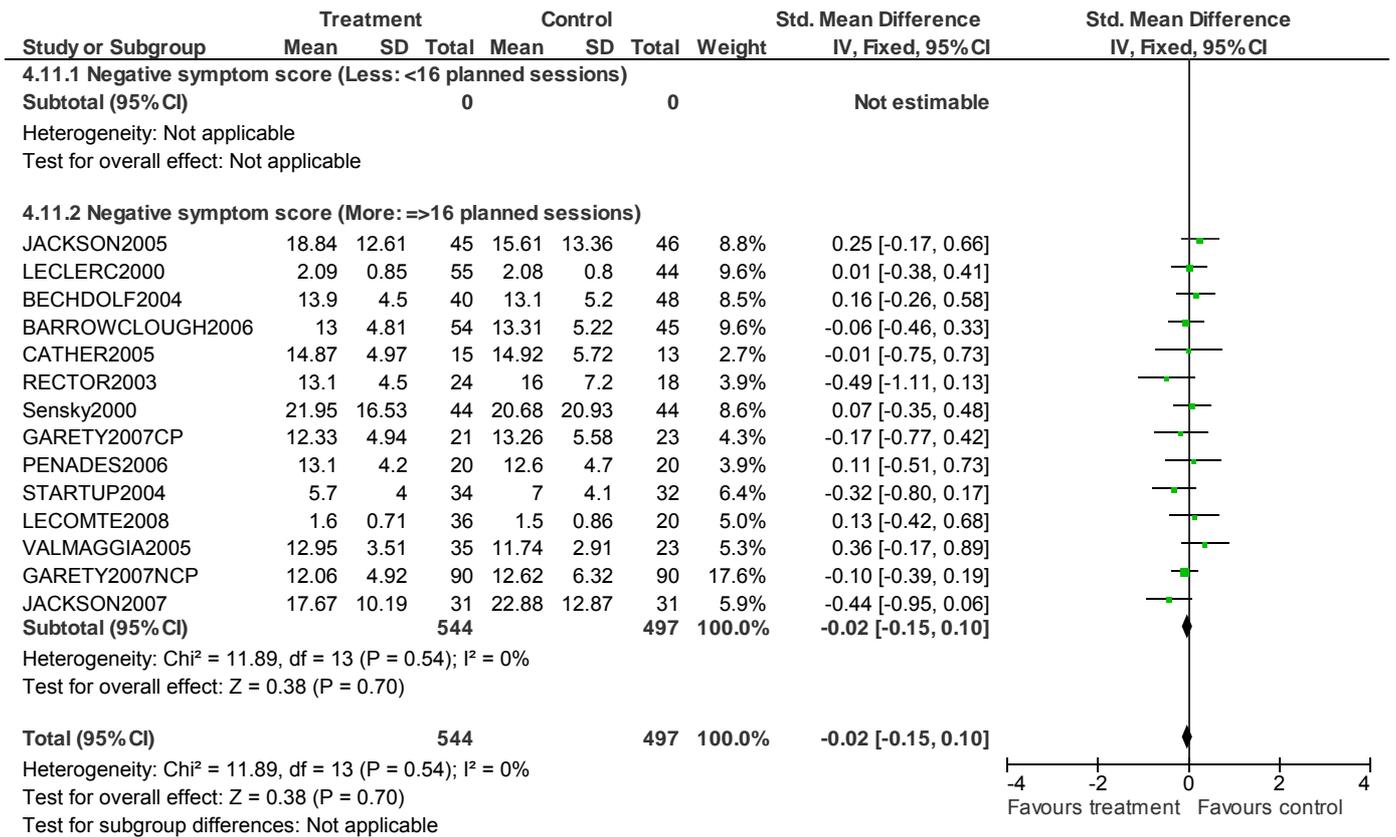
Psychological clinical evidence: CBT (subgroup analyses)

4.10 Mental state: 2. Continuous measures - positive symptoms (up to 12 months FU) (lower = better)



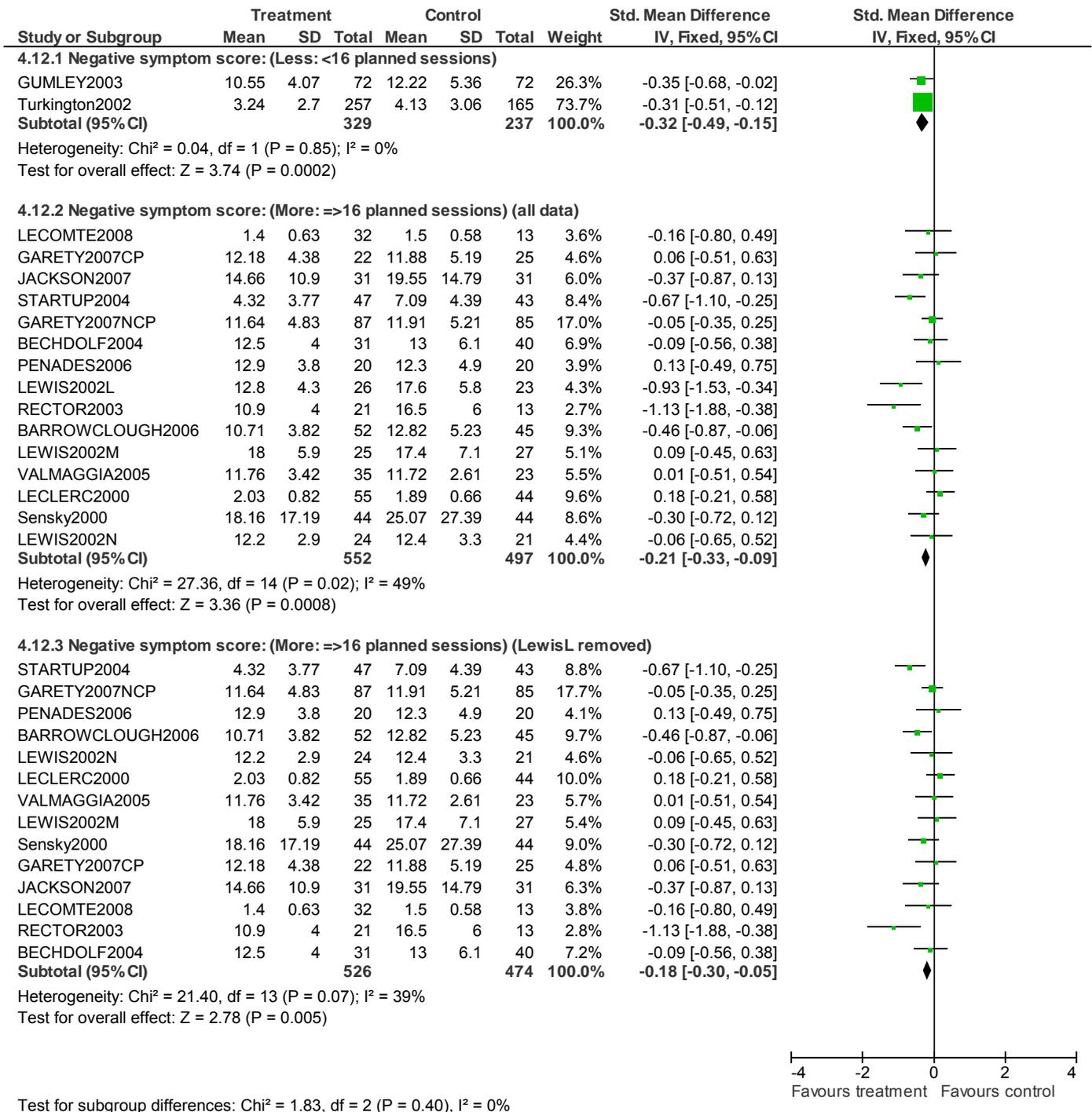
Psychological clinical evidence: CBT (subgroup analyses)

4.11 Mental state: 3. Continuous measures - negative symptoms (at end of treatment) (lower = better)



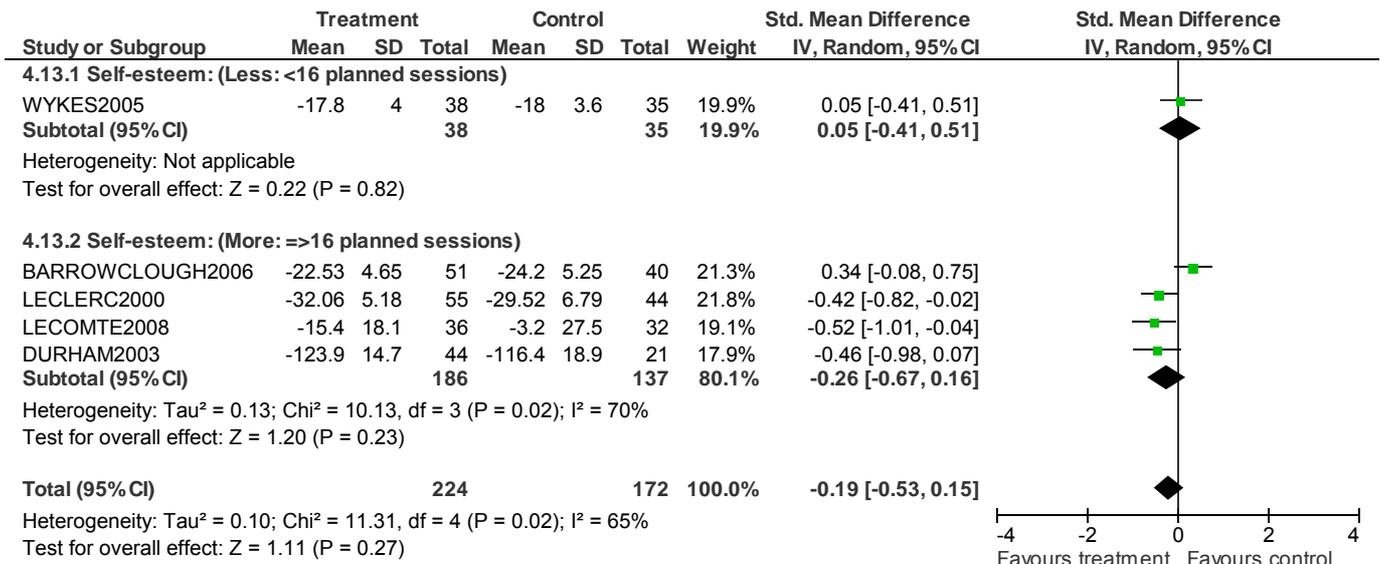
Psychological clinical evidence: CBT (subgroup analyses)

4.12 Mental state: 3. Continuous measures - negative symptoms (up to 24 months FU) (lower = better)

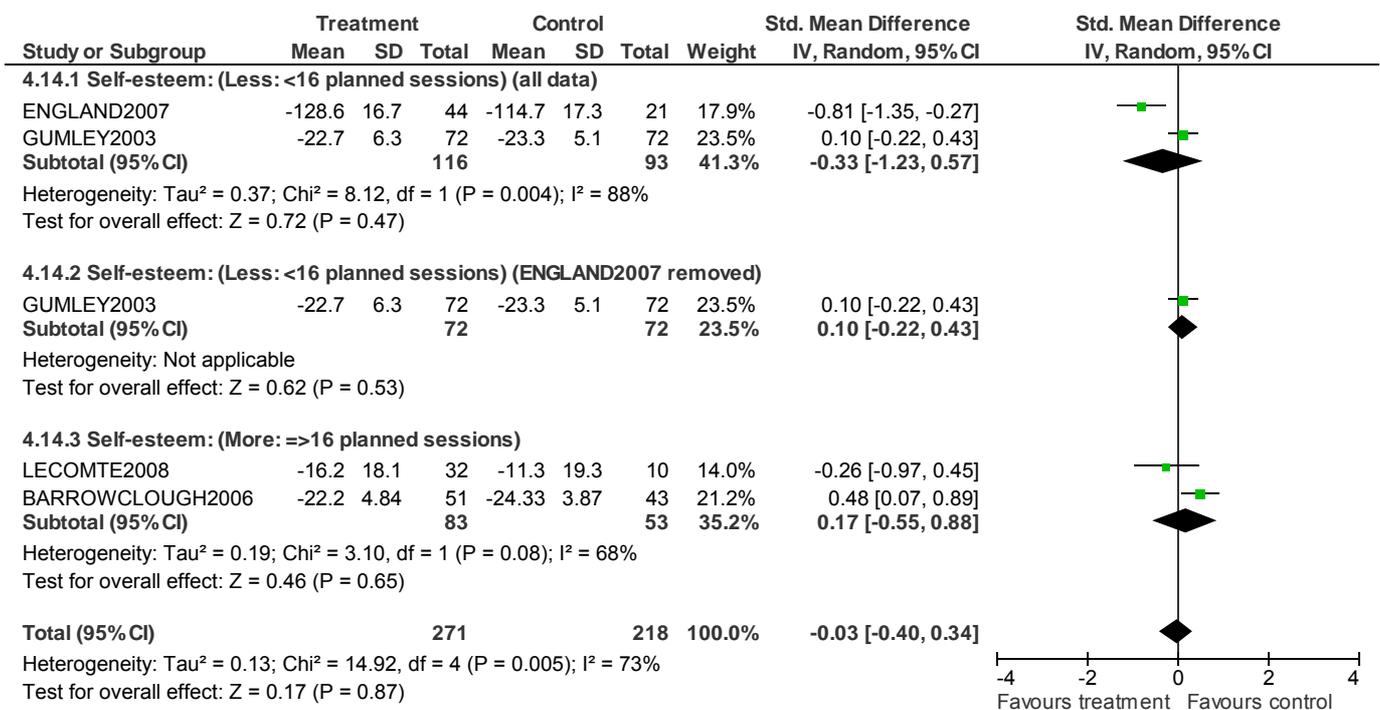


Psychological clinical evidence: CBT (subgroup analyses)

4.13 Mental state: 4. Self-esteem (RSES, RSCQ) (at end of treatment) (higher=better)

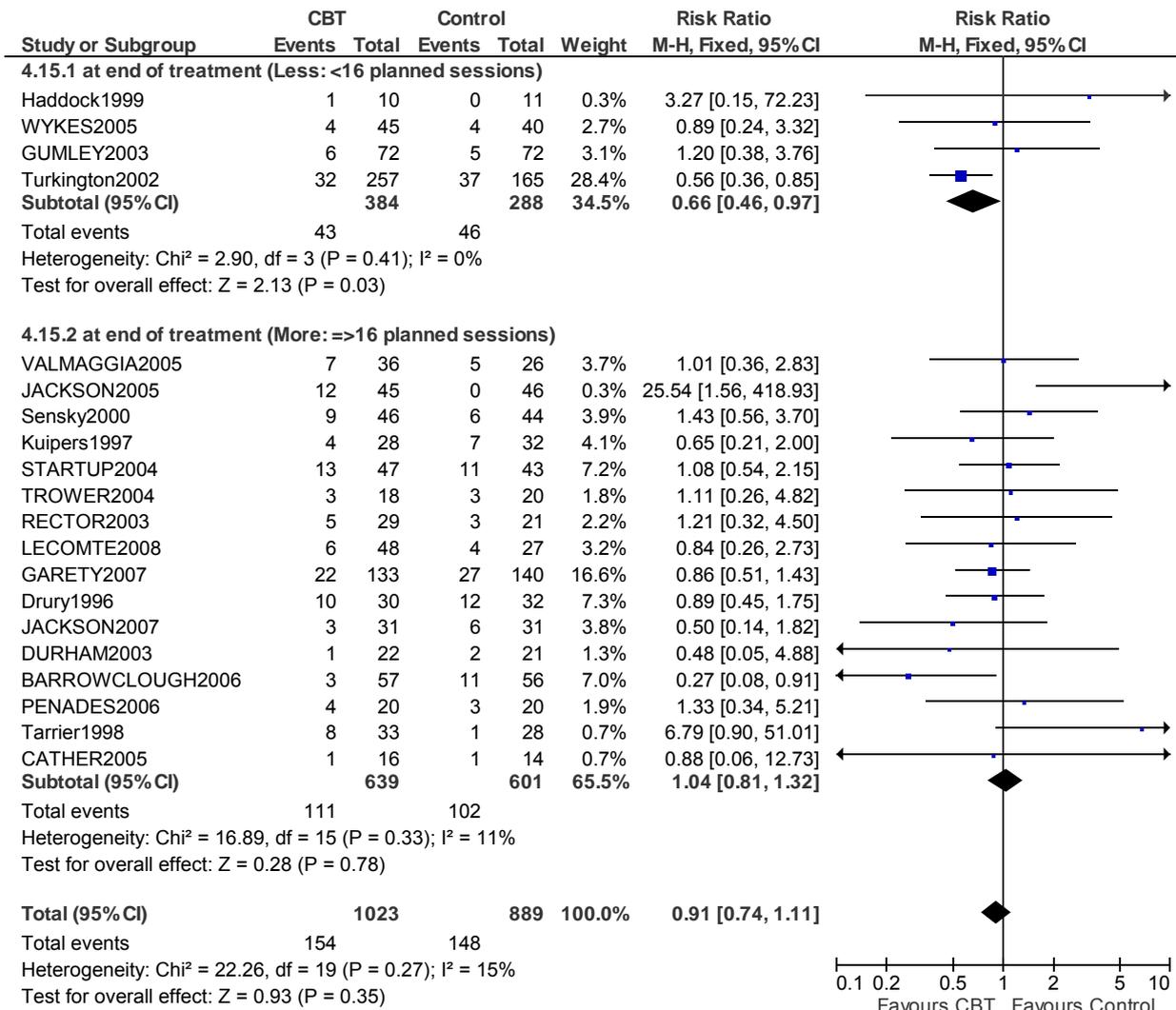


4.14 Mental state: 4. Self-esteem (RSES, RSCQ) (up to 12 months Follow Up) (higher=better)



Psychological clinical evidence: CBT (subgroup analyses)

4.15 Treatment acceptability: 1. Leaving the study early (at end of treatment)



Psychological clinical evidence: CBT (subgroup analyses)

4.16 Treatment acceptability: 1. Leaving the study early (at FU)

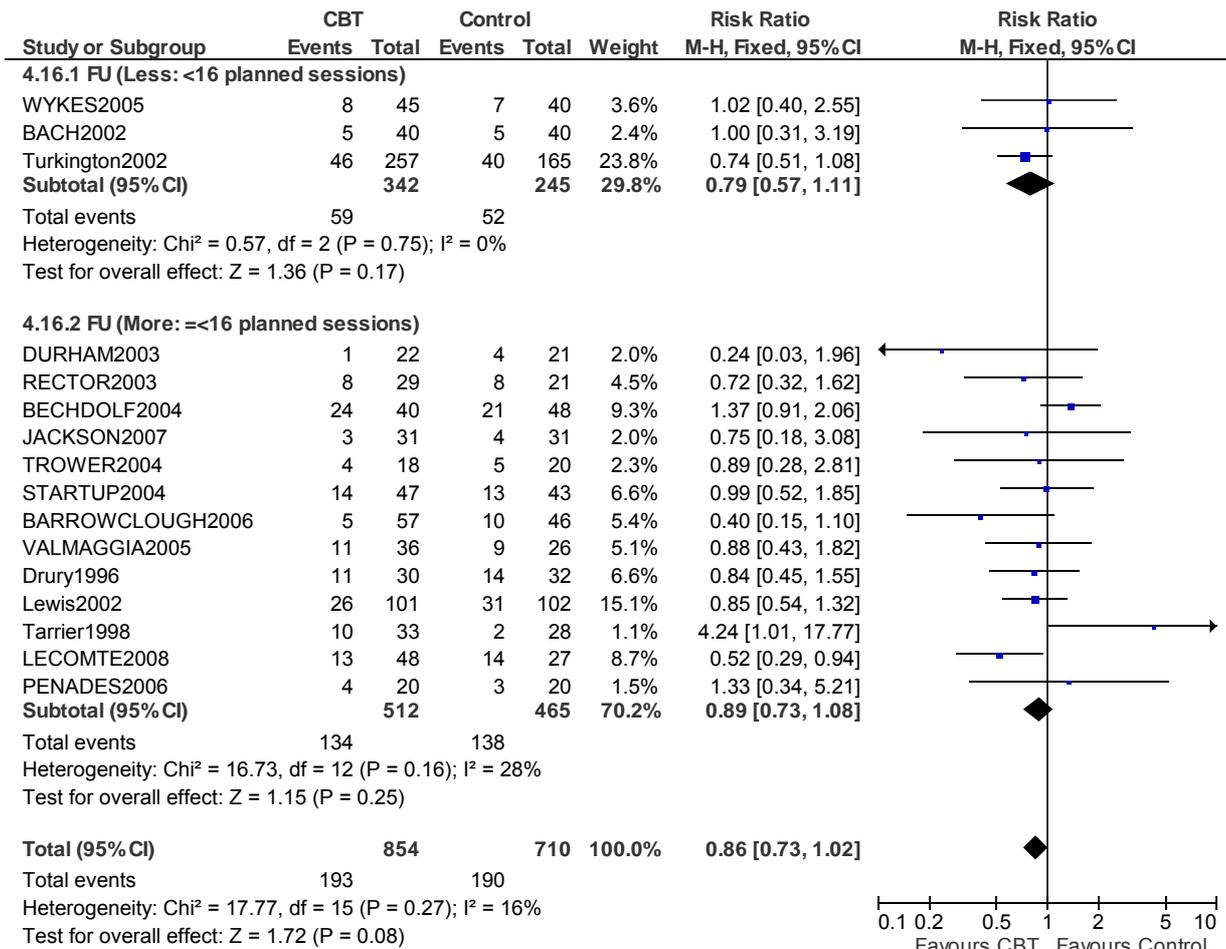


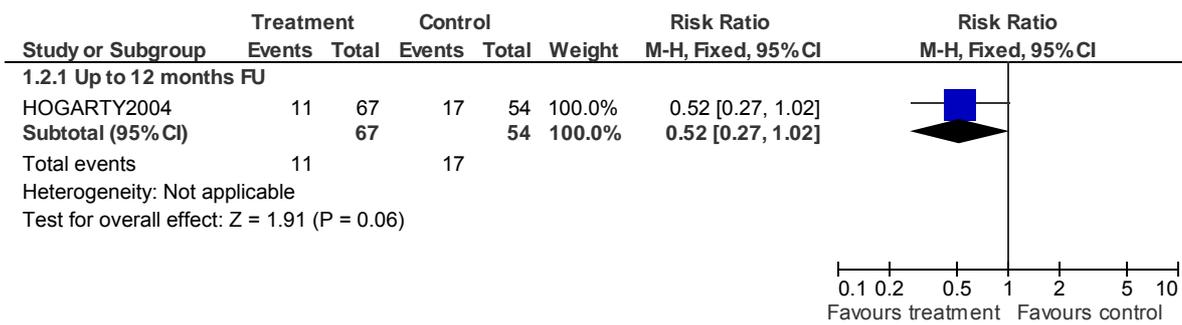
Table 4: Studies included in the cognitive remediation review

Intervention	versus Comparator
	Any control
CRT	BELLUCCI2002 Hadaslidor2001 HOGARTY2004 Medalia1998 Medalia2000 PENADES2006 SILVERSTEIN2005 SPAULDING1999 TWAMLEY2008 VANDERGAAG2002 VELLIGAN2000 VELLIGAN2002 VELLIGAN2008A VELLIGAN2008B Wykes1999 WYKES2007A WYKES2007B
	Standard care
CRT	BELLUCCI2002 Medalia2000 SILVERSTEIN2005 TWAMLEY2008 VELLIGAN2000 VELLIGAN2002 VELLIGAN2008A VELLIGAN2008B WYKES2007A WYKES2007B
	Other active treatments
CRT + non-standard care	Hadaslidor2001 HOGARTY2004 Medalia1998 PENADES2006 SPAULDING1999 VANDERGAAG2002 VELLIGAN2008A VELLIGAN2008B Wykes1999

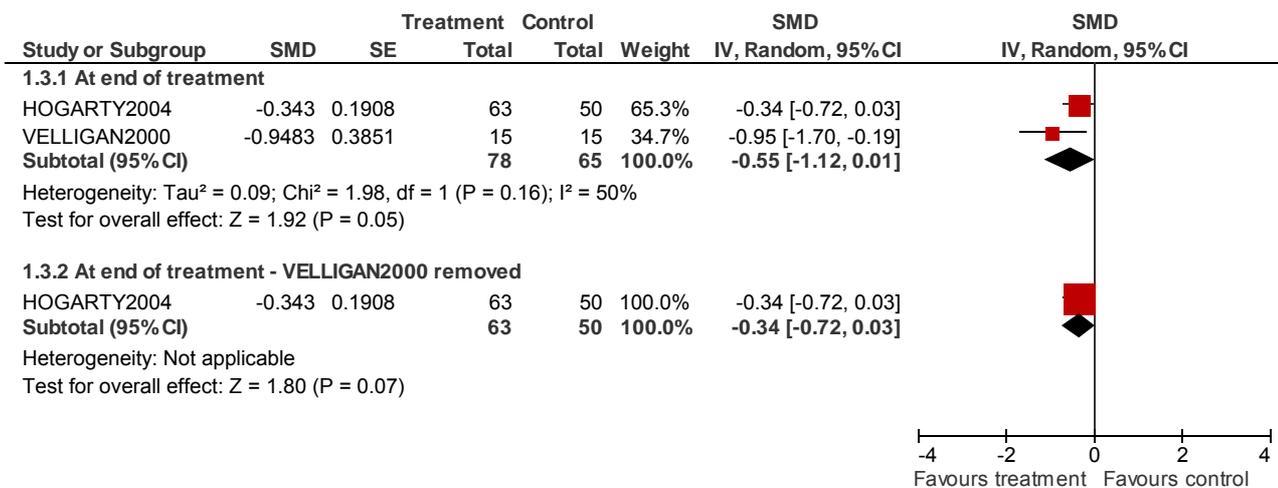
Psychological clinical evidence: Cognitive remediation

1 Cognitive remediation versus any control

1.2 Global state: 1. Relapse

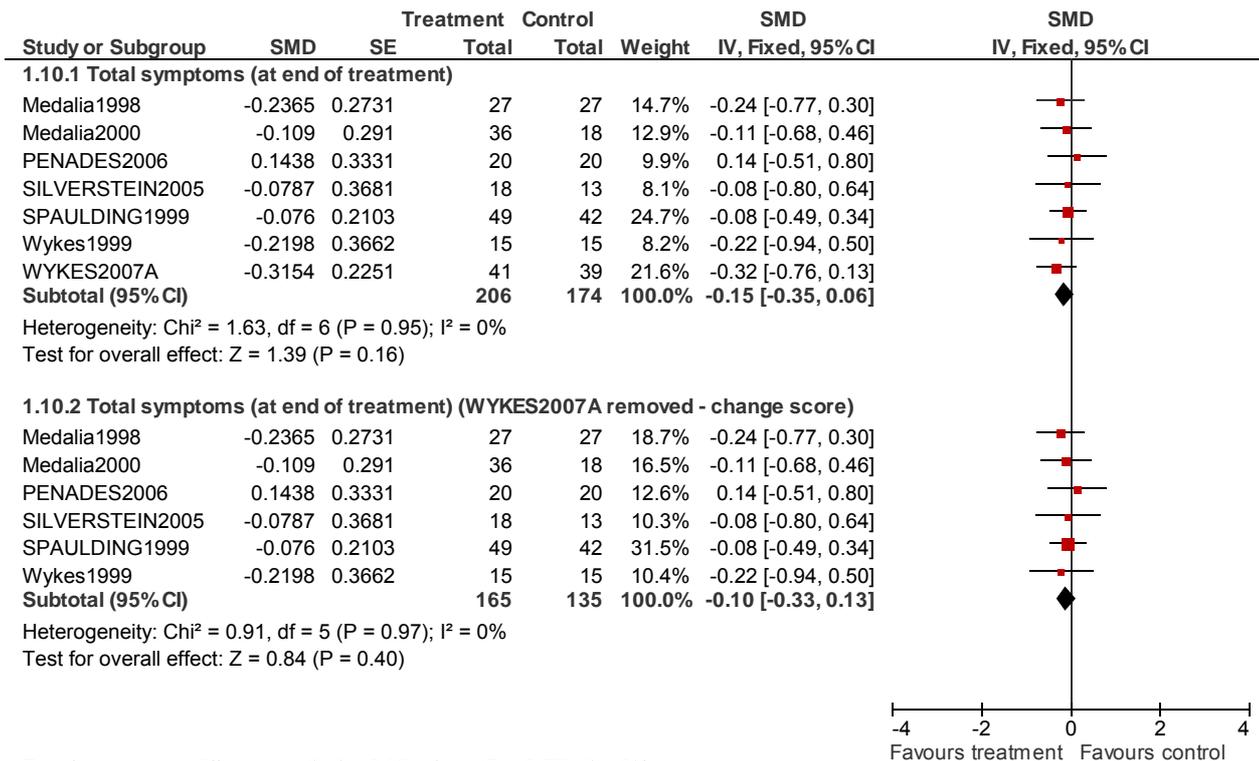


1.3 Global state: 2. Global Assessment Scale



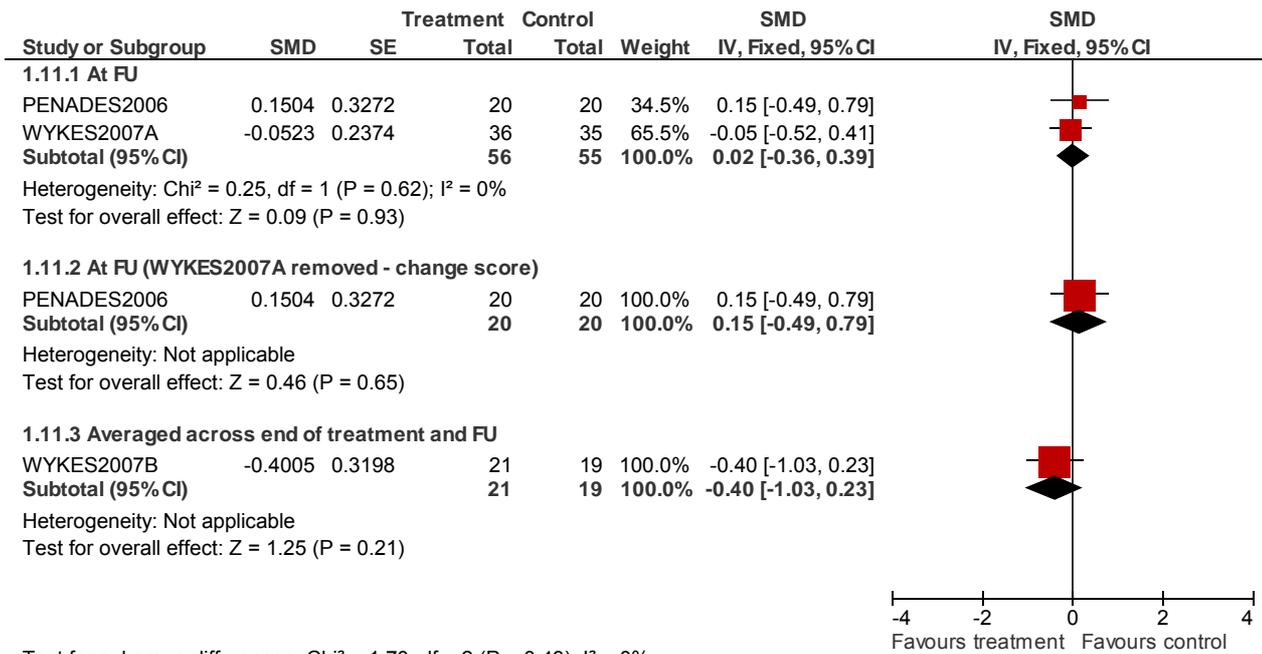
Psychological clinical evidence: Cognitive remediation

1.10 Mental state: 1. PANSS total symptoms (pooled across PANSS subscales) (end of treatment)



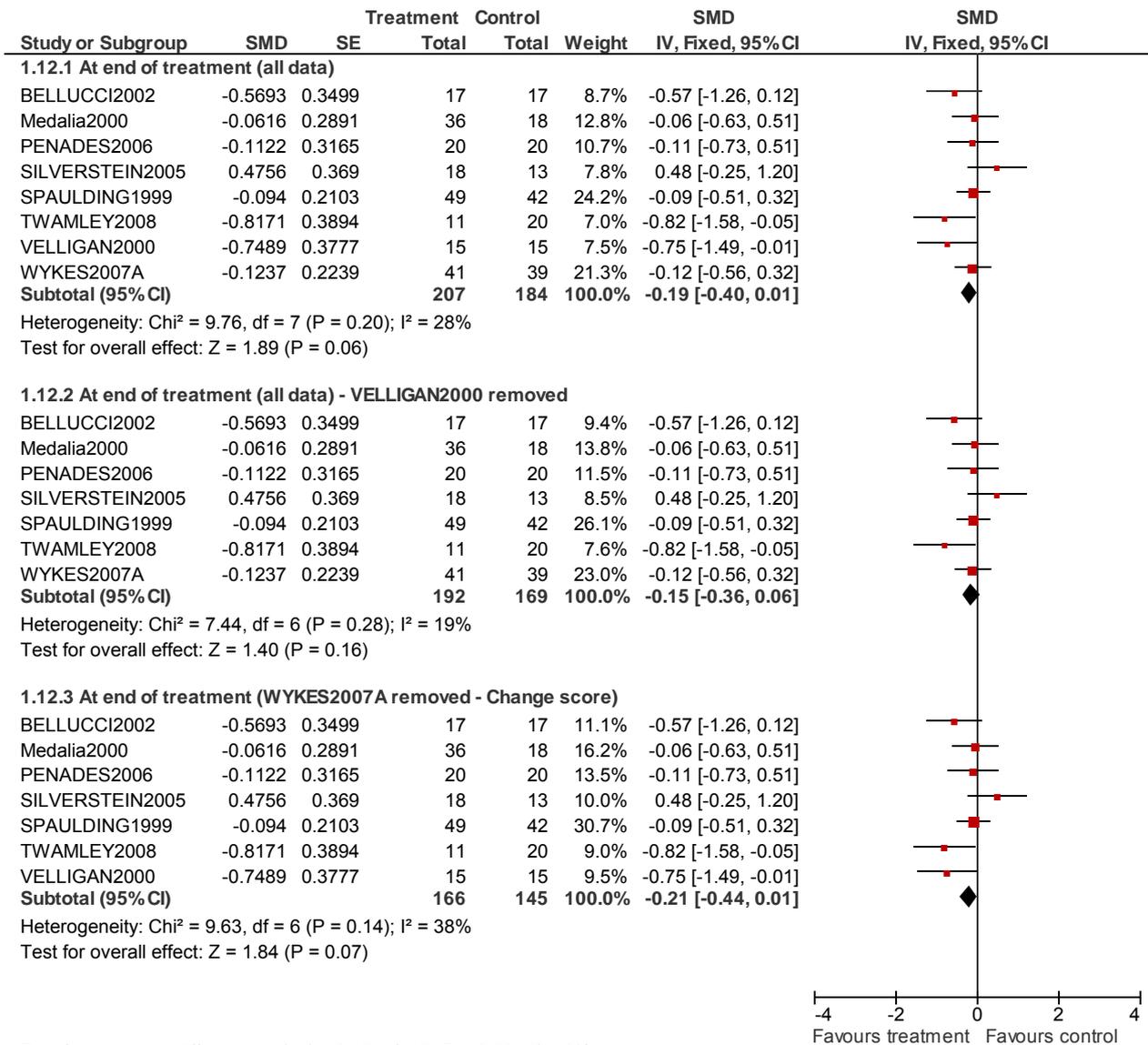
Psychological clinical evidence: Cognitive remediation

1.11 Mental state: 1. PANSS total symptoms (pooled across PANSS subscales) (at FU)



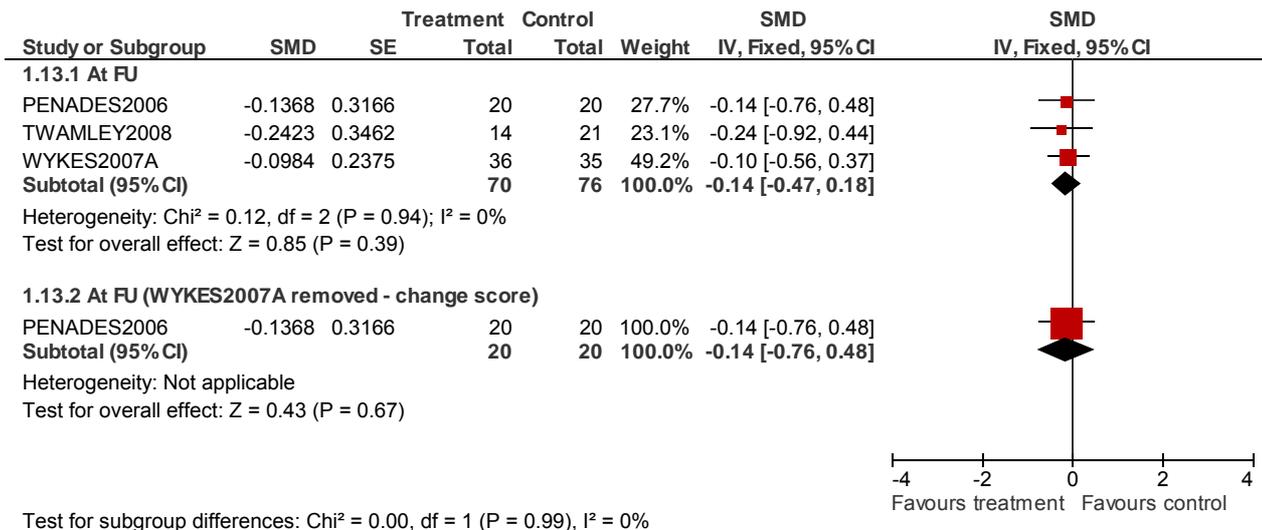
Psychological clinical evidence: Cognitive remediation

1.12 Mental state: 2. PANSS, SANS, Negative symptoms (end of treatment)



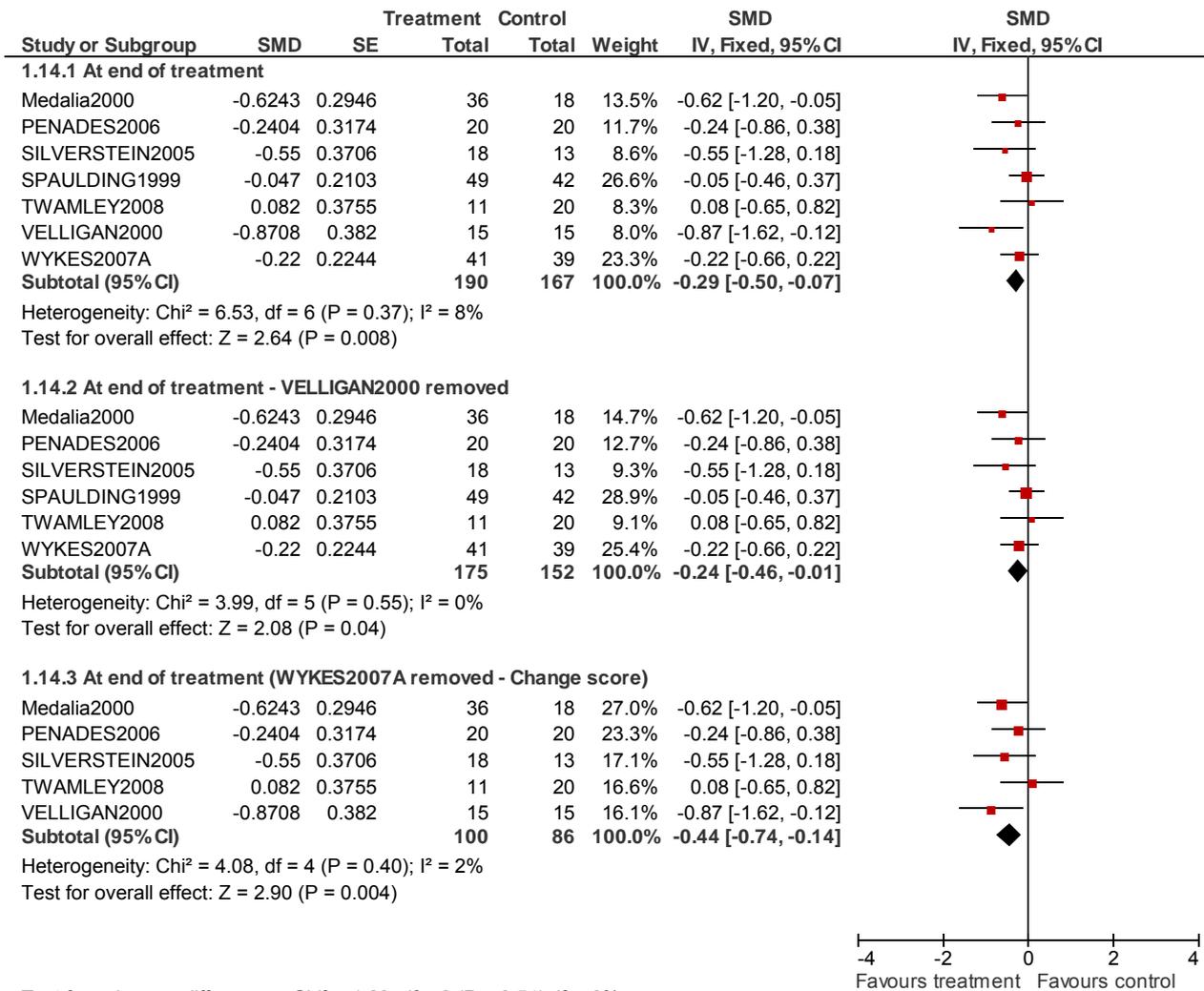
Psychological clinical evidence: Cognitive remediation

1.13 Mental state: 2. PANSS, SANS, Negative symptoms (at FU)



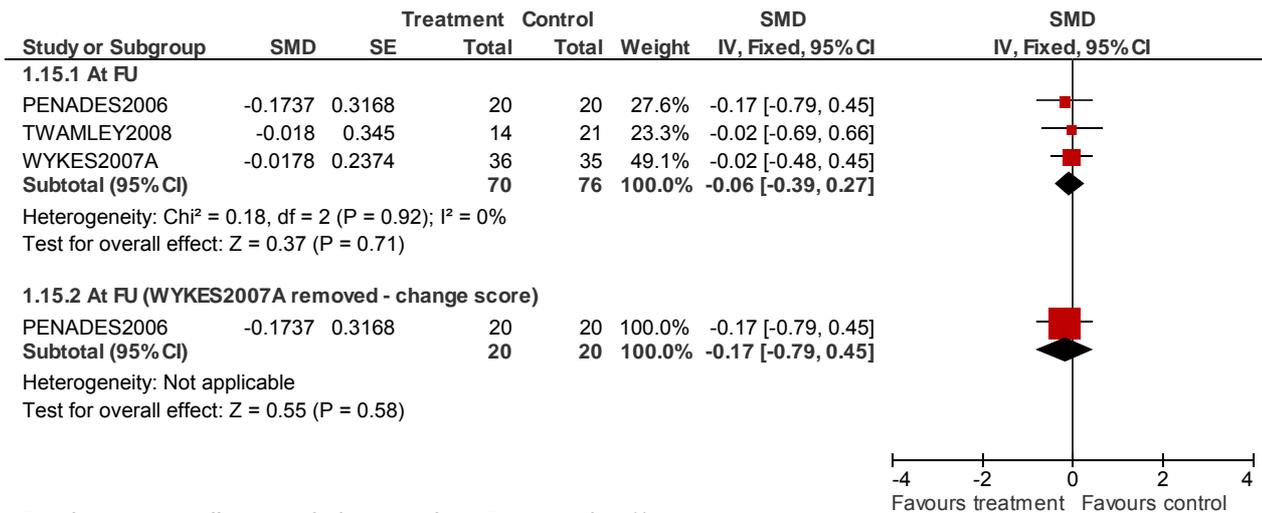
Psychological clinical evidence: Cognitive remediation

1.14 Mental state: 3. PANSS, SAPS, Positive symptoms

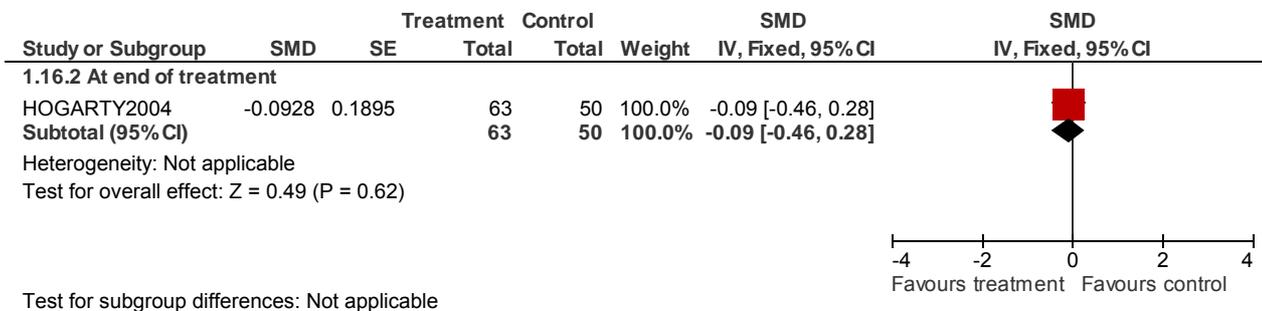


Psychological clinical evidence: Cognitive remediation

1.15 Mental state: 3. PANSS, SAPS, Positive symptoms (at FU)

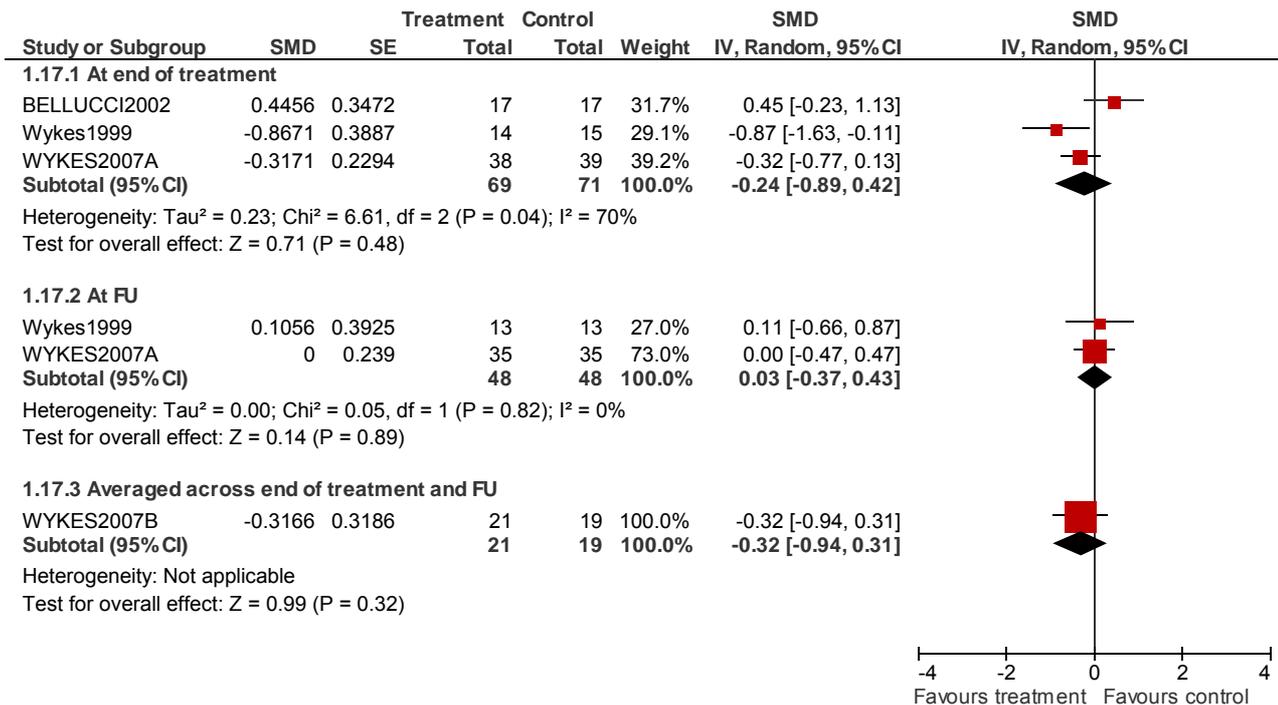


1.16 Mental state: 4. Symptom composite score

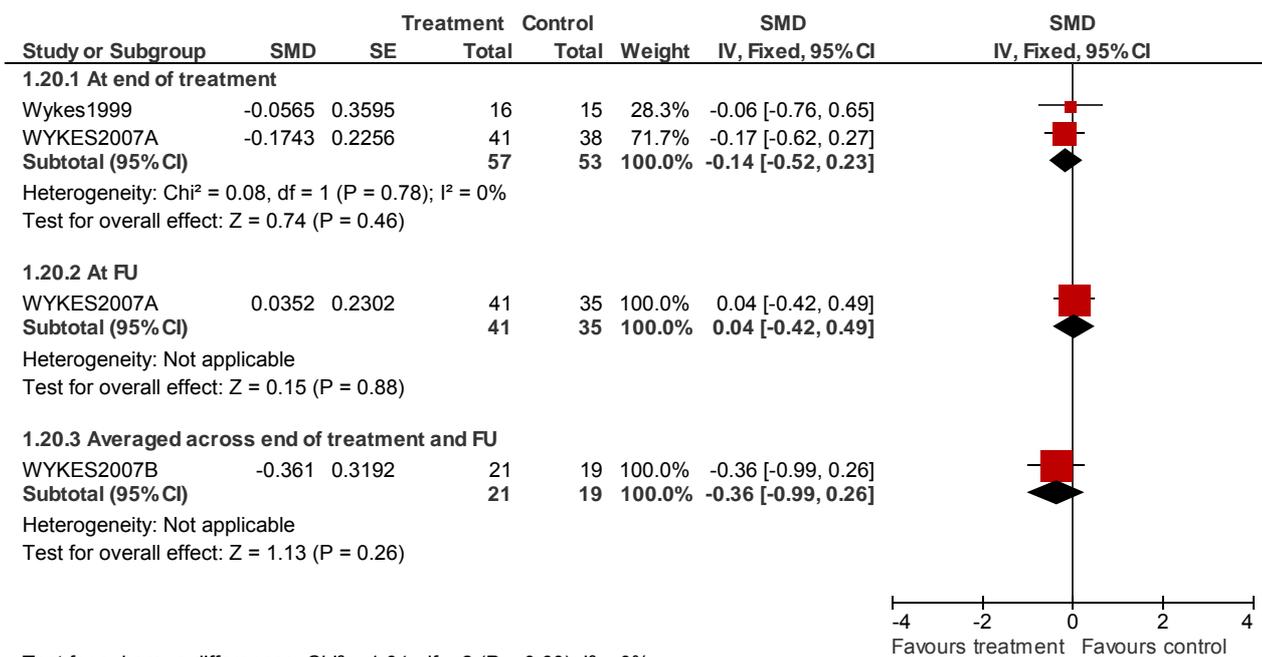


Psychological clinical evidence: Cognitive remediation

1.17 Mental state: 5. Self esteem (RSES)

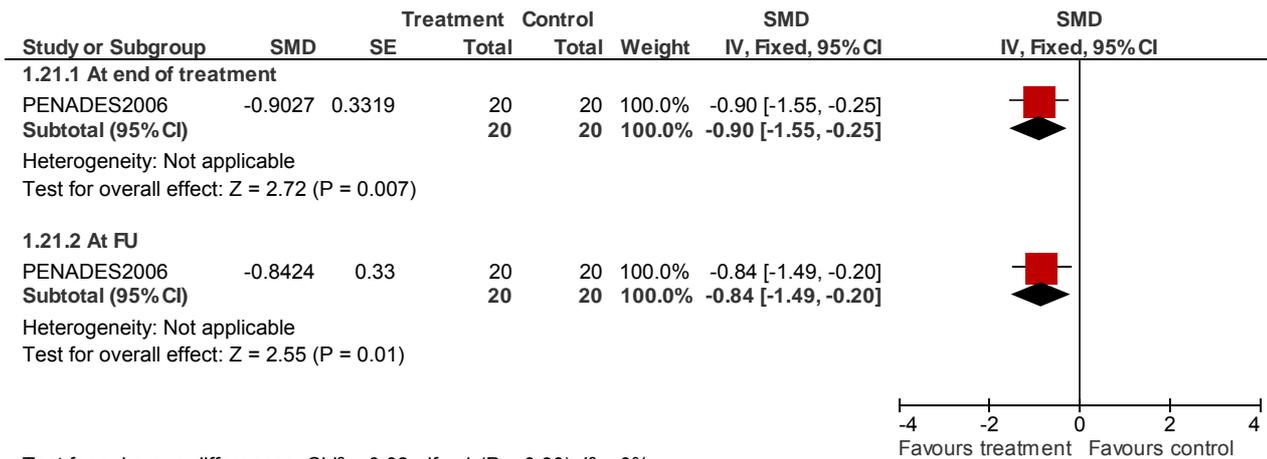


1.20 Psychosocial functioning: 1. Social Behaviour Scale

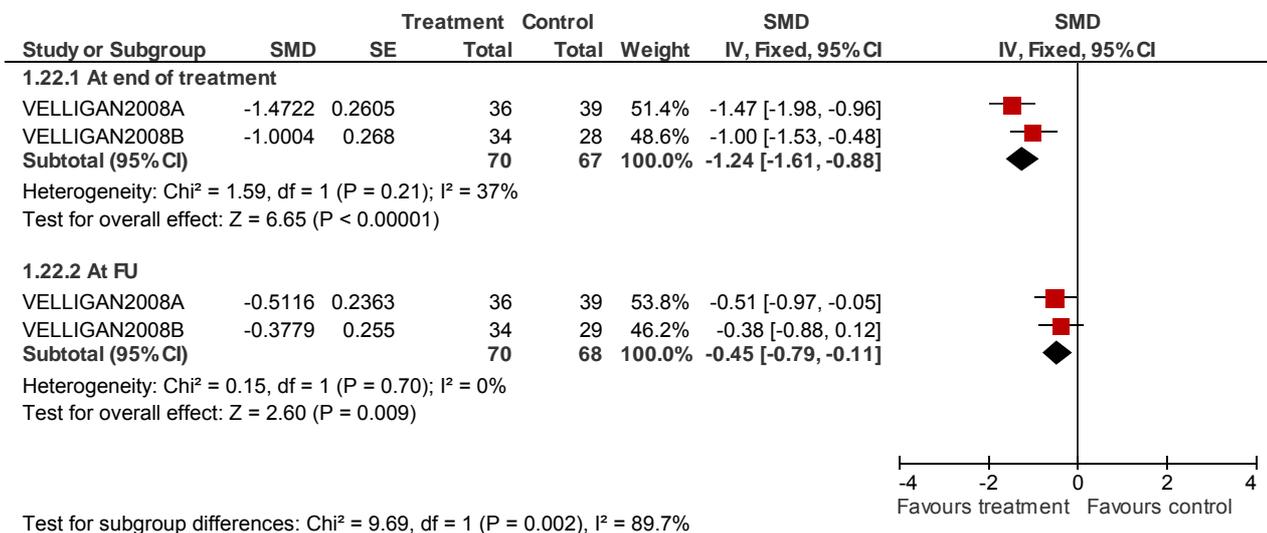
Test for subgroup differences: Chi² = 1.04, df = 2 (P = 0.60), I² = 0%

Psychological clinical evidence: Cognitive remediation

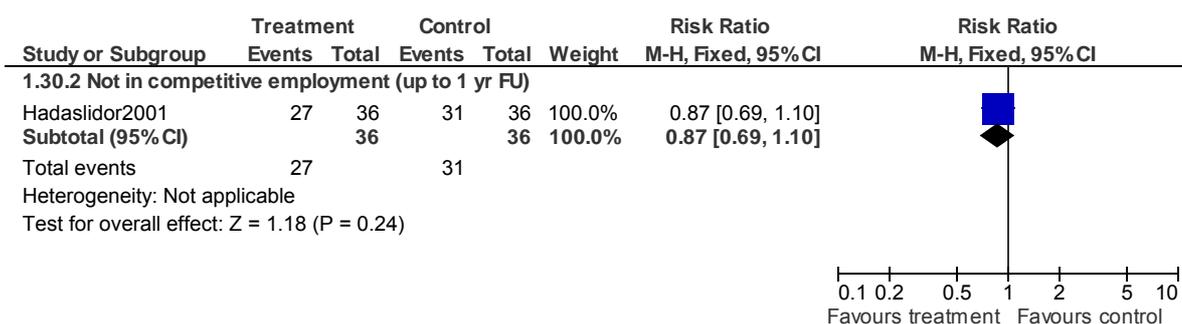
1.21 Psychosocial functioning: 2. Life Skills Profile



1.22 Psychosocial functioning: 3. SOFAs - VELLIGAN2008 only

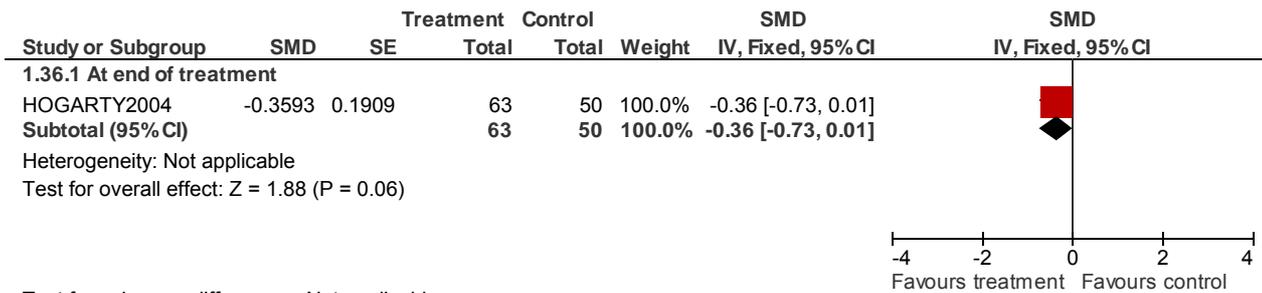


1.30 Psychosocial functioning: 4. Employment status (not in competitive employment) (at FU)

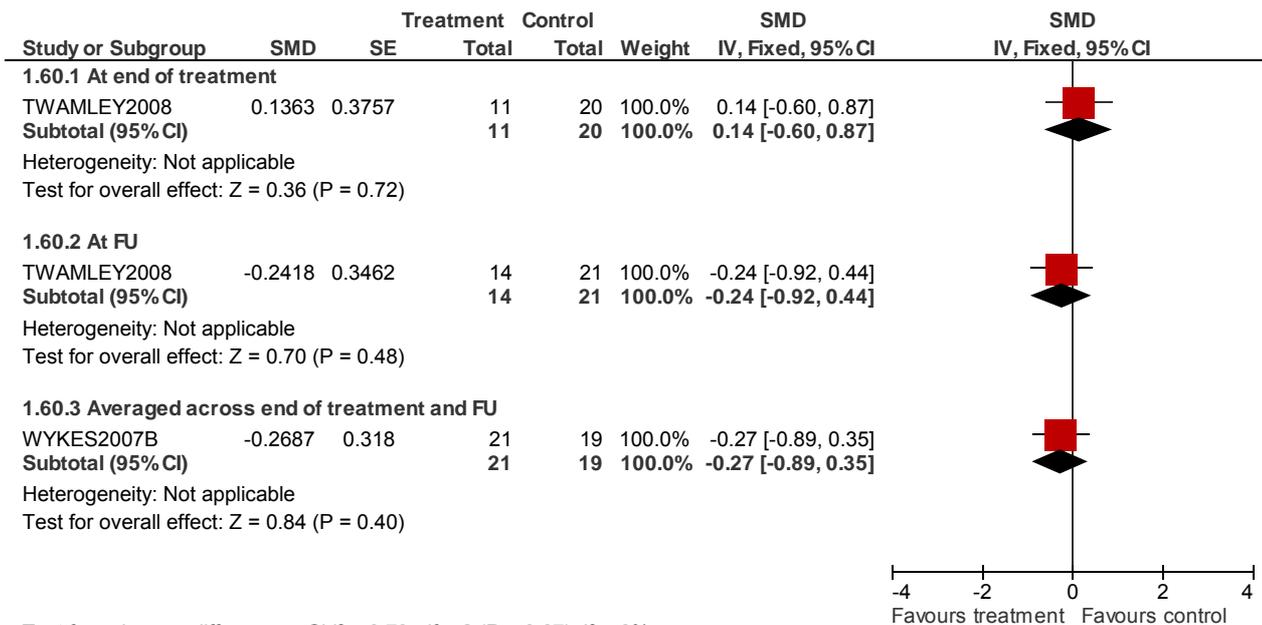


Psychological clinical evidence: Cognitive remediation

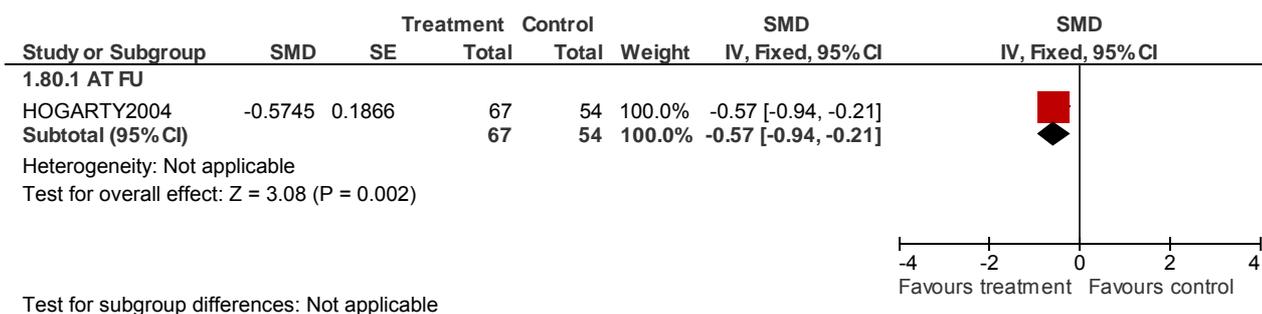
1.36 Psychosocial functioning: 5. Employment (measures on major role adjustment inventory)



1.60 Quality of Life

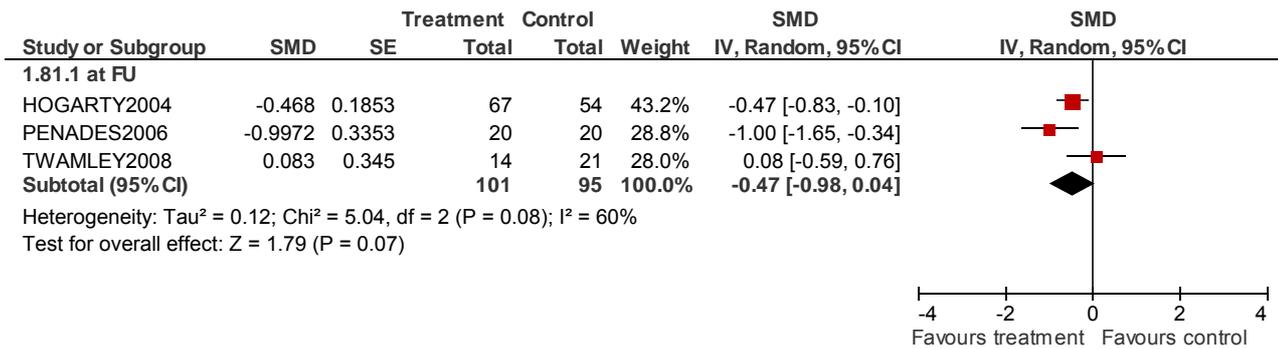


1.80 Cognitive outcome: 1. Social Cognition

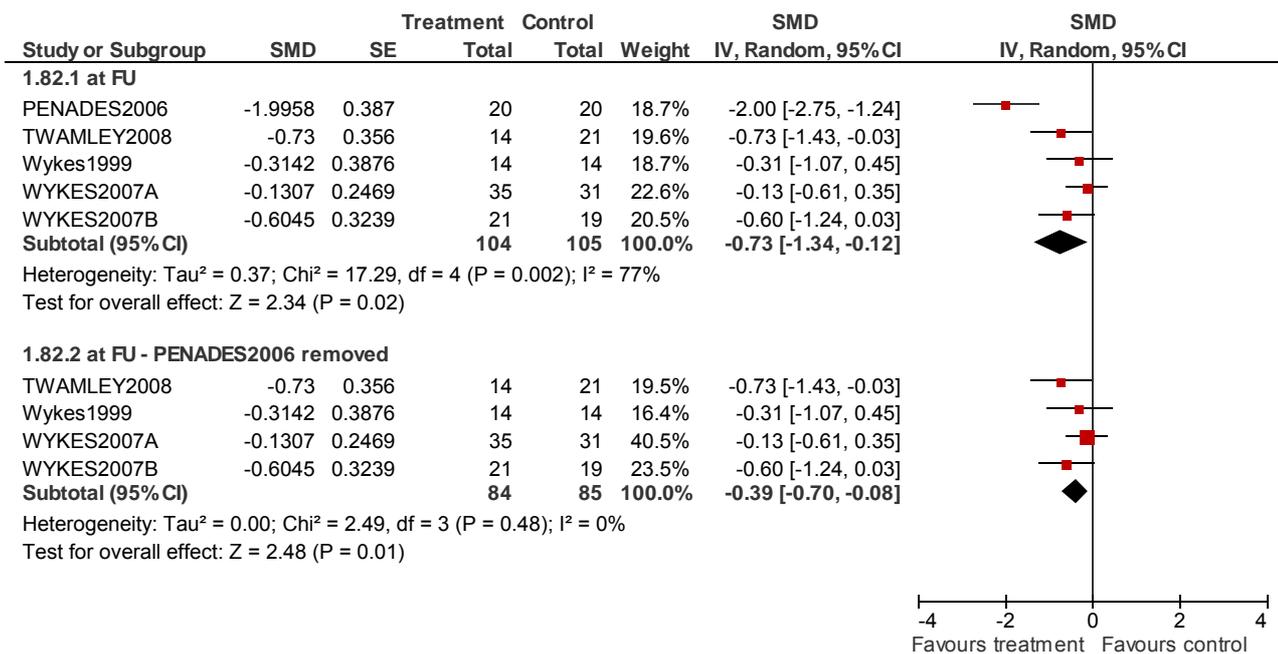


Psychological clinical evidence: Cognitive remediation

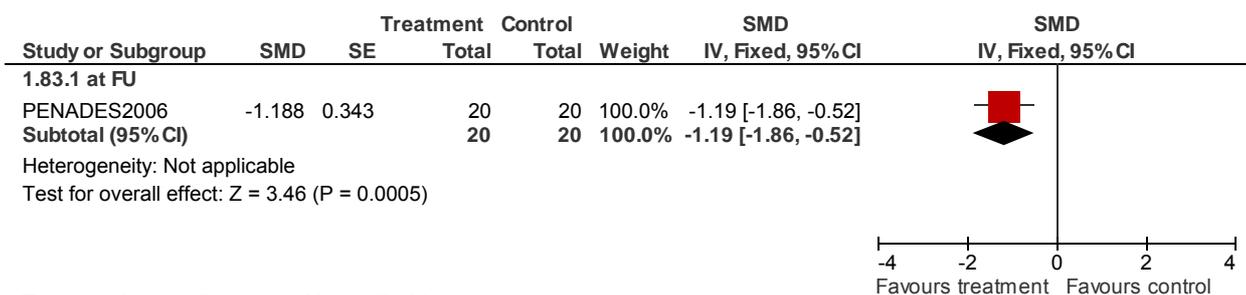
1.81 Cognitive outcome: 2. Speed of Processing



1.82 Cognitive outcome: 3. Reasoning and problem solving

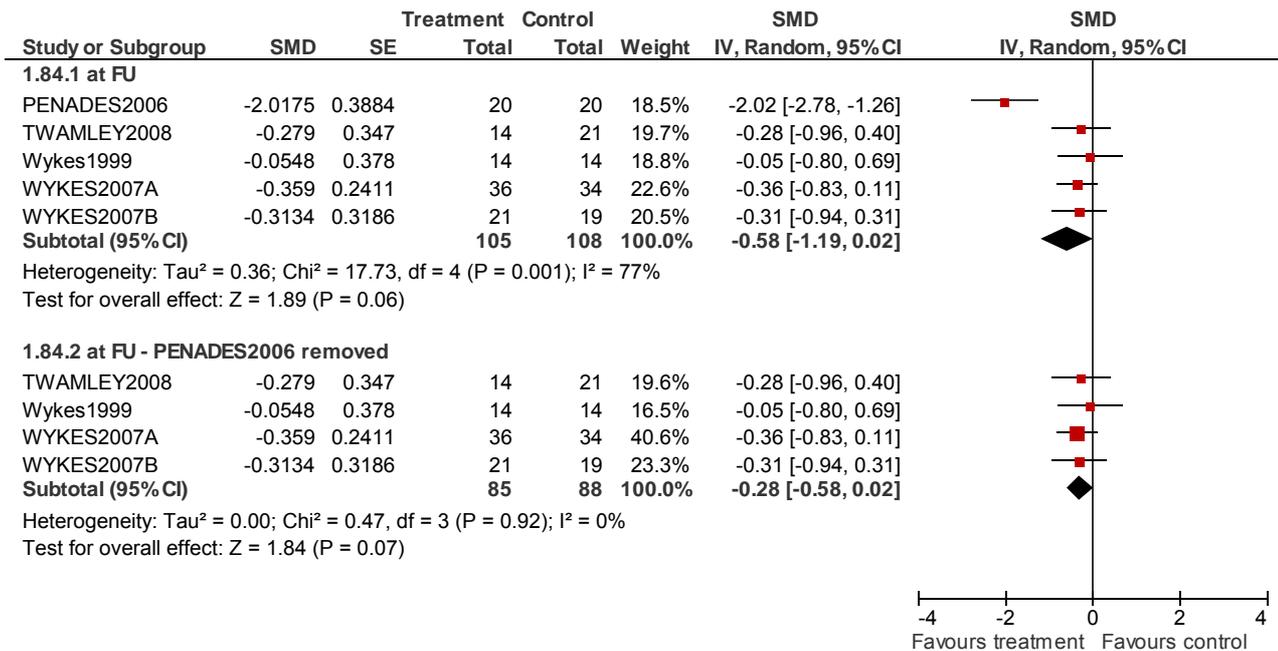


1.83 Cognitive outcome: 4. Visual learning and memory

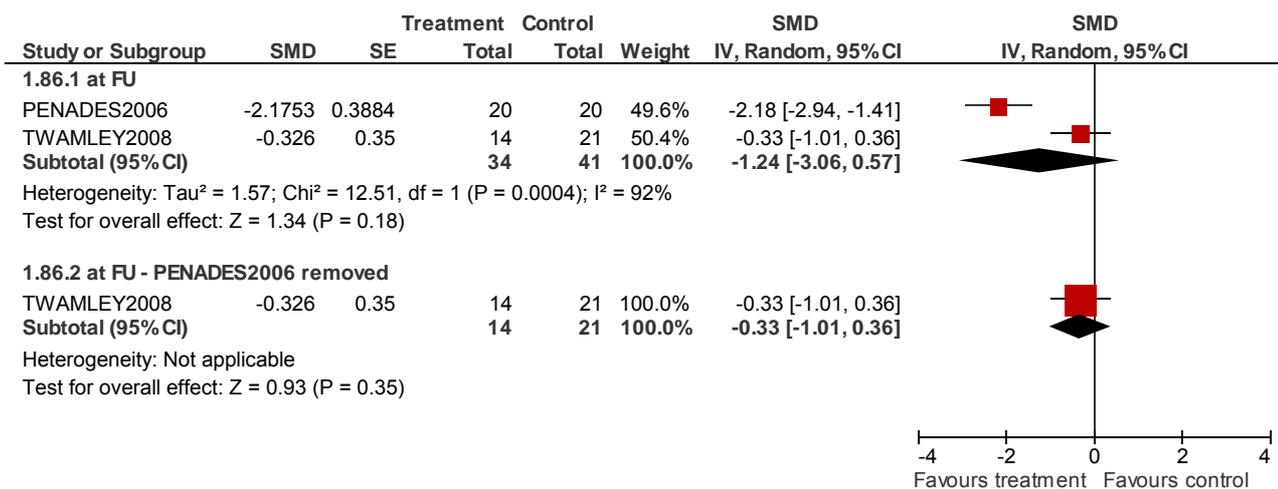


Psychological clinical evidence: Cognitive remediation

1.84 Cognitive outcome: 5. Verbal working memory

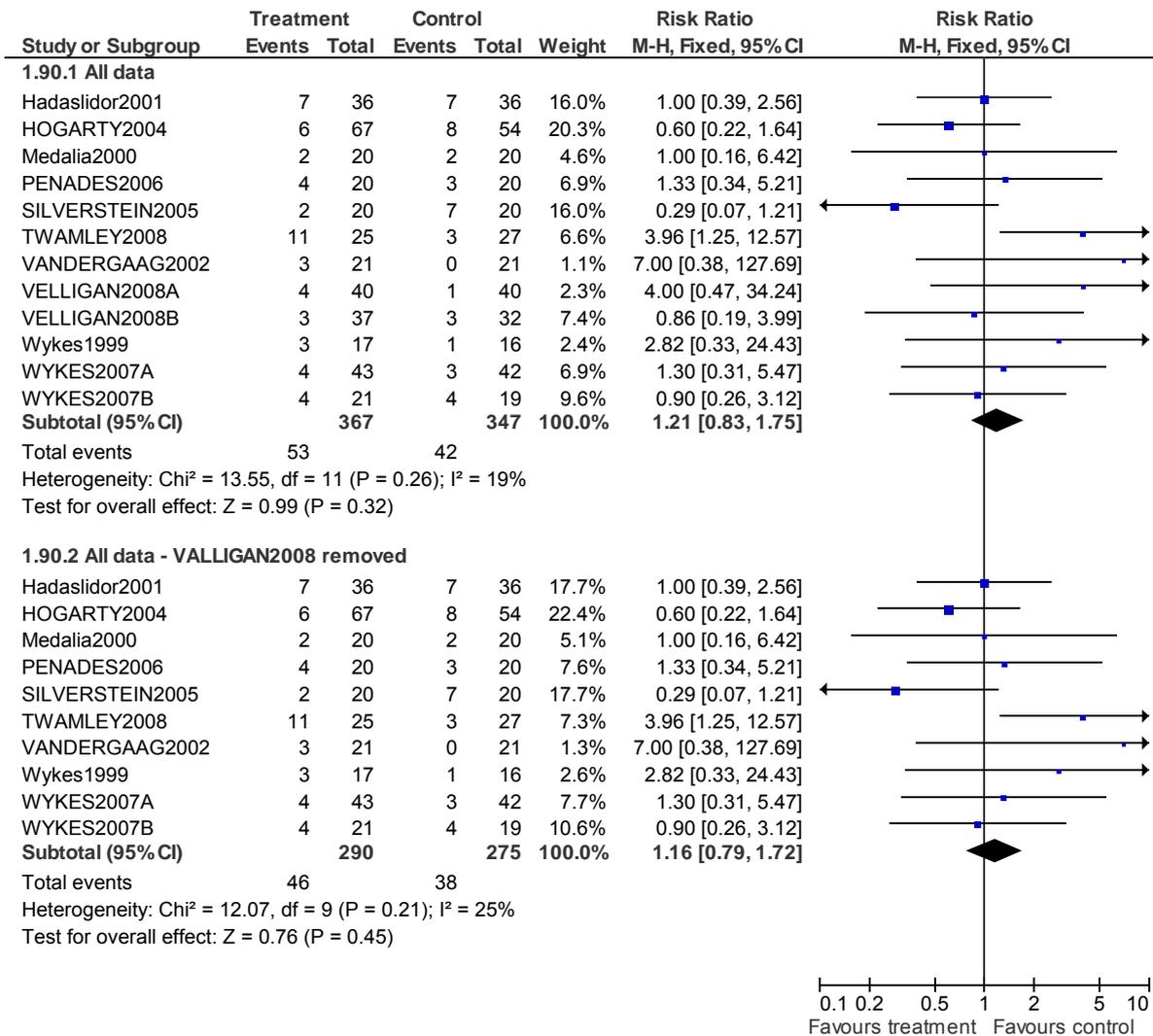


1.86 Cognitive outcome: 6. Verbal learning and memory

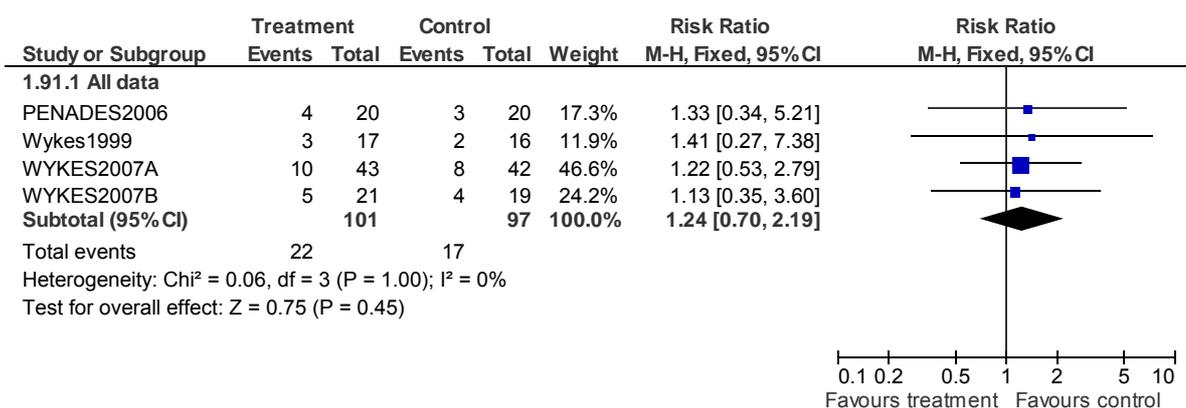


Psychological clinical evidence: Cognitive remediation

1.90 leaving the study early (at end of treatment)



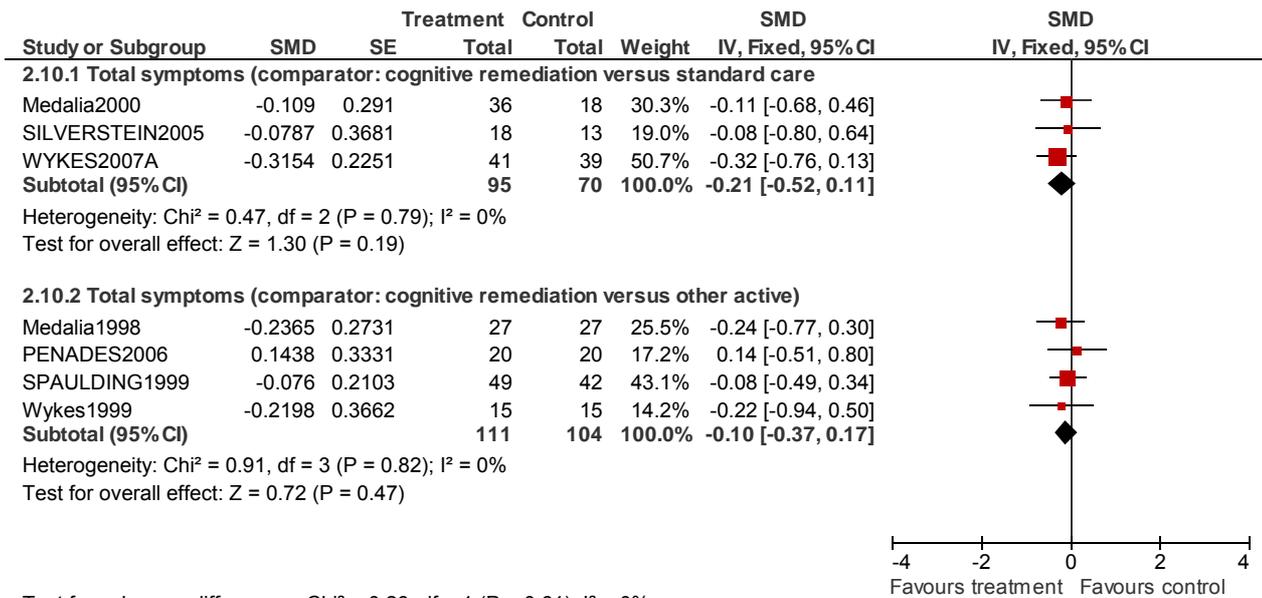
1.91 Leaving the study early (up to 12 months FU)



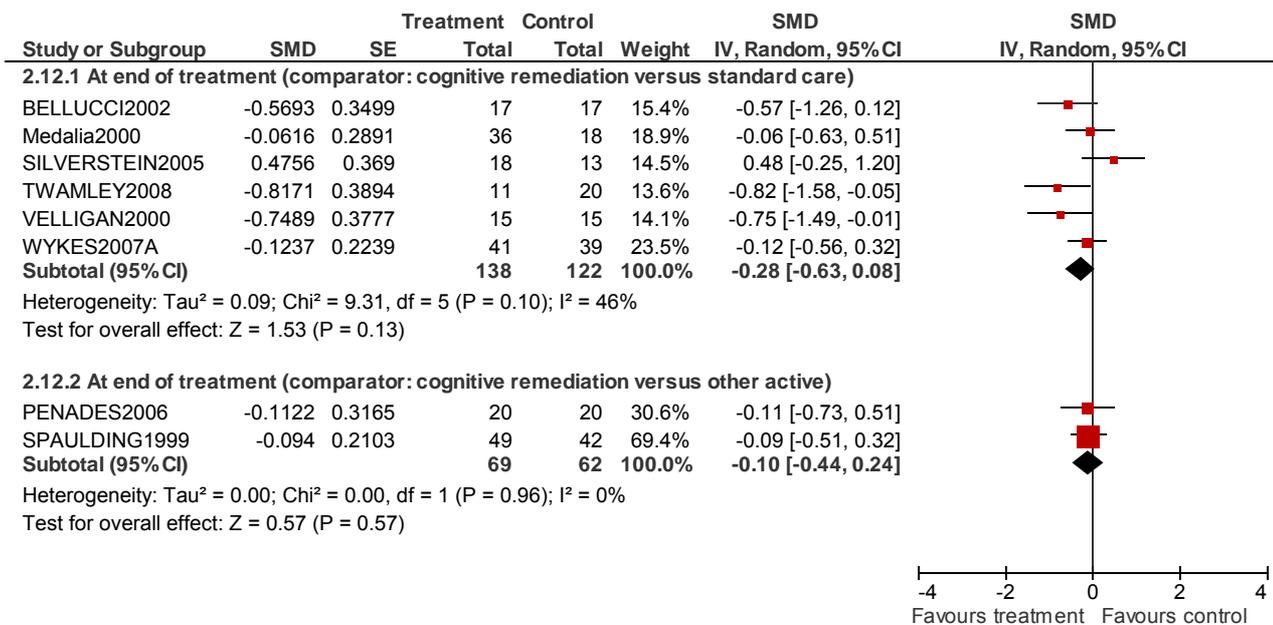
2 Grouped by comparison (selected critical outcomes)

Psychological clinical evidence: Cognitive remediation

2.10 Mental state: 1. PANSS total symptoms (pooled across PANSS subscales) (end of treatment)

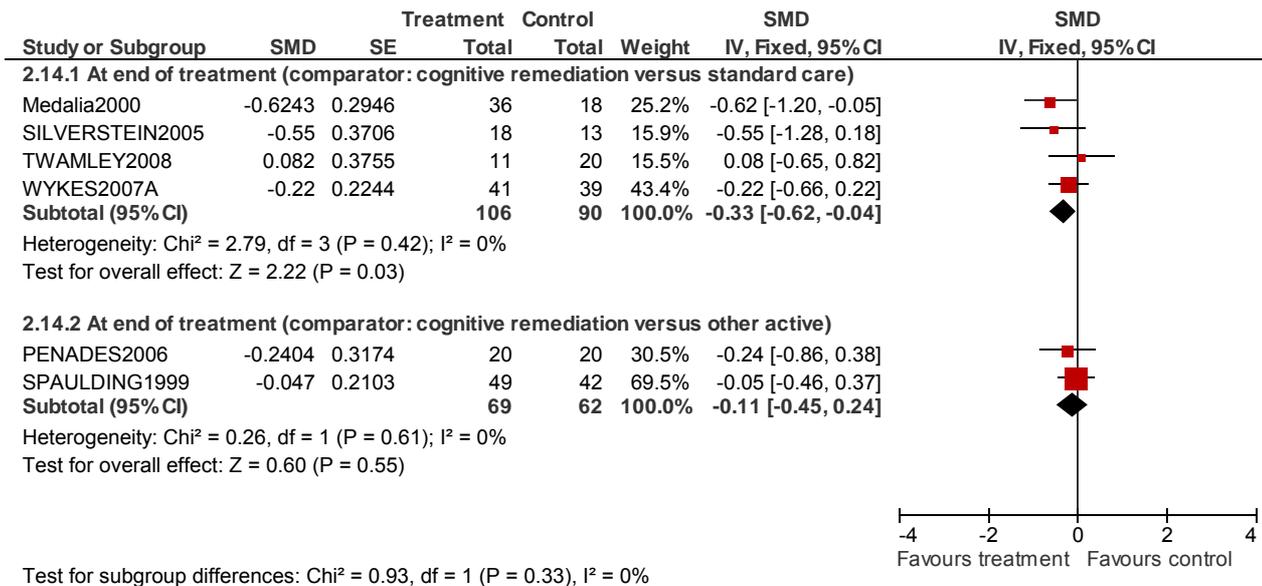


2.12 Mental state: 2. PANSS, SANS, Negative symptoms (end of treatment)



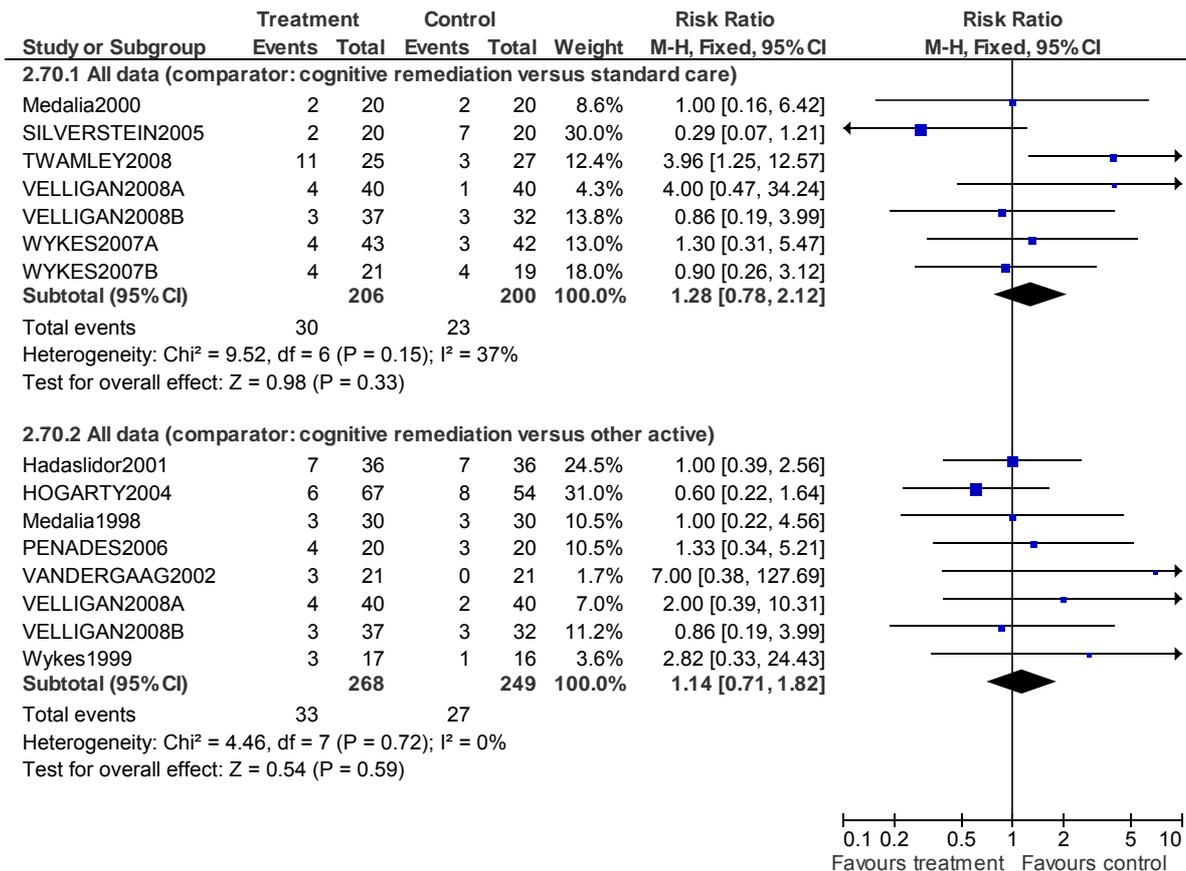
Psychological clinical evidence: Cognitive remediation

2.14 Mental state: 3. PANSS, SAPS, Positive symptoms (at end of treatment)



Psychological clinical evidence: Cognitive remediation

2.70 leaving the study early (at end of treatment)



2.71 Leaving the study early (up to 12 months FU)

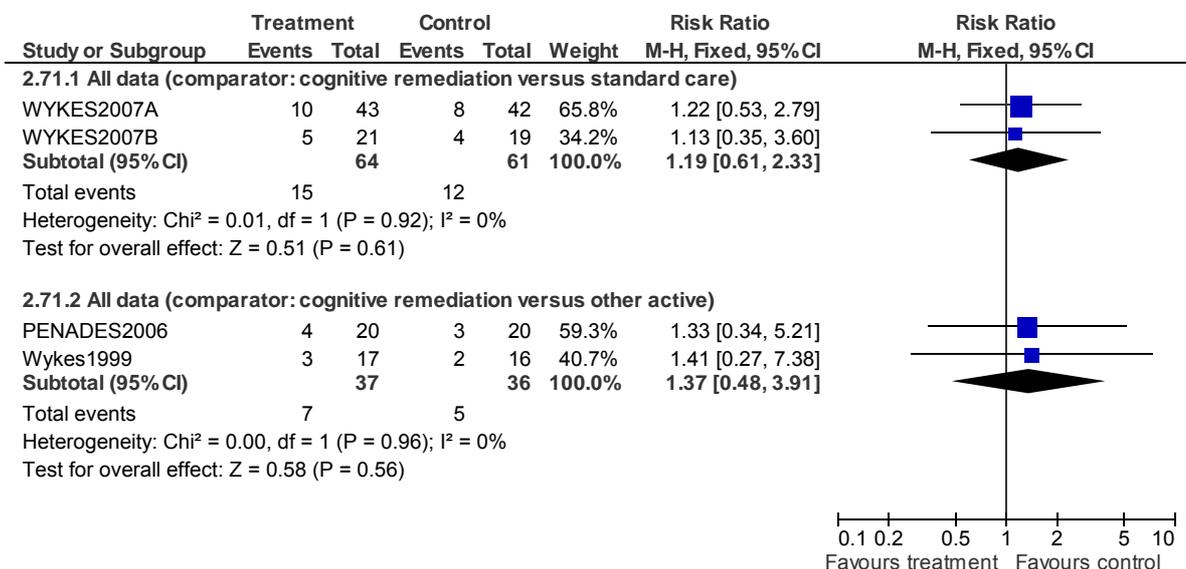


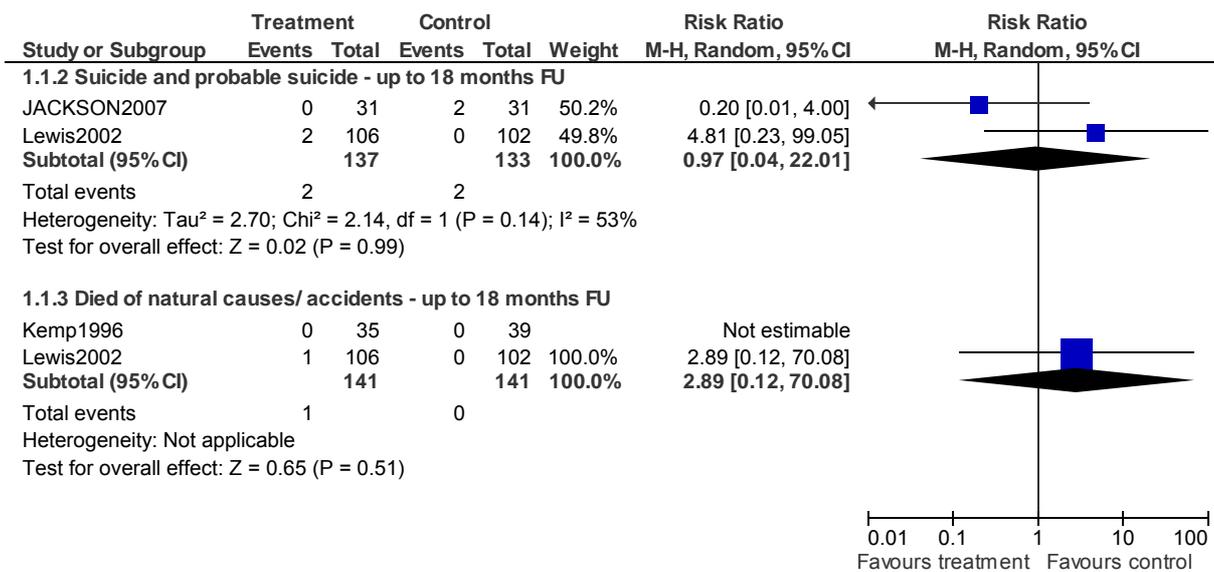
Table 5: Studies included in the counselling and supportive therapy review

Intervention	versus Comparator
	Any control
Counselling and Supportive Therapy	Eckman1992 Falloon1981 Haddock1999 Herz2000 Hogarty1997 JACKSON2007 Kemp1996 Lewis2002 Marder1996 PATTERSON2006 PINTO1999 ROHRICHT2006 Sensky2000 SHIN2002 Stanton1984 Tarrier1998 VALMAGGIA2005
	Standard care
Counselling and Supportive Therapy	Tarrier1998 Lewis2002
	Other active treatments
Counselling and Supportive Therapy	Eckman1992 Falloon1981 Haddock1999 Herz2000 Hogarty1997 JACKSON2007 Kemp1996 Lewis2002 Marder1996 PATTERSON2006 PINTO1999 ROHRICHT2006 Sensky2000 SHIN2002 Stanton1984 Tarrier1998 VALMAGGIA2005

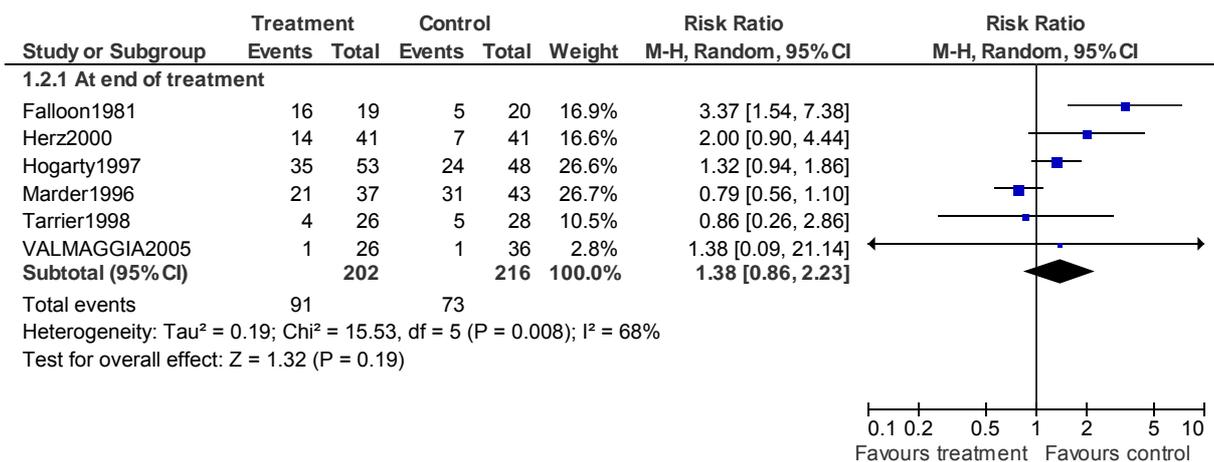
Psychological clinical evidence: Counselling and supportive therapy

1 Counselling and supportive therapy versus any control (critical outcomes)

1.1 Mortality

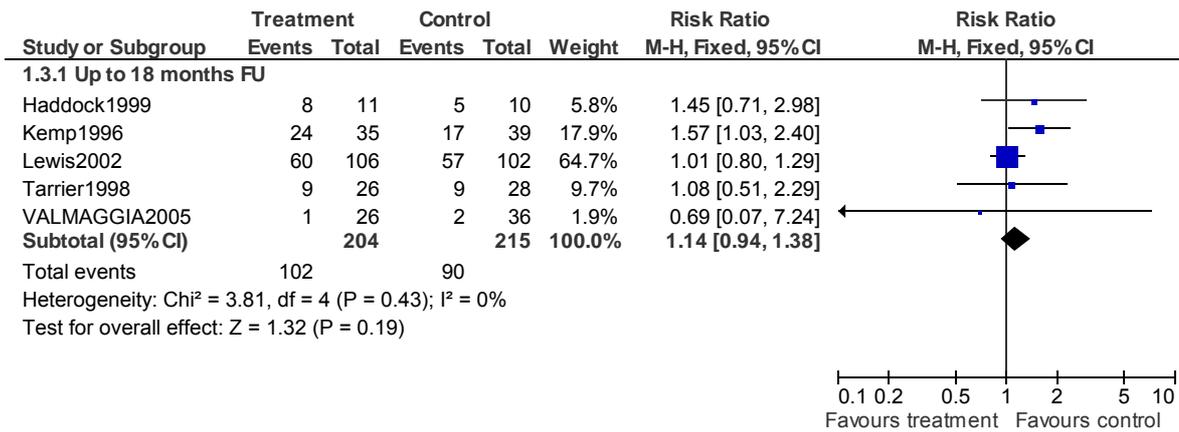


1.2 Global state: 1. Relapse

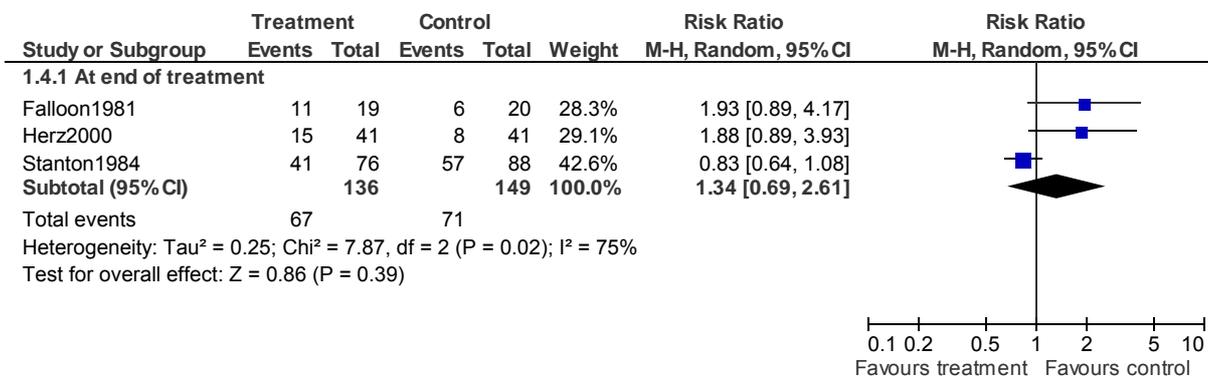


Psychological clinical evidence: Counselling and supportive therapy

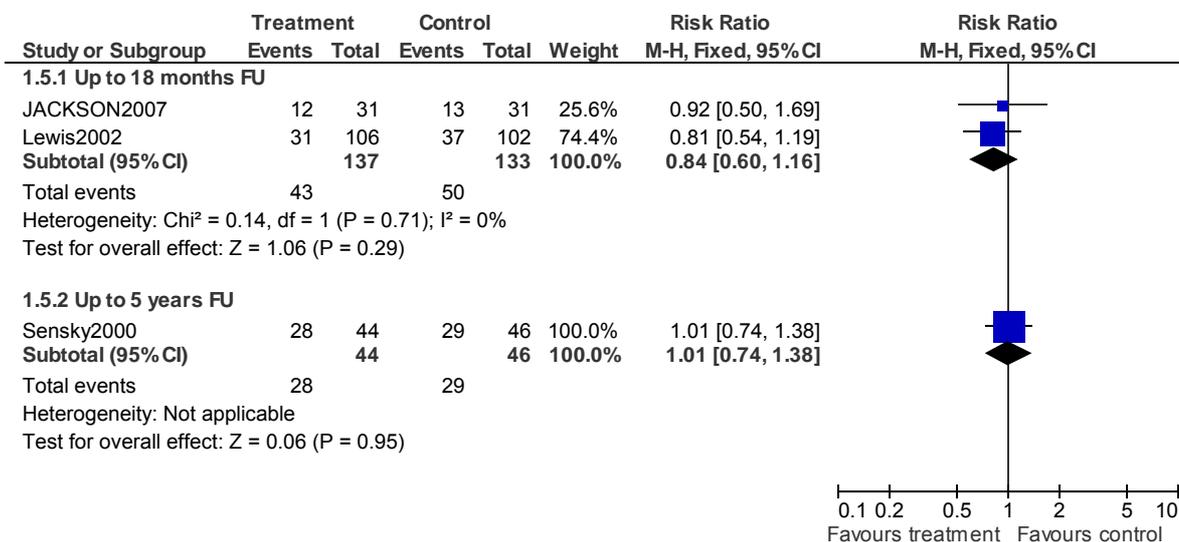
1.3 Global State: 1. Relapse (at FU)



1.4 Service Outcome: 1. Rehospitalisation

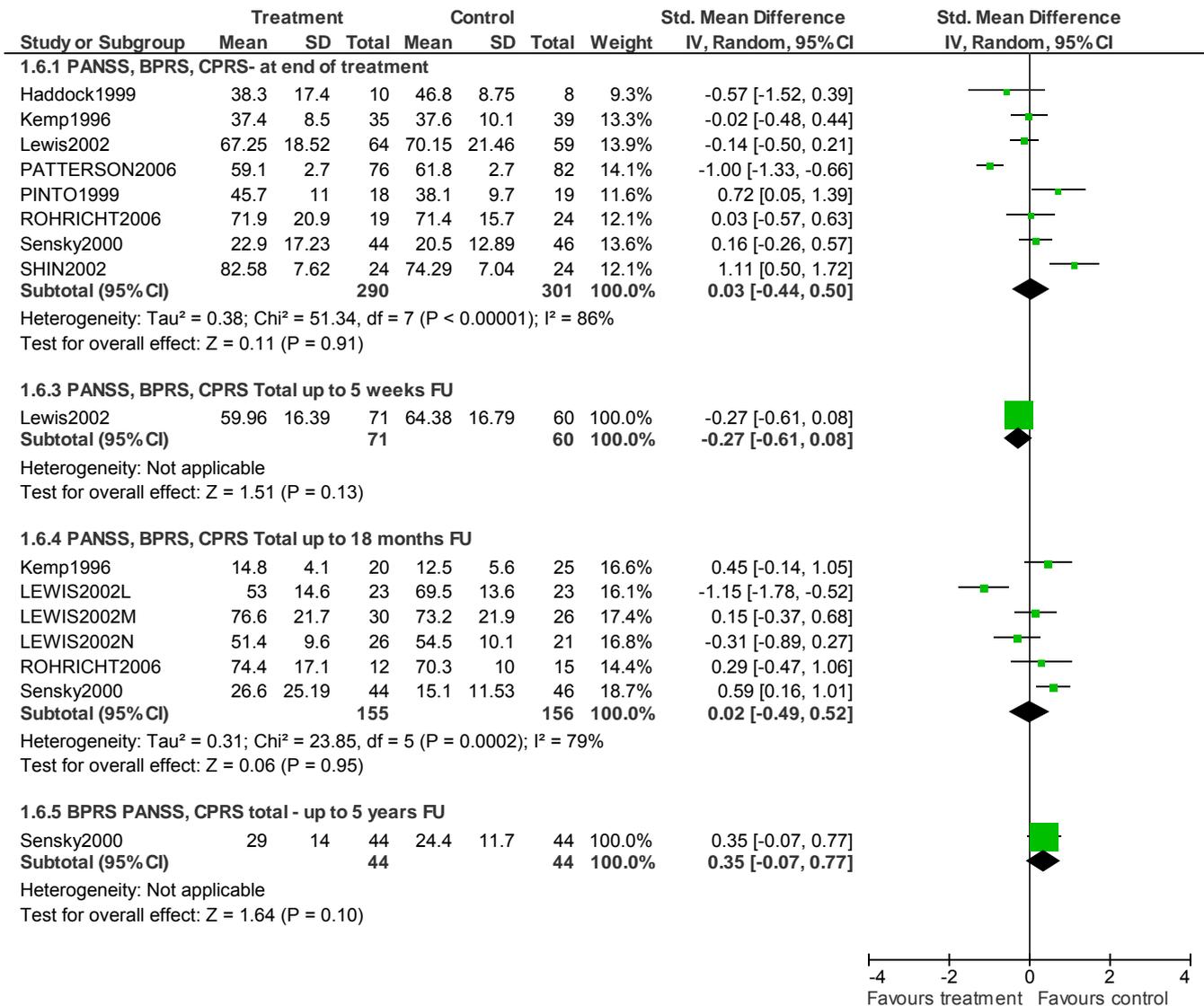


1.5 Service Outcome: 1. Rehospitalisation (at FU)



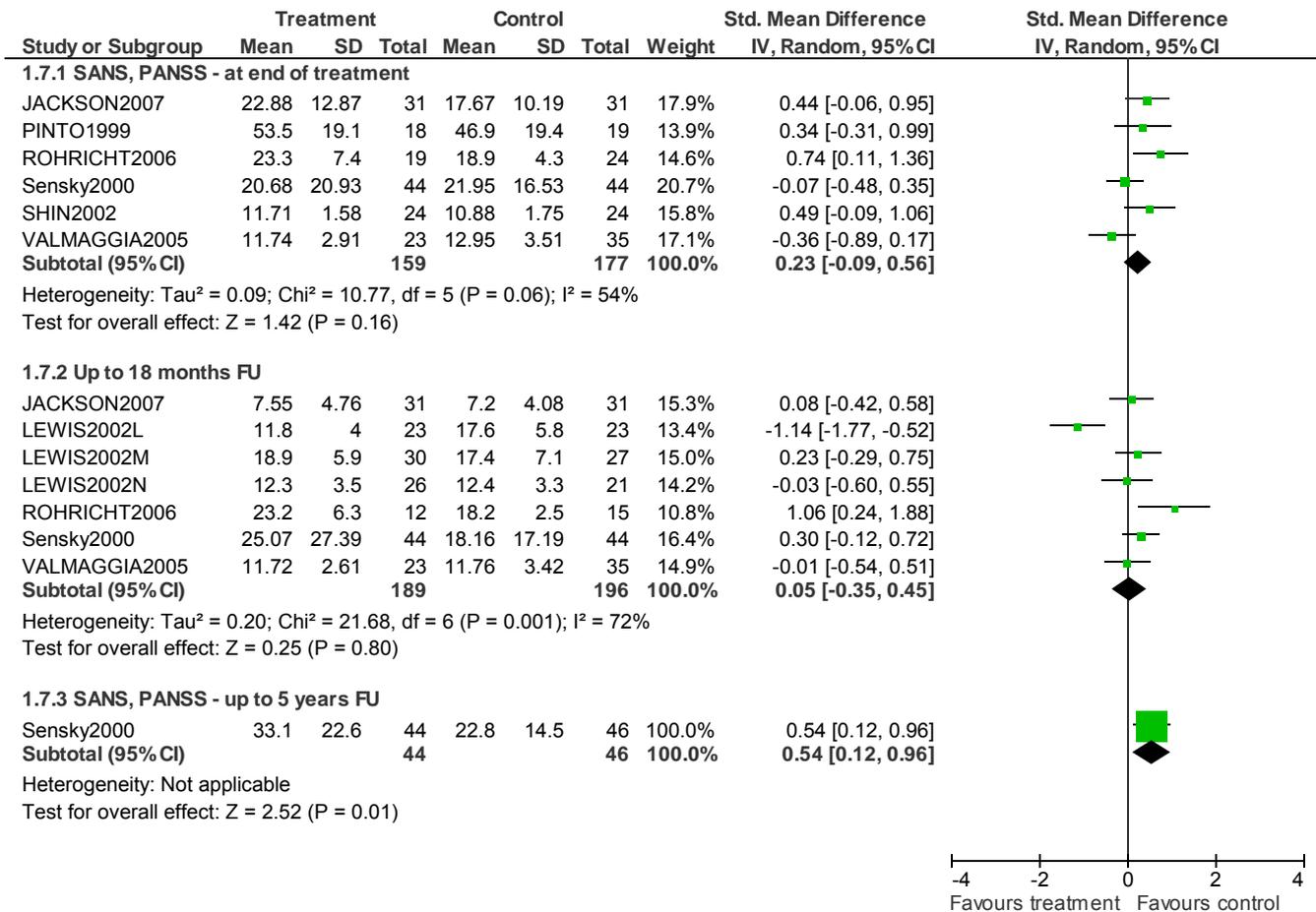
Psychological clinical evidence: Counselling and supportive therapy

1.6 Mental state: 1. Continuous measures - total symptom score (lower=better)

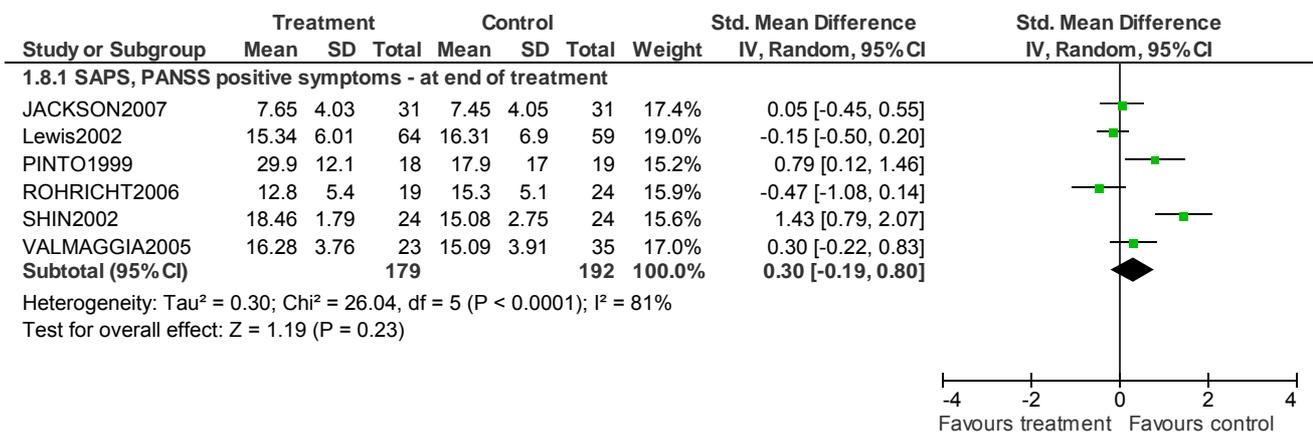


Psychological clinical evidence: Counselling and supportive therapy

1.7 Mental state: 2. Continuous measures - negative symptoms (lower = better)

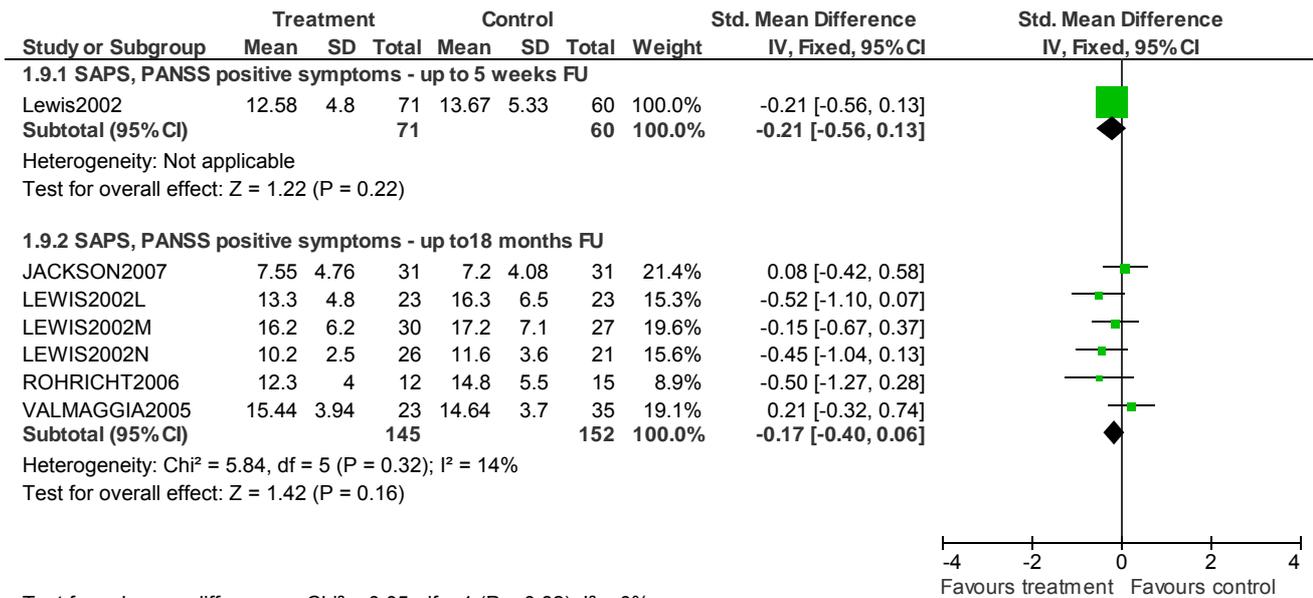


1.8 Mental state: 3. Continuous measures - positive symptoms (lower = better)

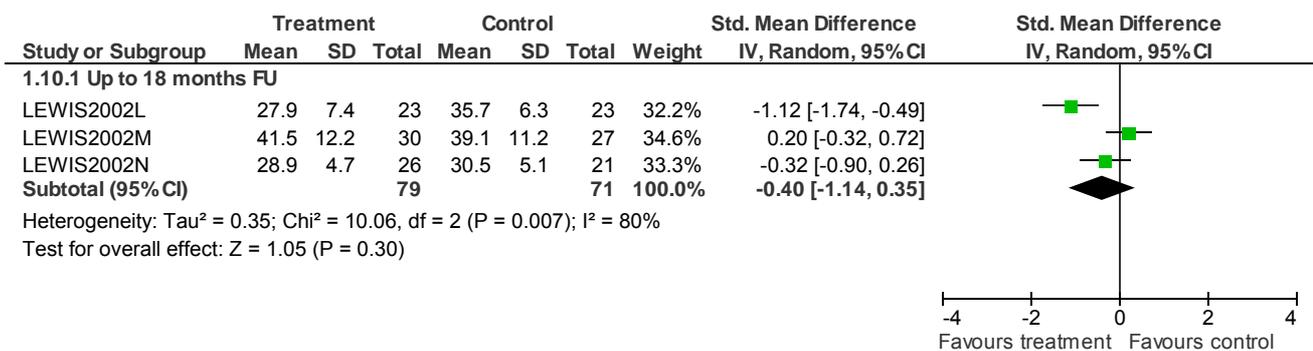


Psychological clinical evidence: Counselling and supportive therapy

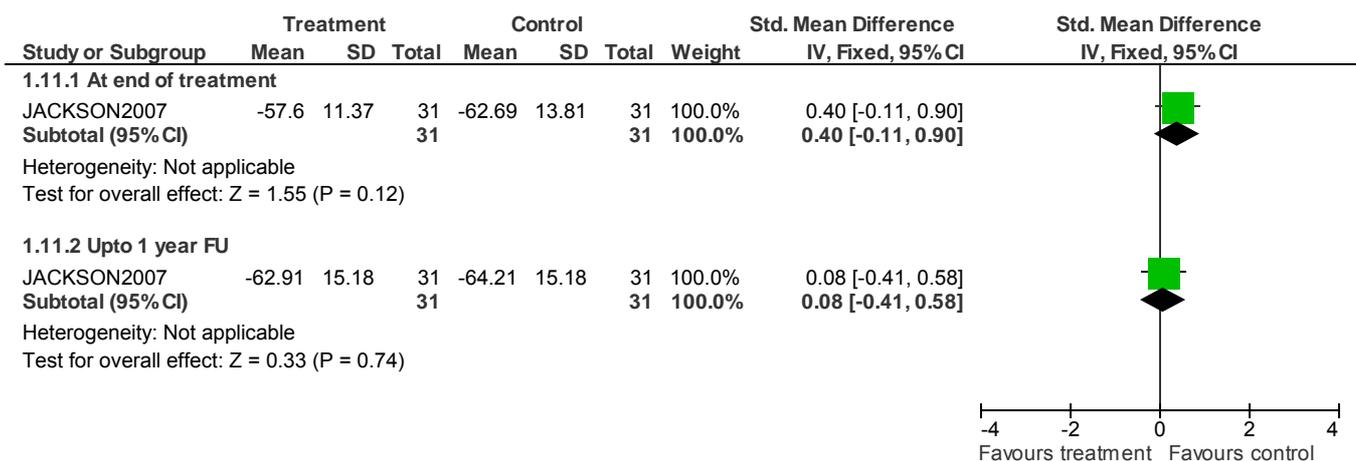
1.9 Mental state: 3. Continuous measures - positive symptoms (at FU)



1.10 Mental state: 4. Continuous measures - general symptoms (lower = better)

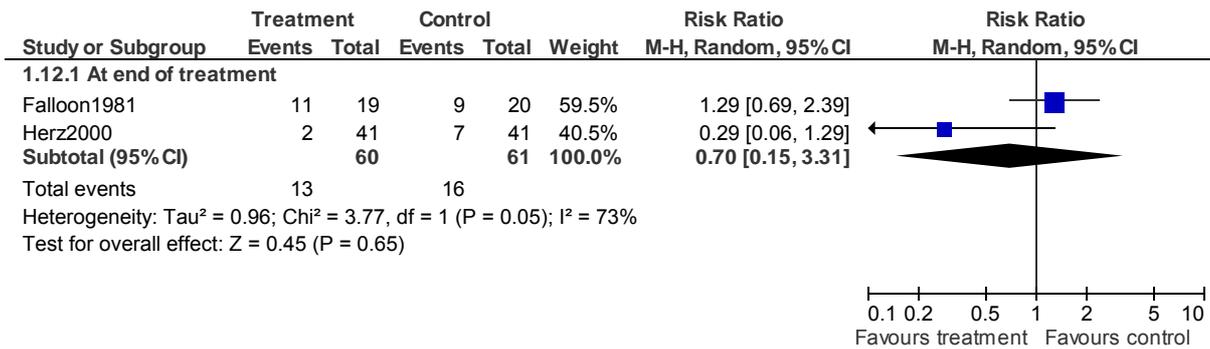


1.11 Psychosocial Functioning: 1. SOFAS (signs reversed)

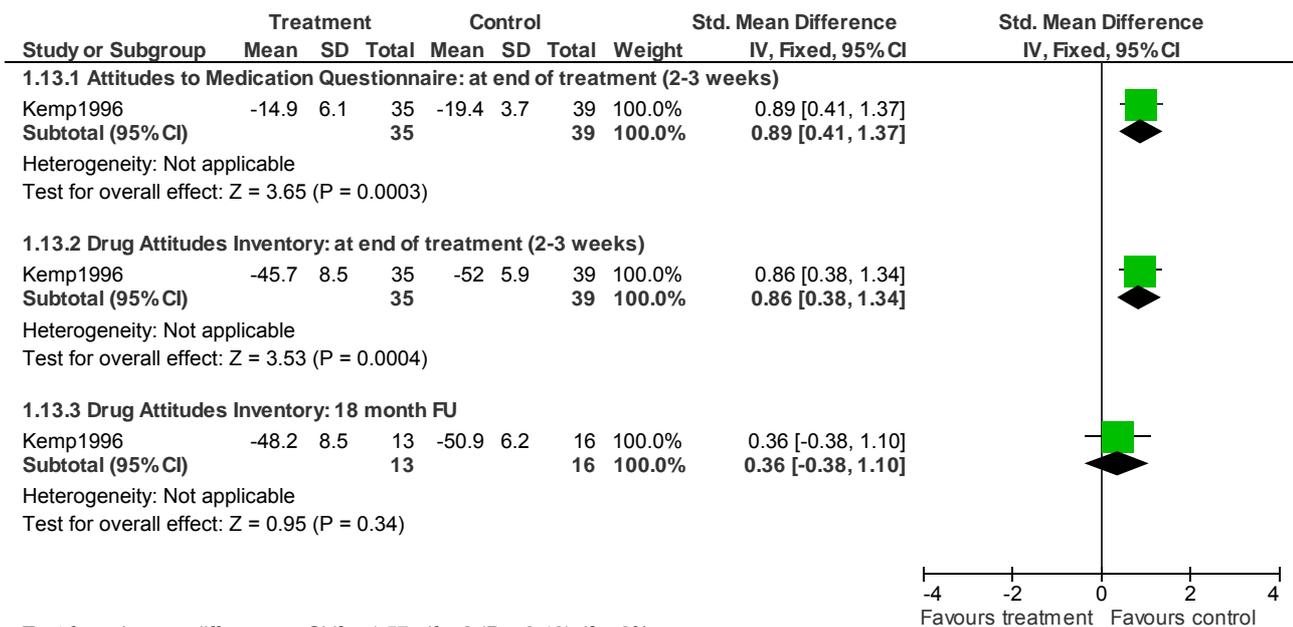


Psychological clinical evidence: Counselling and supportive therapy

1.12 Adherence: 1. Nonadherence with medication



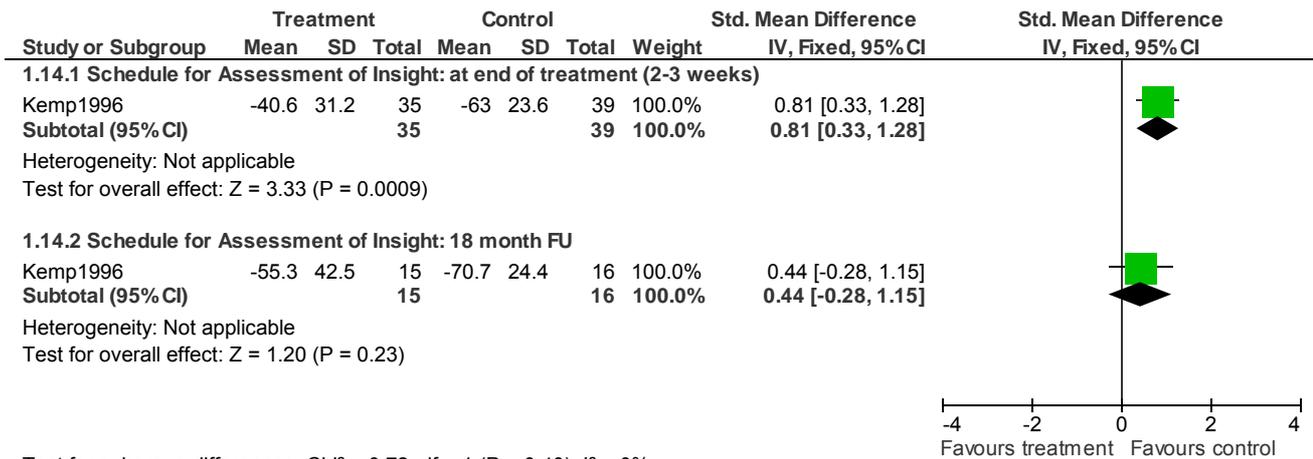
1.13 Adherence: 2. Continuous measures: DAI, Attitudes to medication (signs reversed)



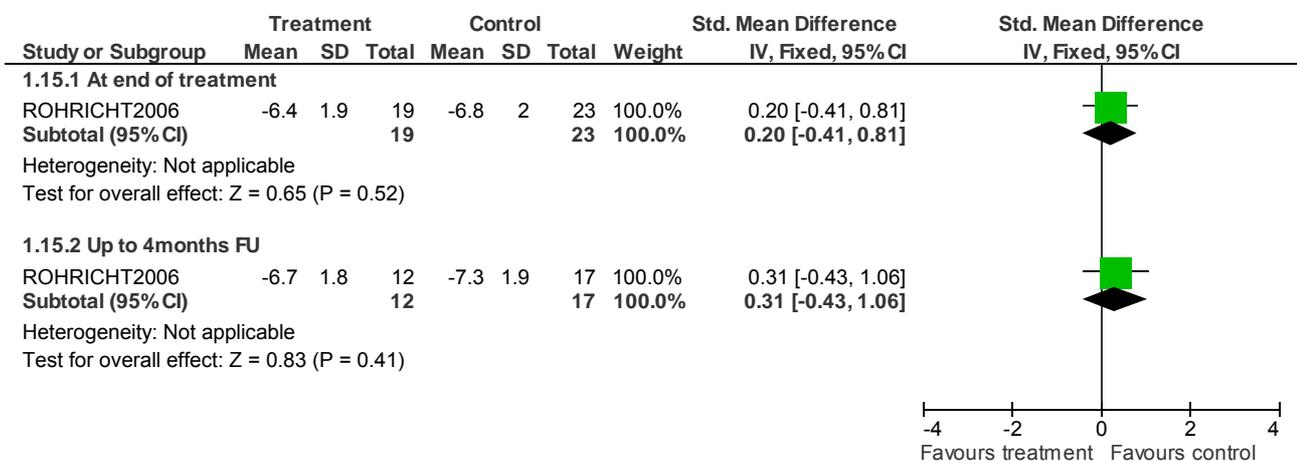
Test for subgroup differences: Chi² = 1.57, df = 2 (P = 0.46), I² = 0%

Psychological clinical evidence: Counselling and supportive therapy

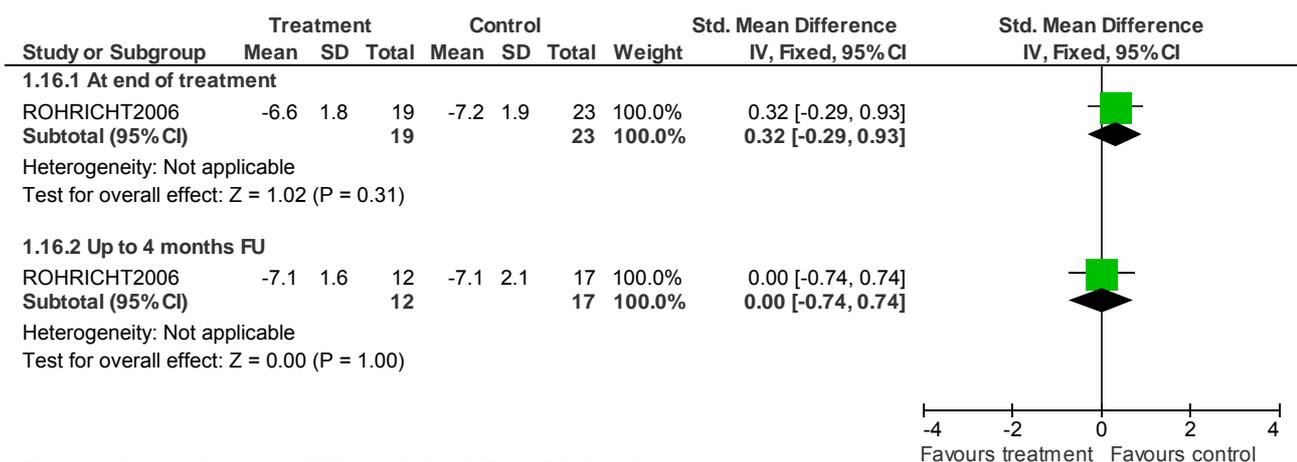
1.14 Insight: 1. Schedule for Assessment of Insight (signs reversed)



1.15 Satisfaction with treatment: 1. Service user satisfaction (CAT) (signs reversed)

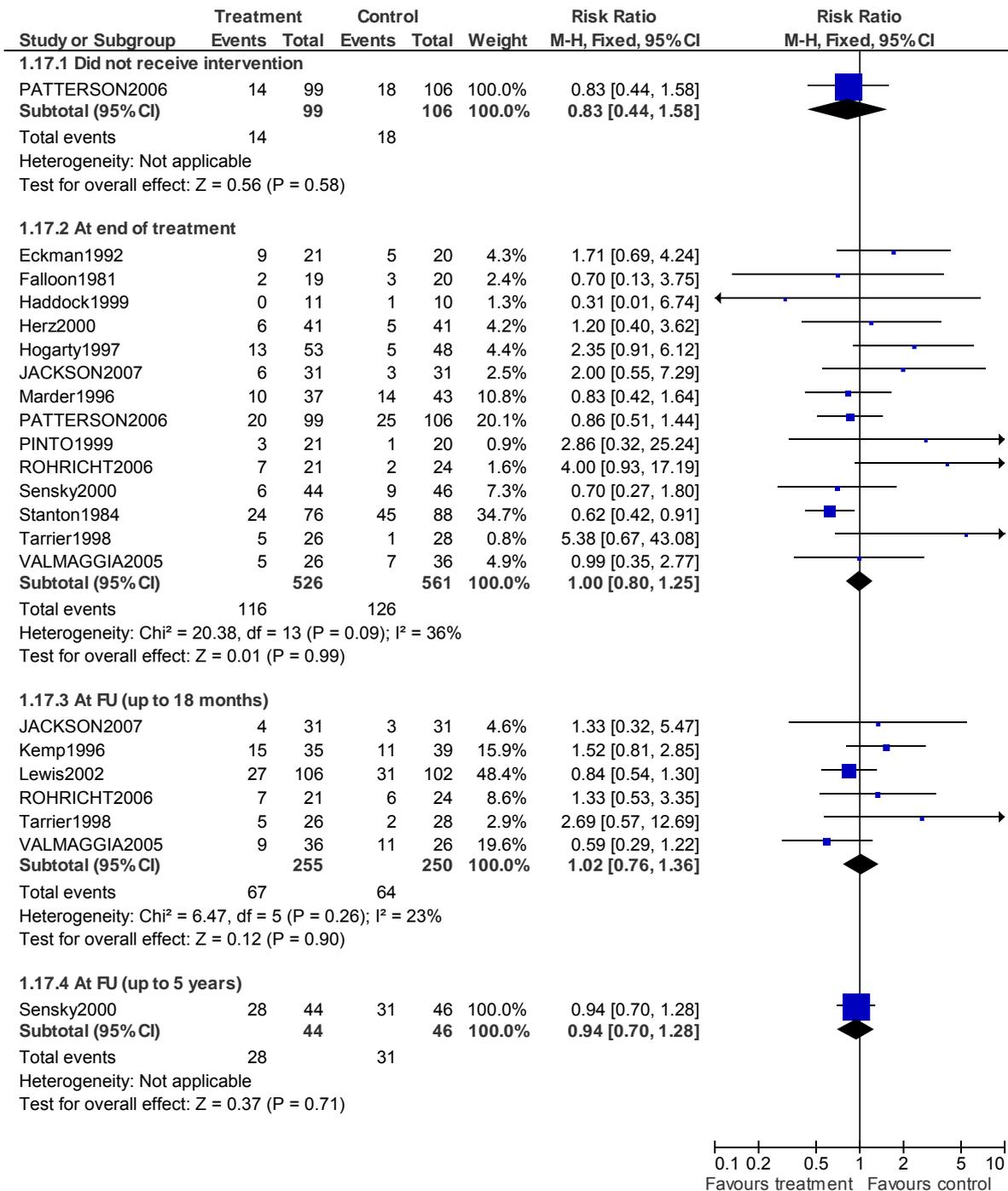


1.16 Satisfaction with treatment: 2. Rating of the therapeutic relationship (signs reversed)



Psychological clinical evidence: Counselling and supportive therapy

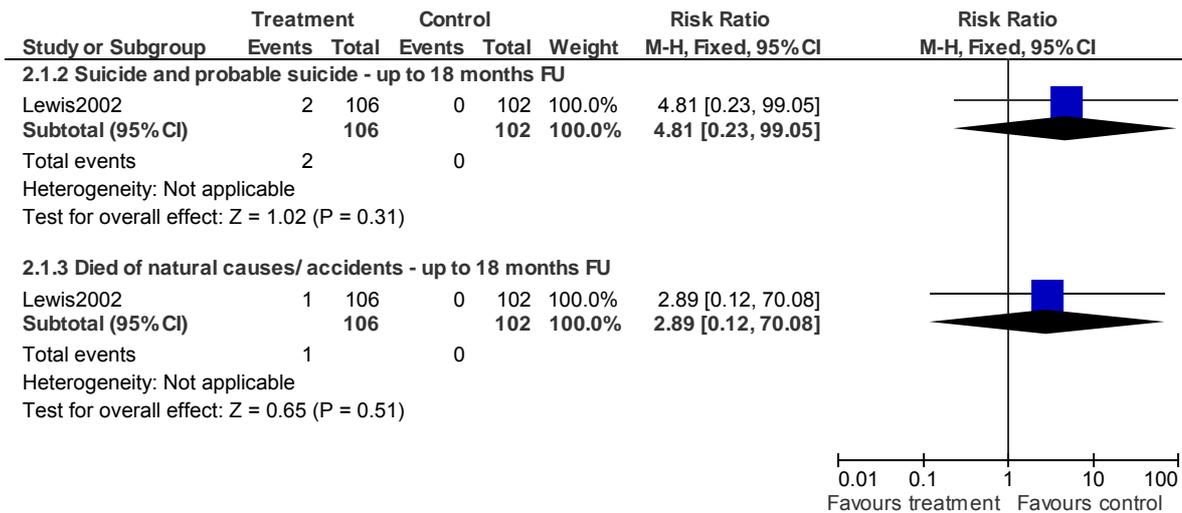
1.17 Treatment acceptability: 1. Leaving the study early for any reason



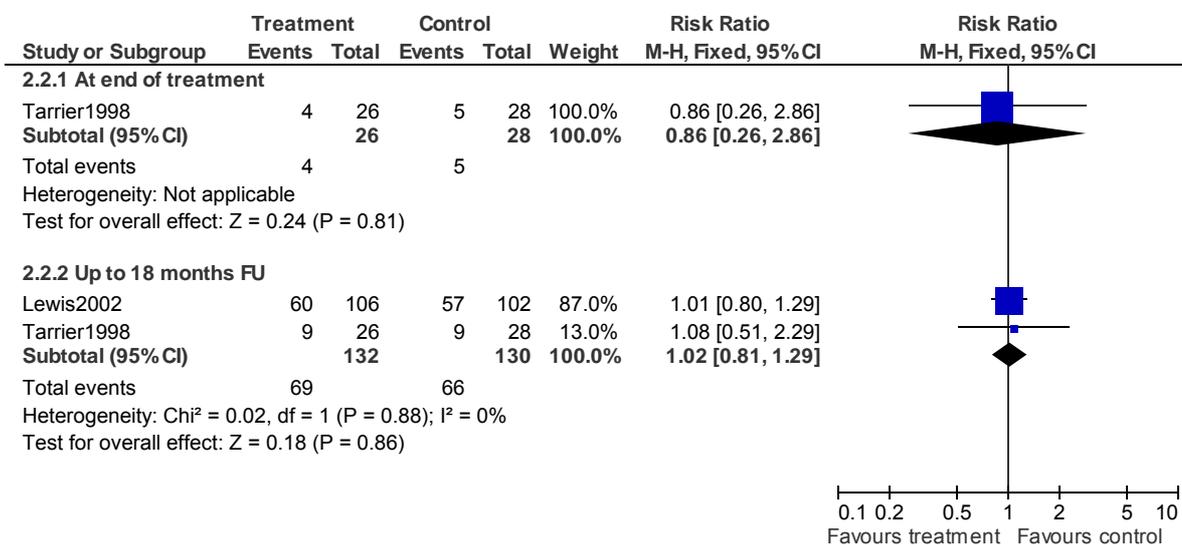
2 Counselling and supportive therapy versus standard care (critical outcomes)

Psychological clinical evidence: Counselling and supportive therapy

2.1 Mortality

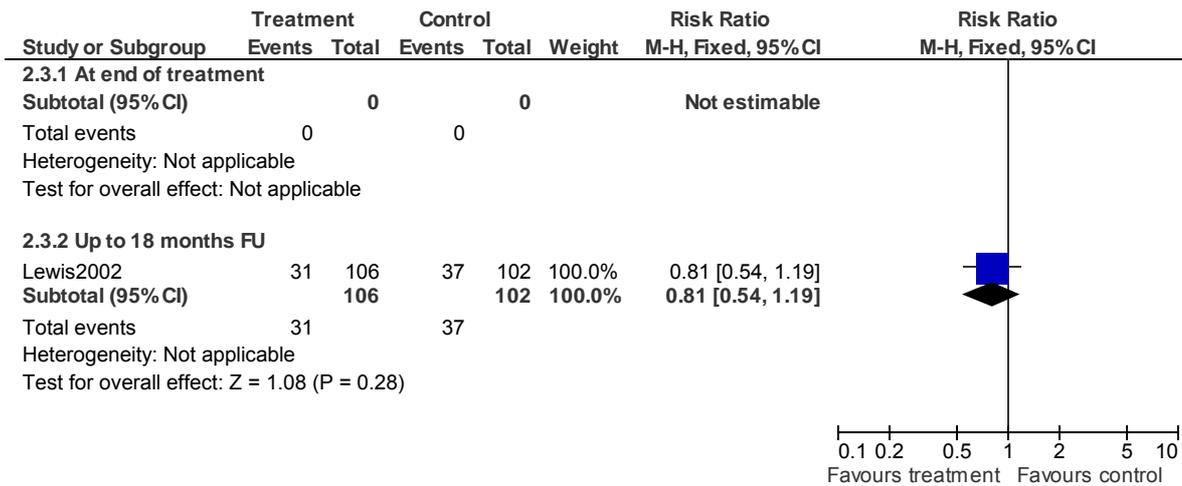


2.2 Global State: 1. Relapse

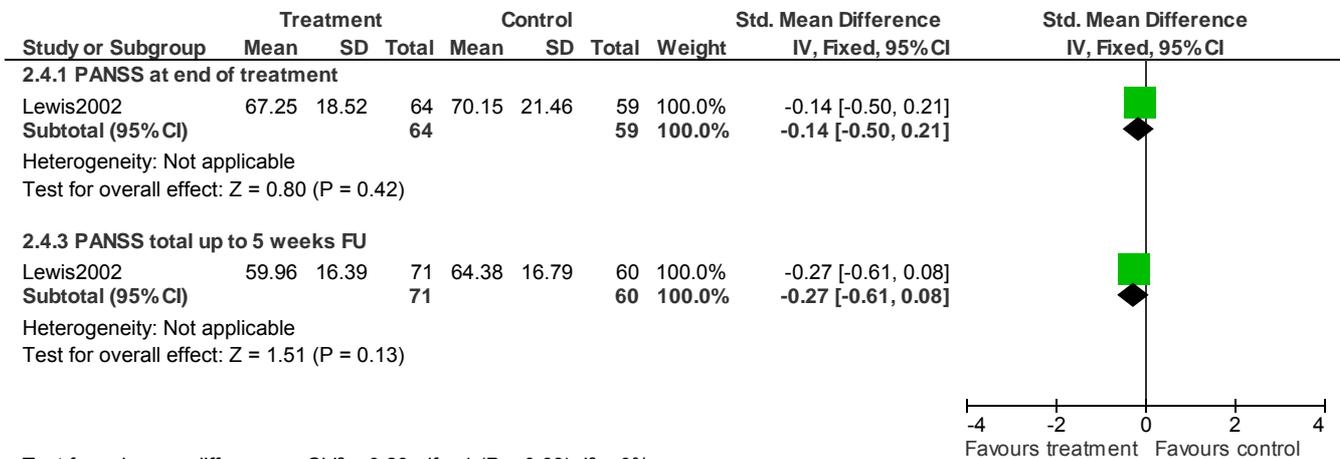


Psychological clinical evidence: Counselling and supportive therapy

2.3 Service Outcome: 1. Rehospitalisation

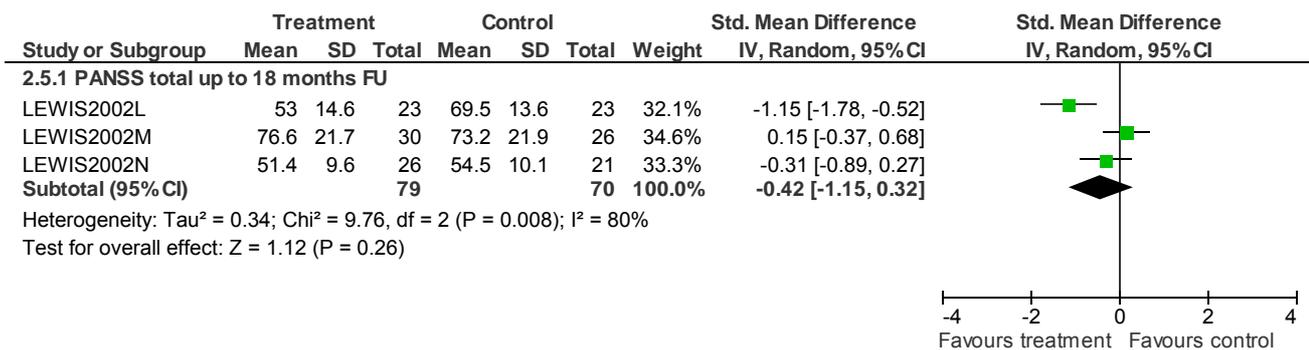


2.4 Mental state: 1. Continuous measures - total symptom score (lower=better)



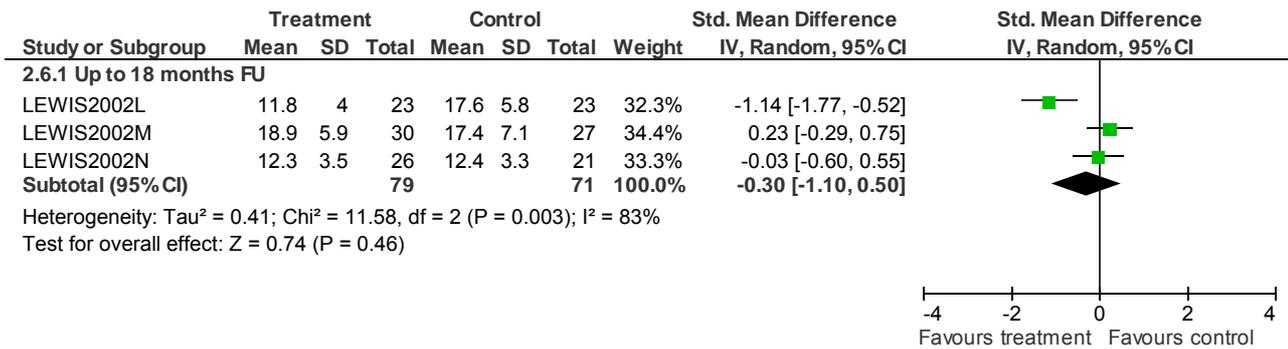
Test for subgroup differences: Chi² = 0.23, df = 1 (P = 0.63), I² = 0%

2.5 Mental state: 1. Continuous measures - total symptoms (at FU)

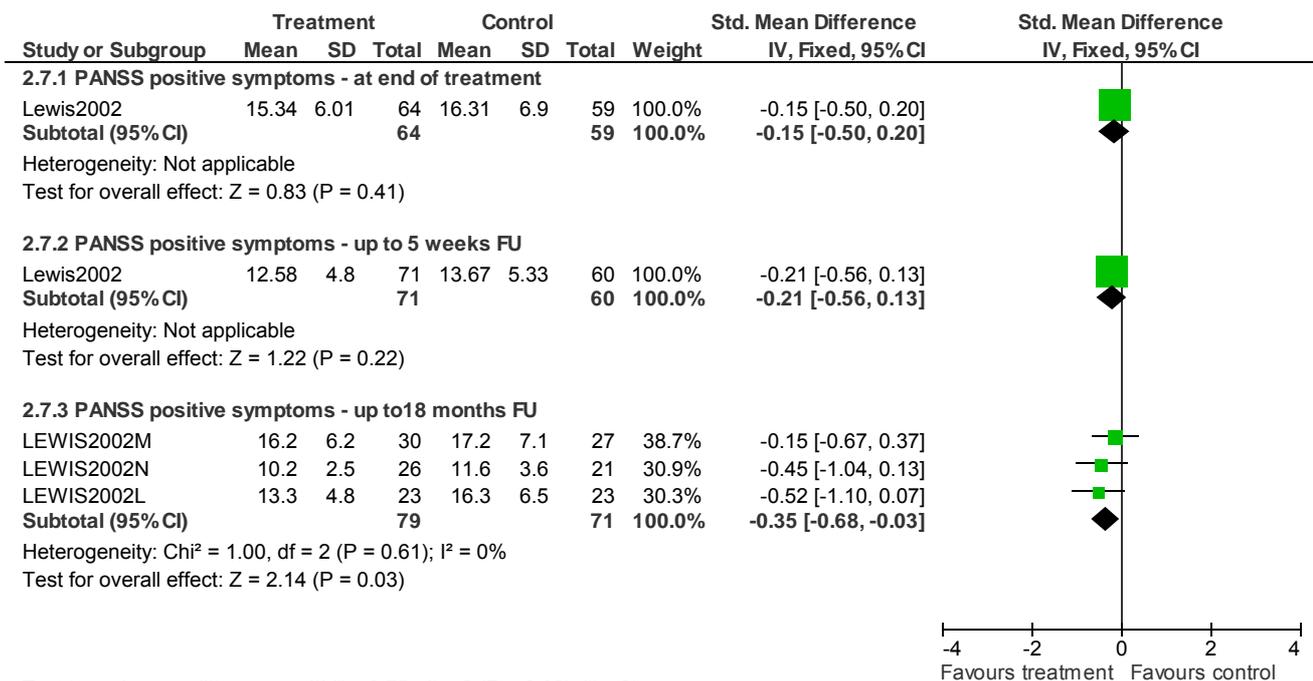


Psychological clinical evidence: Counselling and supportive therapy

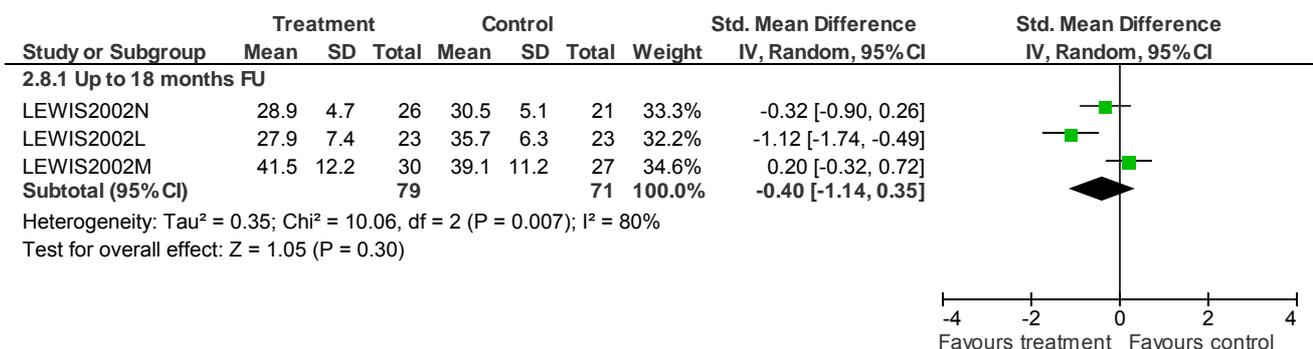
2.6 Mental state: 2. Continuous measures - negative symptoms (lower = better)



2.7 Mental state: 3. Continuous measures - positive symptoms (lower = better)

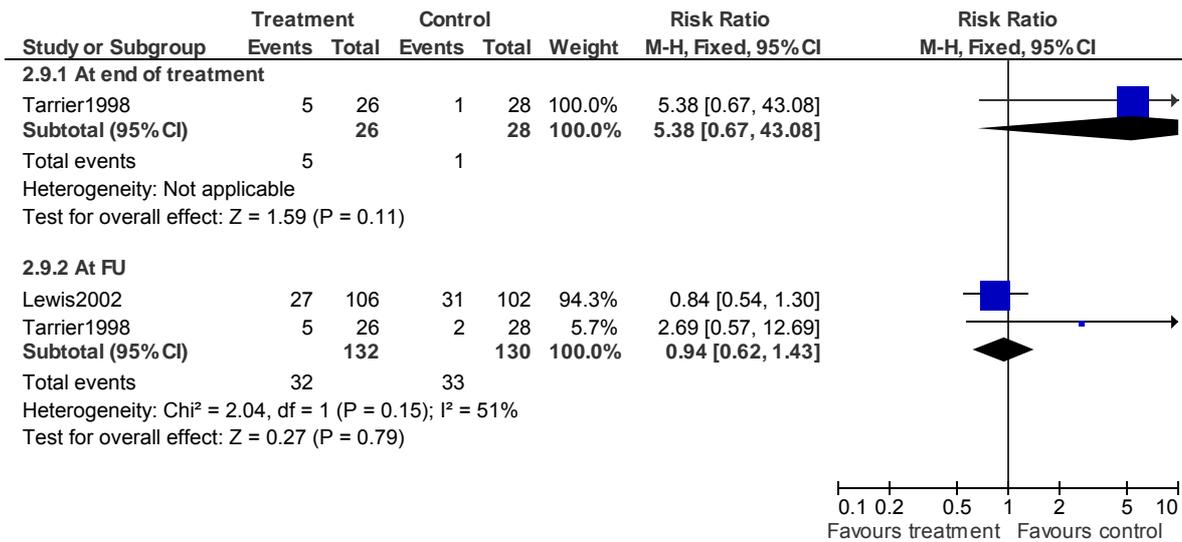


2.8 Mental state: 4. Continuous measures - general symptoms (lower = better)



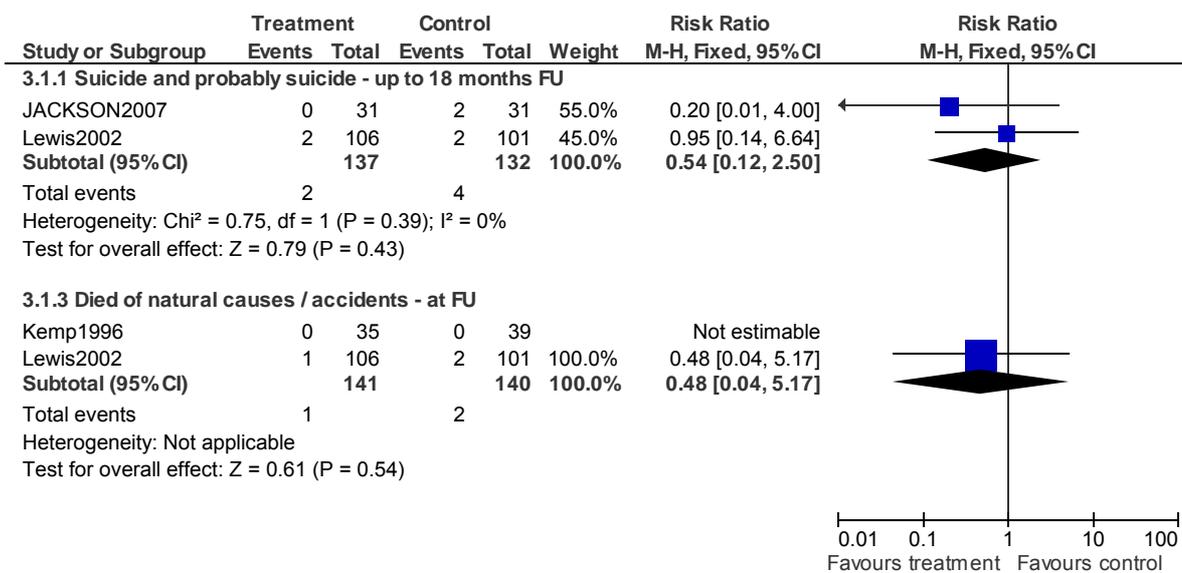
Psychological clinical evidence: Counselling and supportive therapy

2.9 Treatment acceptability: 1. Leaving the study early for any reason



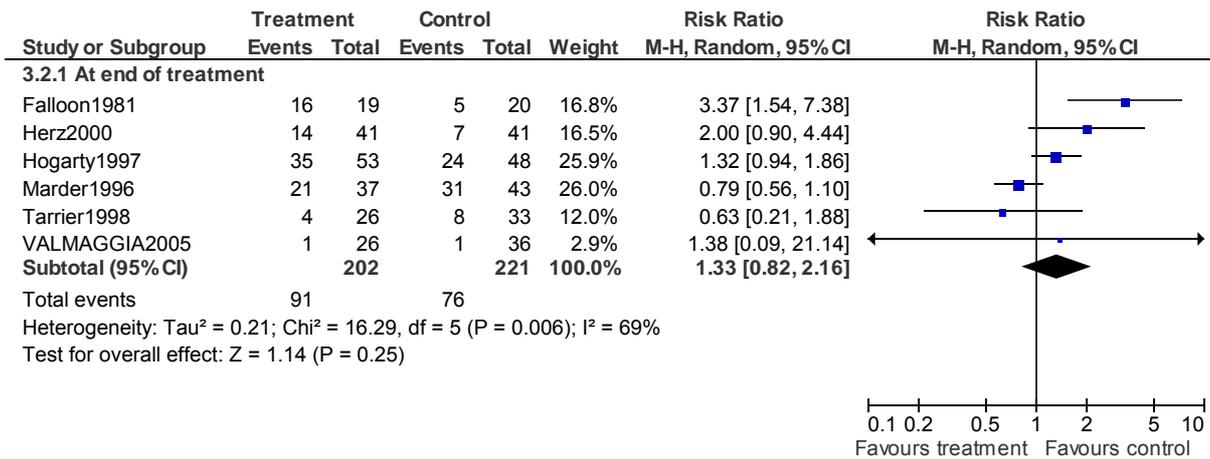
3 Counselling and supportive therapy versus other active treatments (critical outcomes)

3.1 Mortality

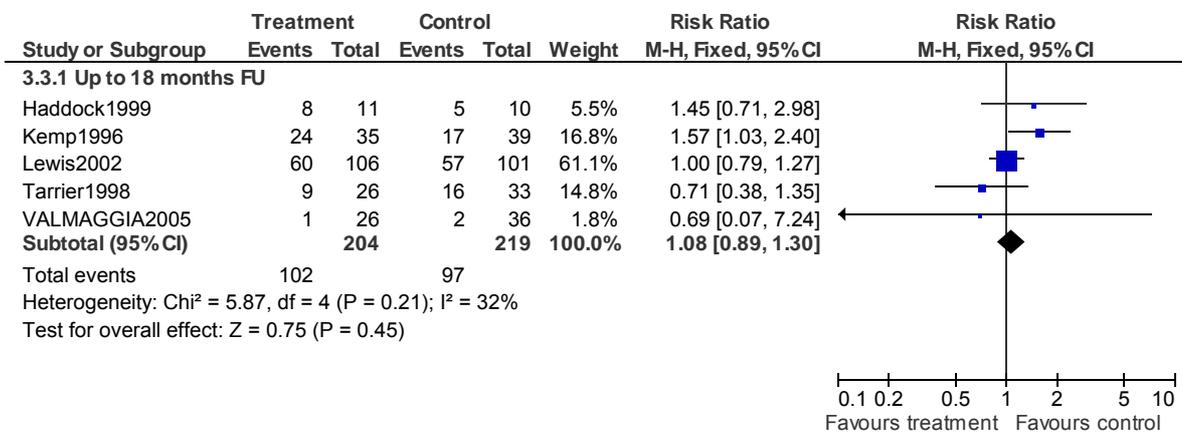


Psychological clinical evidence: Counselling and supportive therapy

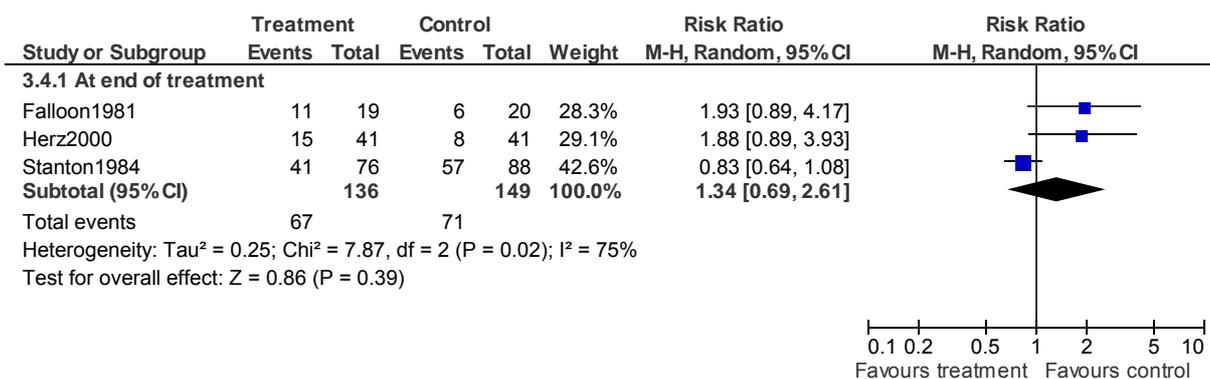
3.2 Global State: 1. Relapse (end of treatment)



3.3 Global State: 1. Relapse (at FU)

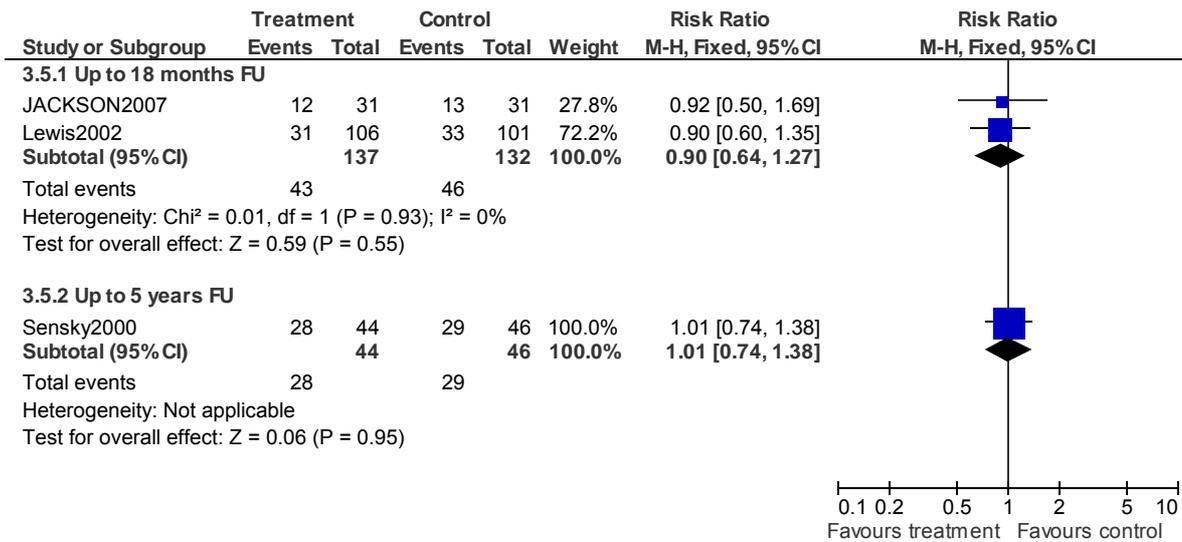


3.4 Service Outcomes: 1. Rehospitalisation

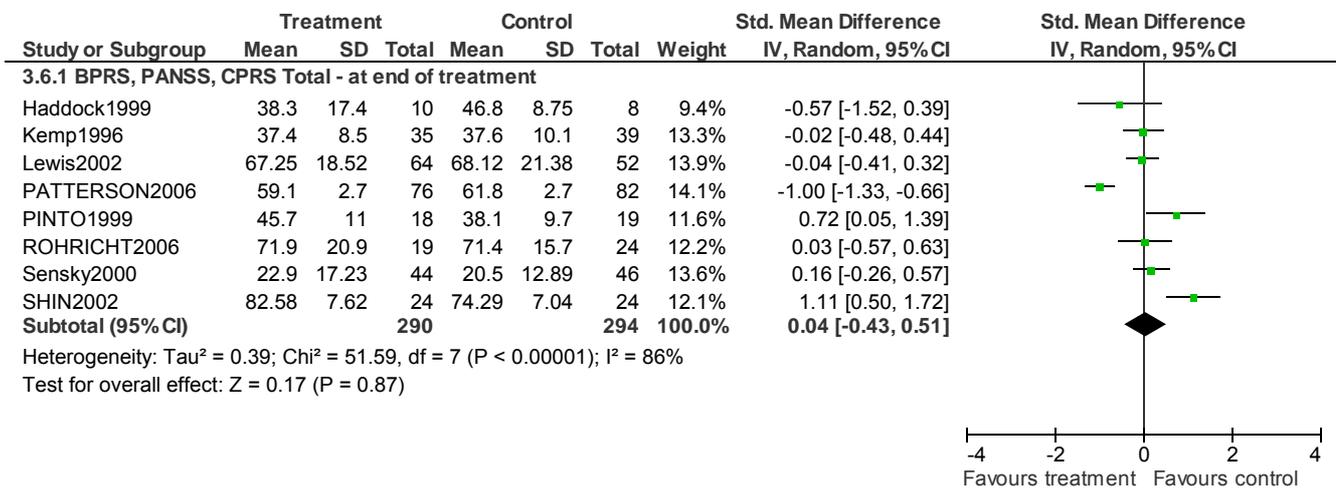


Psychological clinical evidence: Counselling and supportive therapy

3.5 Service Outcomes: 1. Rehospitalisation (at FU)

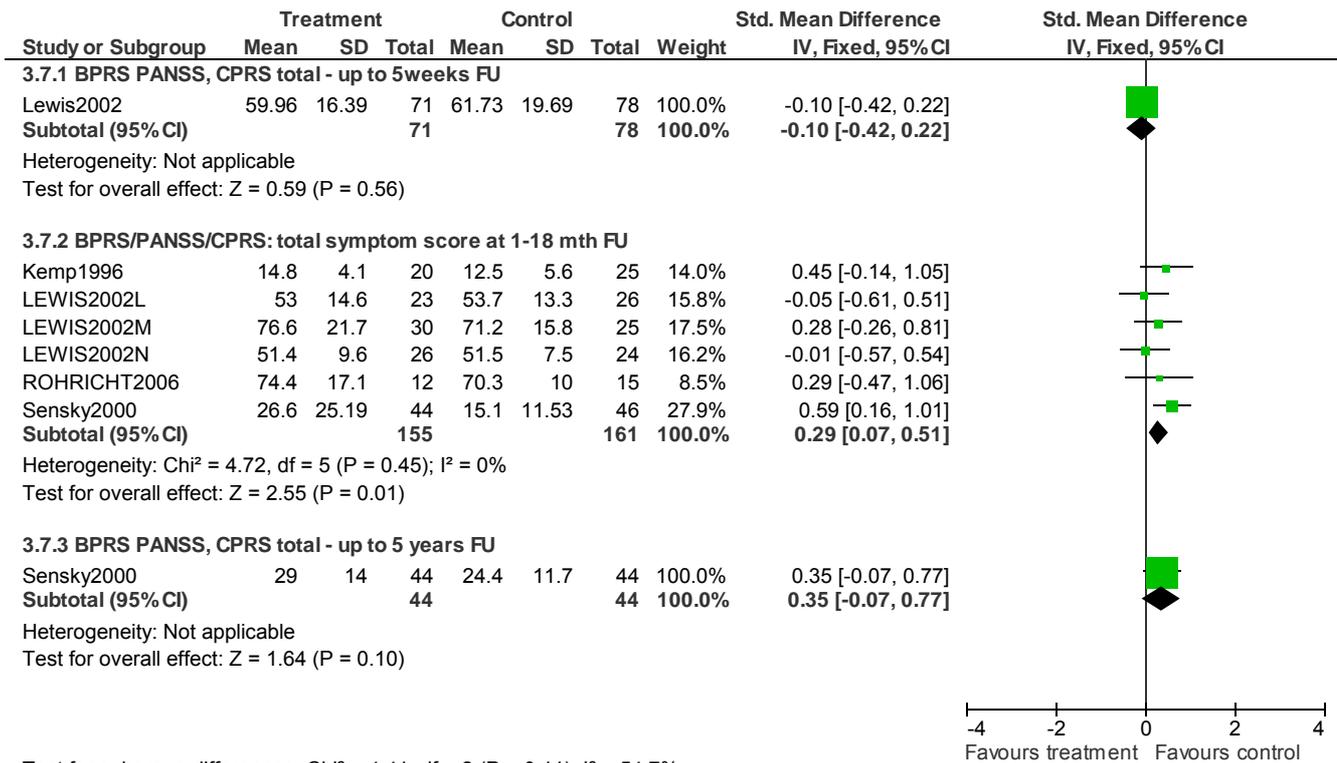


3.6 Mental state: 1. Continuous measures - total symptom score (lower = better)

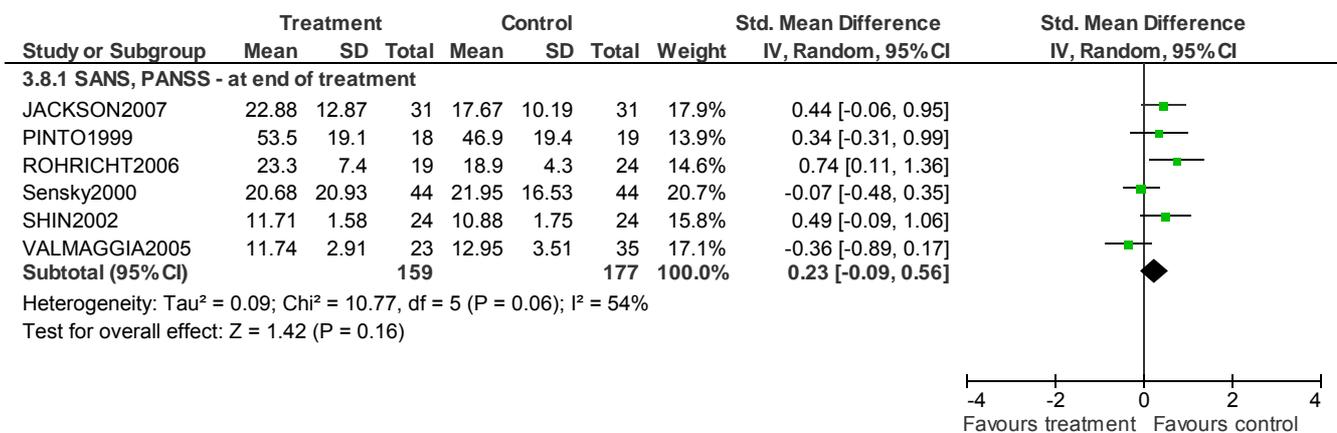


Psychological clinical evidence: Counselling and supportive therapy

3.7 Mental state: 1. Continuous measures - total symptom score (at FU)

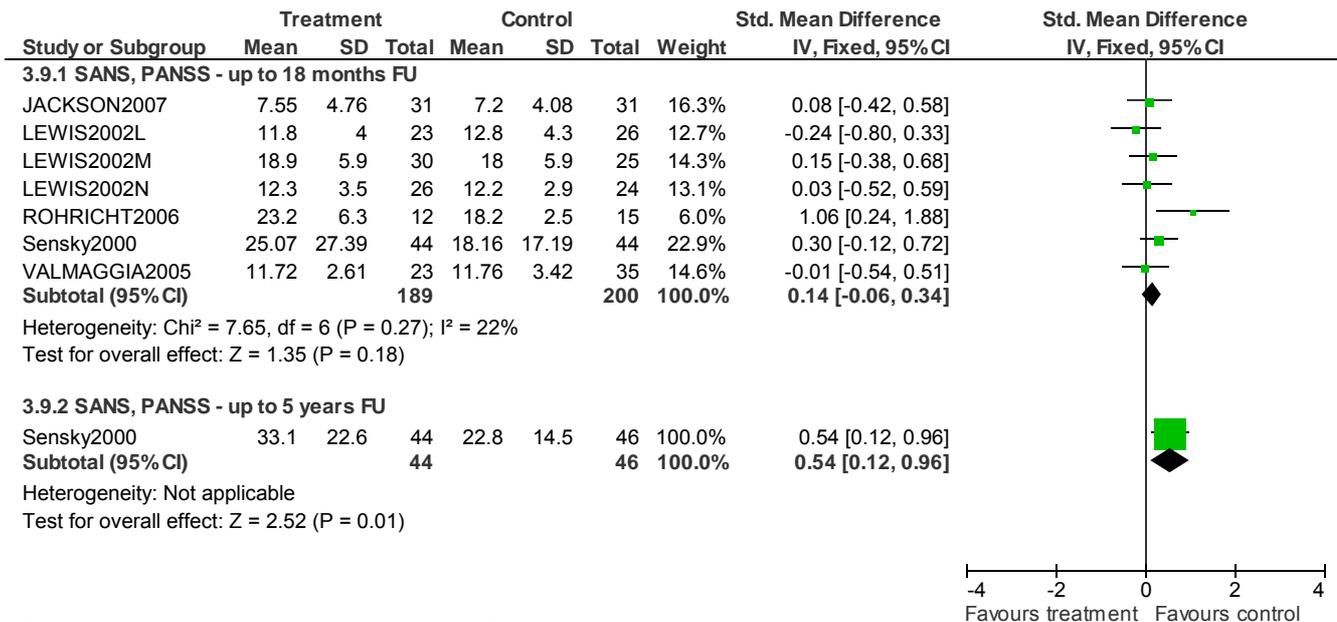


3.8 Mental state: 2. Continuous measures - negative symptoms (lower=better)

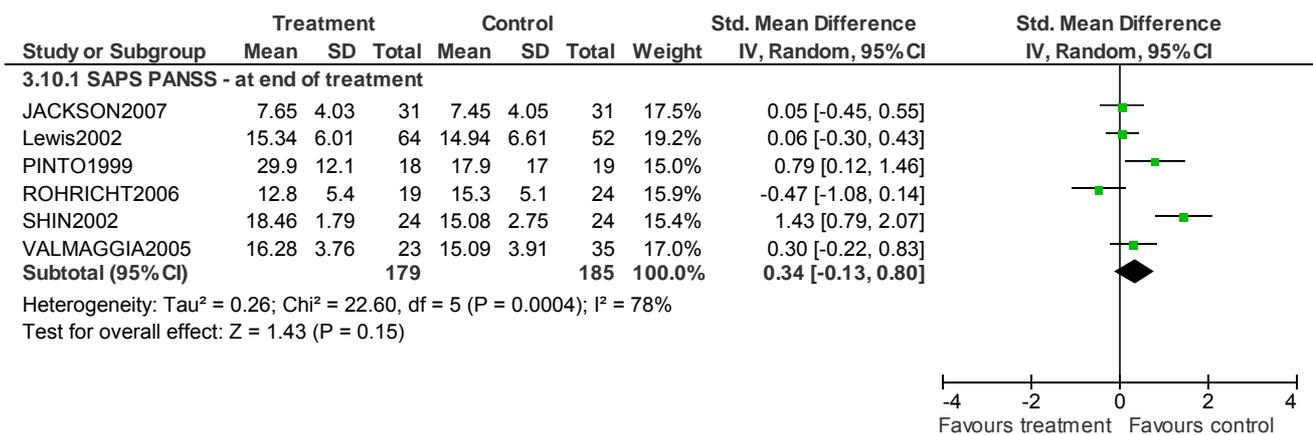


Psychological clinical evidence: Counselling and supportive therapy

3.9 Mental state: 2. Continuous measures - negative symptoms (at FU)

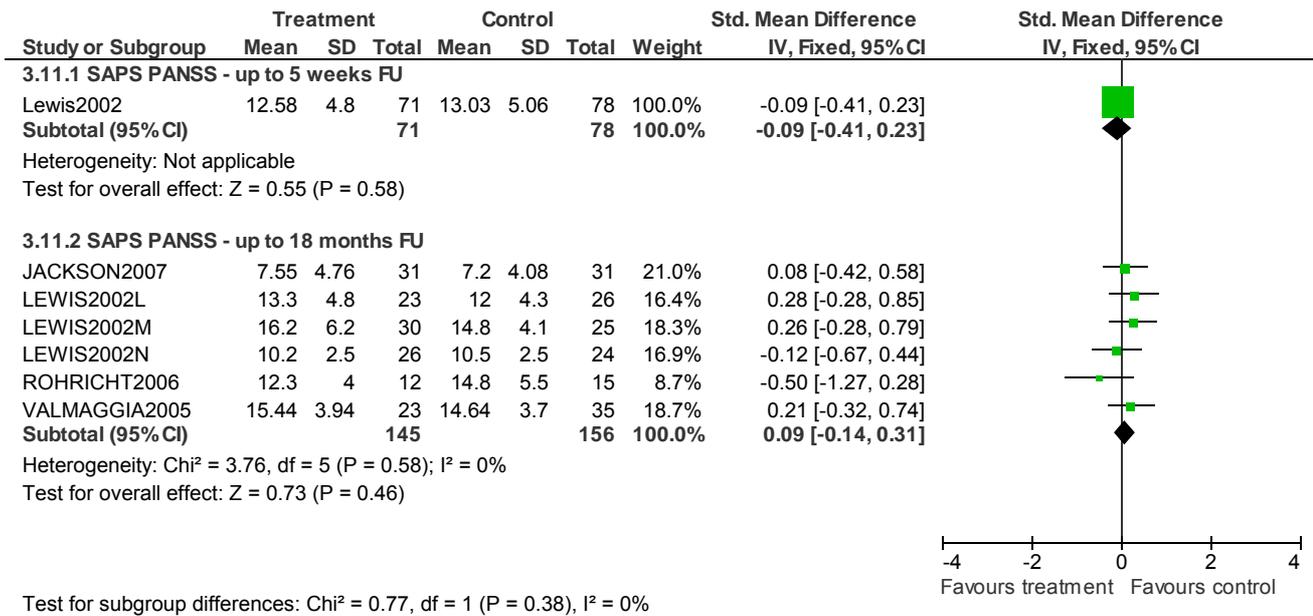


3.10 Mental state: 3. Continuous measures - positive symptoms (lower = better)

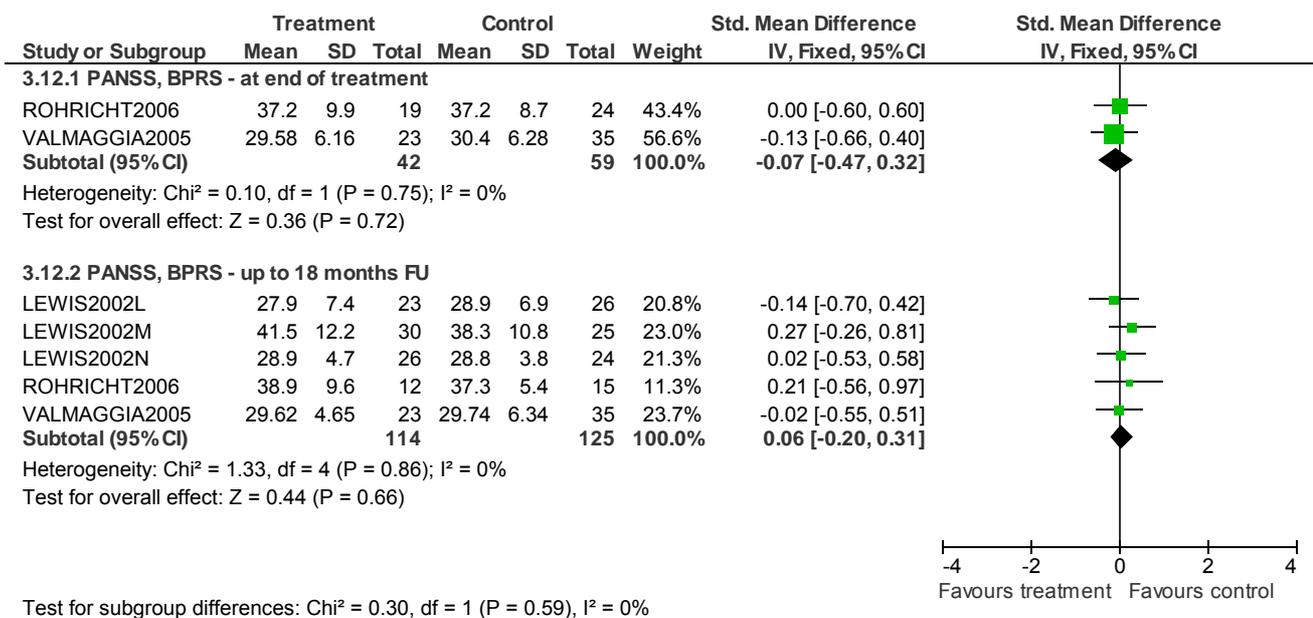


Psychological clinical evidence: Counselling and supportive therapy

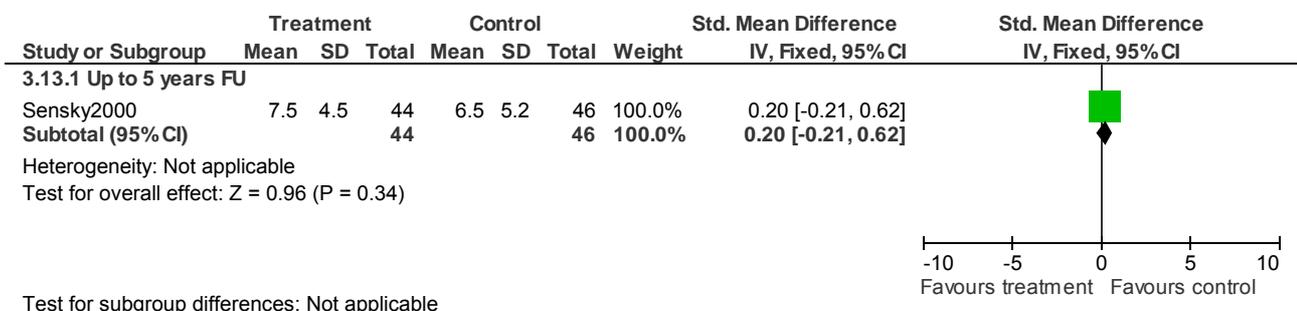
3.11 Mental state: 3. Continuous measures - positive symptoms (at FU)



3.12 Mental state: 4. Continuous measures - general symptoms (lower = better)

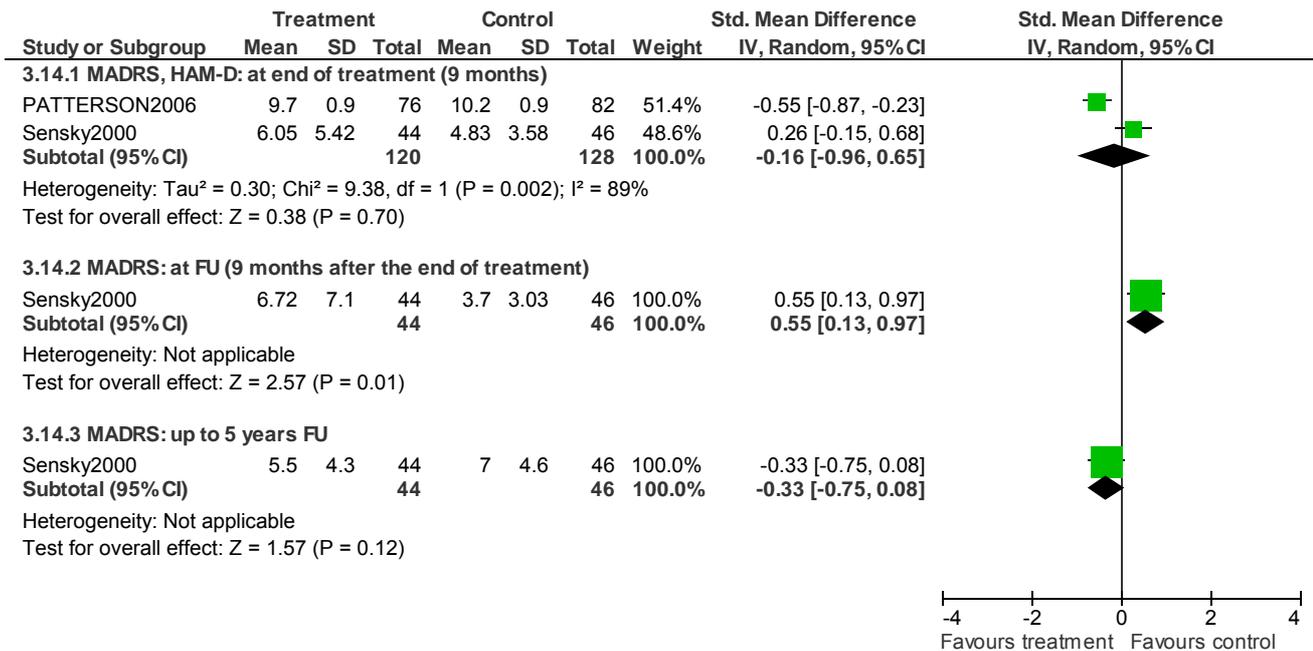


3.13 Mental state: 7. Continuous measures - symptoms of schizophrenia

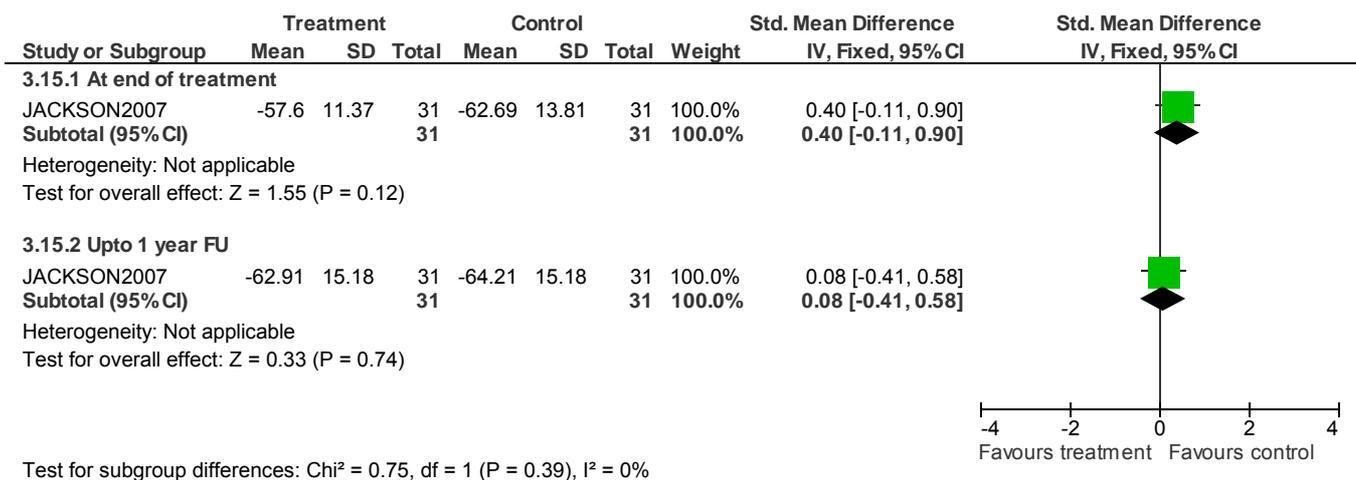


Psychological clinical evidence: Counselling and supportive therapy

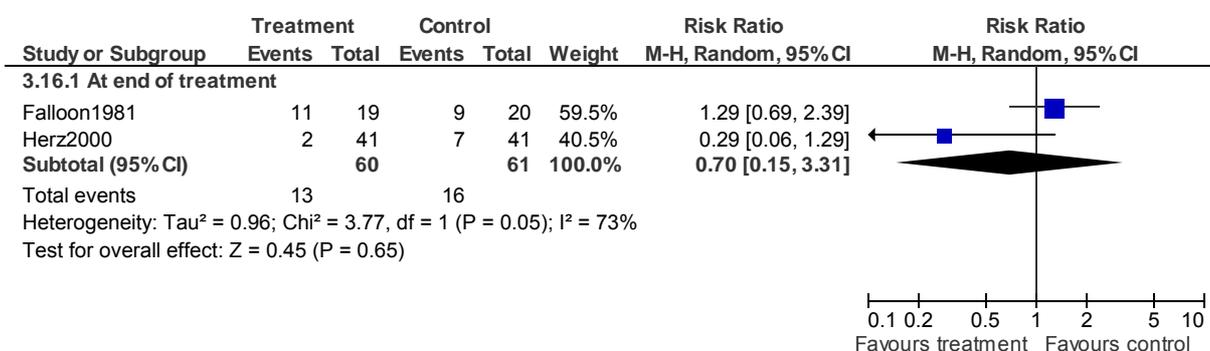
3.14 Mental state: 8. Depression (MADRS, HAM-D) (lower=better)



3.15 Psychosocial functioning: 1. SOFAS (signs reversed)

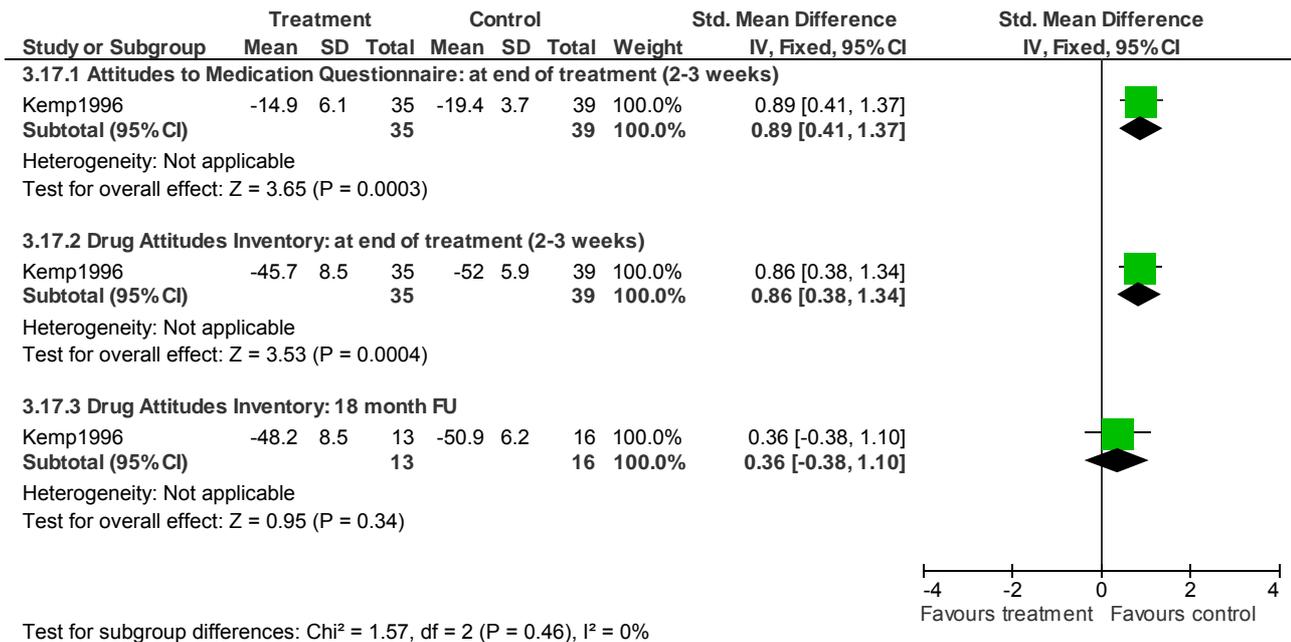


3.16 Adherence: 1. Nonadherence with medication

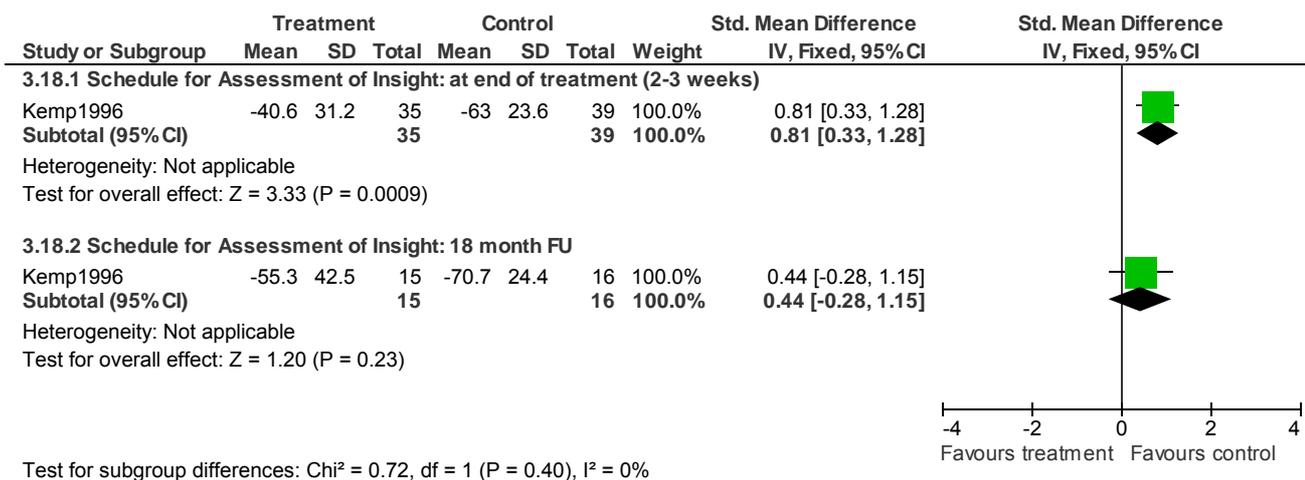


Psychological clinical evidence: Counselling and supportive therapy

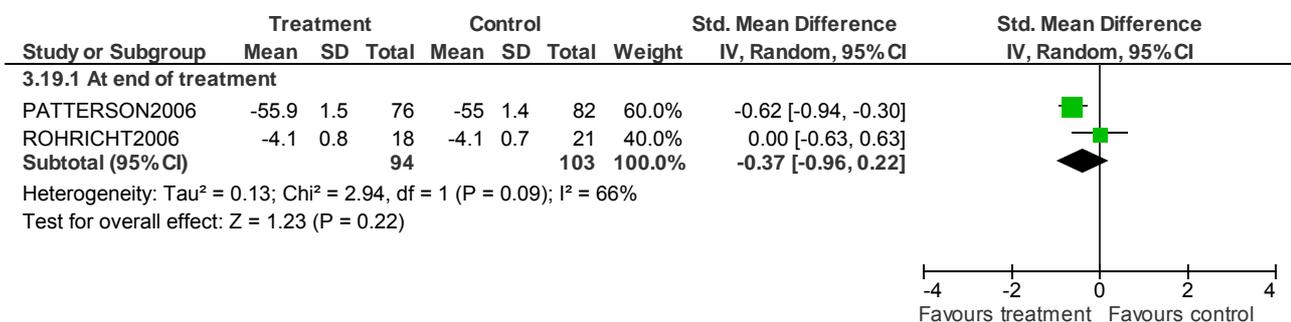
3.17 Adherence: 2. Continuous measures: DAI, attitudes to medication (signs reversed)



3.18 Insight: 1. Schedule for Assessment of Insight (signs reversed)

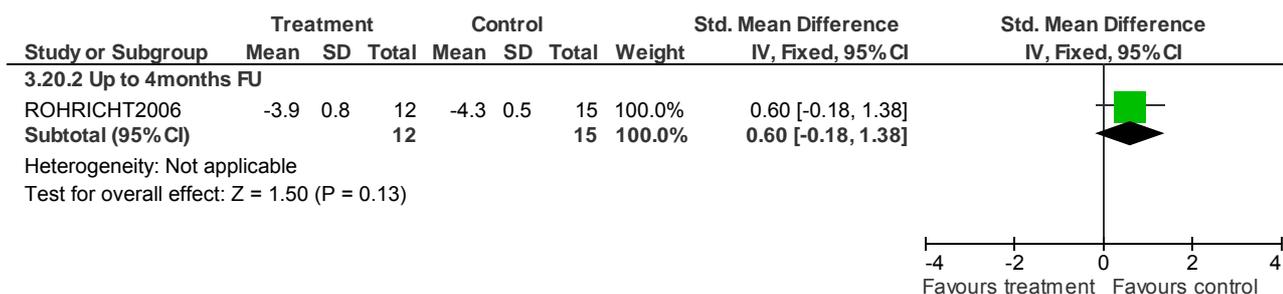


3.19 Quality of Life: 1. MANSA, QWB - end of treatment (signs reversed)

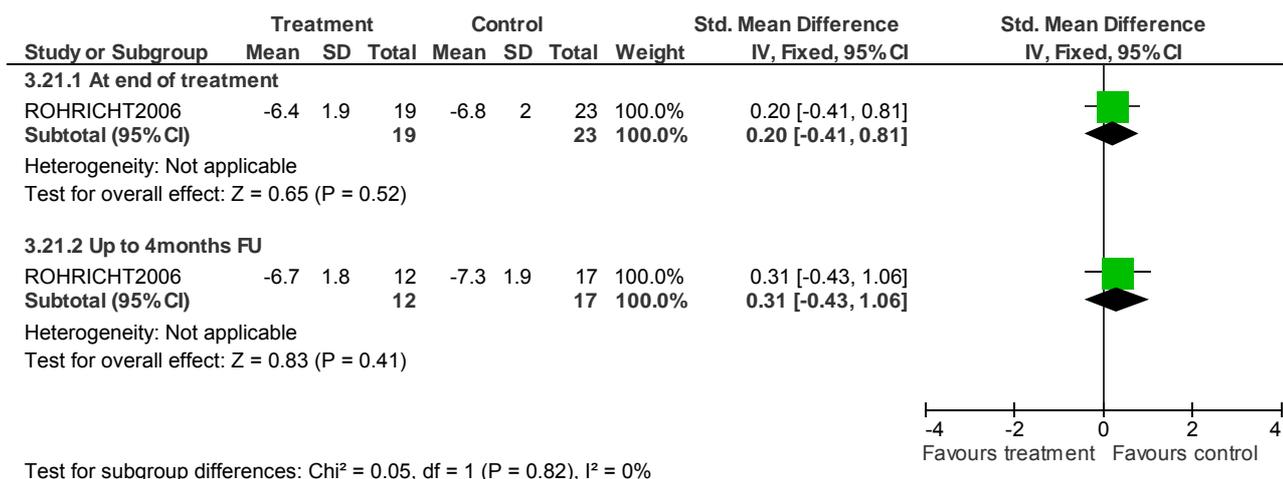


Psychological clinical evidence: Counselling and supportive therapy

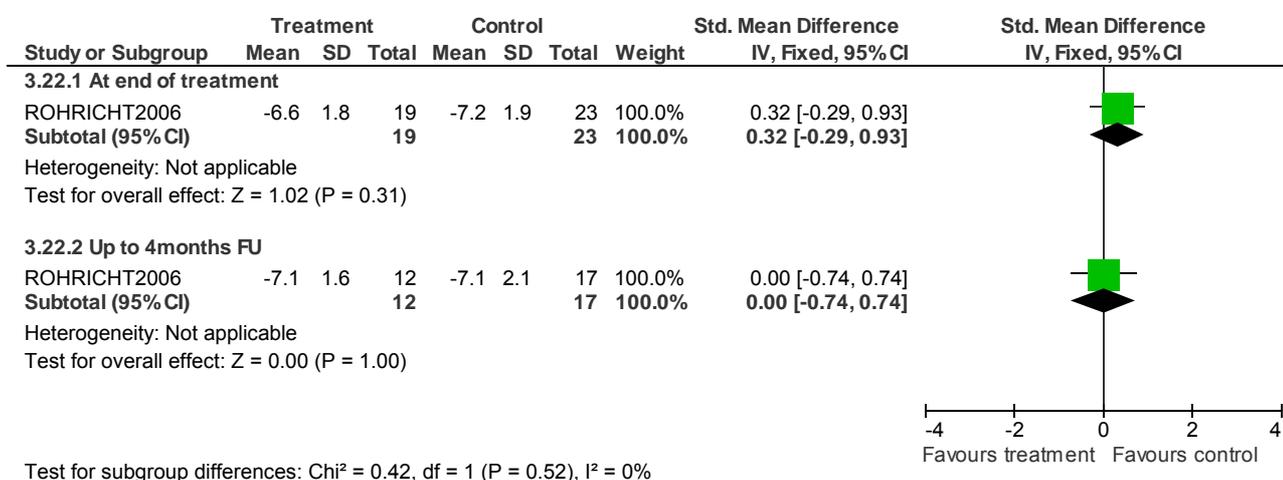
3.20 Quality of Life: 1. MANSA, QWB - FU (signs reversed)



3.21 Satisfaction with treatment - service user satisfaction (CAT) (signs reversed)

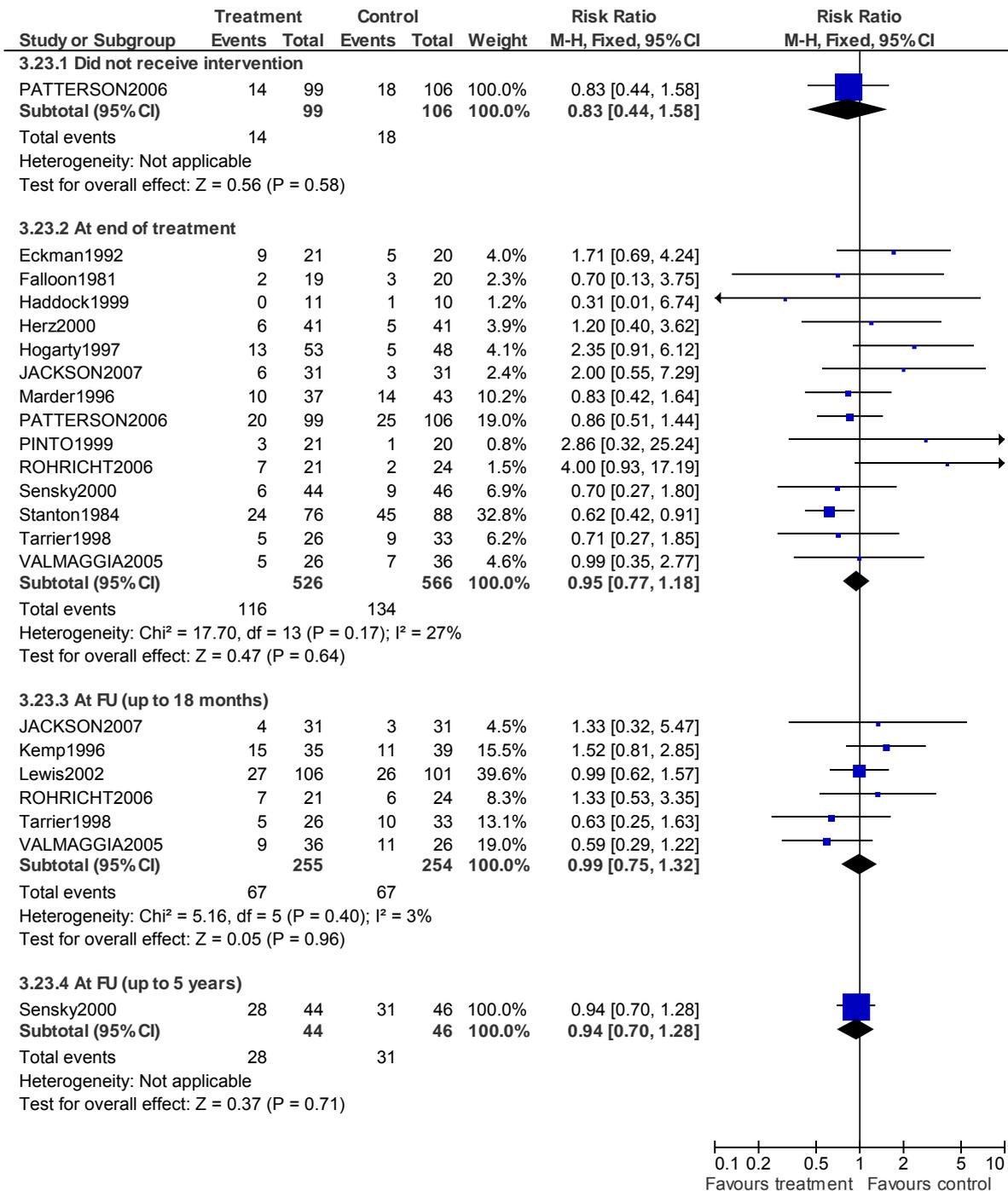


3.22 Satisfaction with treatment - rating of the therapeutic relationship (signs reversed)



Psychological clinical evidence: Counselling and supportive therapy

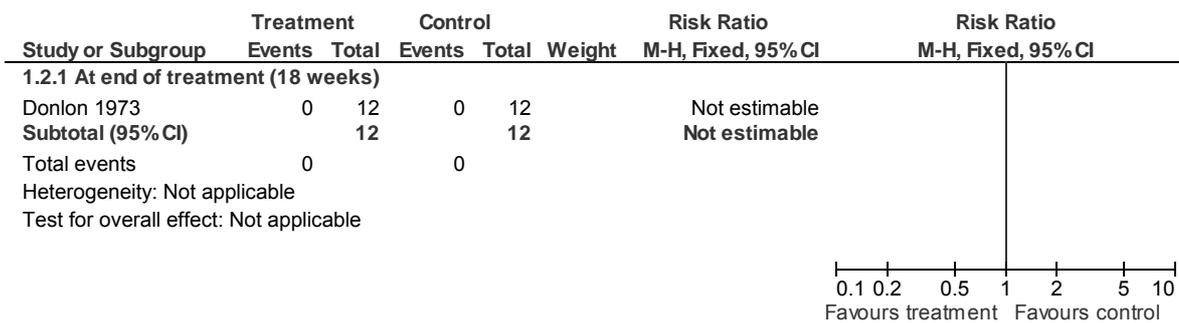
3.23 Treatment acceptability - leaving the study early for any reason



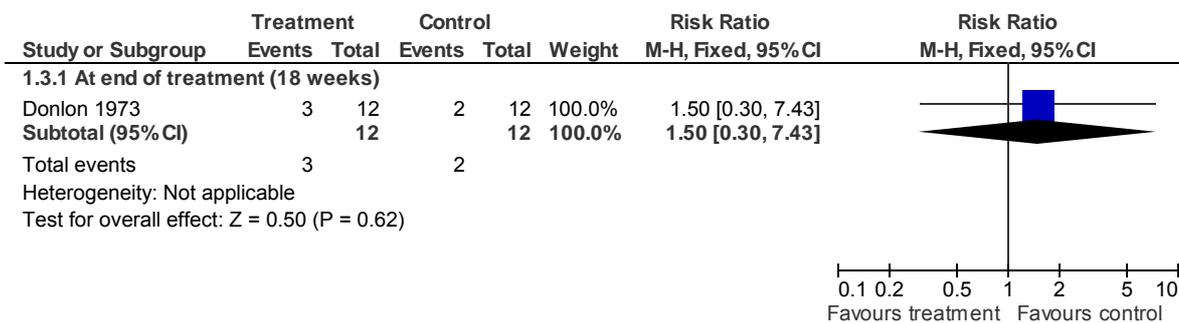
Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

1 Group versus individual counselling and supportive therapy

1.2 Service outcomes: 1. Readmission

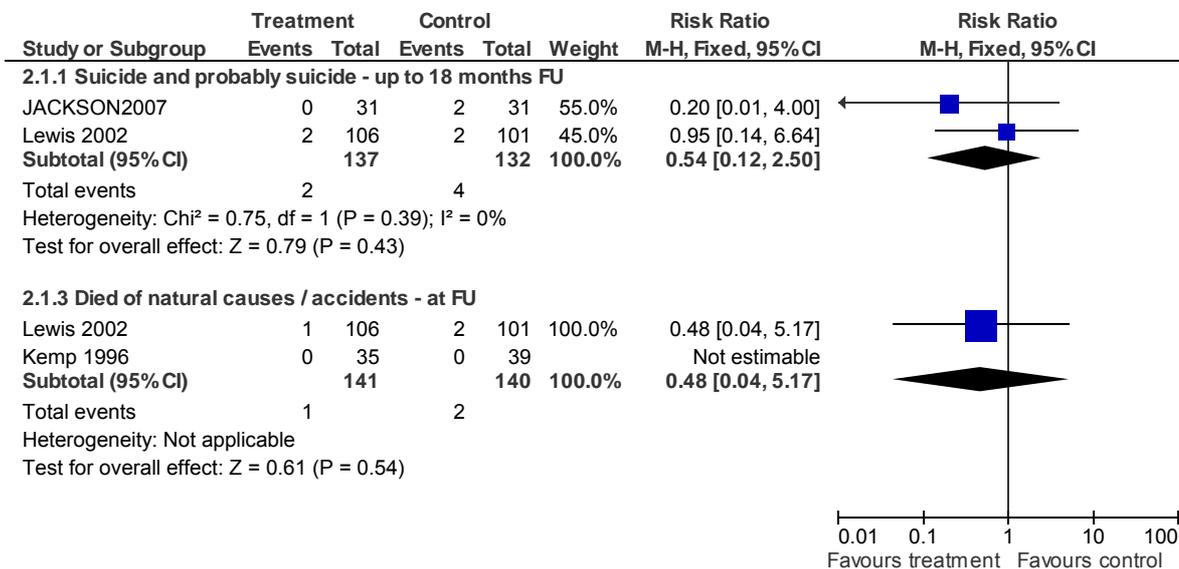


1.3 Treatment acceptability: 1. Leaving the study early for any reason



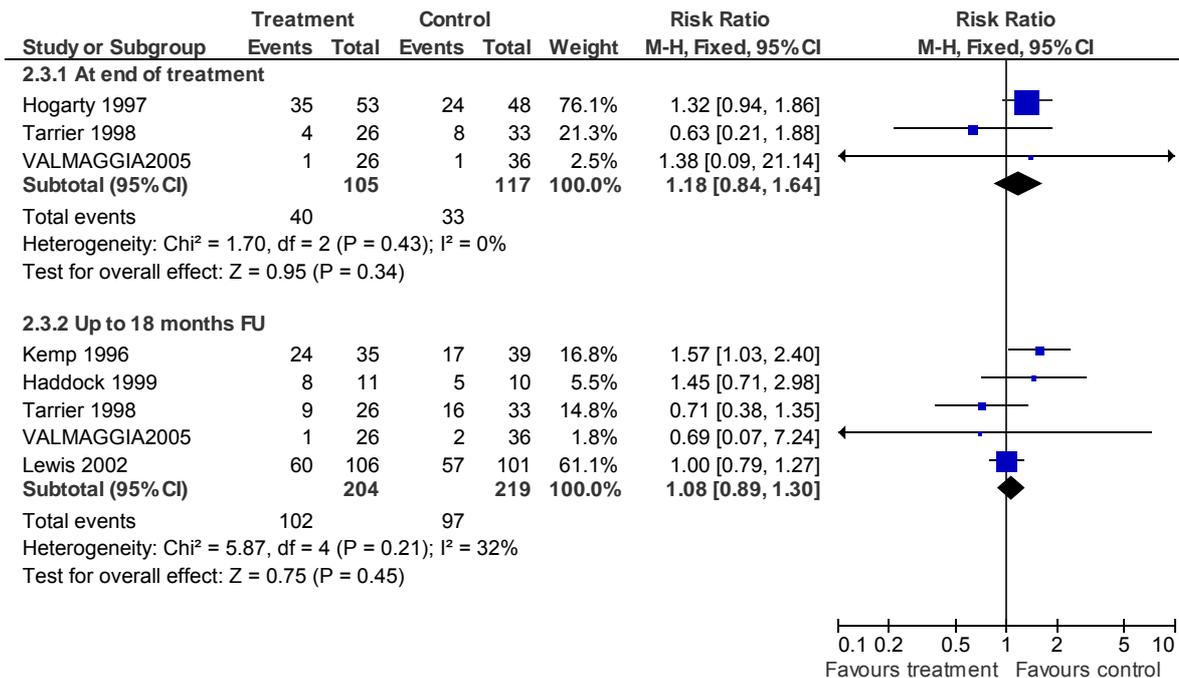
2 Counselling and supportive therapy versus CBT

2.1 Mortality

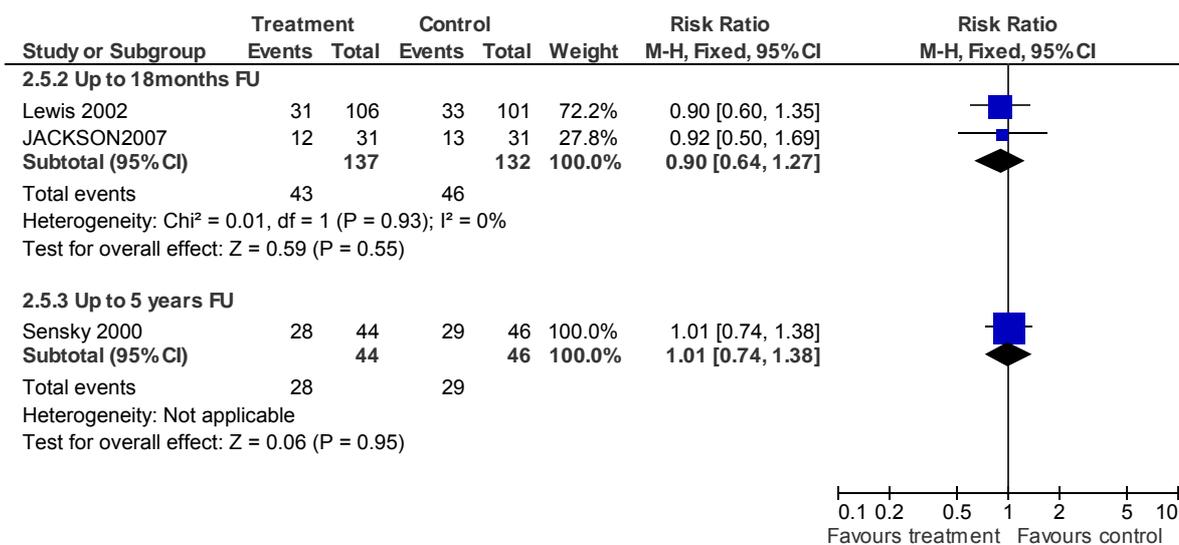


Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

2.3 Global State: 1. Relapse

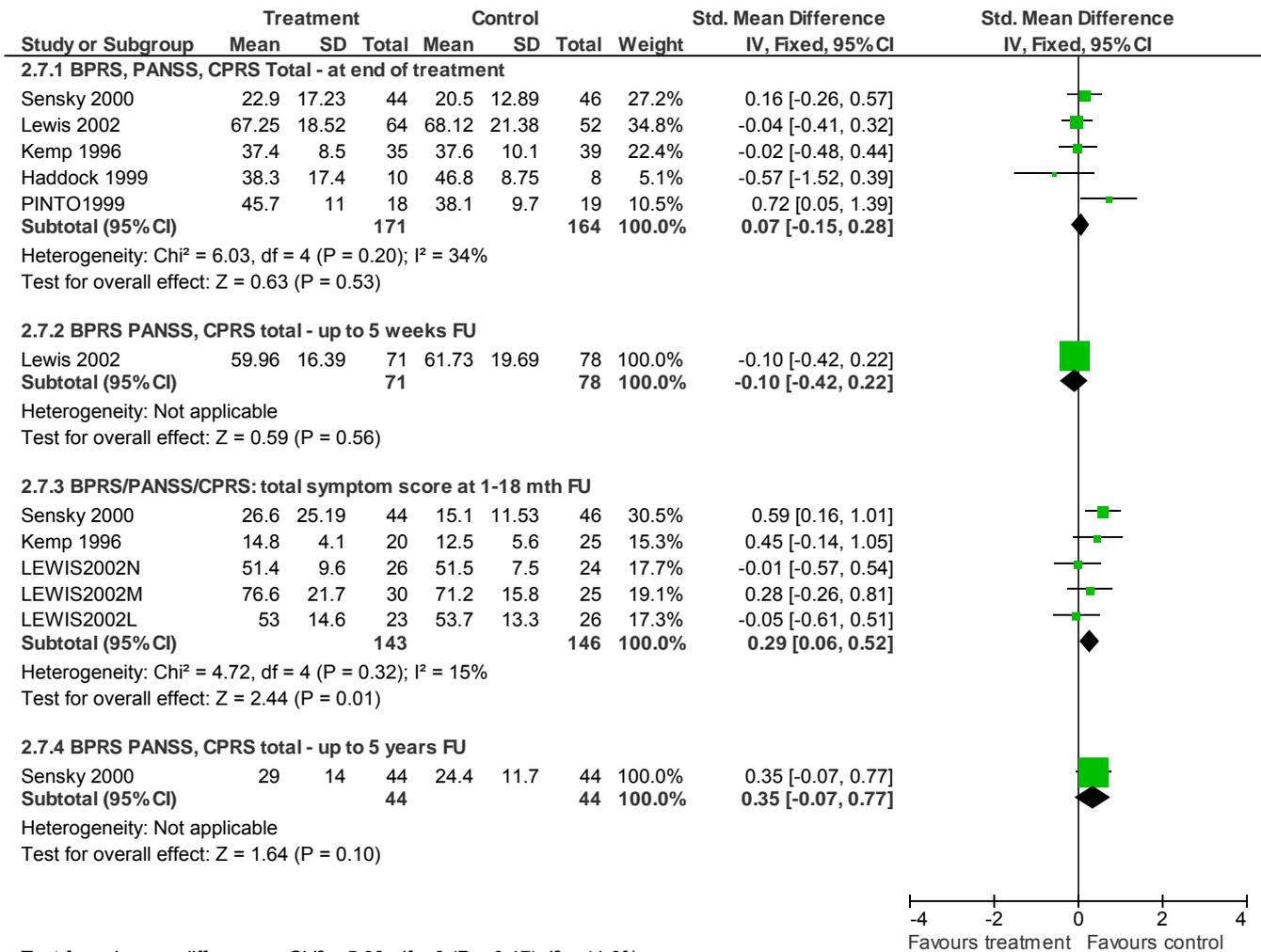


2.5 Service Outcomes: 1. Rehospitalisation

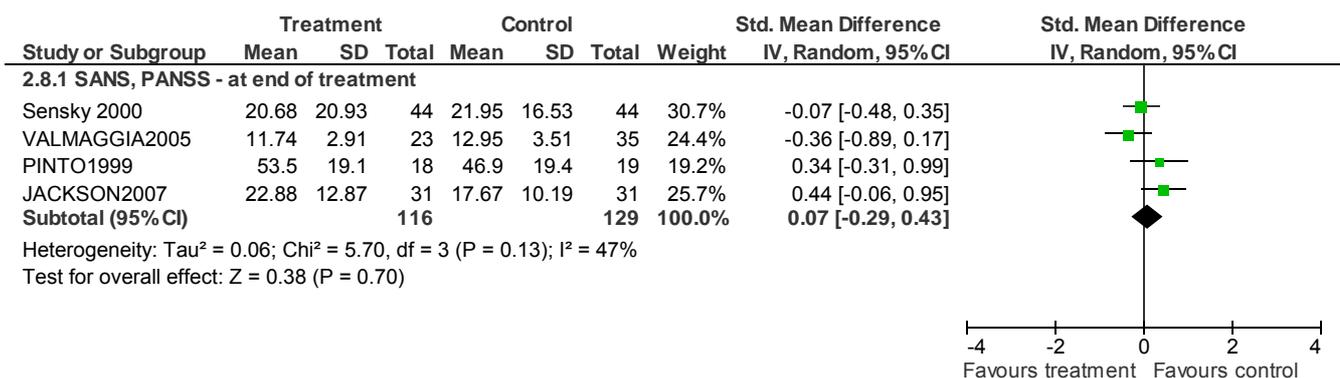


Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

2.7 Mental state: 1. Continuous measures - total symptom score (lower = better)

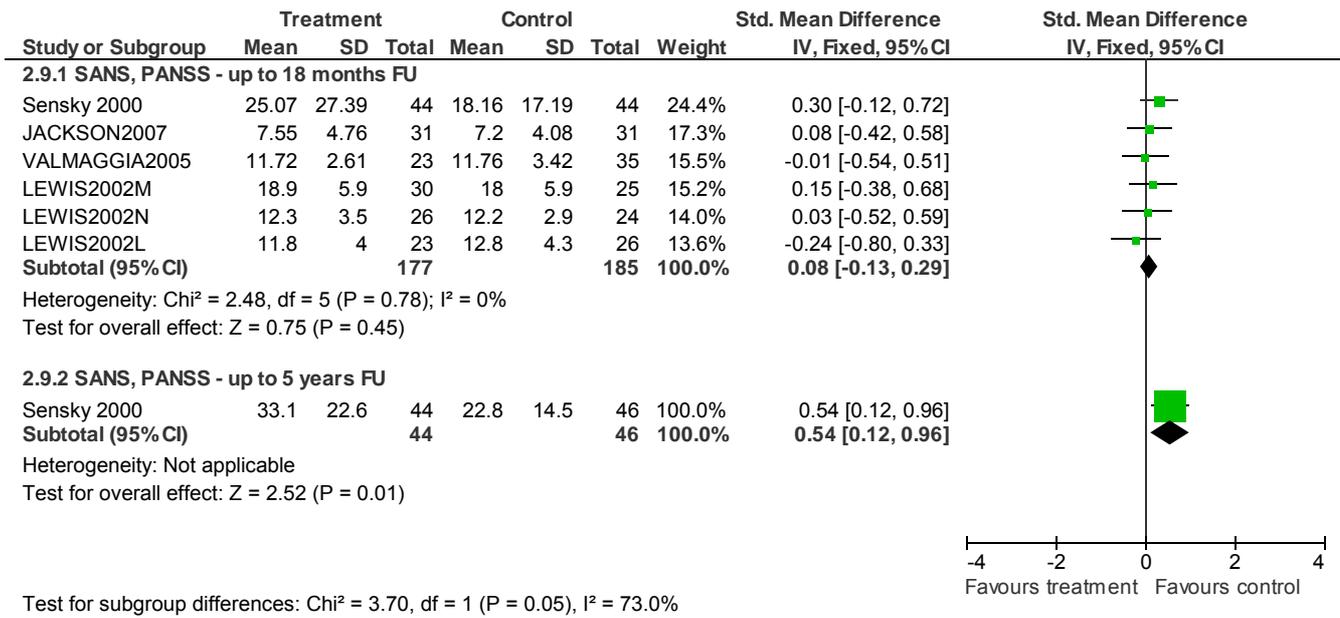


2.8 Mental state: 2. Continuous measures - negative symptoms (lower = better)



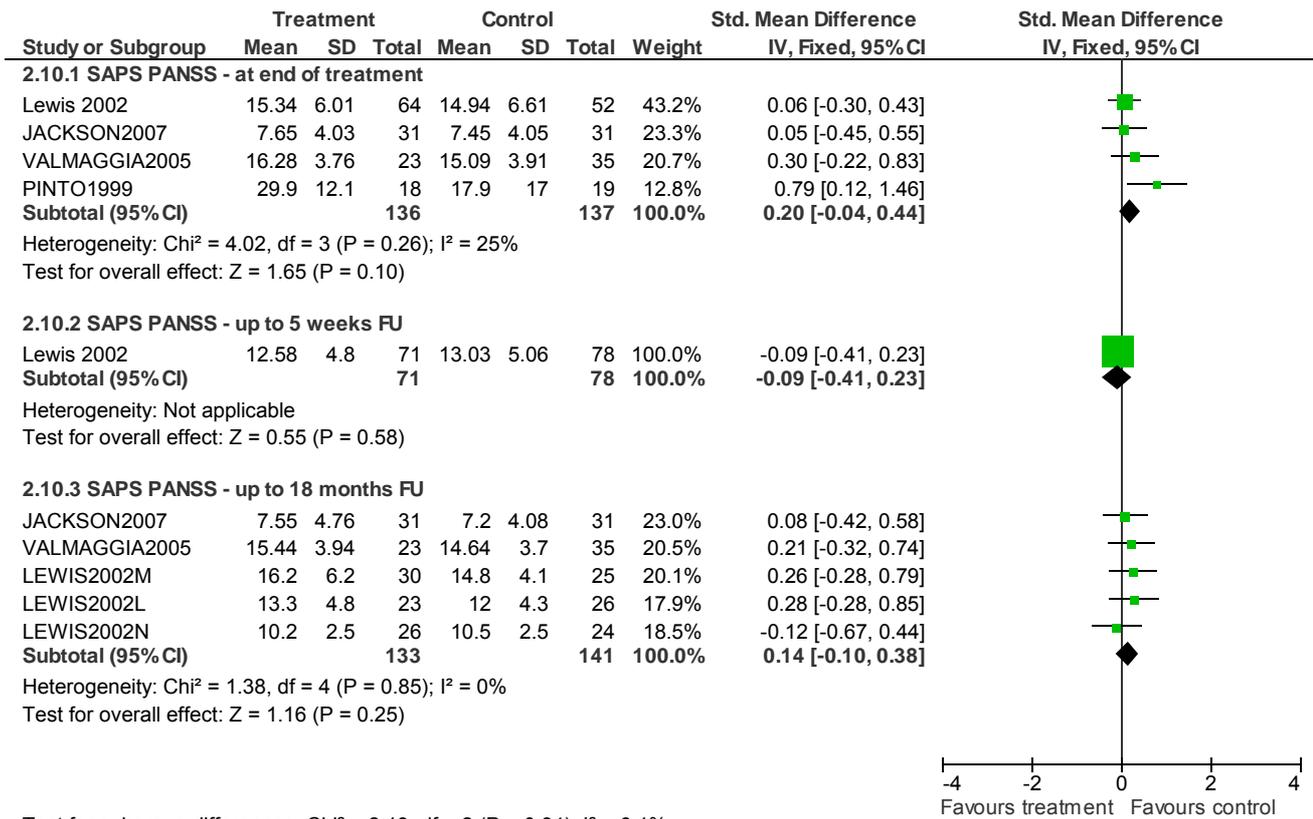
Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

2.9 Mental state: 2. Continuous measures - negative symptoms (at FU)

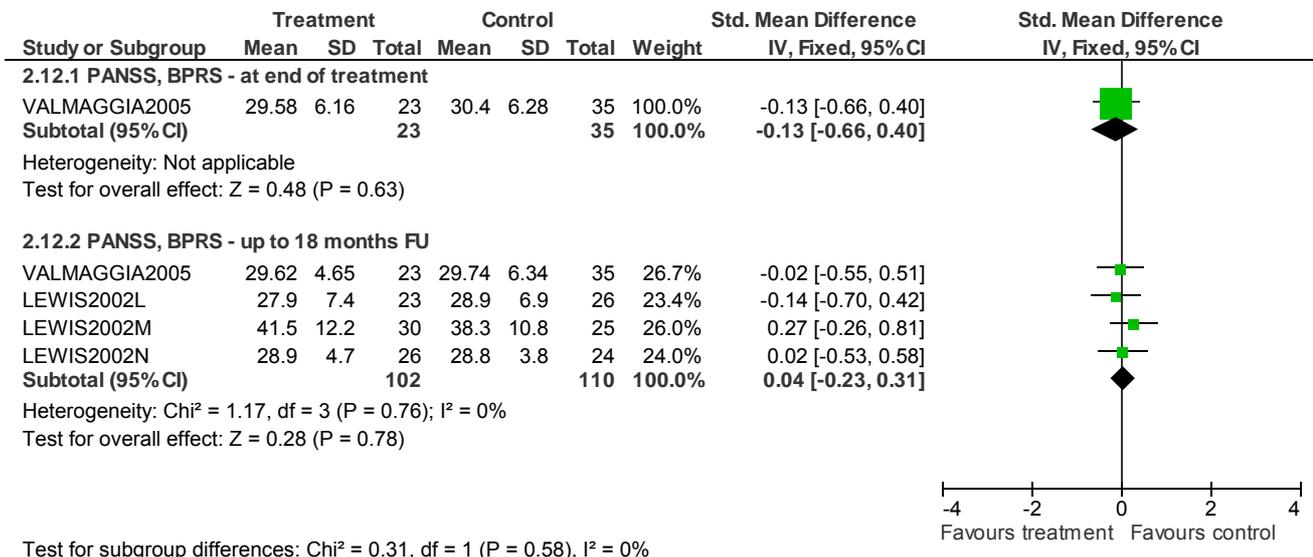


Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

2.10 Mental state: 3. Continuous measures - positive symptom score (lower = better)

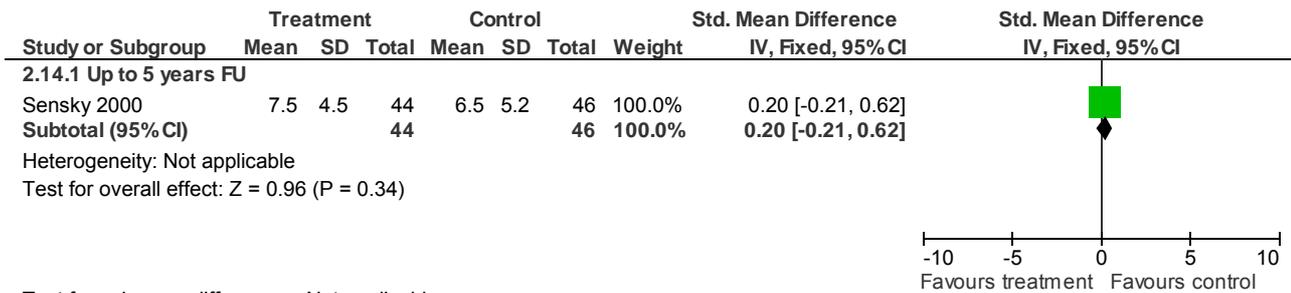


2.12 Mental state: 4. Continuous measures - general symptom score (lower = better)

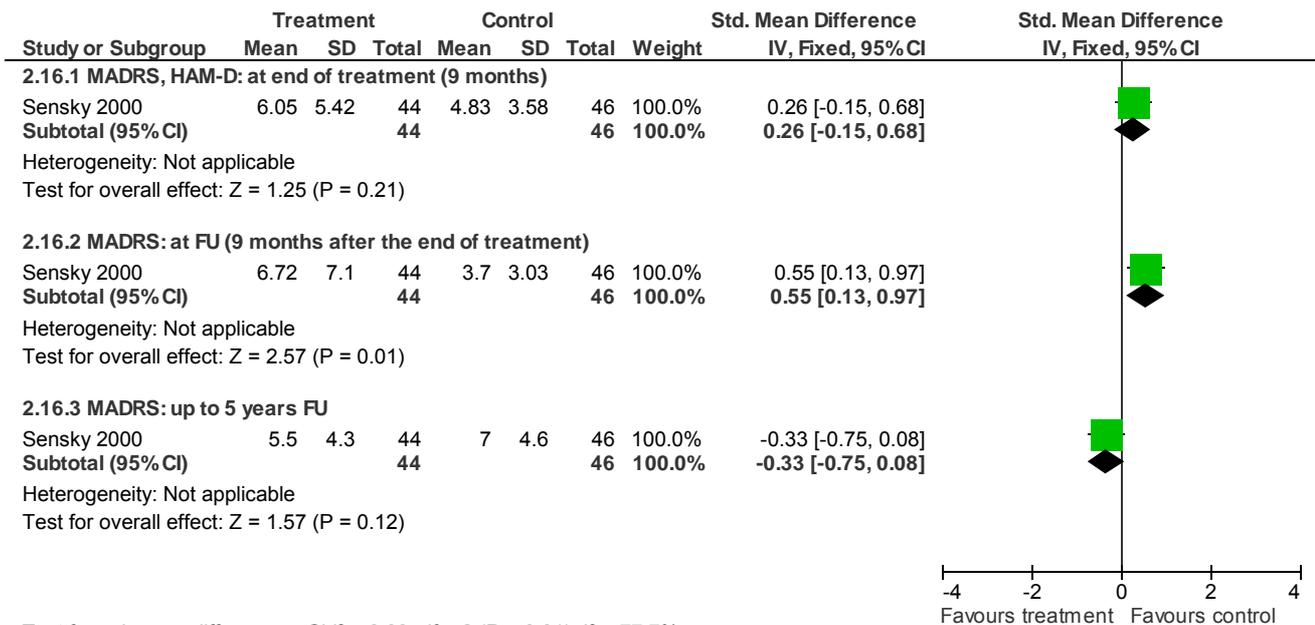


Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

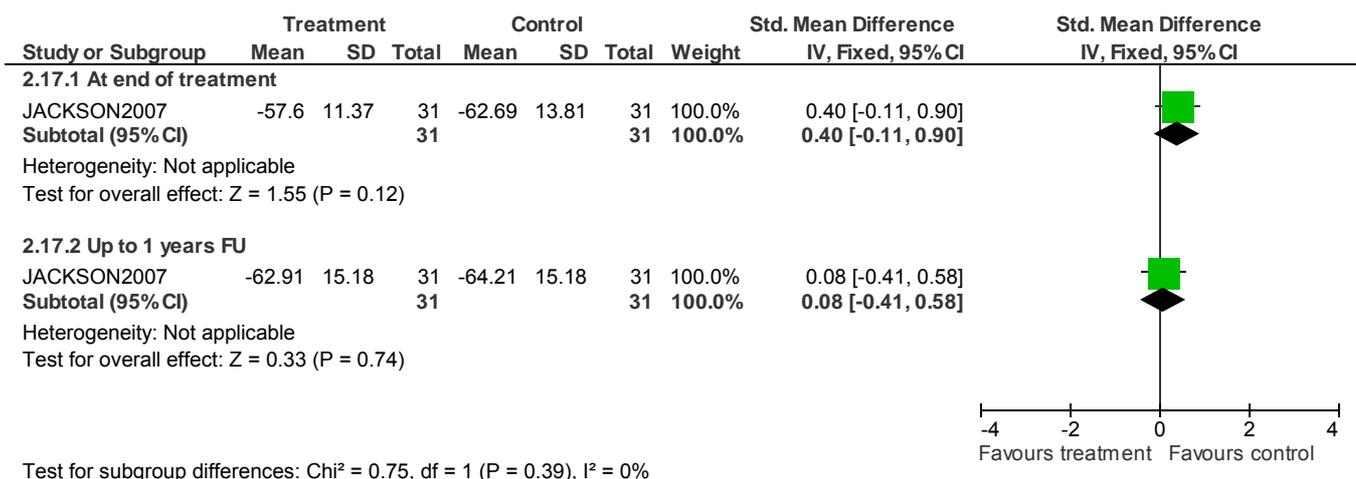
2.14 Mental state: 5. Continuous measures - symptoms of schizophrenia



2.16 Mental state: 6. Depression (MADRS, HAM-D) (lower = better)

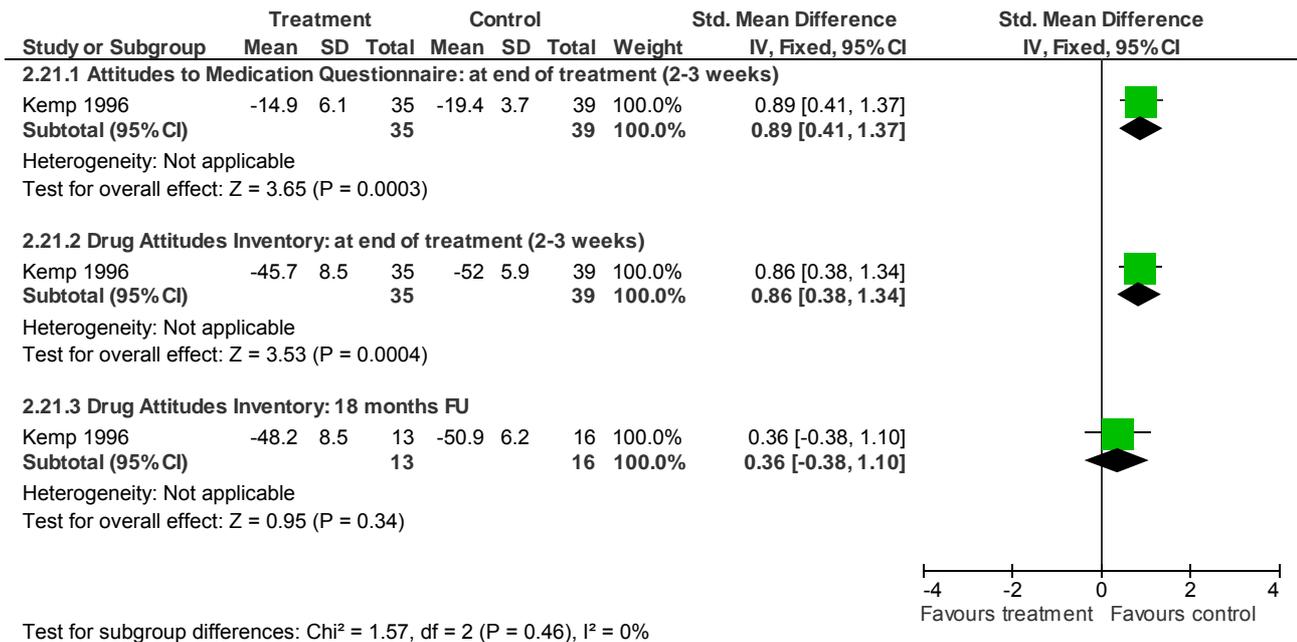


2.17 Psychosocial Functioning: 1. SOFAS (signs reversed)

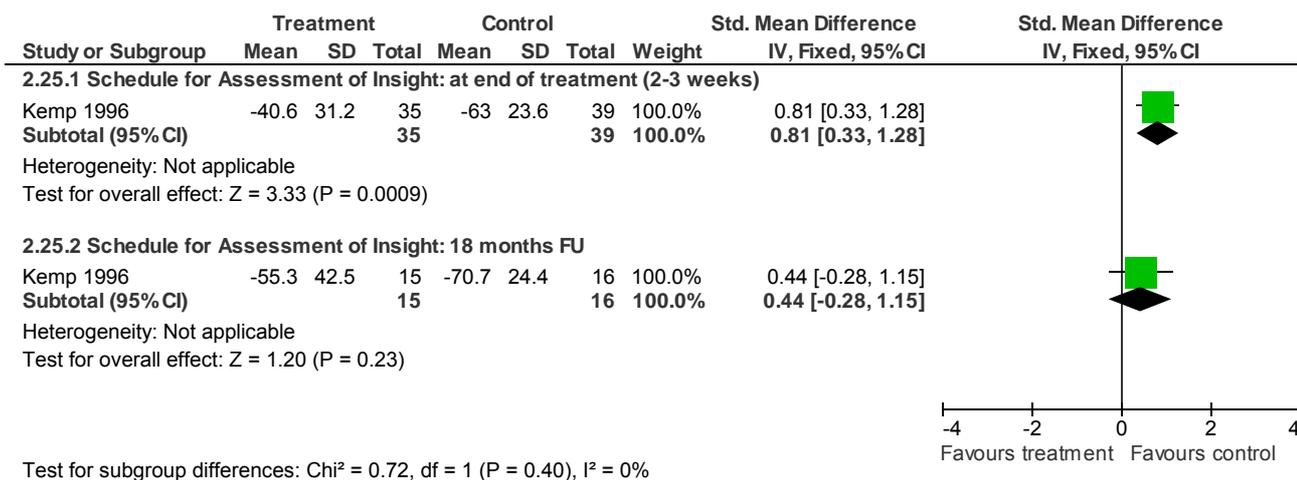


Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

2.21 Adherence: 1. Continuous measures: DAI, attitudes to medication (signs reversed)



2.25 Insight: 1. Schedule for Assessment of Insight (signs reversed)



Psychological clinical evidence: Counselling and supportive therapy (subgroup analyses)

2.80 Treatment acceptability: 1. Leaving the study early for any reason

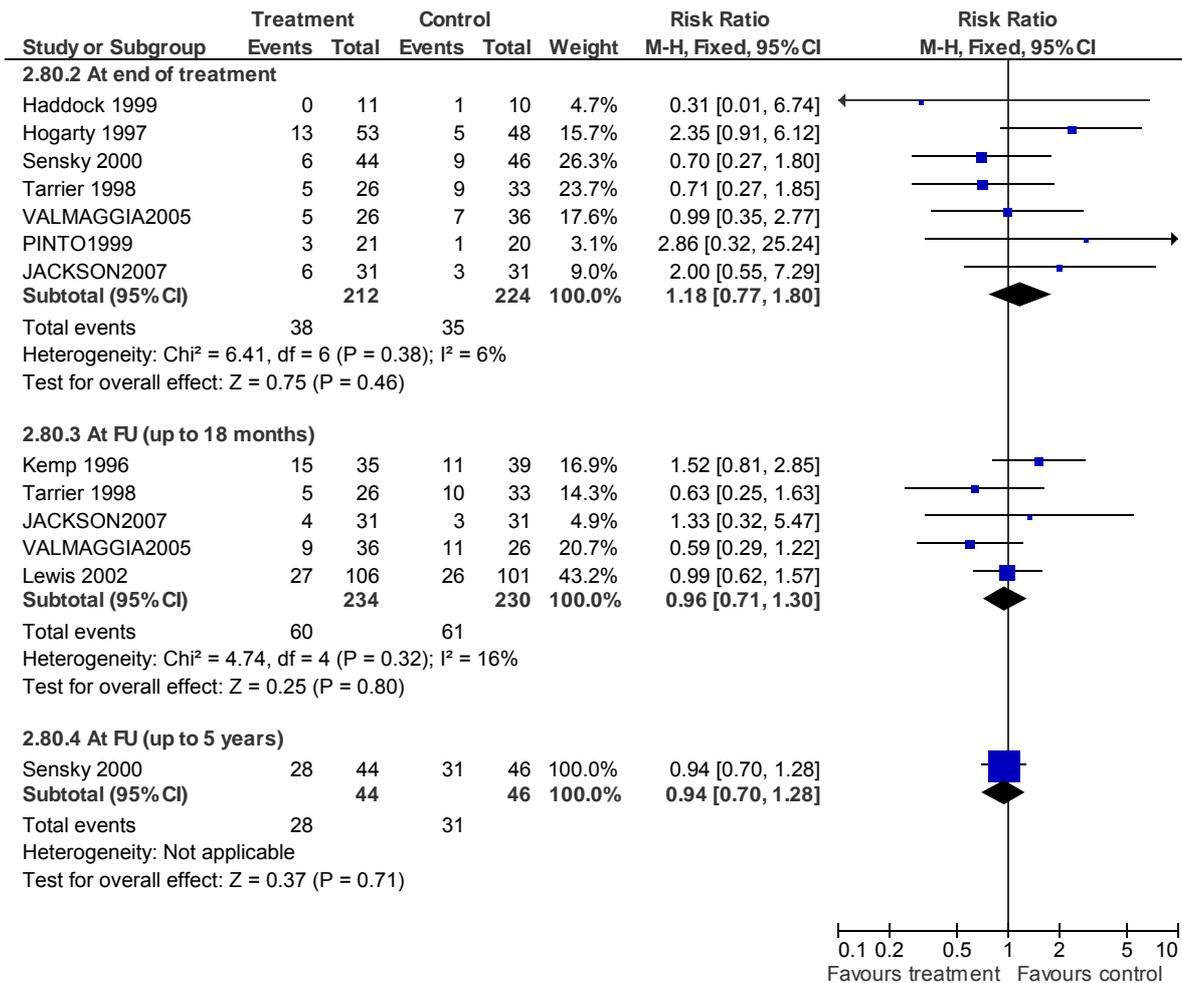


Table 6: Studies included in the family intervention review

Intervention	versus Comparator
	Any control
Family intervention	Barrowclough1999 Bloch1995 BRADLEY2006 BRESSI2008 Buchkremer1995 CARRA2007 CHIEN2004A CHIEN2004B CHIEN2007 Dyck2000 Falloon1981 GARETY2008 Glynn1992 Goldstein1978 Herz2000 * Hogarty1997 JENNER2004 * KOPELOWICZ2003 LEAVEY2004 Leff1982 LI2005 LINSZEN1996 * Lukoff1986 * MAGLIANO2006 RAN2003 SO2006 SZMUKLER2003 Tarrier1988 VALENCIA2007 * Vaughan1992 Xiong1994 Zhang1994
	Standard care
Family intervention	Barrowclough1999 Bloch1995 BRADLEY2006 BRESSI2008 Buchkremer1995 CARRA2007 CHIEN2004A CHIEN2004B CHIEN2007 Dyck2000 GARETY2008 Glynn1992 Goldstein1978 JENNER2004 KOPELOWICZ2003 LEAVEY2004 Leff1982 LI2005

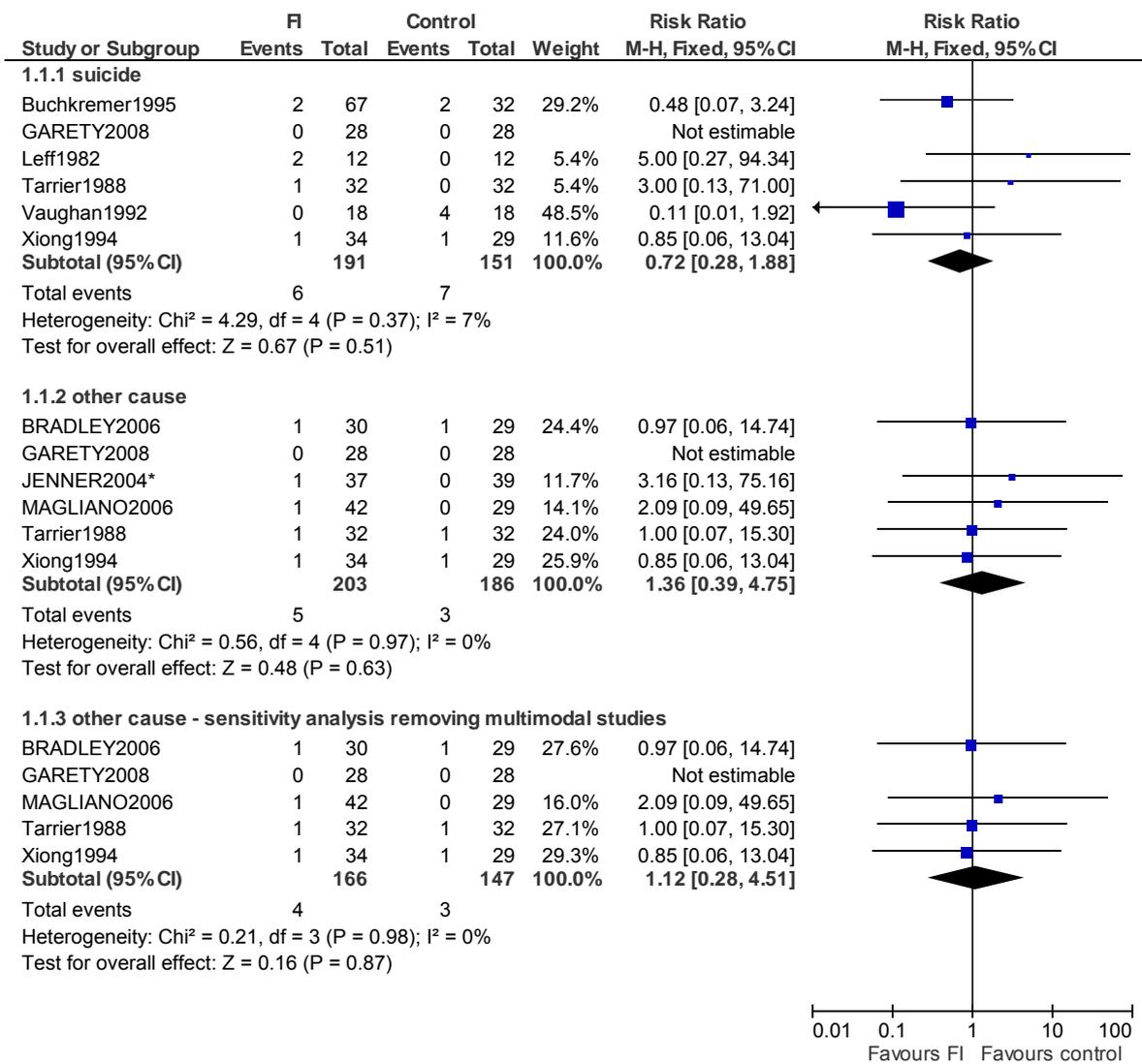
Psychological clinical evidence: Family intervention

	MAGLIANO2006 RAN2003 SO2006 Tarrier1988 VALENCIA2007 Vaughan1992 Xiong1994 Zhang1994
	Other active treatments
Family intervention	CARRA2007 Falloon1981 GARETY2008 Herz2000 Hogarty1997 LINSZEN1996 Lukoff1986 SZMUKLER2003
	Single family intervention
Multiple family intervention	Leff1989 McFarlane1995a McFarlane1995b MONTERO2001 Schooler1997

Psychological clinical evidence: Family intervention

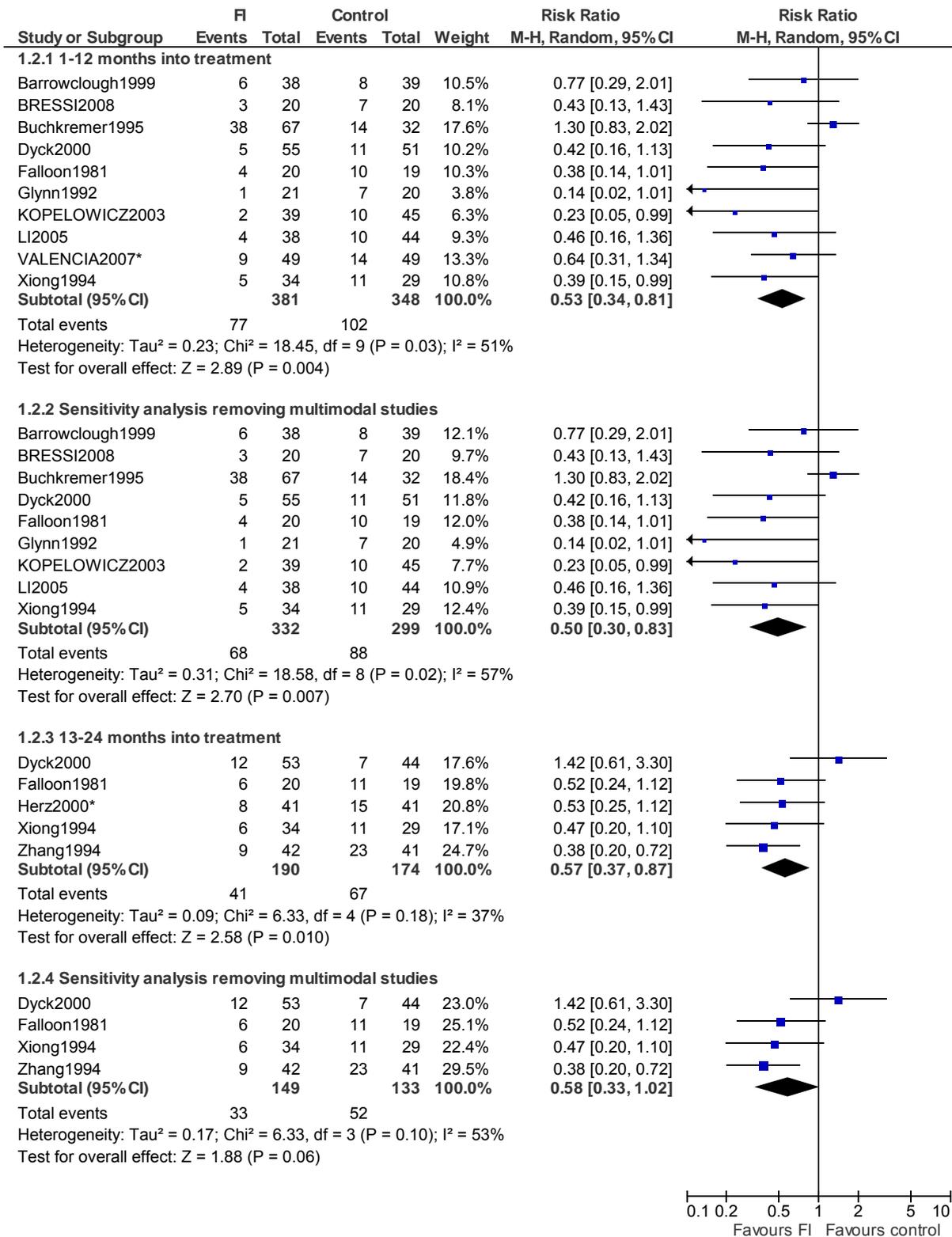
1 Family intervention versus any control (critical outcomes)

1.1 Mortality



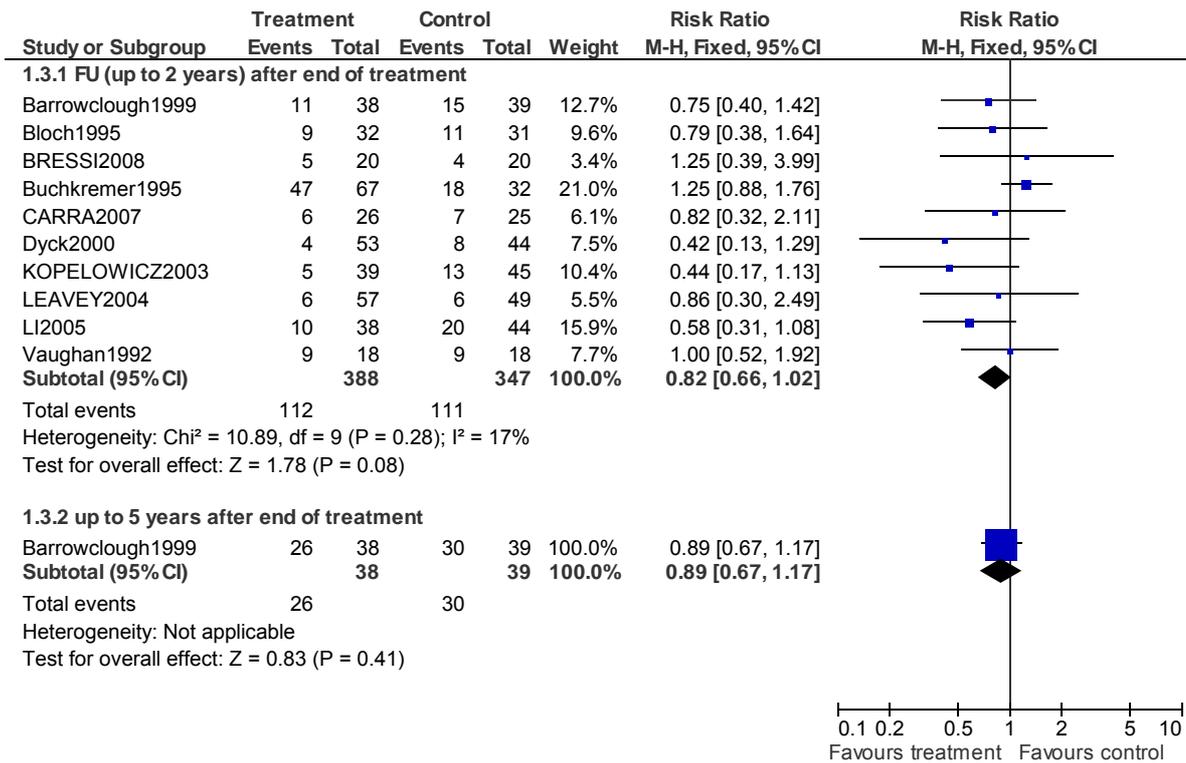
Psychological clinical evidence: Family intervention

1.2 Service outcomes: 1. Hospital admission (at end of treatment)

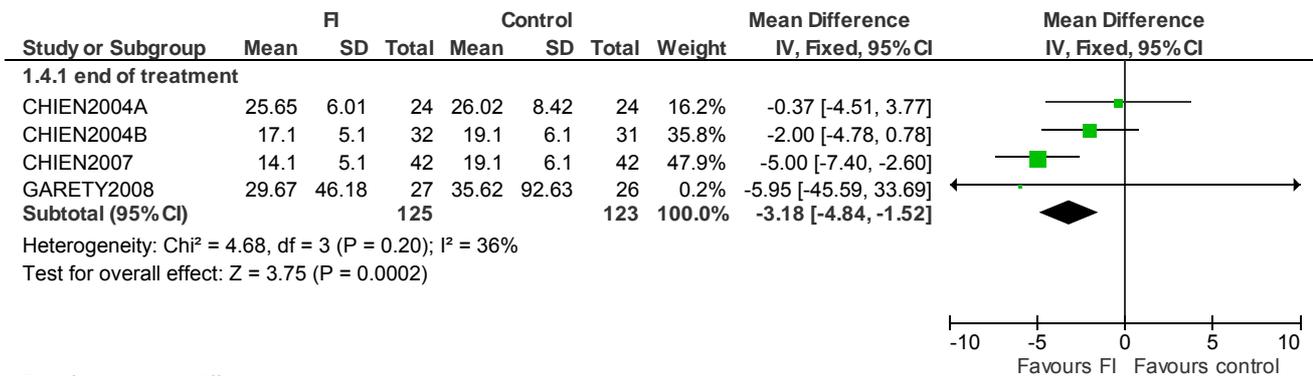


Psychological clinical evidence: Family intervention

1.3 Service outcomes: 1. Hospital admission - at FU

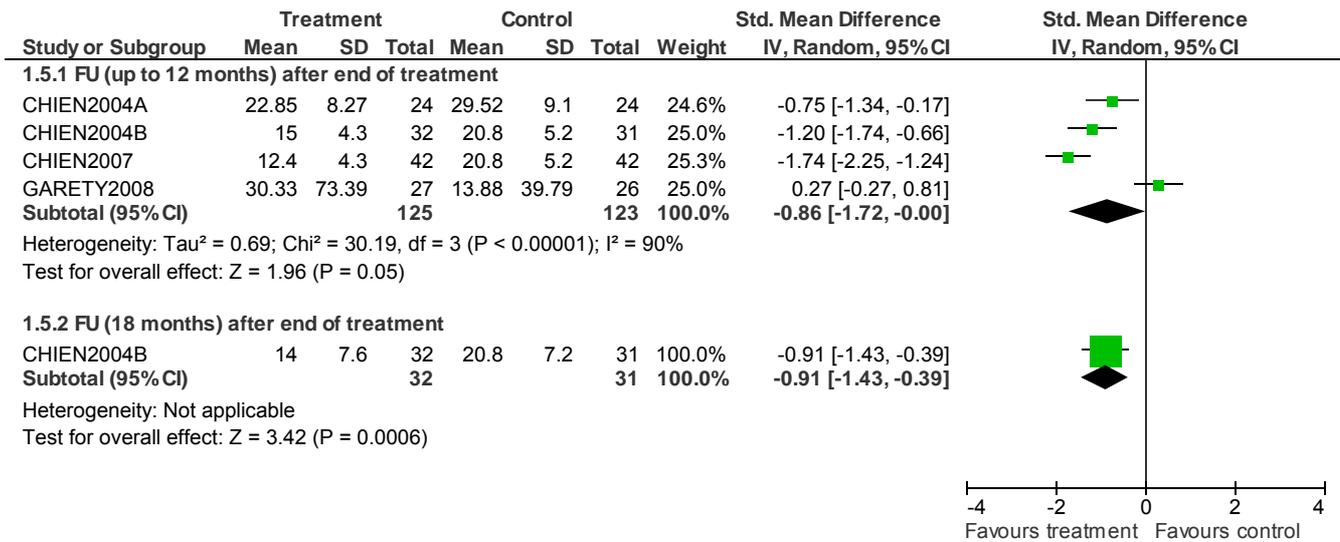


1.4 Service outcomes: 2. Duration of rehospitalisation (days)

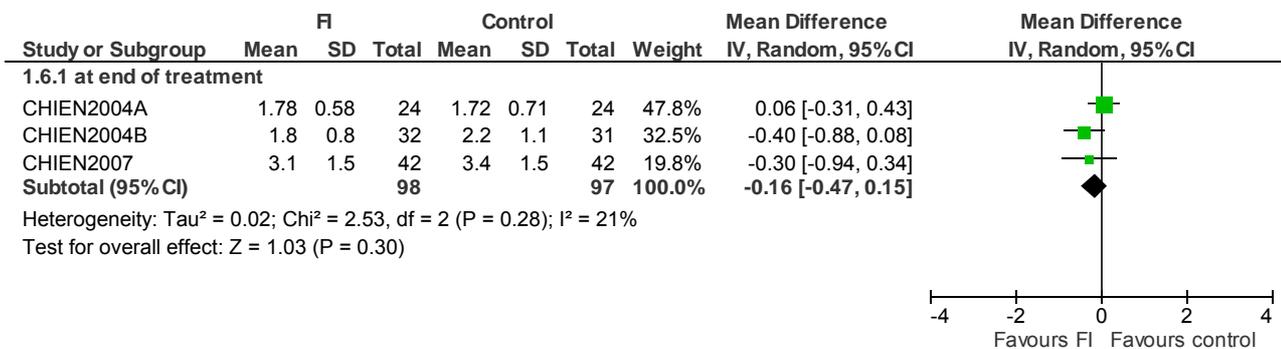


Psychological clinical evidence: Family intervention

1.5 Service outcomes: 2. Duration of rehospitalisation (days) - at FU

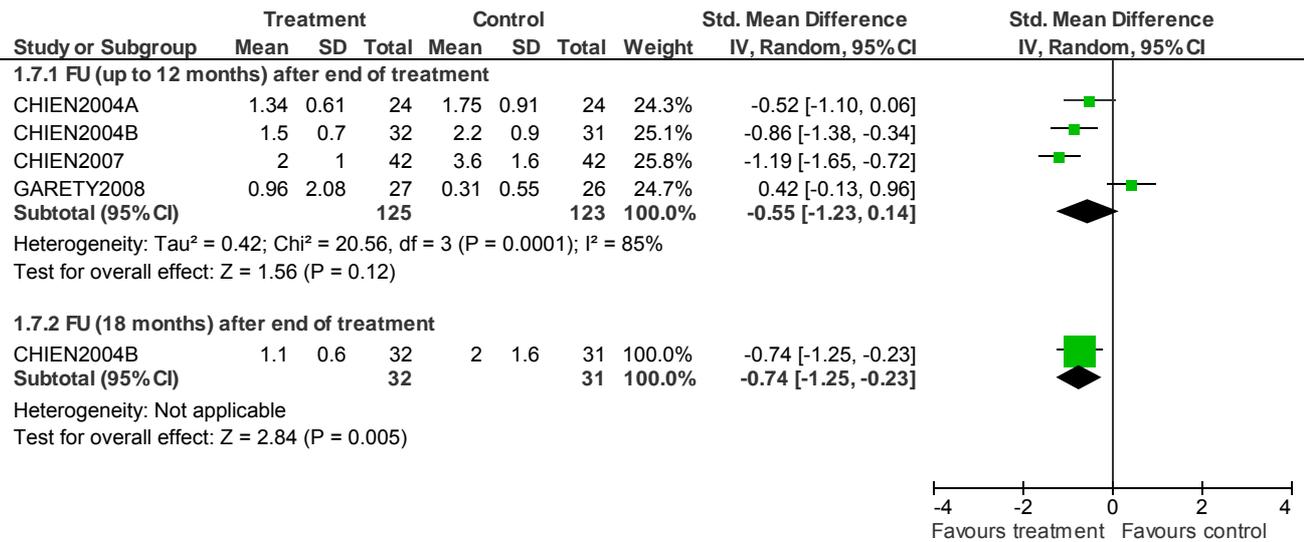


1.6 Service outcomes: 3. Number of rehospitalisation

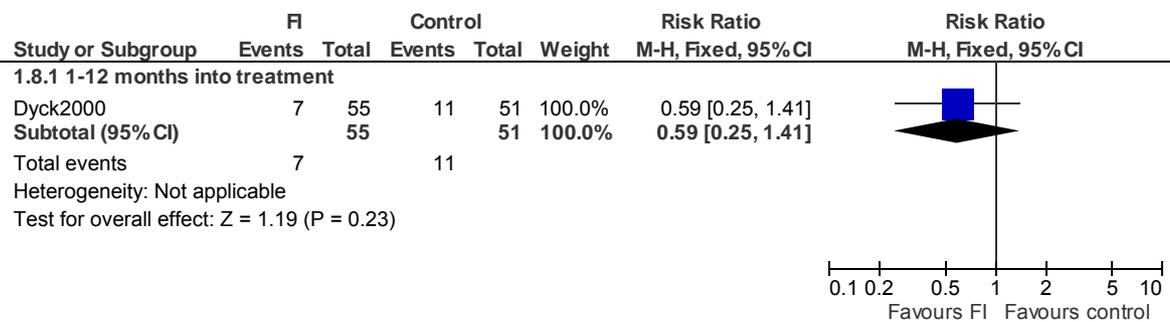


Psychological clinical evidence: Family intervention

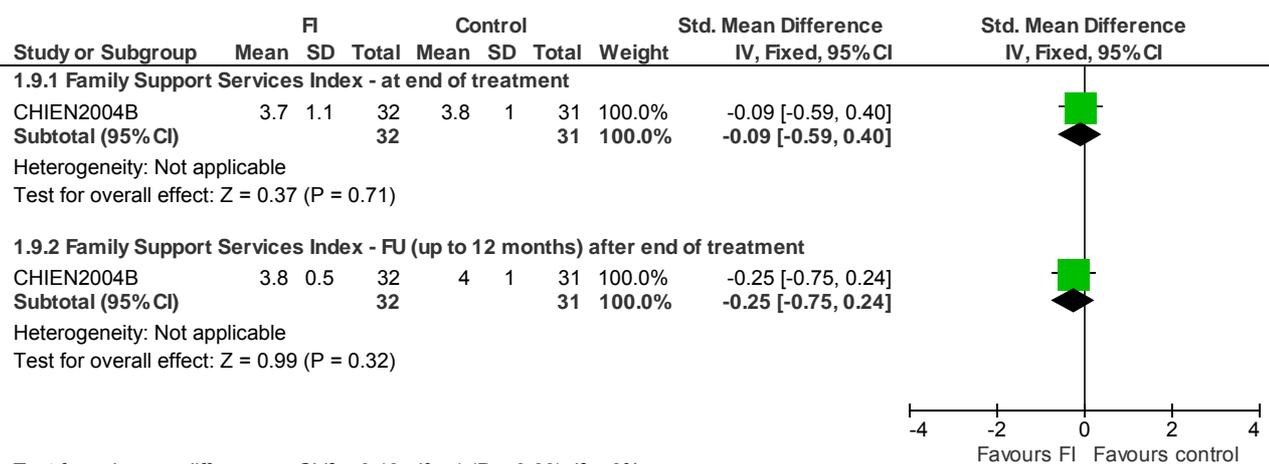
1.7 Service outcomes: 3. Number of rehospitalisation - at FU



1.8 Service outcomes: 4. Crisis Care Service use



1.9 Service outcomes: 5. Mental health service needs and use



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

Psychological clinical evidence: Family intervention

1.10 Service outcomes: 6. Outpatient treatment (hours) - data skewed

1.10.1 1-12 months into treatment

Study ID	FI: mean (SD)	Control: mean (SD)	F from ANCOVA
Dyck2000	79.3 (94.6)	53.6 (74.2)	F(1,89)=7.1,p<.05

1.10.2 13-24 months into treatment

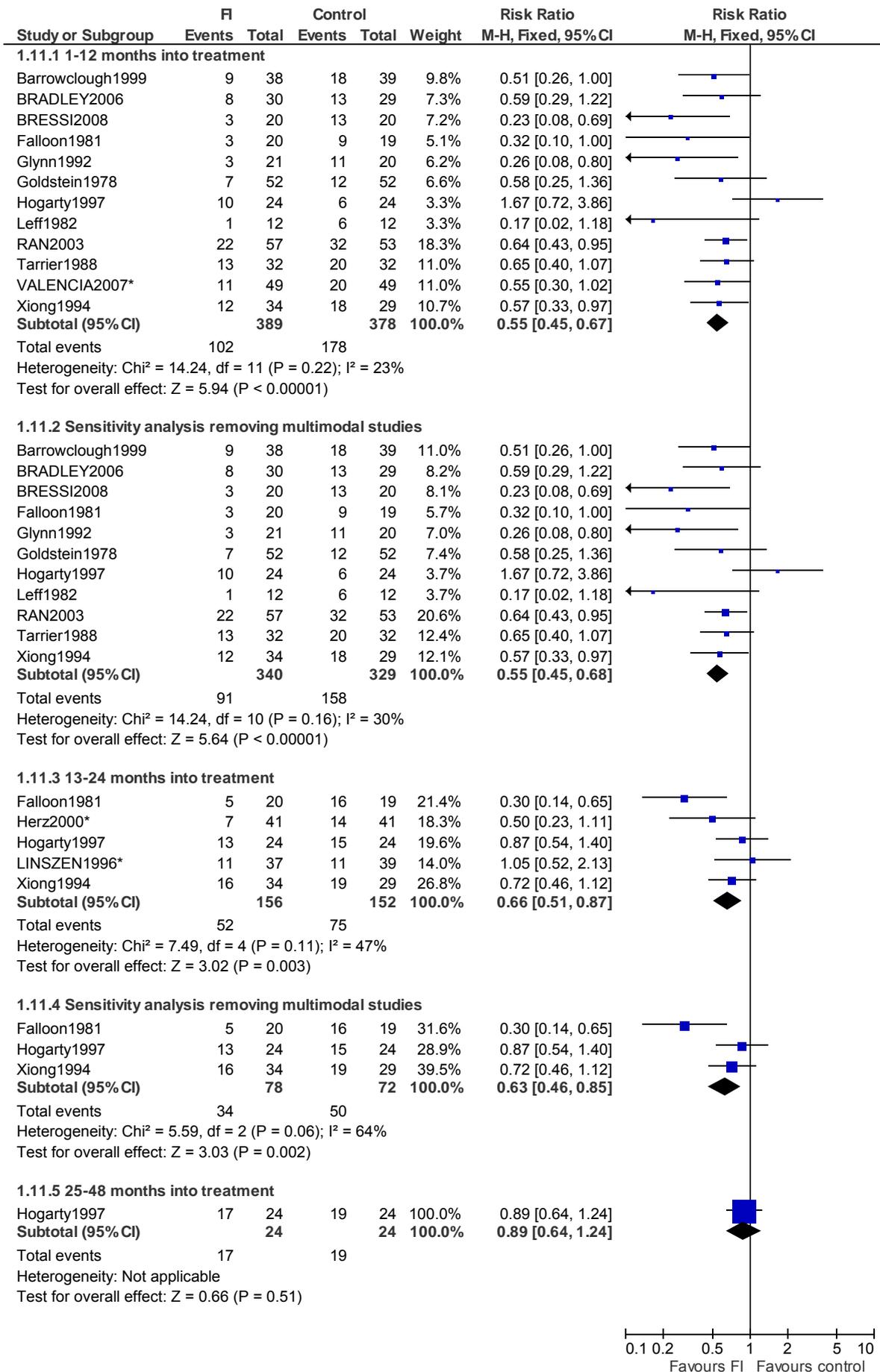
Study ID	FI: mean (SD)	Control: mean (SD)	F from ANCOVA
Dyck2000	39.9 (71.0)	27.2 (51.9)	F(1,89)=4.0,p<.05

1.10.3 up to 1 year FU

Study ID	FI: mean (SD)	Control: mean (SD)	F from ANCOVA
Dyck2000	14.0 (15.8)	25.2 (33.5)	p>.05

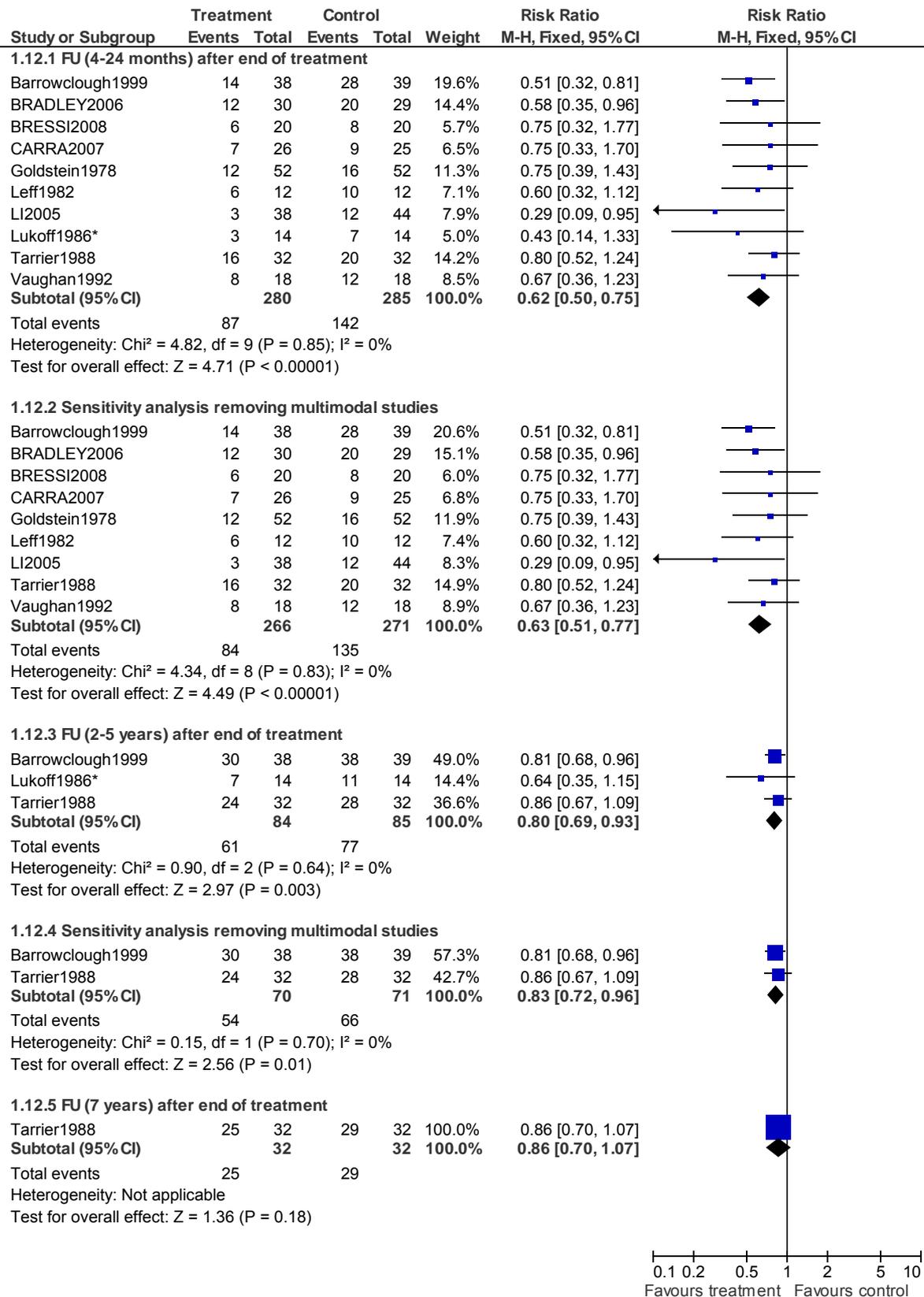
Psychological clinical evidence: Family intervention

1.11 Global state: 1. Relapse



Psychological clinical evidence: Family intervention

1.12 Global state: 1. Relapse - at FU

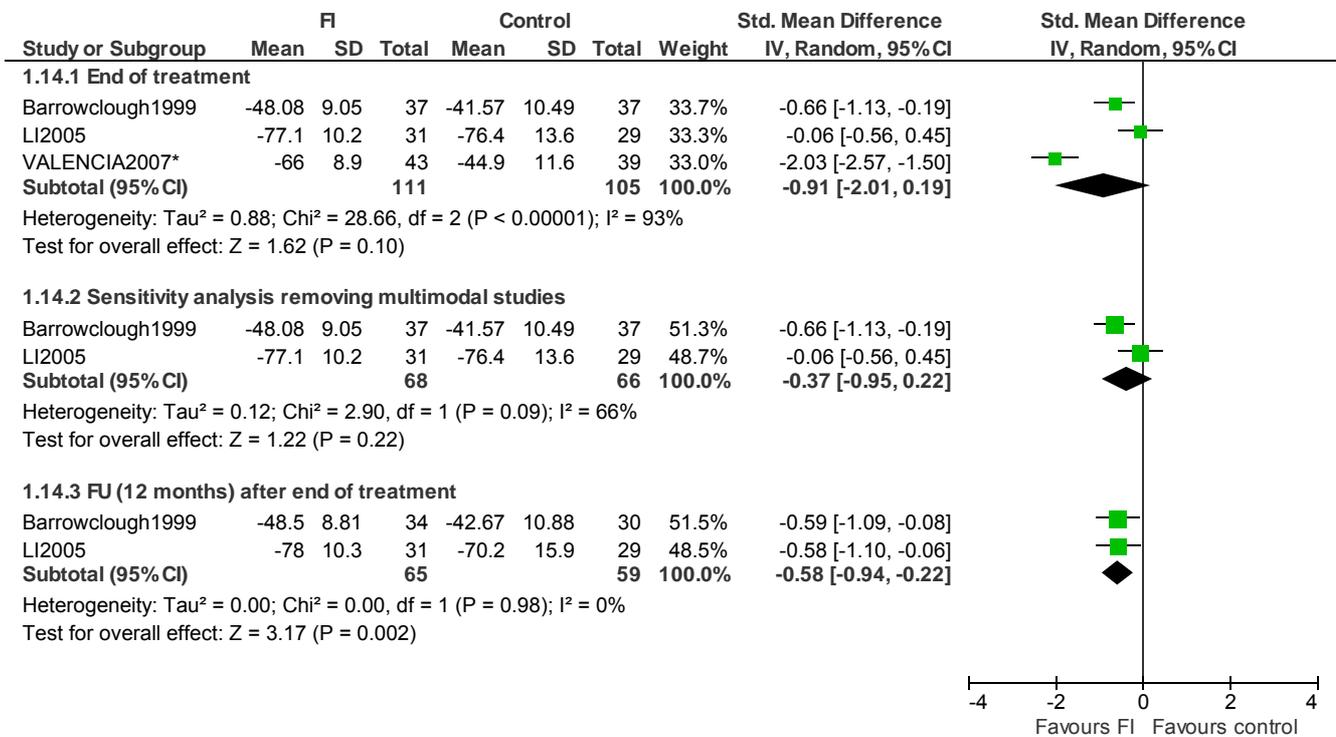


Psychological clinical evidence: Family intervention

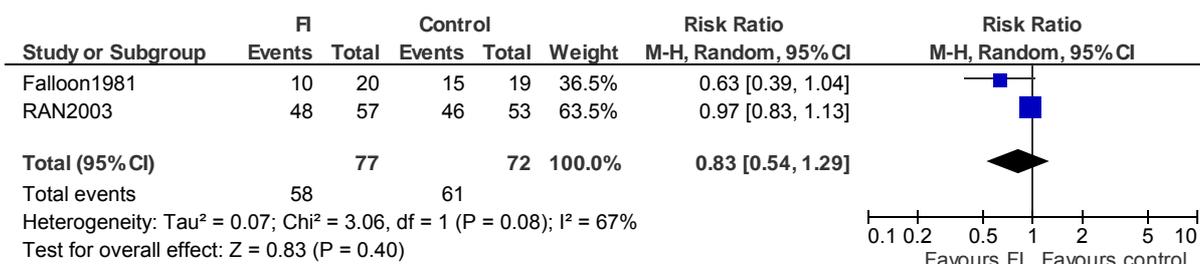
1.13 Global state: 2. Relapse-Kaplan-Meier survival curves for time to relapse (at end of treatment)

Study ID	FI	Control	Statistics
BRADLEY2006	890 days	642 days	log rank=5.22, df=1, p=.02

1.14 Global state: 3. Global Assessment Scale, GAF (higher = better)

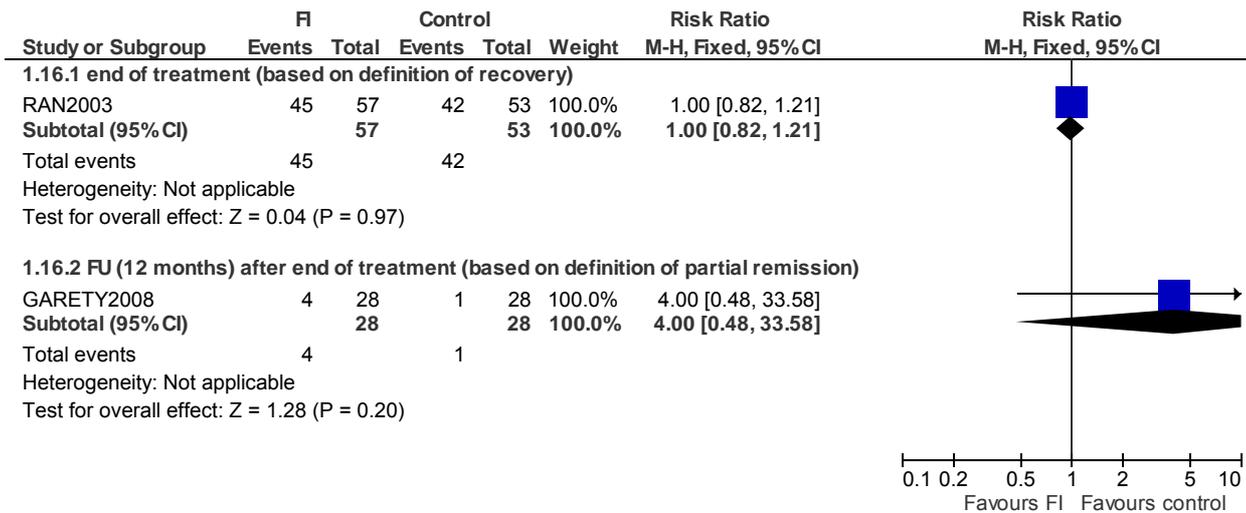


1.15 Global state: 4. No significant improvement (worse-case scenario)

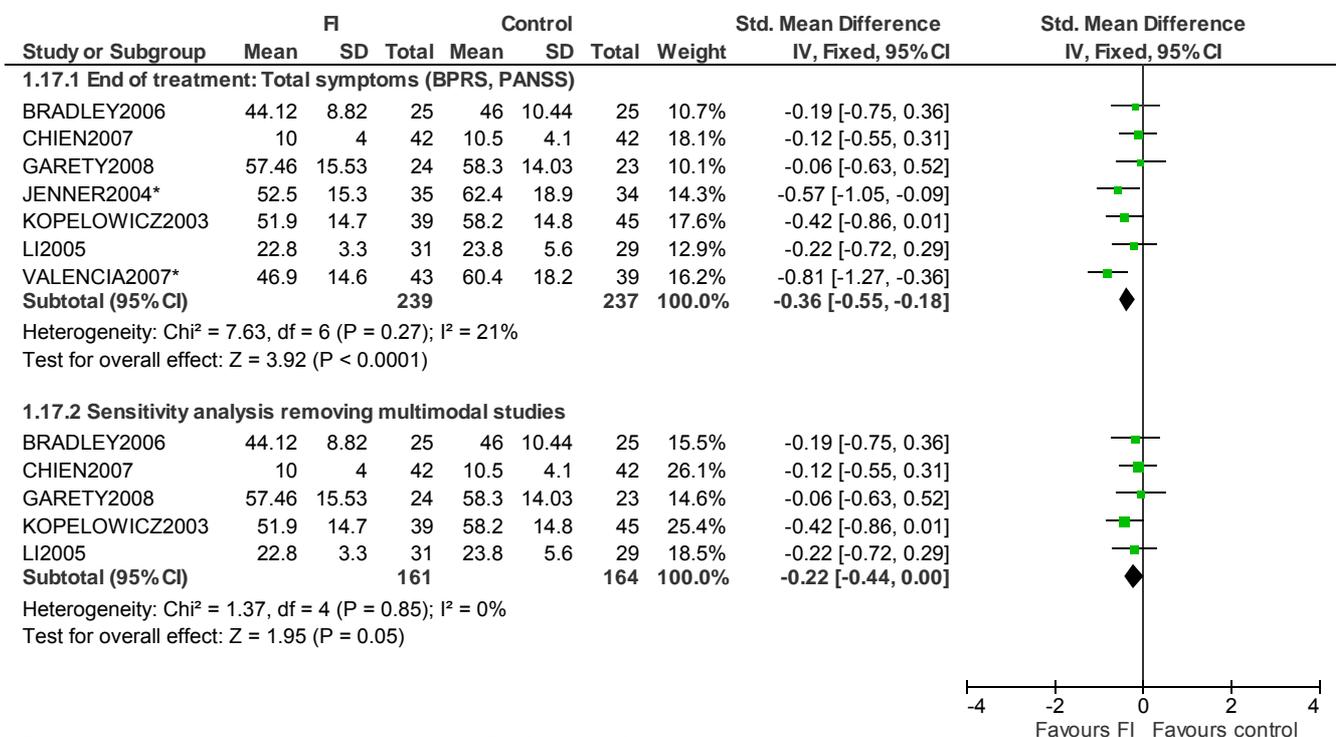


Psychological clinical evidence: Family intervention

1.16 Global state: 5. Non-remission/ non-recovery (worse-case scenario)

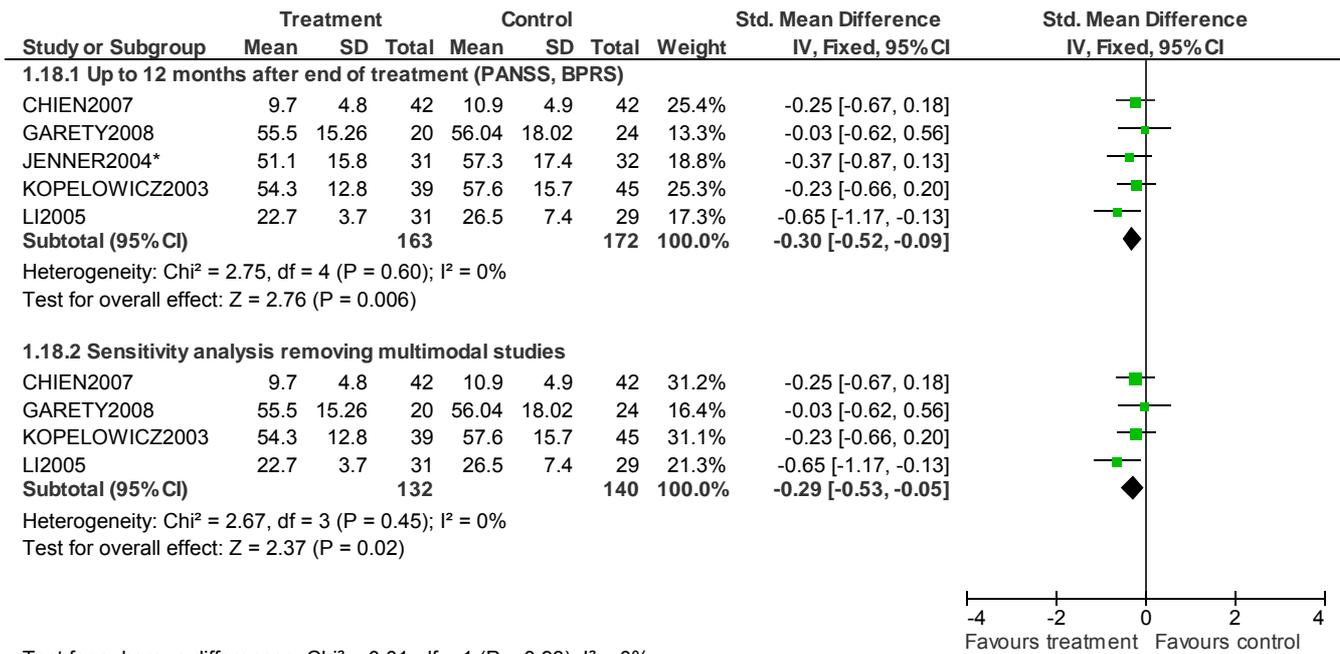


1.17 Mental state: 1. Symptom severity - total symptoms (end of treatment) (lower = less severe)



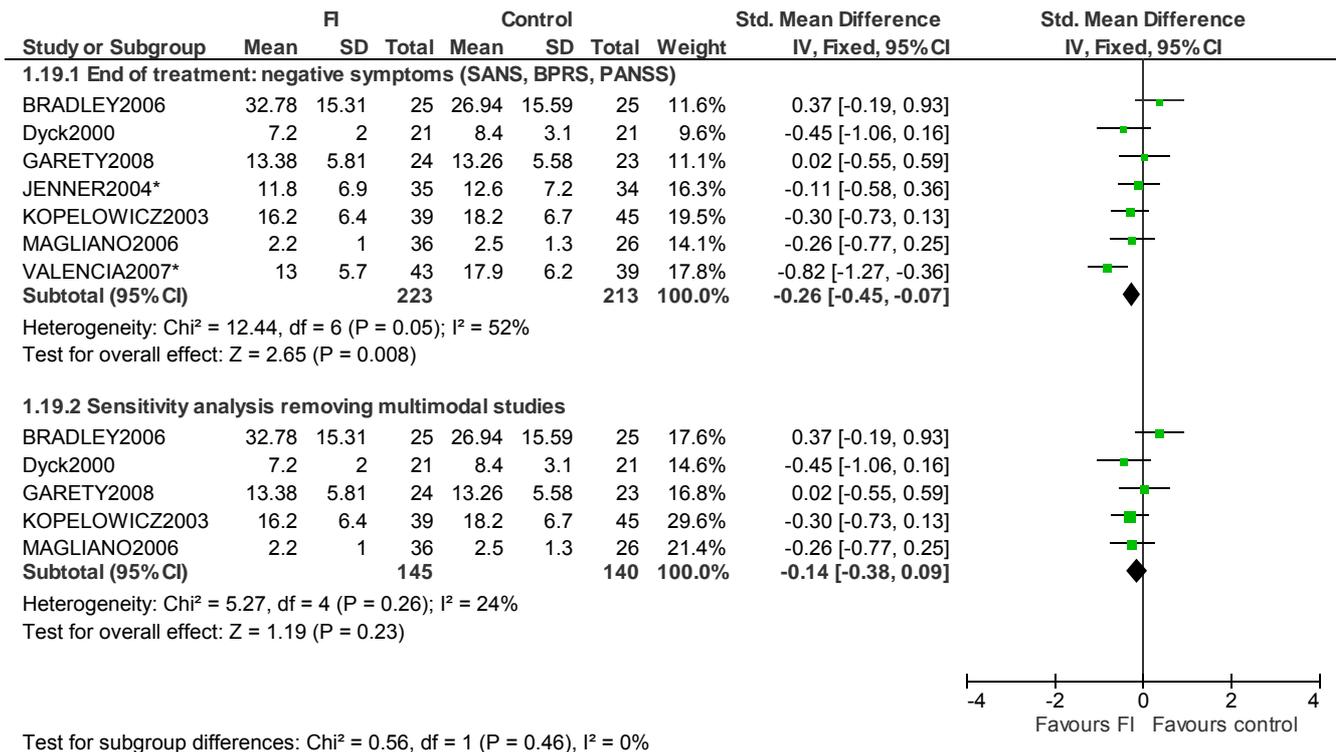
Psychological clinical evidence: Family intervention

1.18 Mental state: 1. Symptom severity - total symptoms (at FU) (lower = less severe)

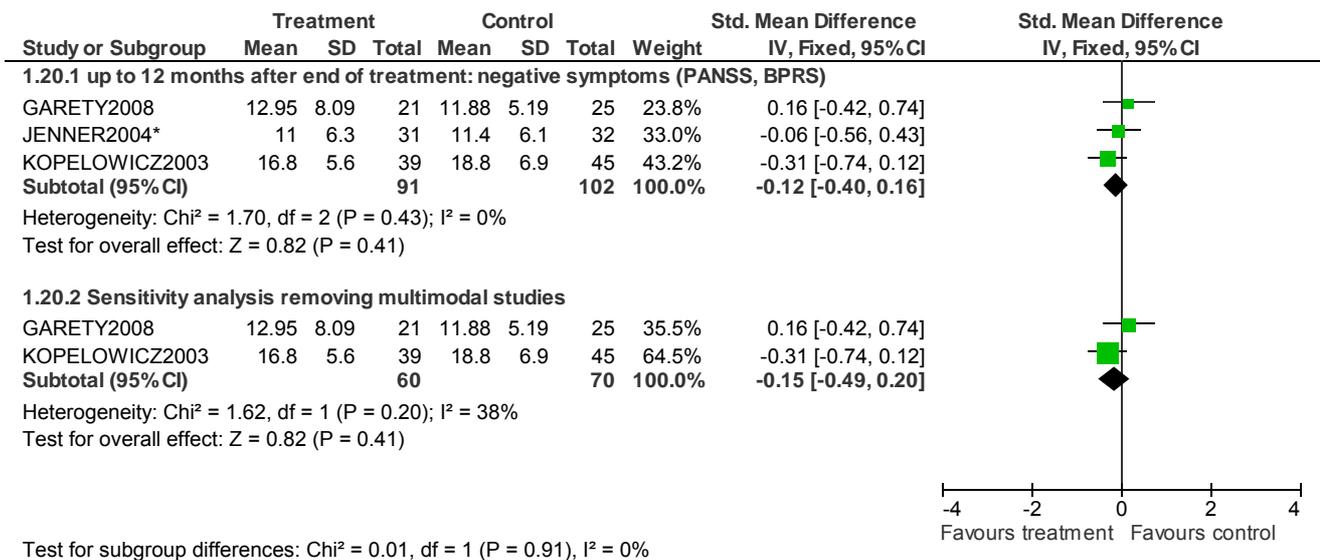


Psychological clinical evidence: Family intervention

1.19 Mental state: 2. Symptom severity - negative symptoms (end of treatment) (lower = less severe)

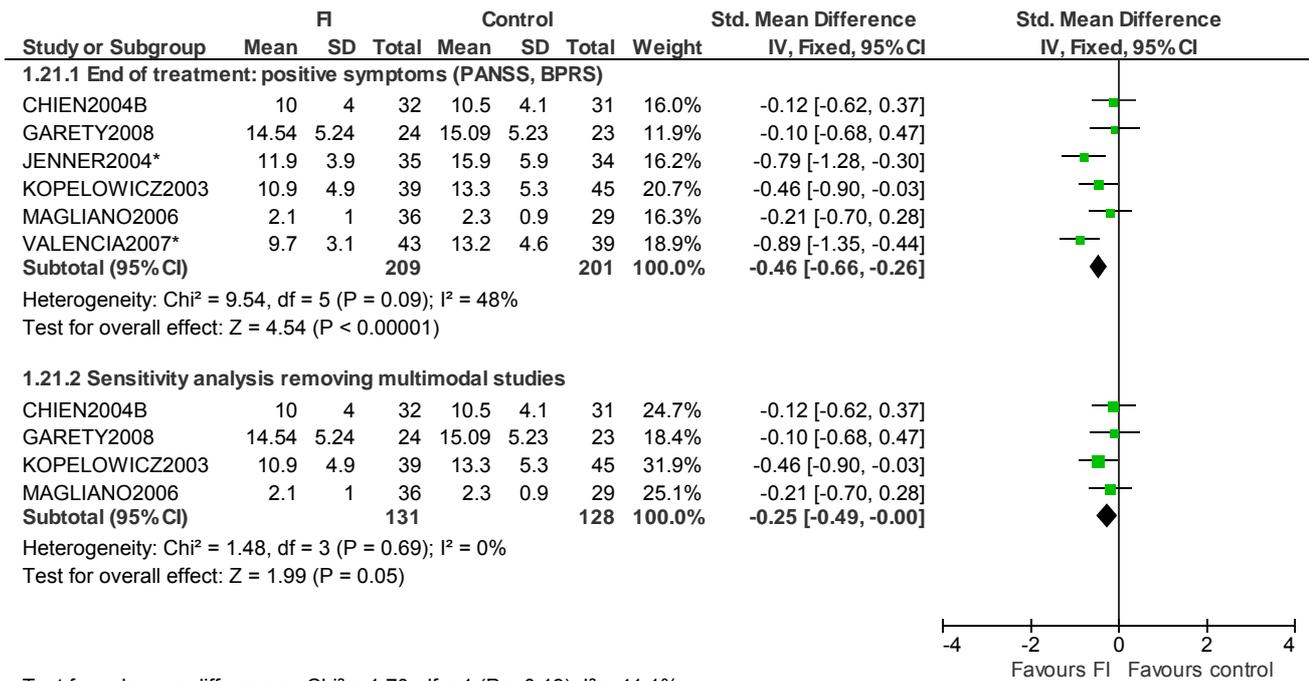


1.20 Mental state: 2. Symptom severity - negative symptoms (at FU) (lower = less severe)

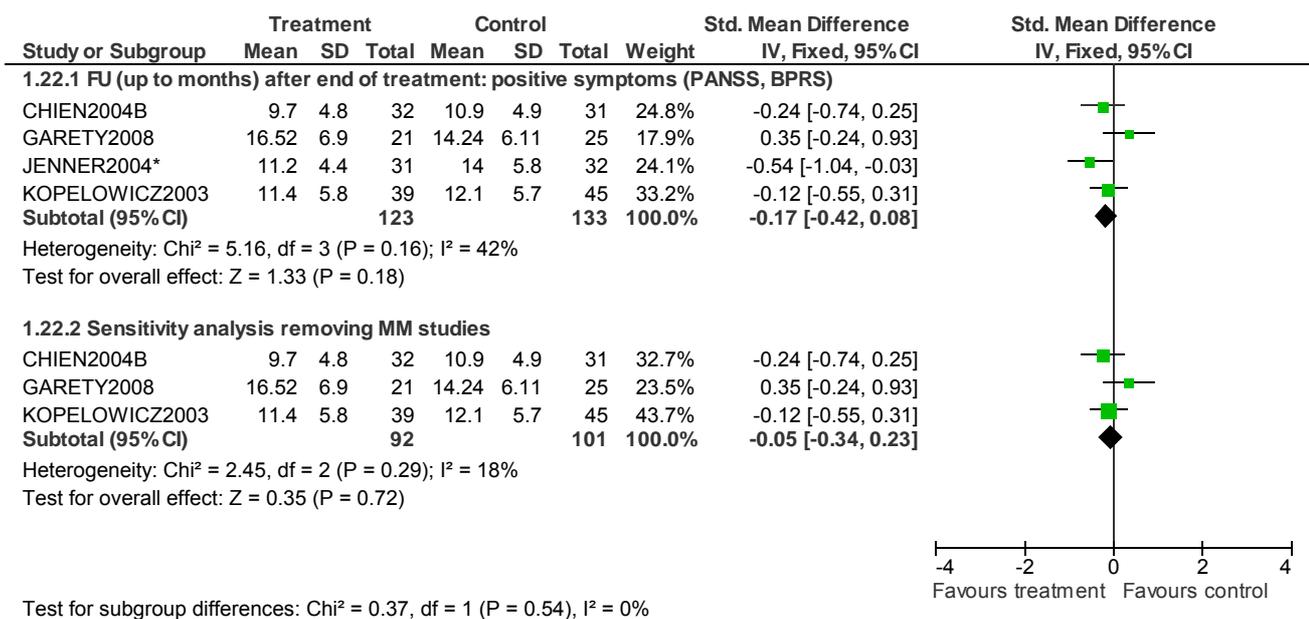


Psychological clinical evidence: Family intervention

1.21 Mental state: 3. Symptom severity - positive symptoms (end of treatment) (lower = less severe)

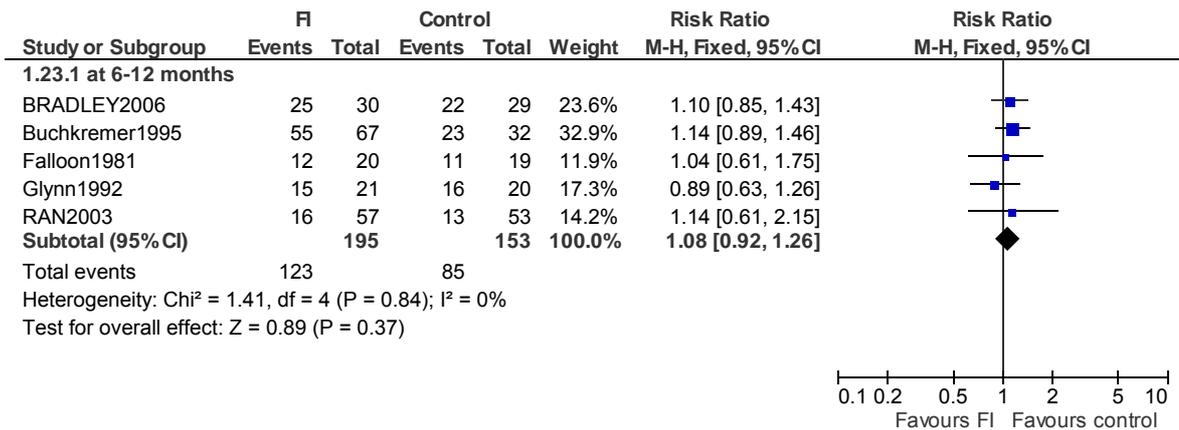


1.22 Mental State: 3. Symptom severity - positive symptoms (at FU) (lower = less severe)

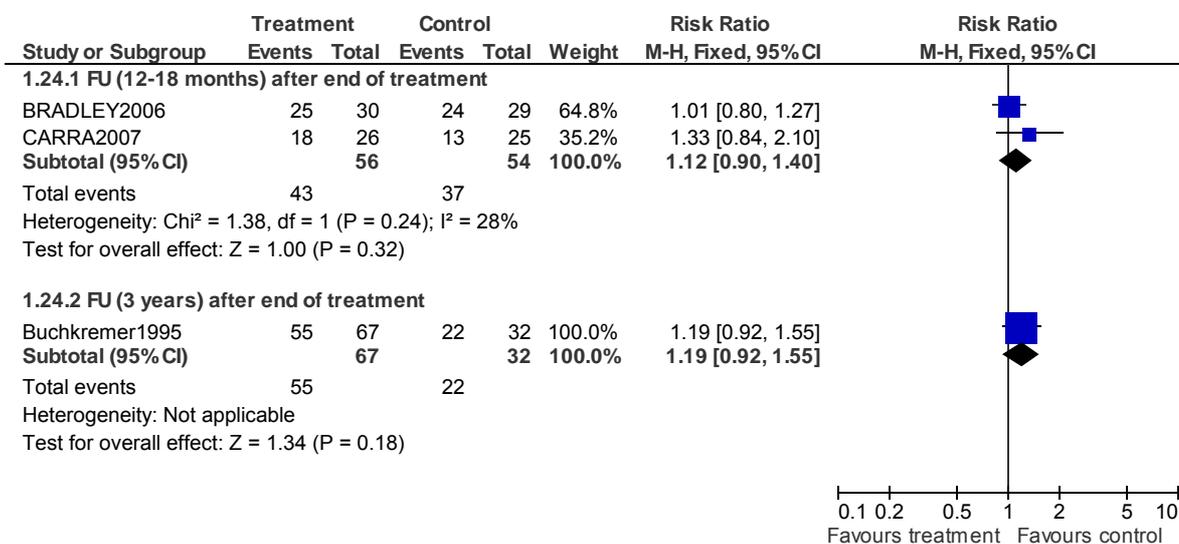


Psychological clinical evidence: Family intervention

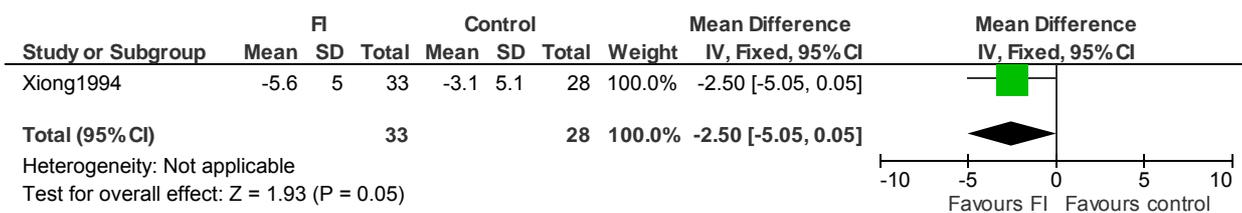
1.23 Psychosocial functioning: 1. Unemployment (at end of treatment)



1.24 Psychosocial functioning: 1. Unemployment (at FU)

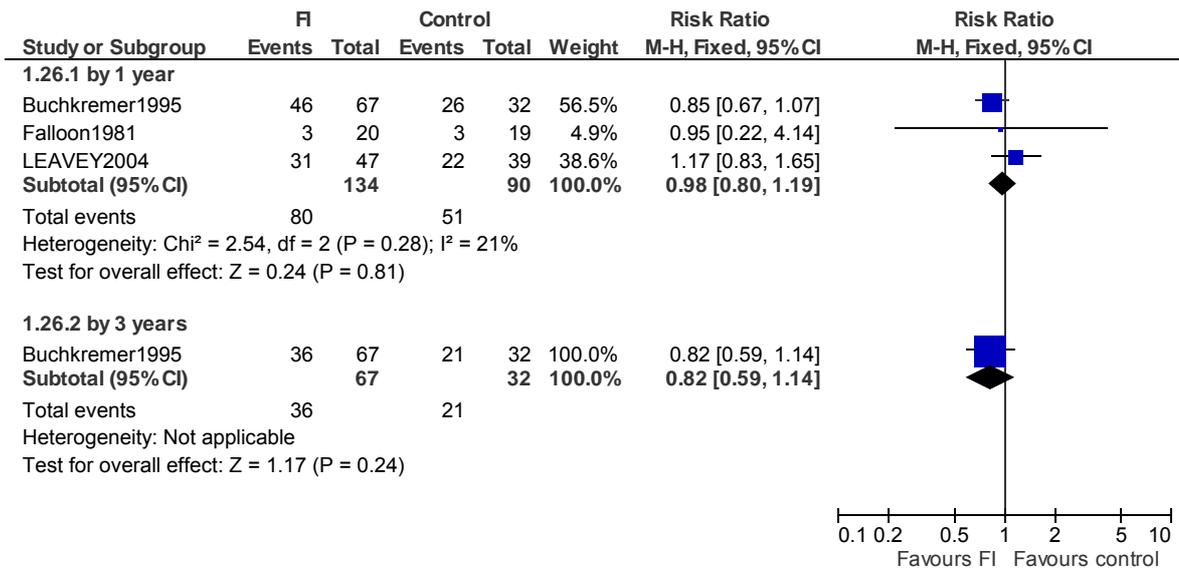


1.25 Psychosocial functioning: 2. Time in employment at one year

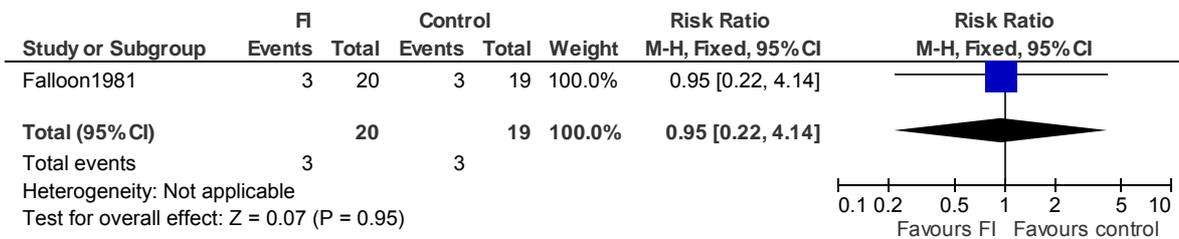


Psychological clinical evidence: Family intervention

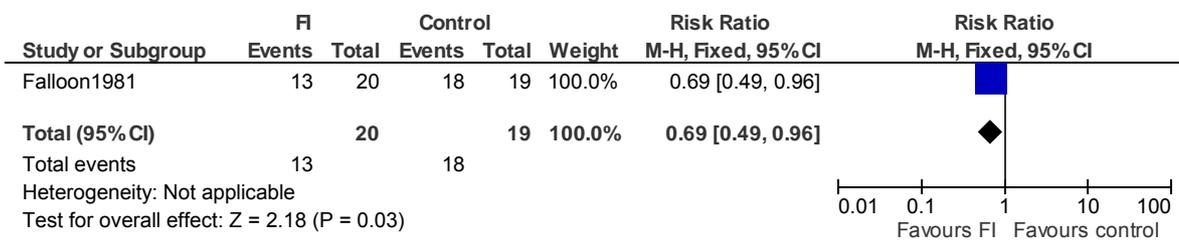
1.26 Psychosocial functioning: 4. Not able to live independently



1.27 Psychosocial functioning: 5. Imprisonment

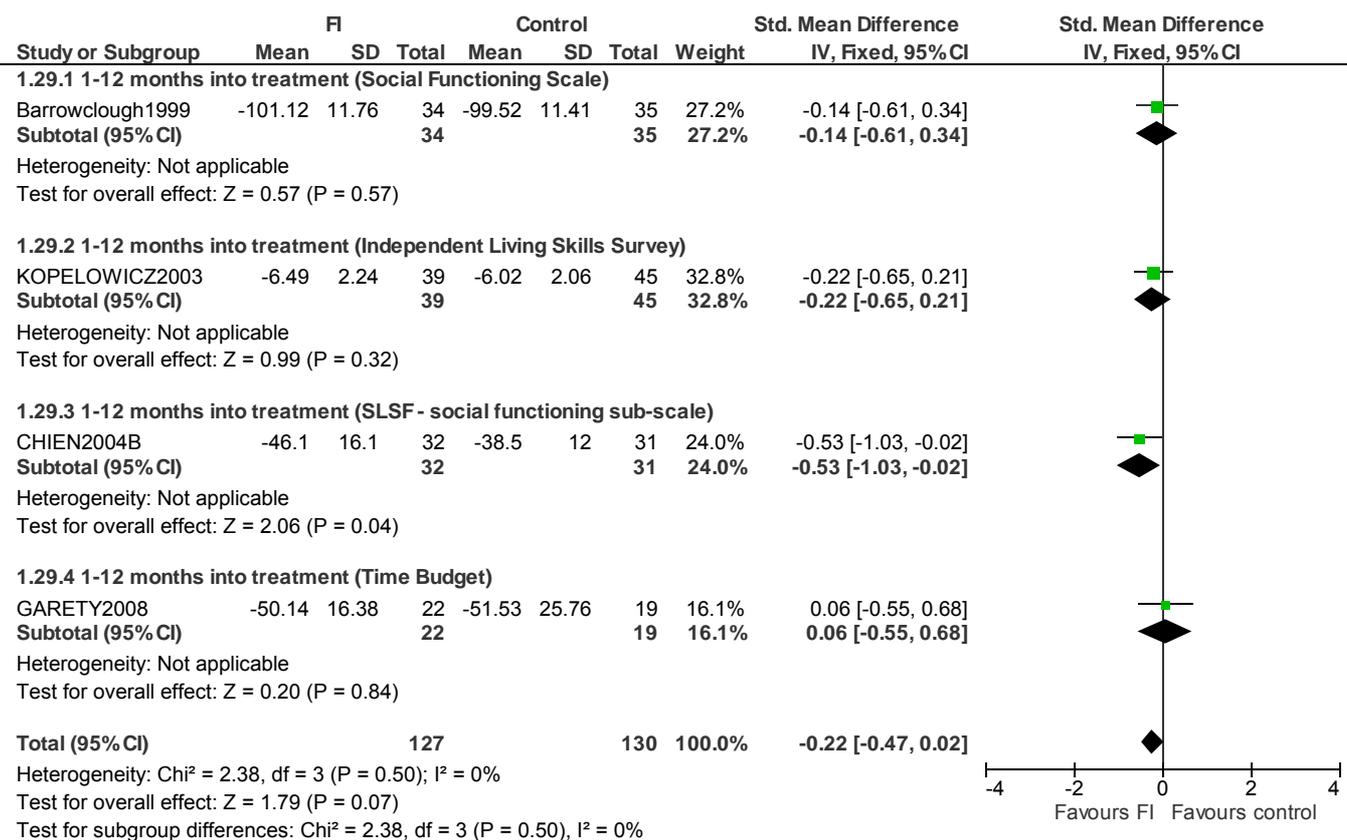


1.28 Psychosocial functioning: 6. Social impairment



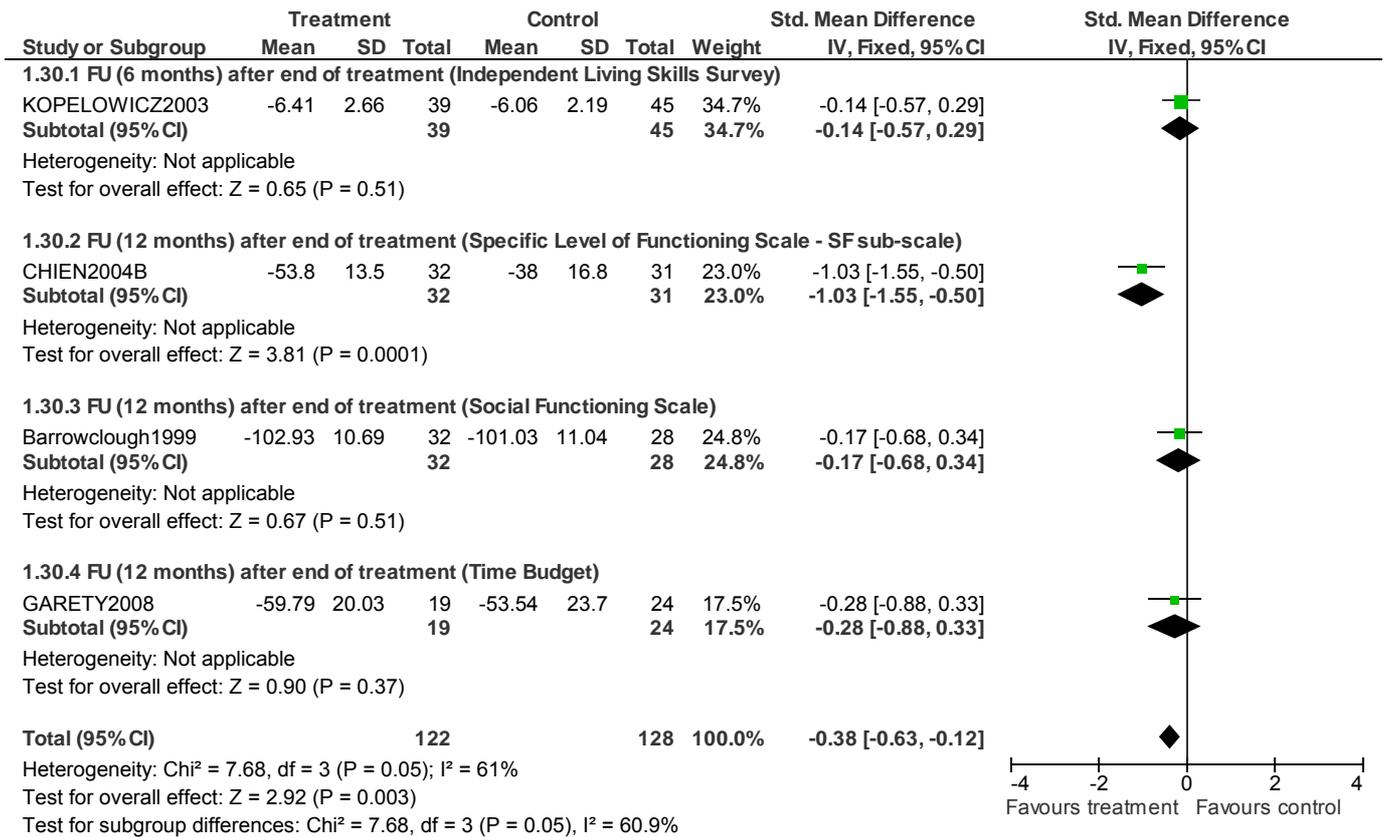
Psychological clinical evidence: Family intervention

1.29 Psychosocial functioning: 7. Social functioning (higher = better) (end of treatment)

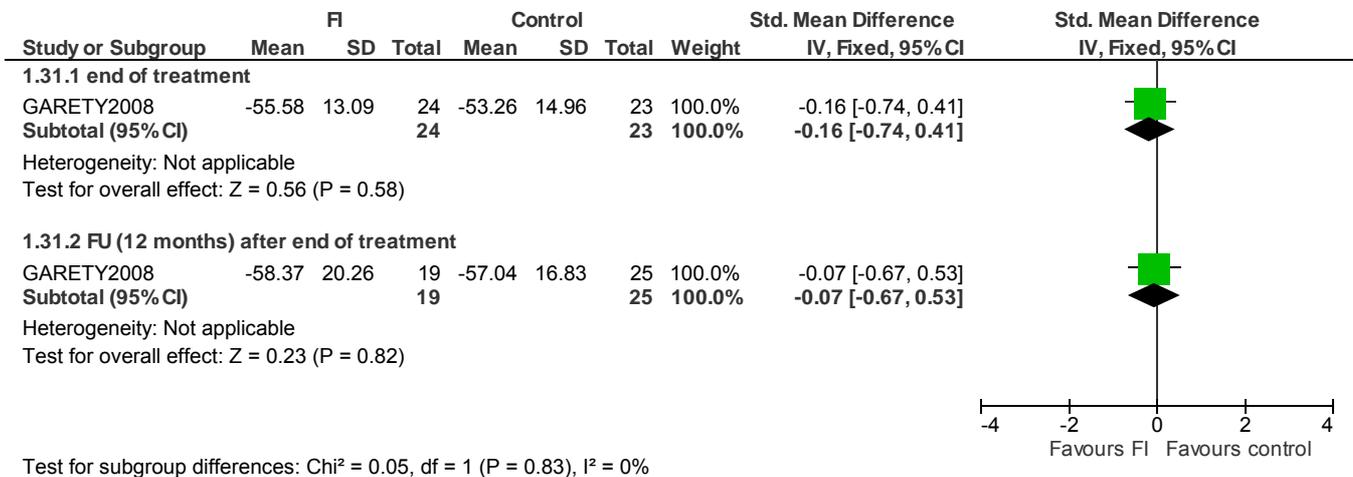


Psychological clinical evidence: Family intervention

1.30 Psychosocial functioning 7. Social functioning (higher = better) (at FU)

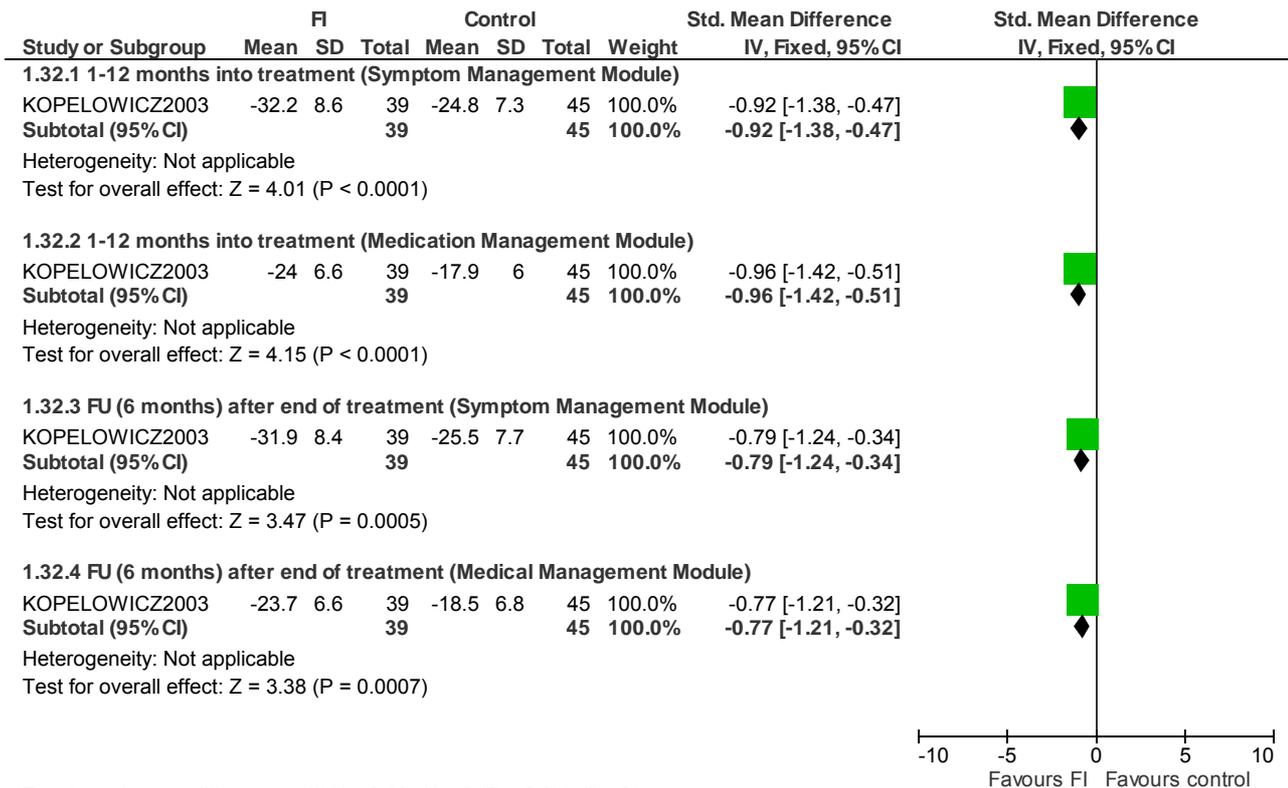


1.31 Psychosocial functioning: 8. Social and Occupational Functioning Assessment Scale (higher = better)



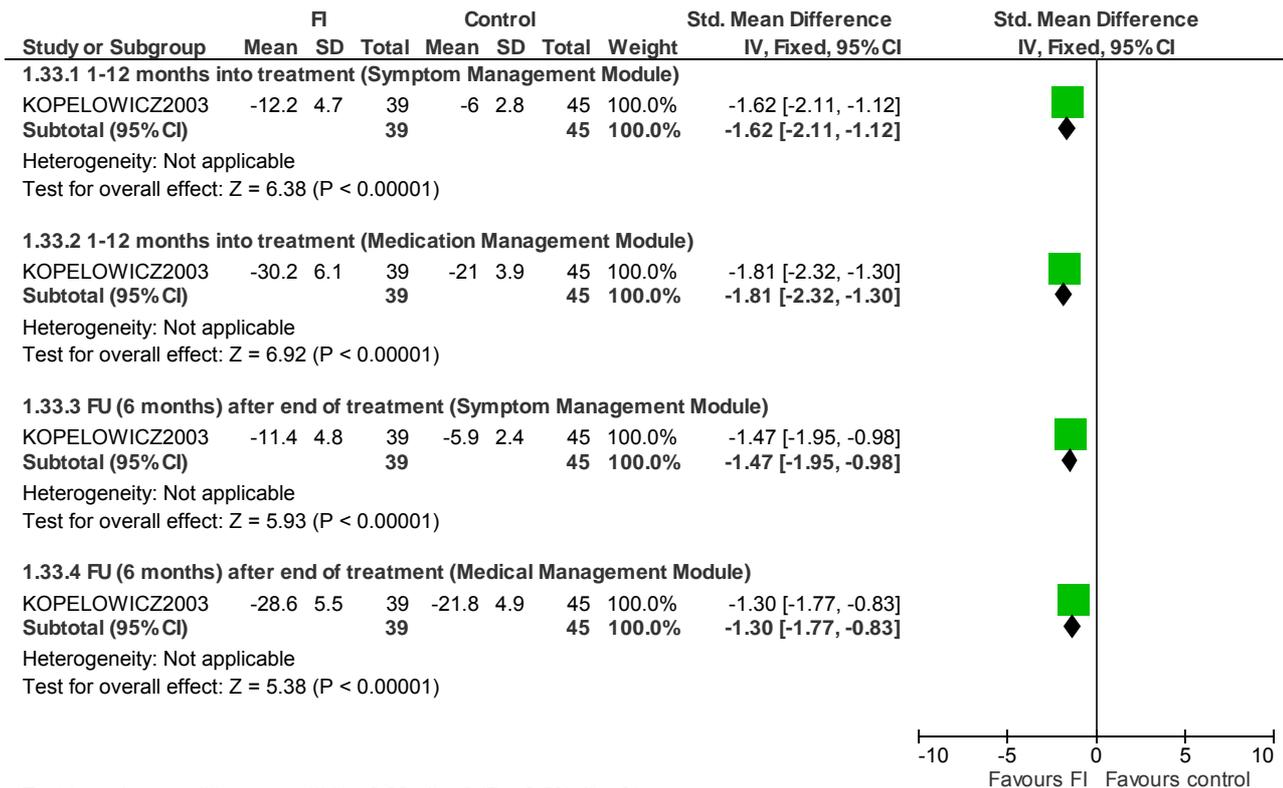
Psychological clinical evidence: Family intervention

1.32 Psychosocial functioning: 9. Symptom management - skill acquisition (higher = better)

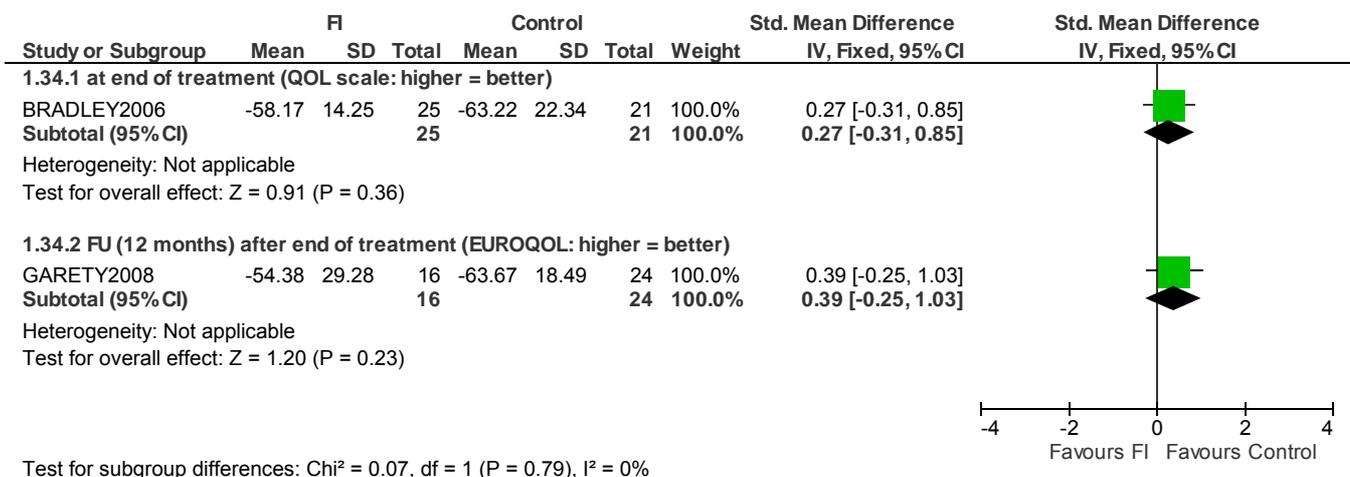


Psychological clinical evidence: Family intervention

1.33 Psychosocial functioning: 11. Symptom management - skill generalisation (higher = better)

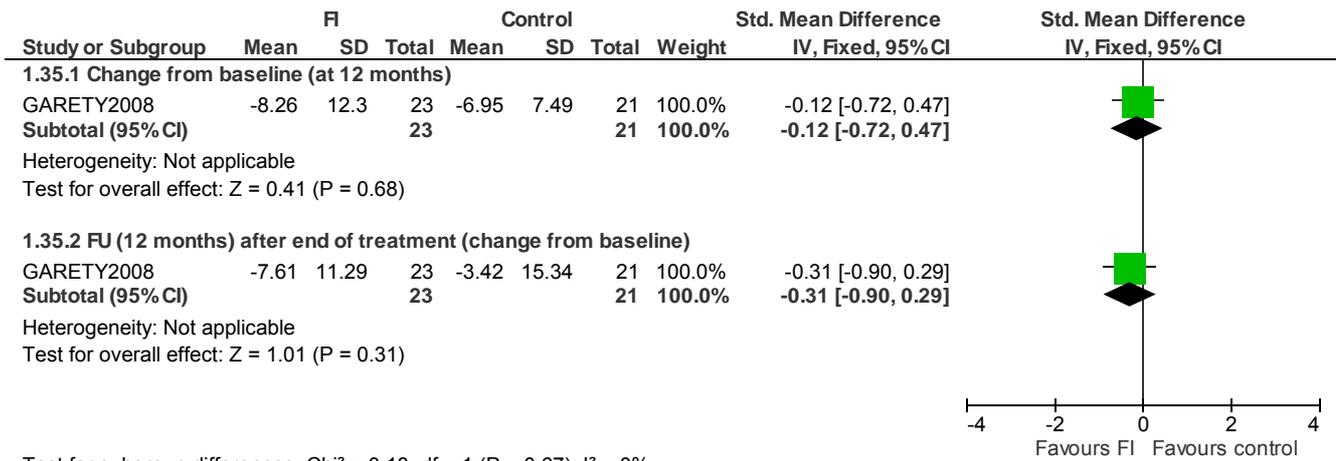


1.34 Quality of Life (higher = better)



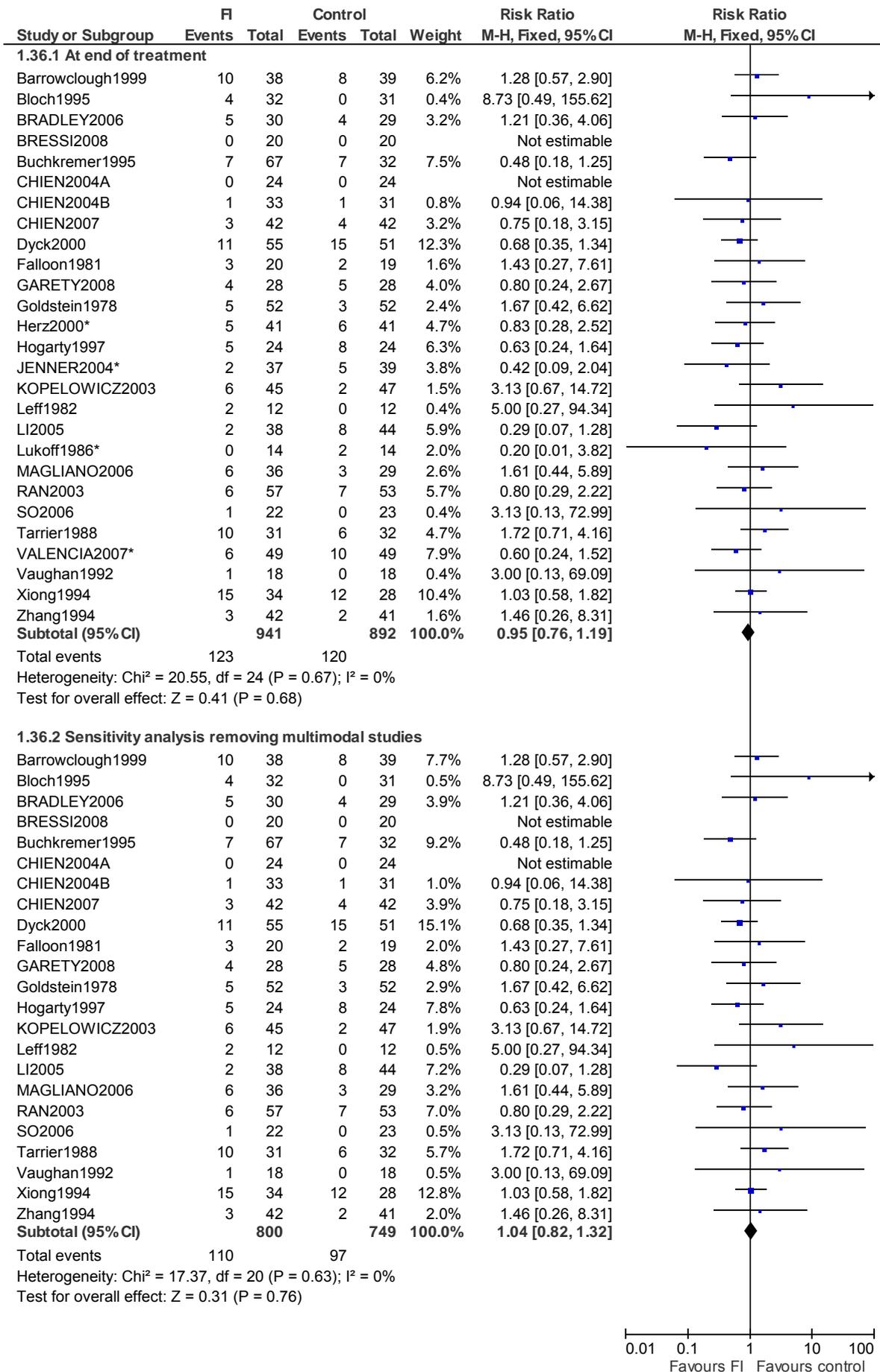
Psychological clinical evidence: Family intervention

1.35 Depression: 1. BDI (lower = better)



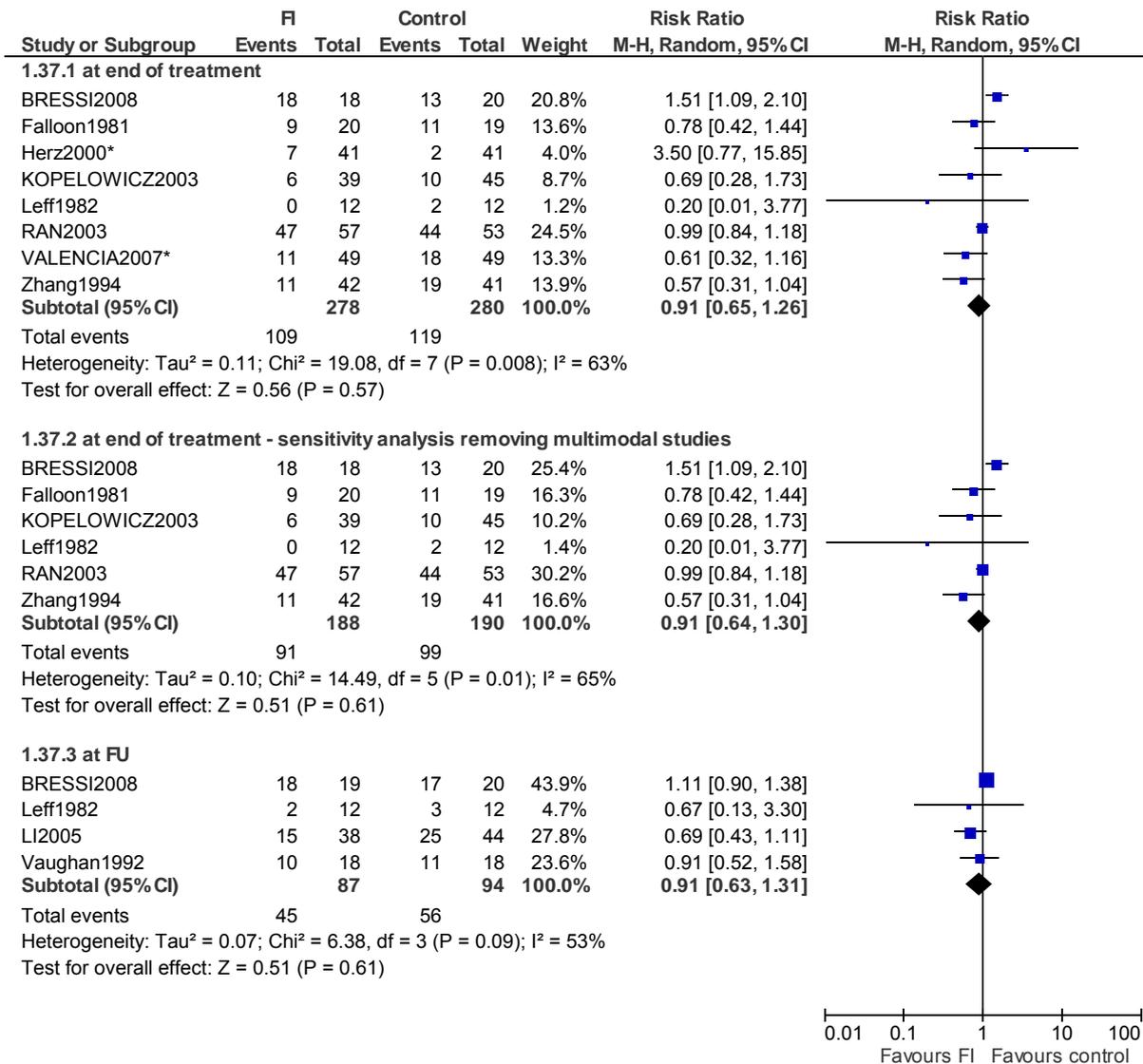
Psychological clinical evidence: Family intervention

1.36 Treatment acceptability: 1. Leaving the study early for any reason



Psychological clinical evidence: Family intervention

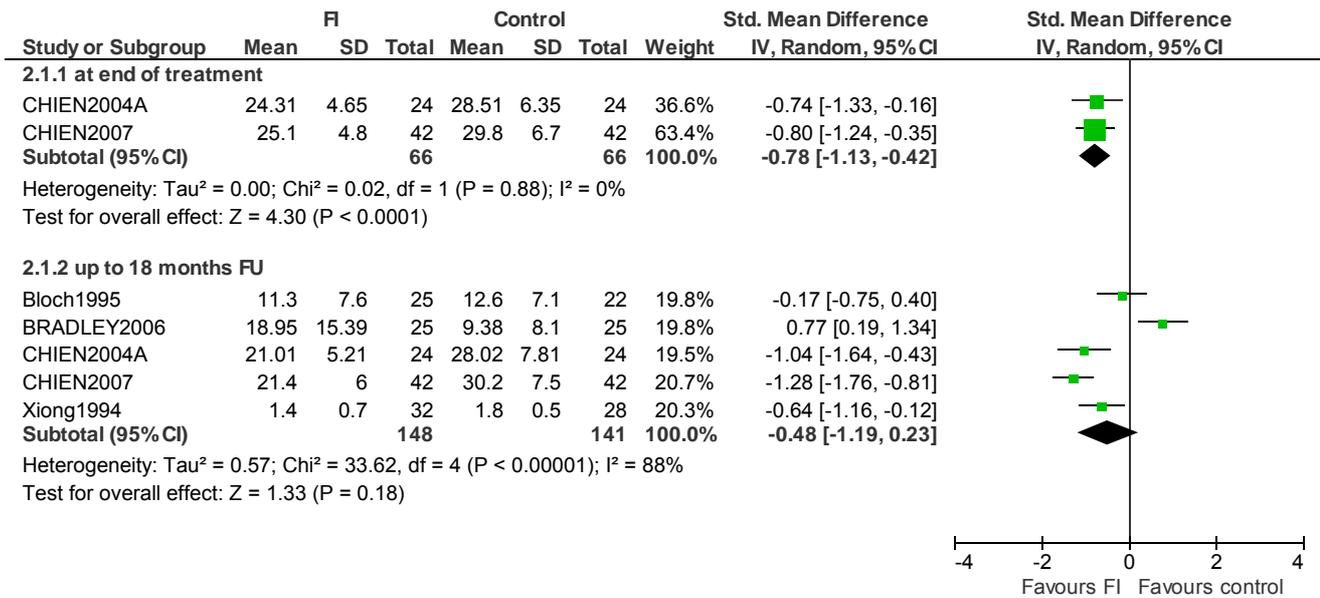
1.37 Non-adherence to study medication



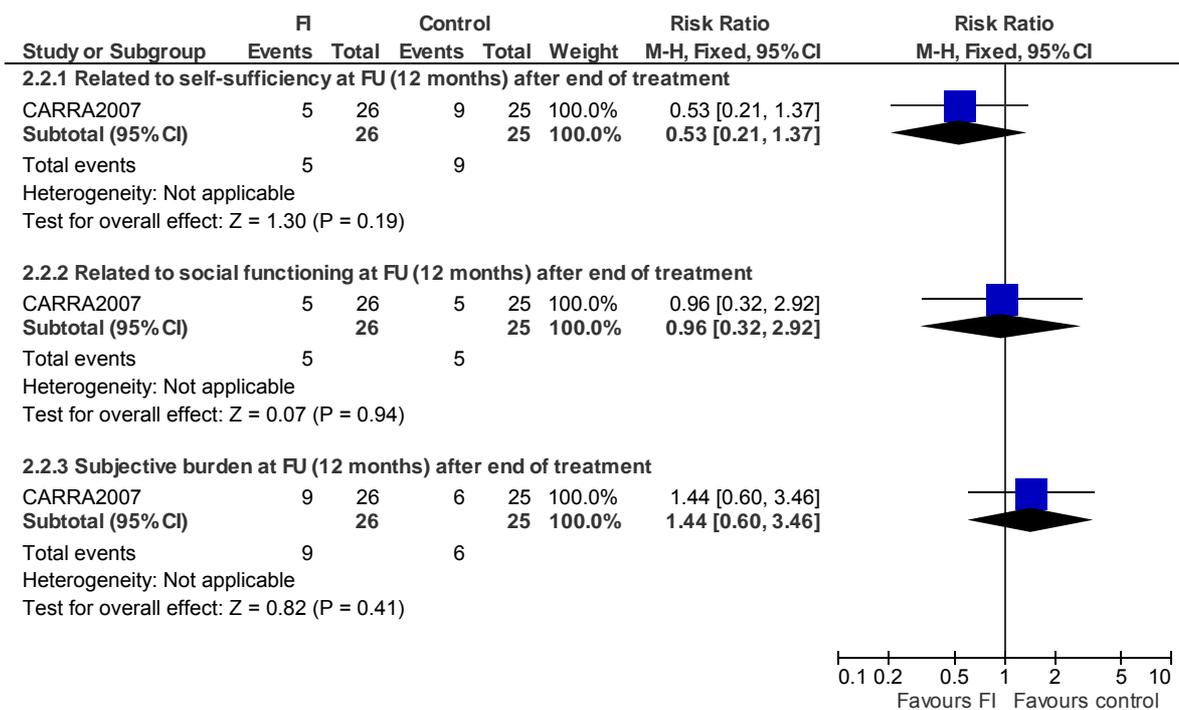
2 Family intervention versus any control (carer outcomes) (critical outcomes)

Psychological clinical evidence: Family intervention

2.1 Family outcome: 1. Burden (lower = better) (at end of treatment)

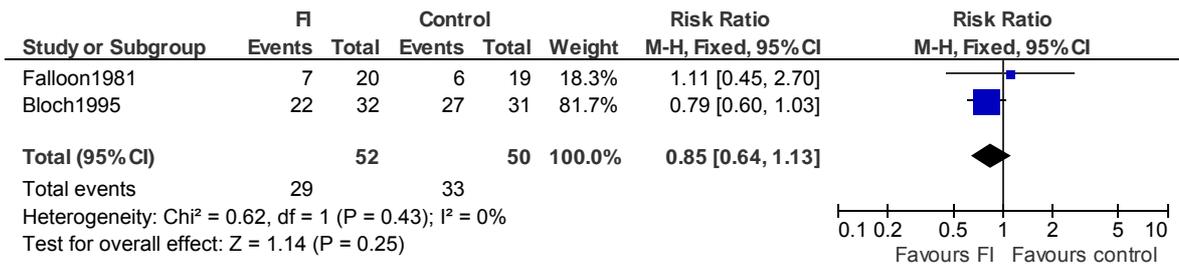


2.2 Family outcome: 1. Burden (number worsened) (at FU)

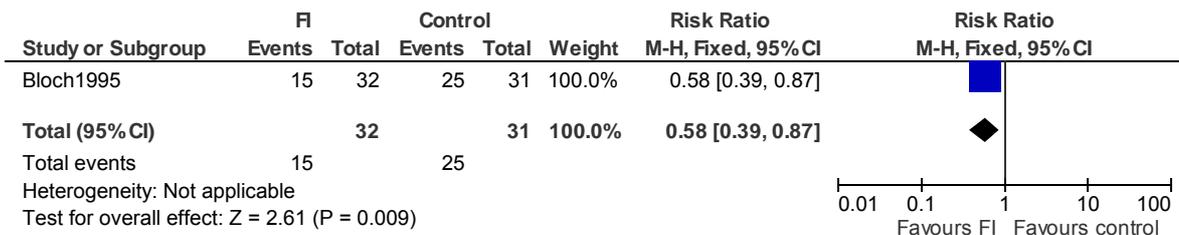


Psychological clinical evidence: Family intervention

2.3 Family outcome: 2. Patient coping poorly with key relatives

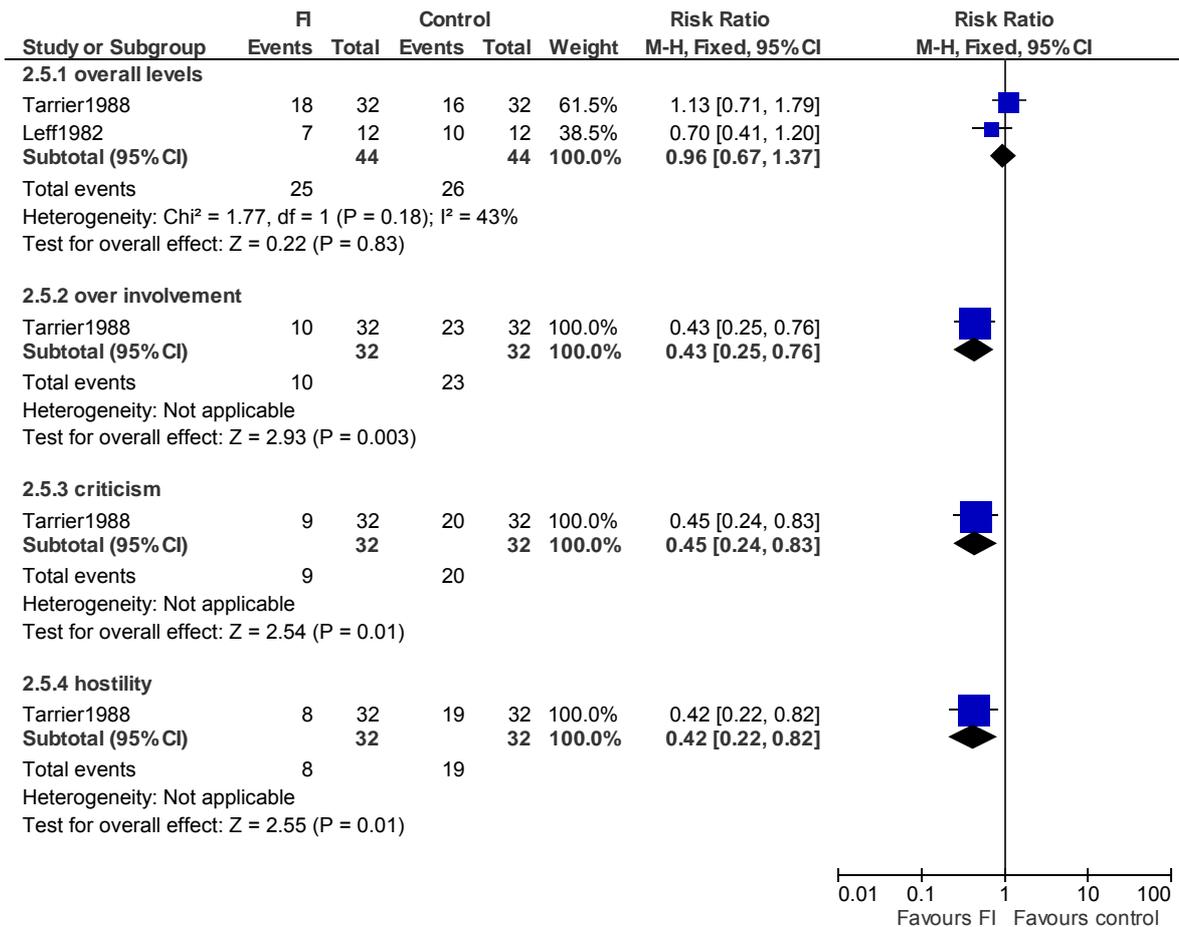


2.4 Family outcome: 3. Not understanding the patient a lot better (6 months)

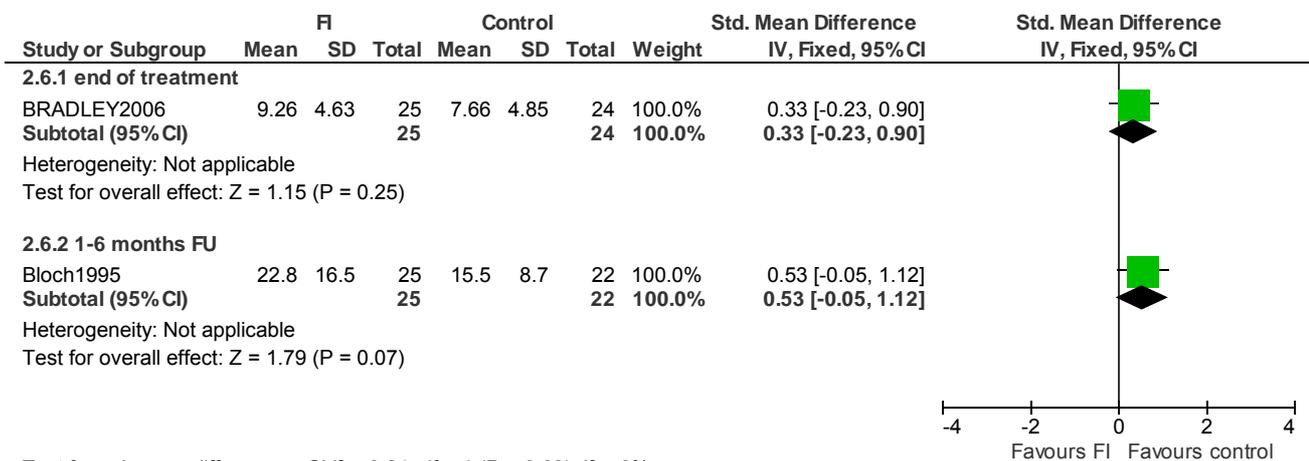


Psychological clinical evidence: Family intervention

2.5 Family outcome: 4. Emotion expressed



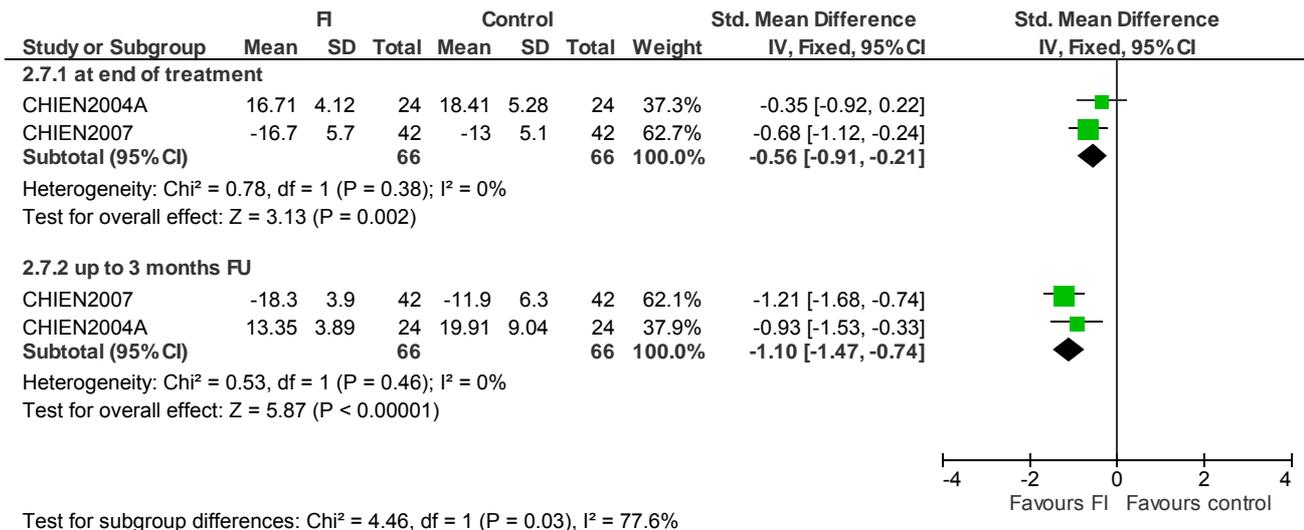
2.6 Family outcome: 5. General Health Questionnaire (lower = better)



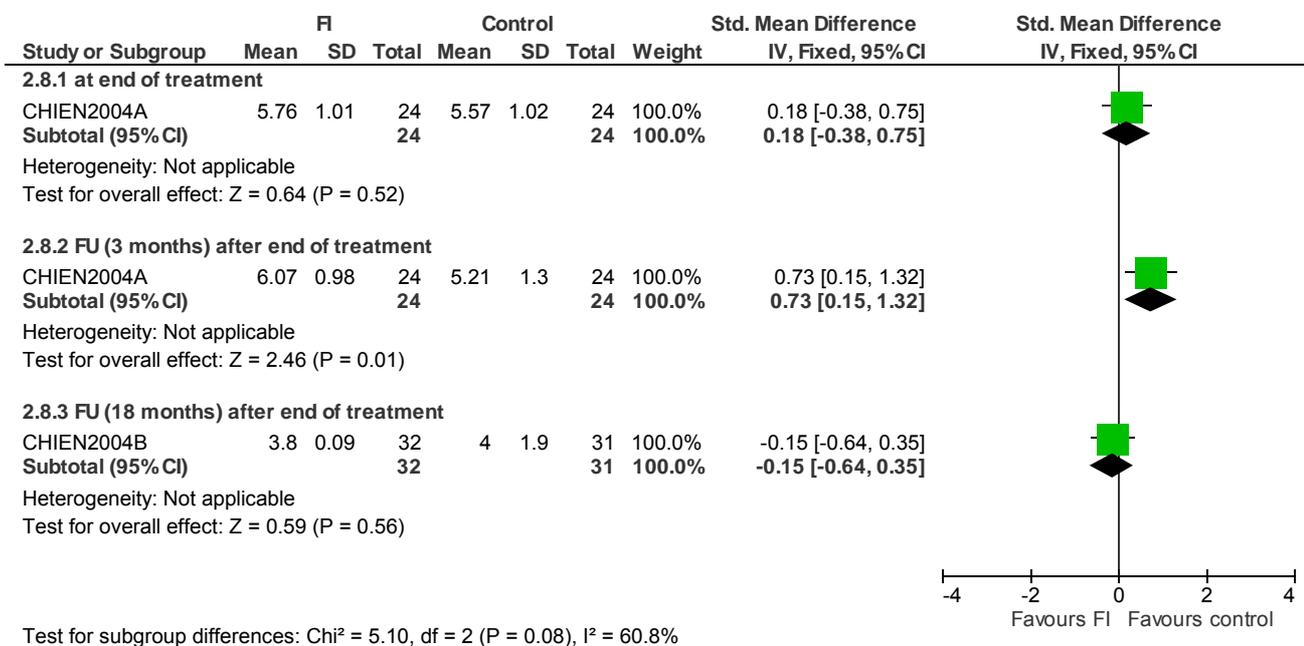
Test for subgroup differences: Chi² = 0.24, df = 1 (P = 0.63), I² = 0%

Psychological clinical evidence: Family intervention

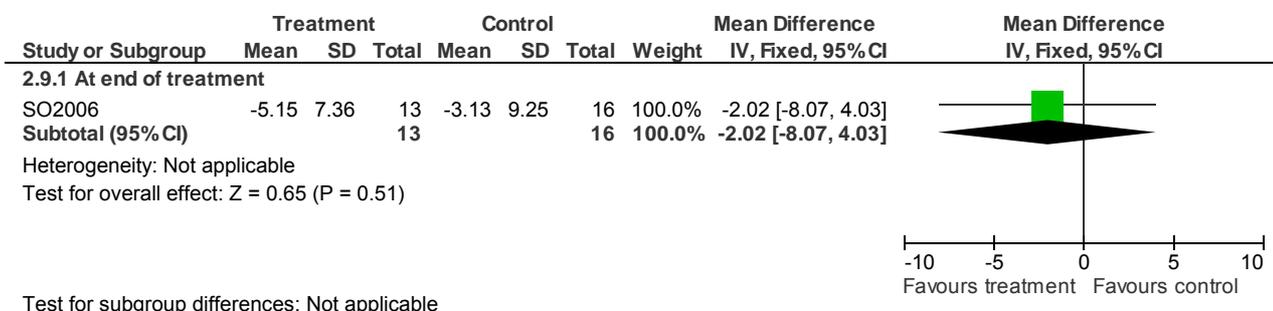
2.7 Family outcome: 6. Family functioning - FAD (lower = better)



2.8 Family outcome: 7. Family Support Service Index (lower = in need of/used less services)

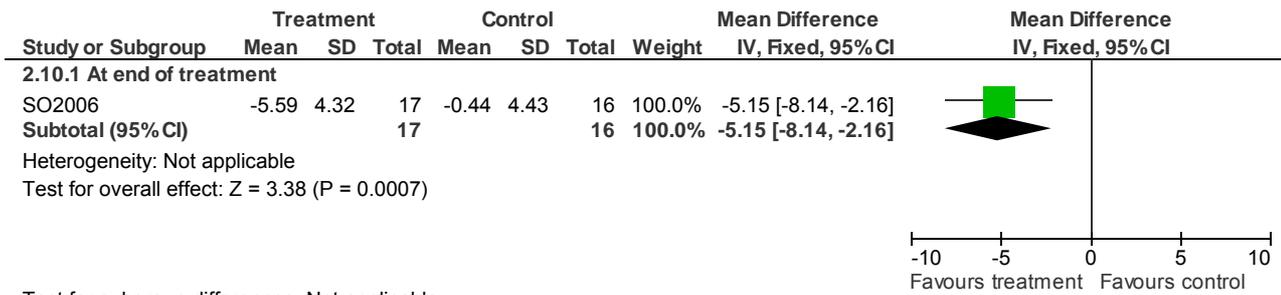


2.9 Family outcome: 8. Levels of Expressed Emotion (LEE Scale) - Change score



Psychological clinical evidence: Family intervention

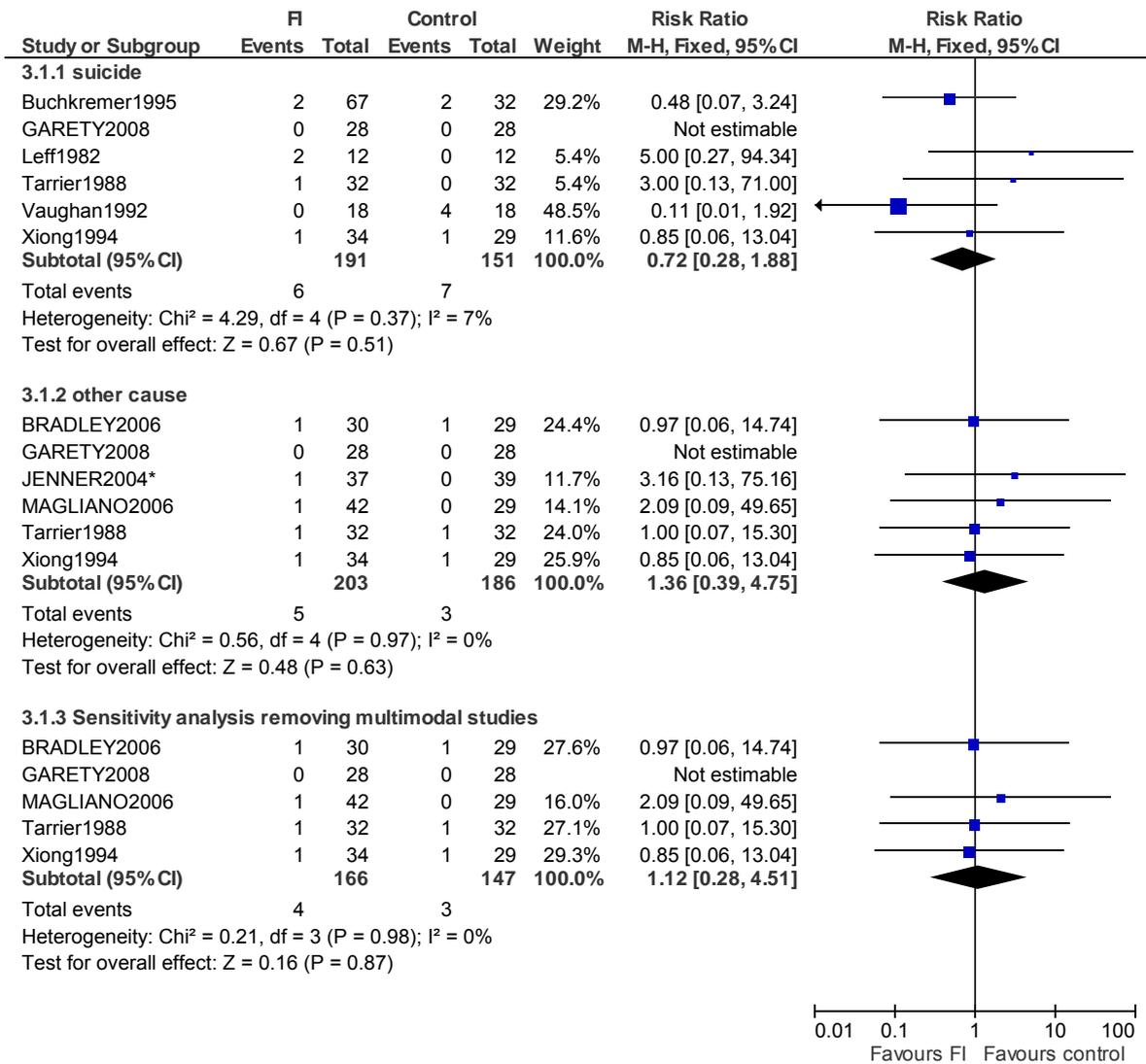
2.10 Family outcome: 9. Knowledge of psychosis - Change score



3 Family intervention versus standard care (critical outcomes)

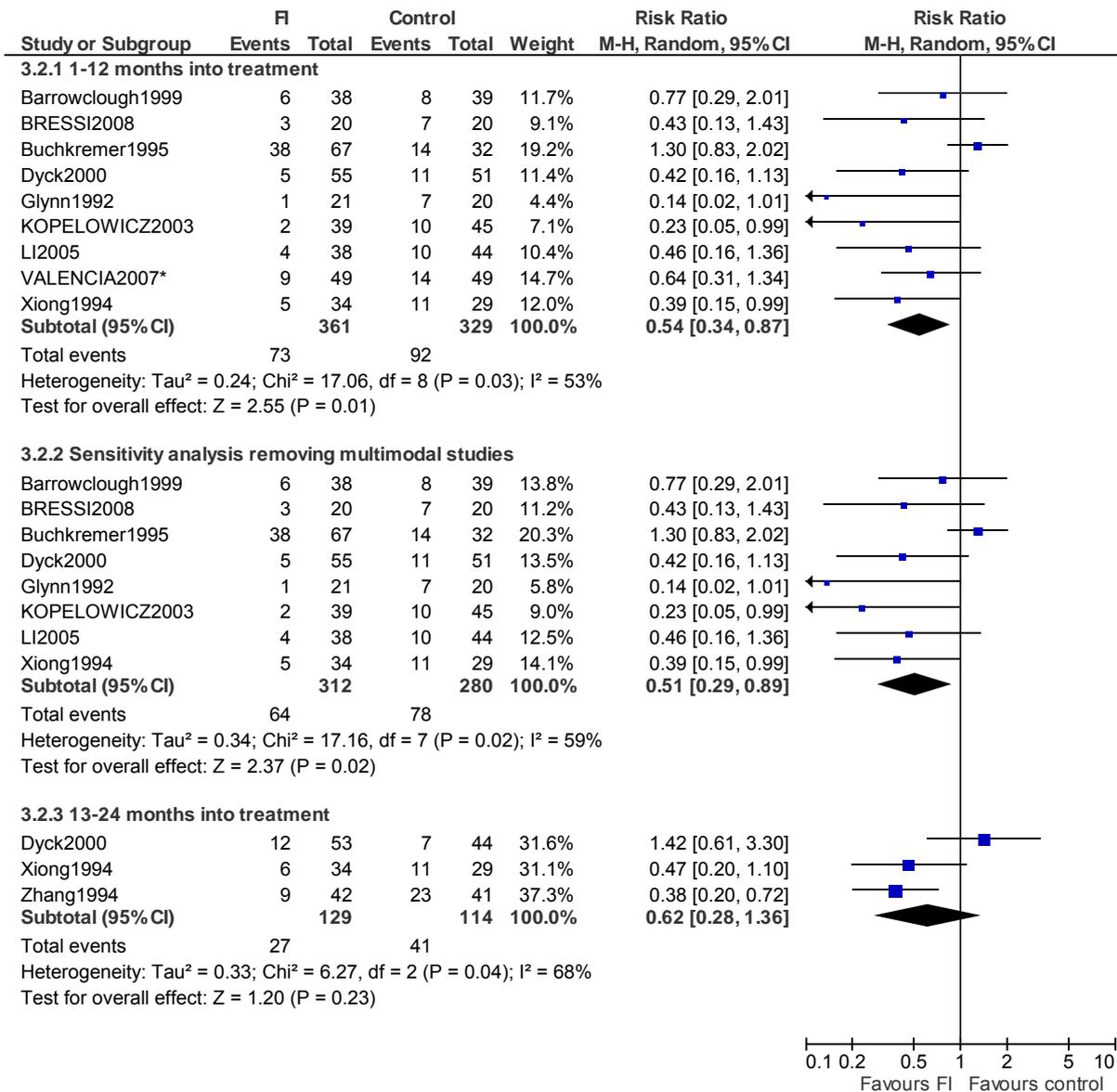
Psychological clinical evidence: Family intervention

3.1 Mortality



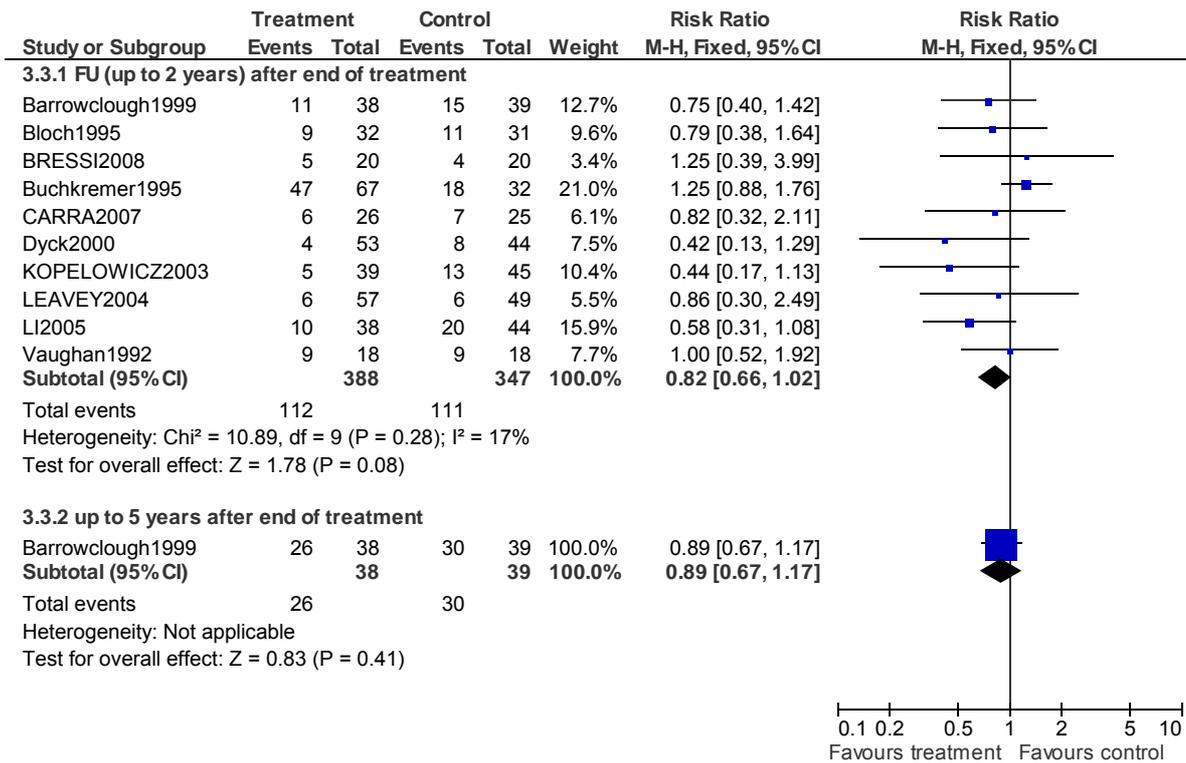
Psychological clinical evidence: Family intervention

3.2 Service outcomes: 1. Rehospitalisation (end of treatment)

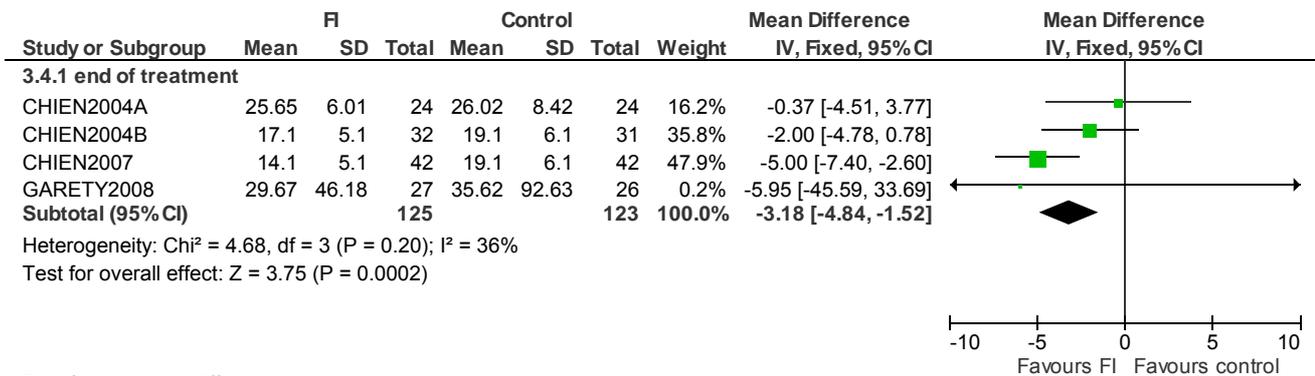


Psychological clinical evidence: Family intervention

3.3 Service outcomes: 1. Rehospitalisation (at FU)

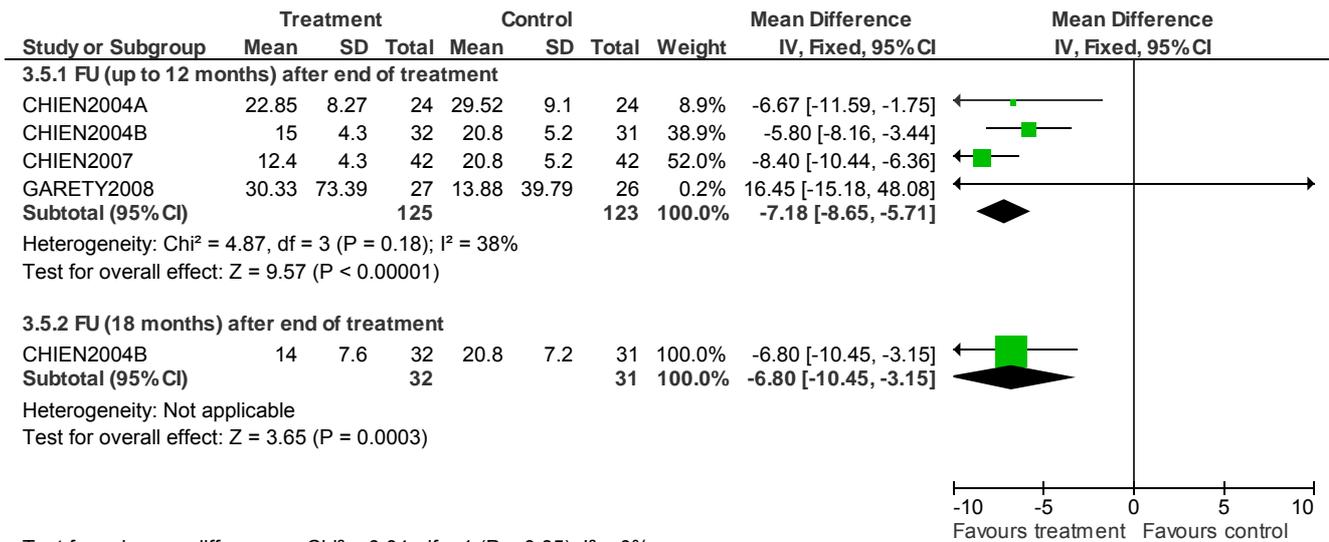


3.4 Service outcomes: 2. Duration of rehospitalisation (days)

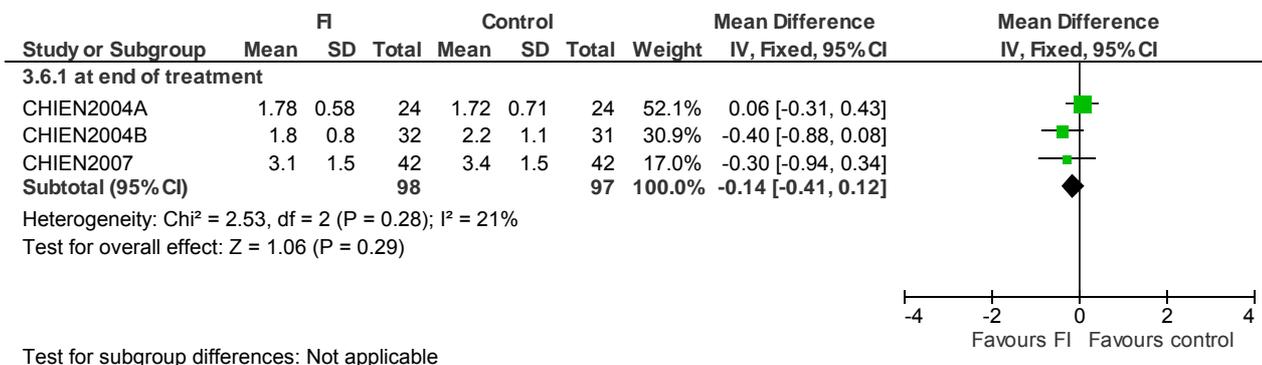


Psychological clinical evidence: Family intervention

3.5 Service outcomes: 2. Duration of rehospitalisation (days) (at FU)

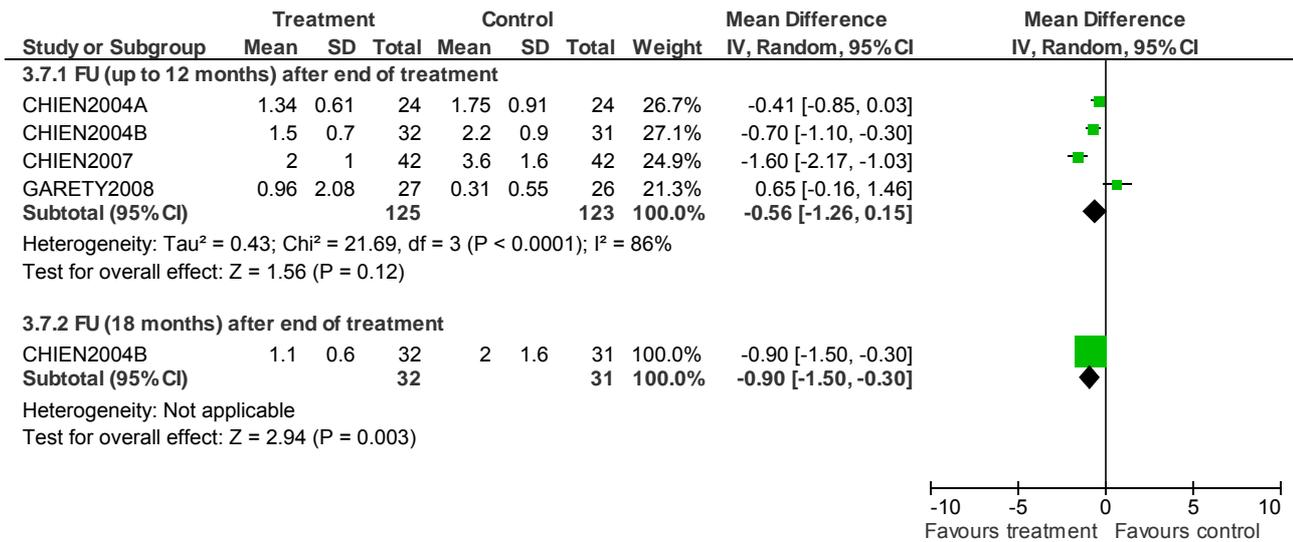


3.6 Service outcomes: 3. Number of rehospitalisation

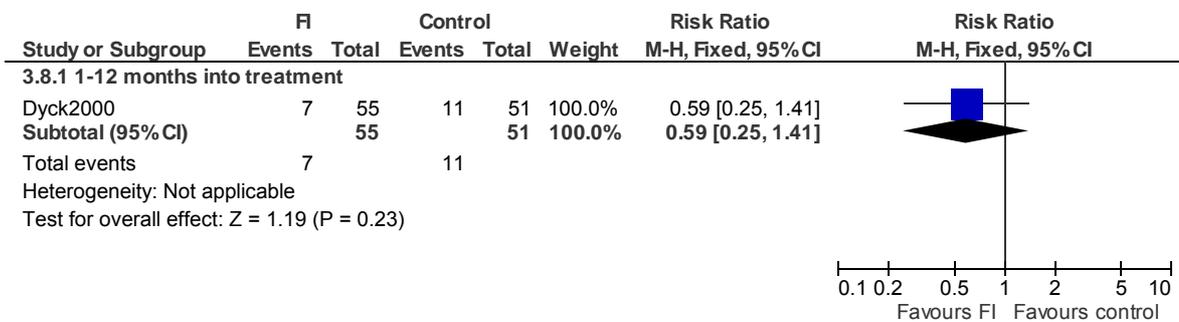


Psychological clinical evidence: Family intervention

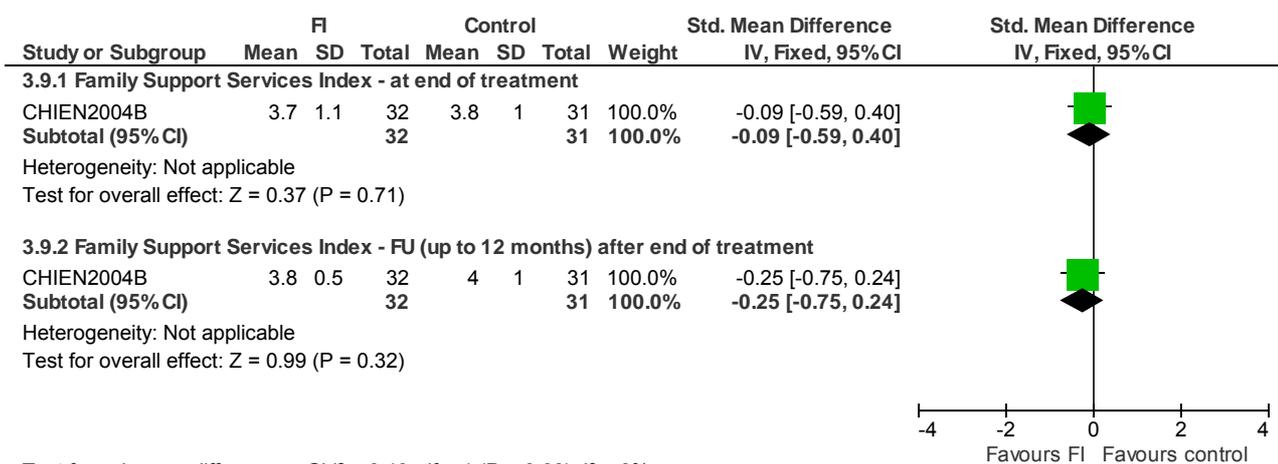
3.7 Service outcomes: 3. Number of rehospitalisation (at FU)



3.8 Service outcomes: 4. Crisis Care Service use



3.9 Service outcomes: 5. Mental health service needs and use



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

Psychological clinical evidence: Family intervention

3.10 Service outcomes: 6. Outpatient treatment (hours) - data skewed

3.10.1 1-12 months into treatment

Study ID	FI: mean (SD)	Control: mean (SD)	F from ANCOVA
Dyck2000	79.3 (94.6)	53.6 (74.2)	F(1,89)=7.1,p<.05

3.10.2 13-24 months into treatment

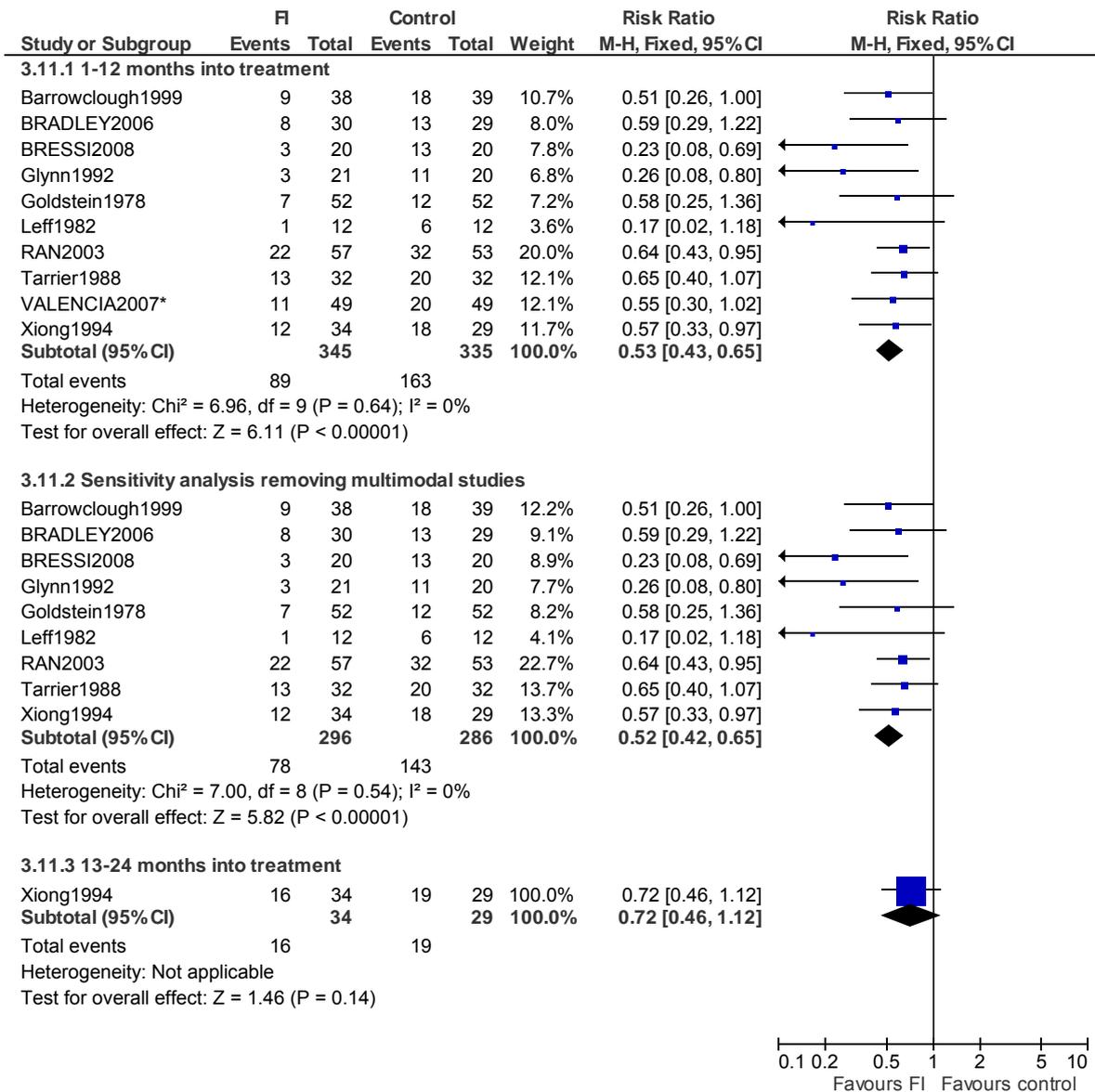
Study ID	FI: mean (SD)	Control: mean (SD)	F from ANCOVA
Dyck2000	39.9 (71.0)	27.2 (51.9)	F(1,89)=4.0,p<.05

3.10.3 up to 1 year FU

Study ID	FI: mean (SD)	Control: mean (SD)	F from ANCOVA
Dyck2000	14.0 (15.8)	25.2 (33.5)	p>.05

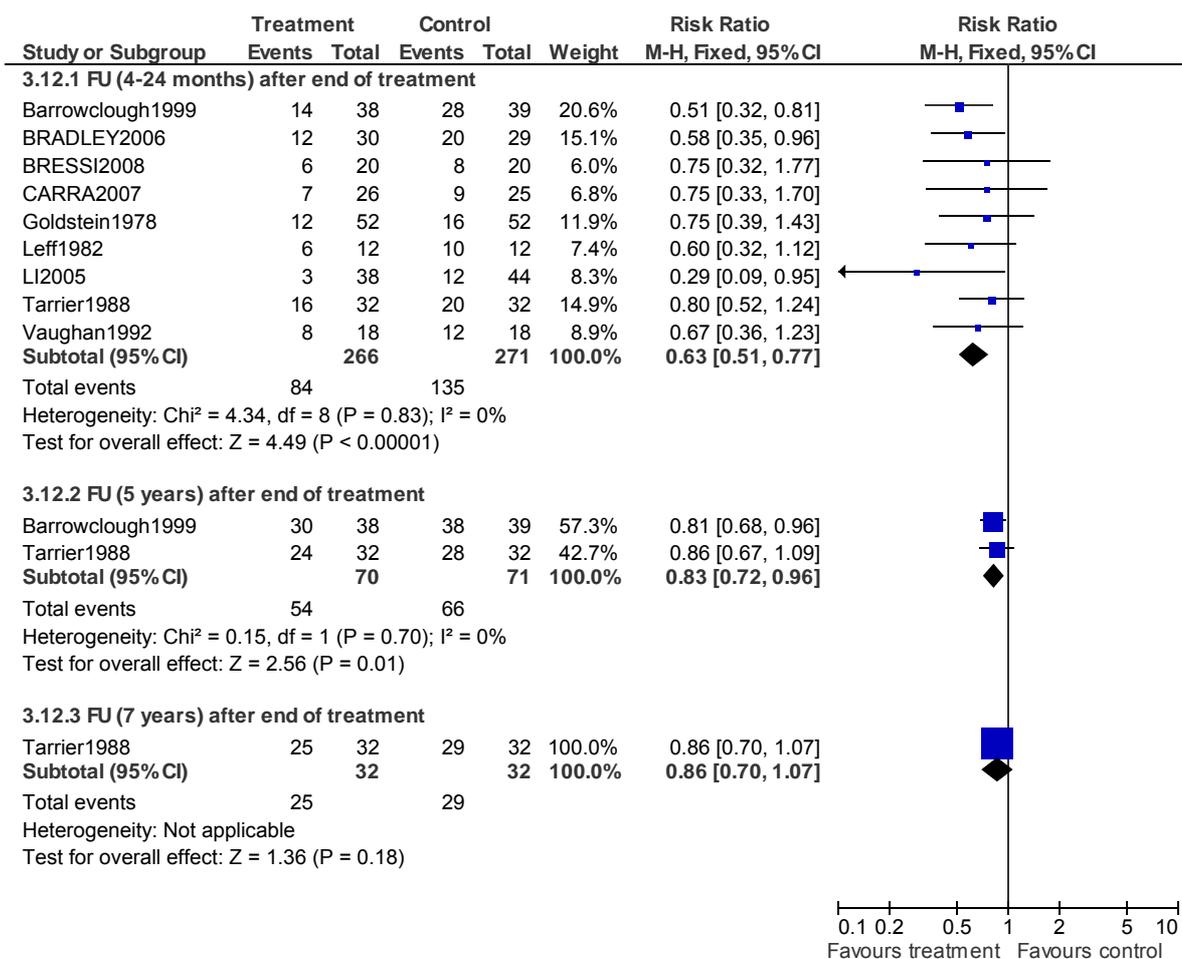
Psychological clinical evidence: Family intervention

3.11 Global state: 1. Relapse



Psychological clinical evidence: Family intervention

3.12 Global state: 1. Relapse (at FU)

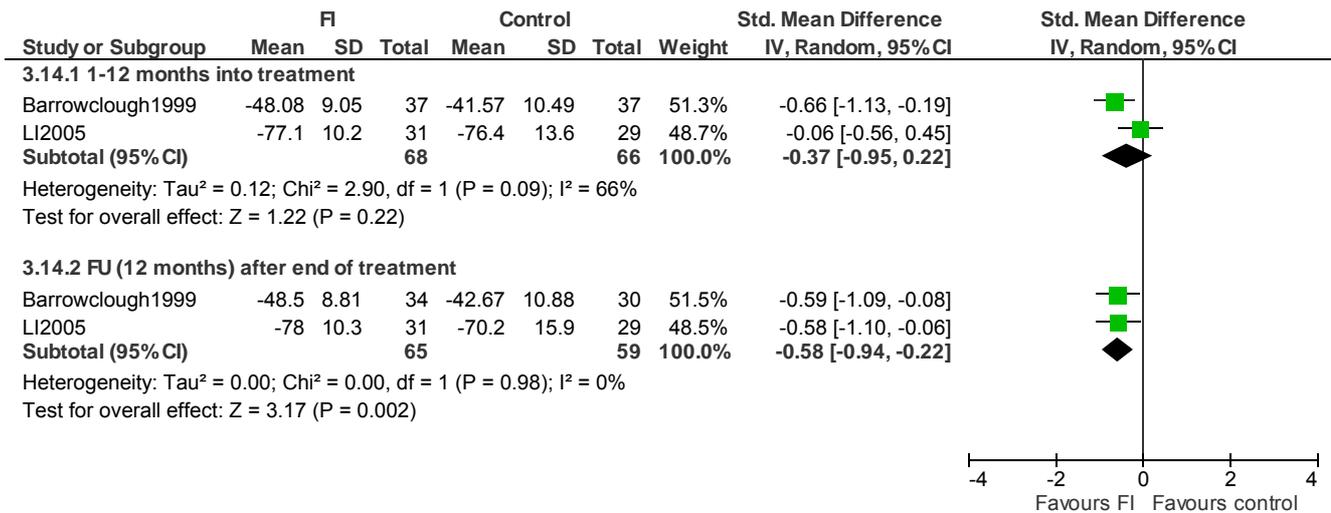


3.13 Global state: 2. Relapse-Kaplan-Meier survival curves for time to relapse (at end of treatment)

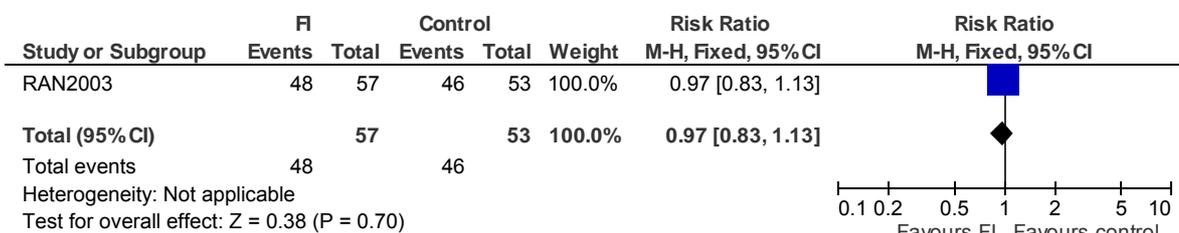
Study ID	FI	Control	Statistics
BRADLEY2006	890 days	642 days	log rank=5.22, df=1, p=.02

Psychological clinical evidence: Family intervention

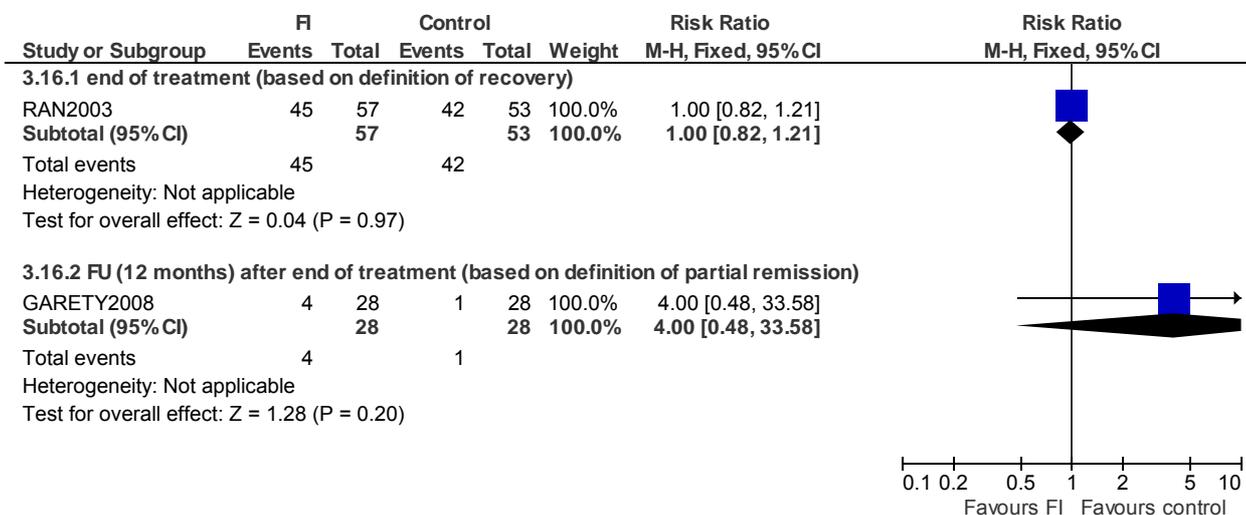
3.14 Global state: 3. Global Assessment Scale, GAF (higher = better)



3.15 Global state: 4. No significant improvement (worse-case scenario)

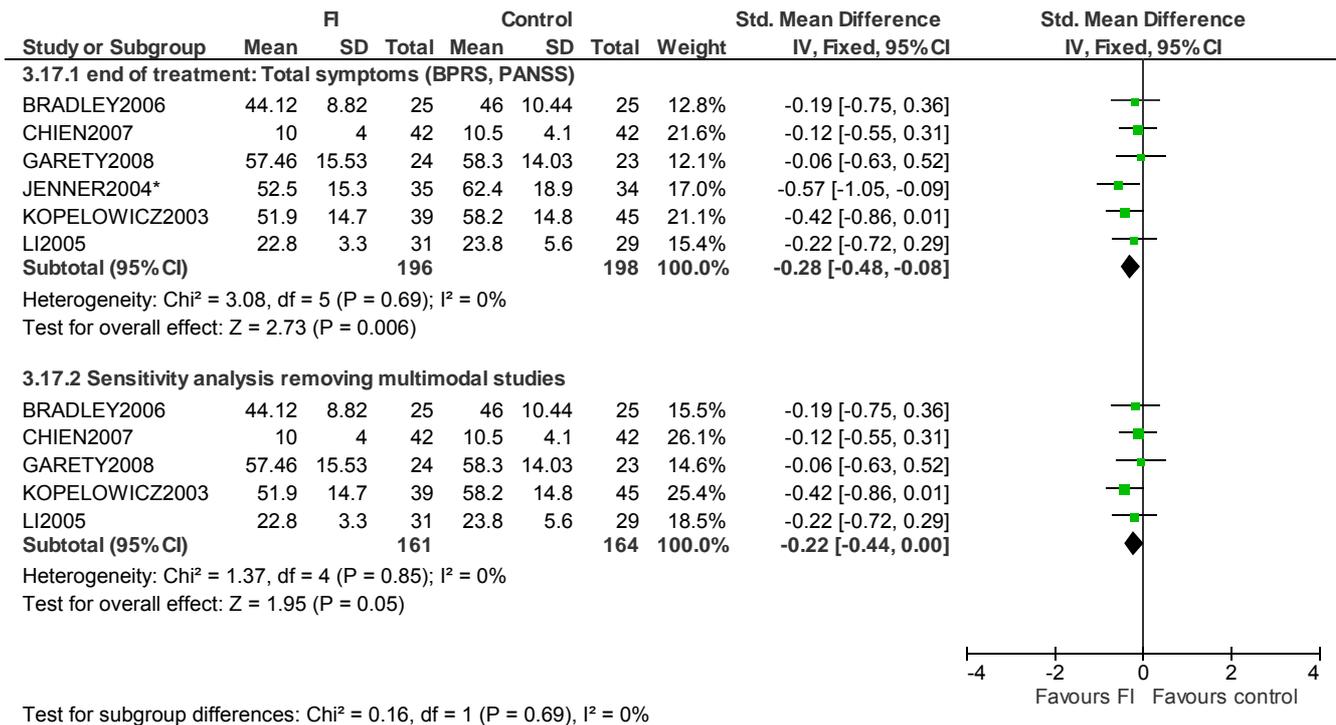


3.16 Global state: 5. Non-remission/ non-recovery (worse-case scenario)

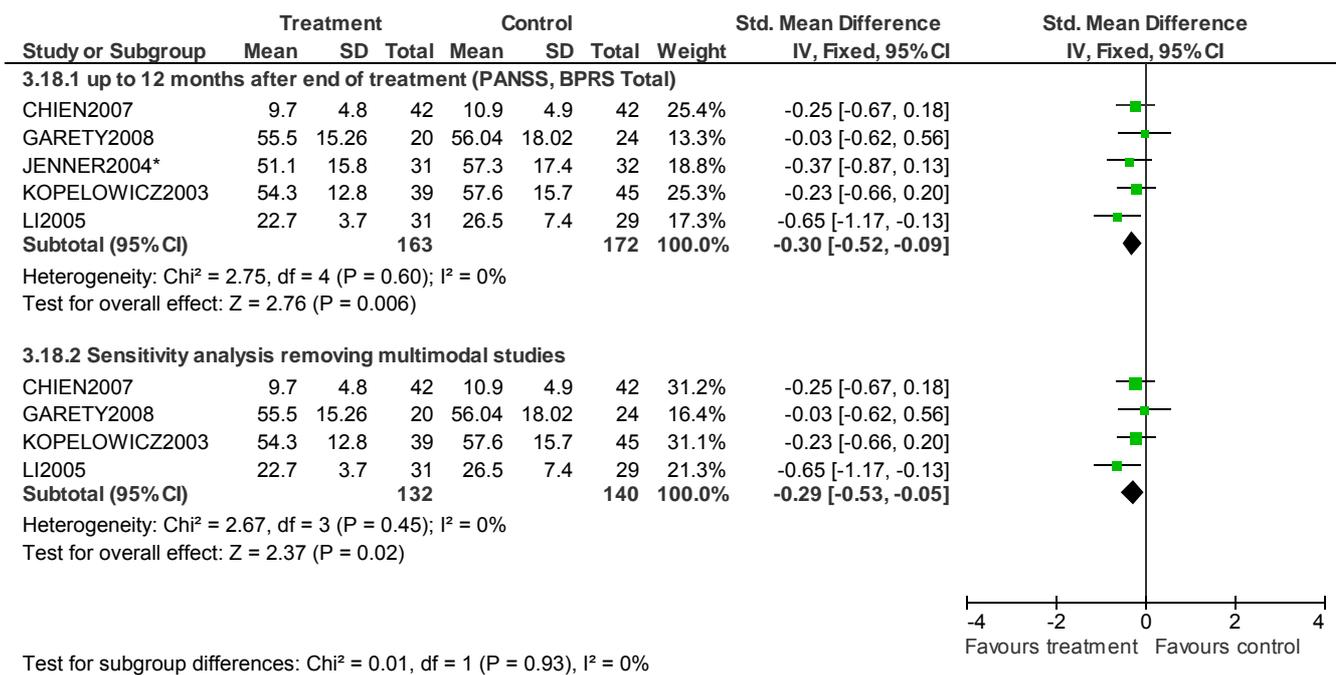


Psychological clinical evidence: Family intervention

3.17 Mental state: 1. Symptom severity - total symptoms (end of treatment) (lower = less severe)

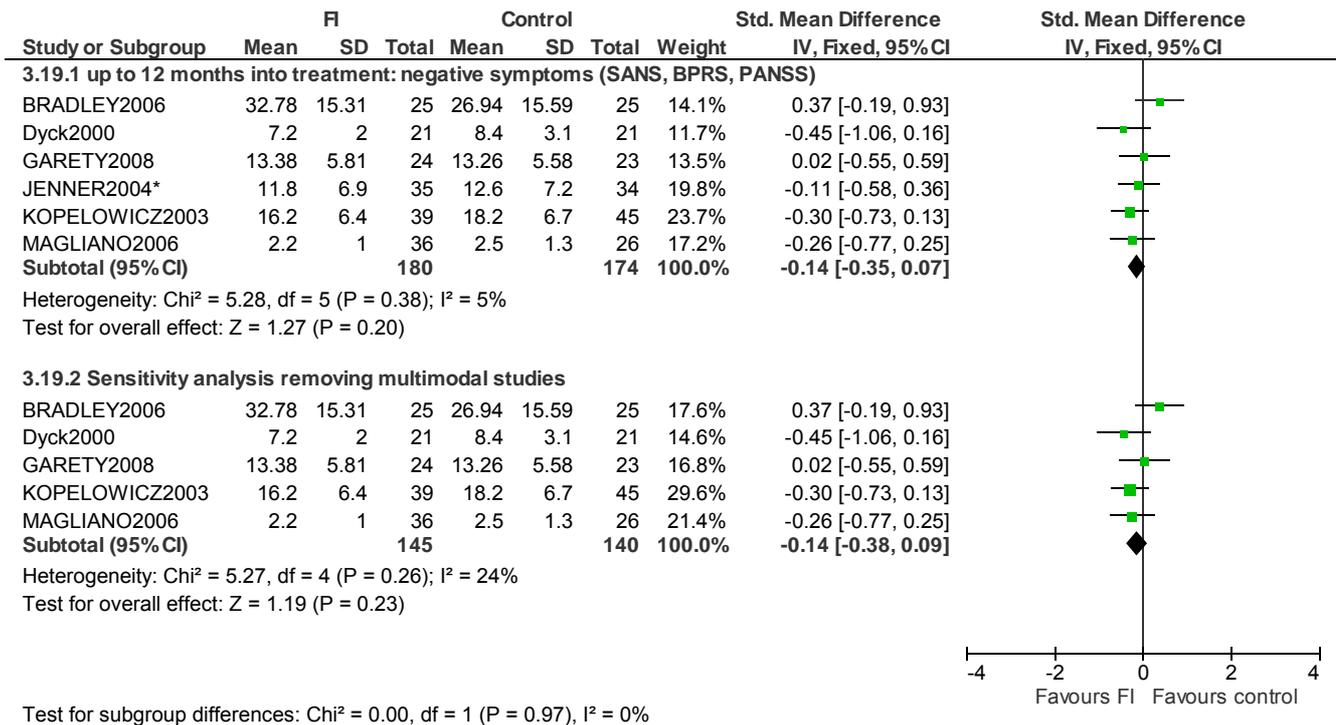


3.18 Mental state: 1. Symptom severity - total symptoms (at FU) (lower = less severe)

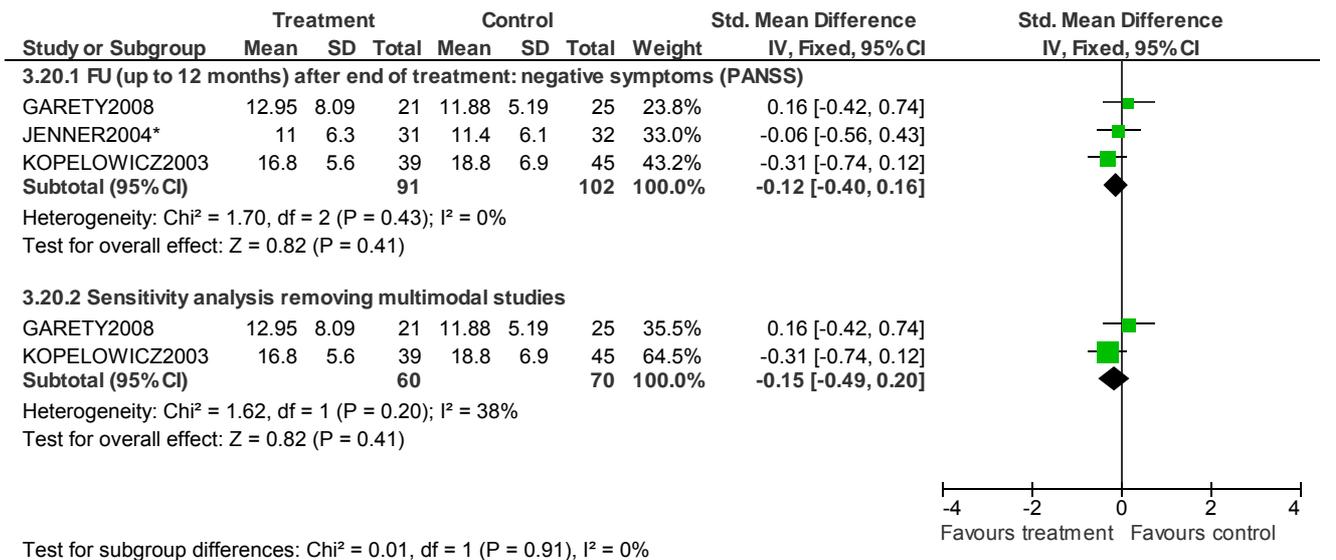


Psychological clinical evidence: Family intervention

3.19 Mental state: 2. Symptom severity - negative symptoms (end of treatment) (lower = less severe)

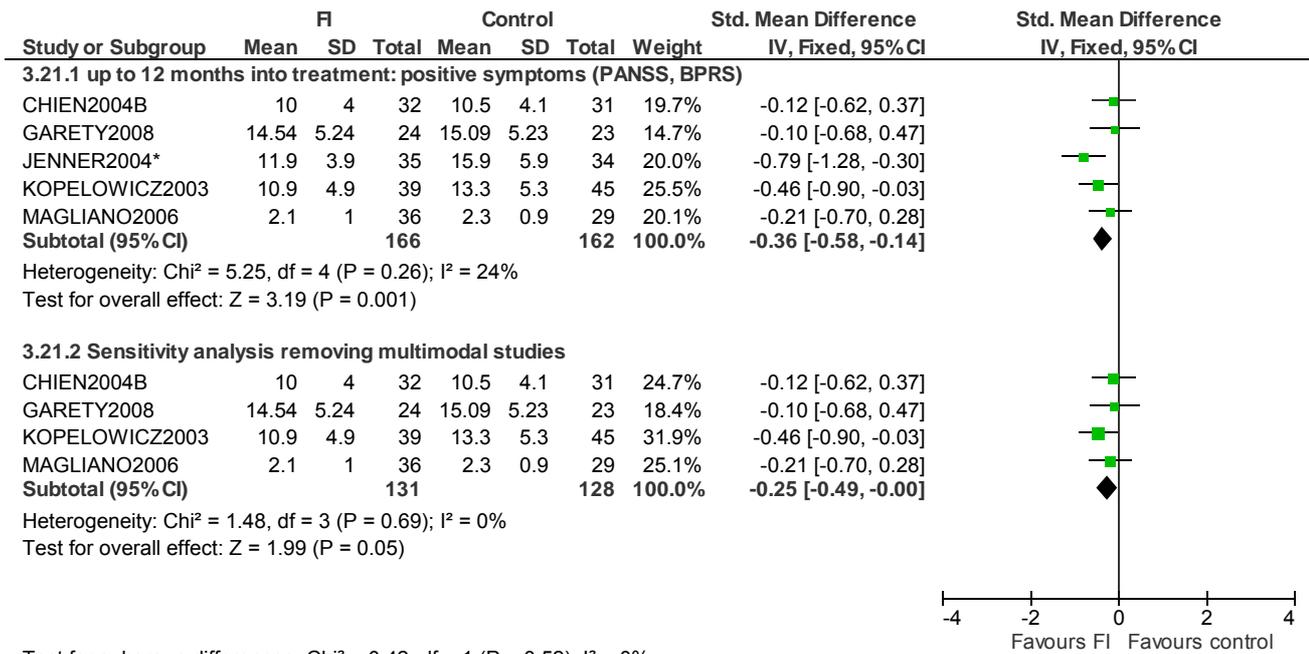


3.20 Mental State: 2. Symptom severity - negative symptoms (at FU) (lower = less severe)

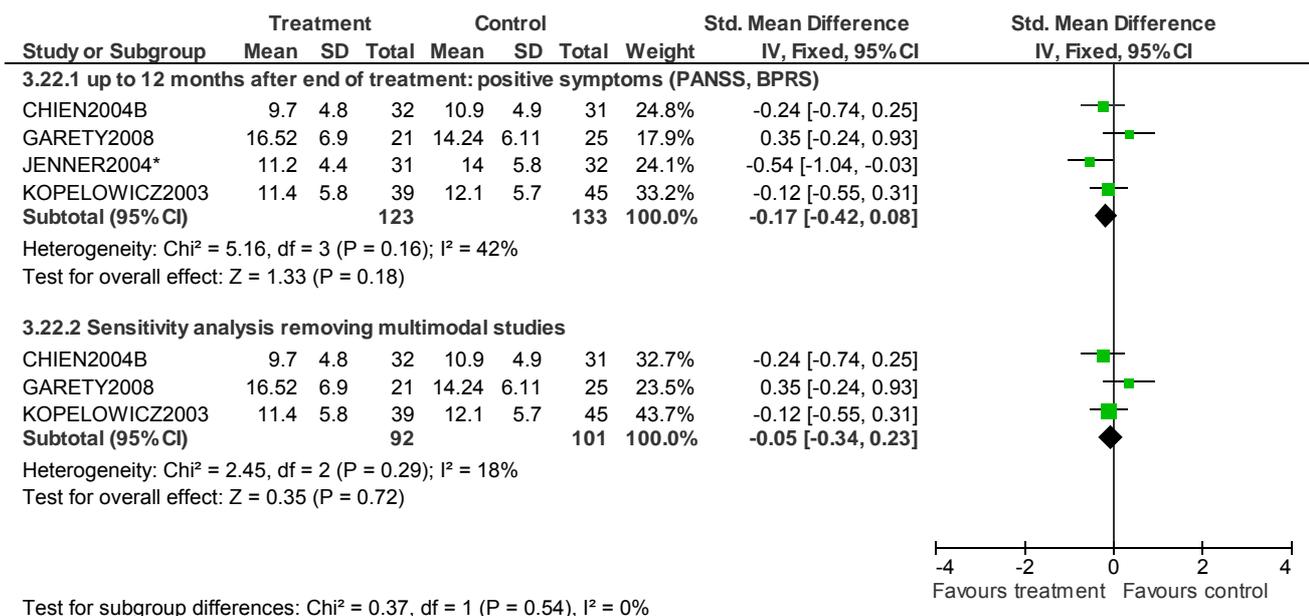


Psychological clinical evidence: Family intervention

3.21 Mental state: 3. Symptom severity - positive symptoms (end of treatment) (lower = less severe)

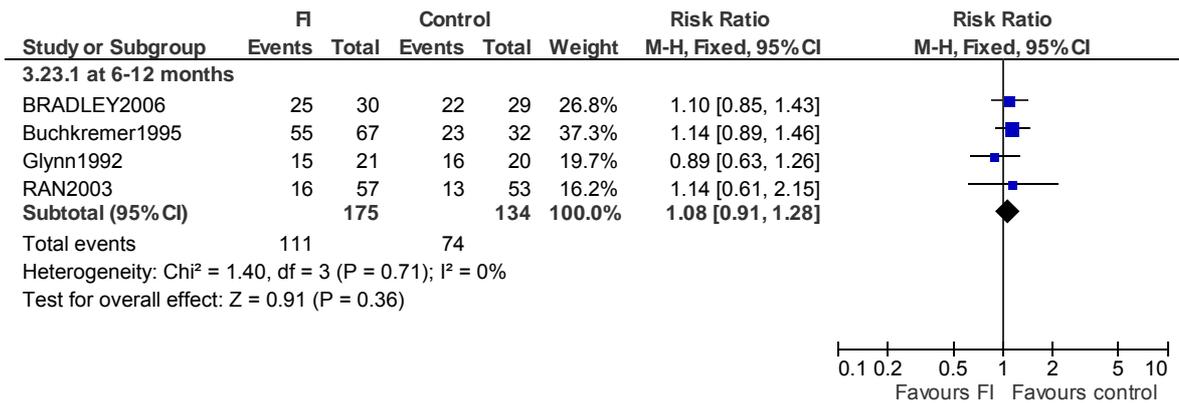


3.22 Mental state: 3. Symptom severity - positive symptoms (at FU) (lower = less severe)

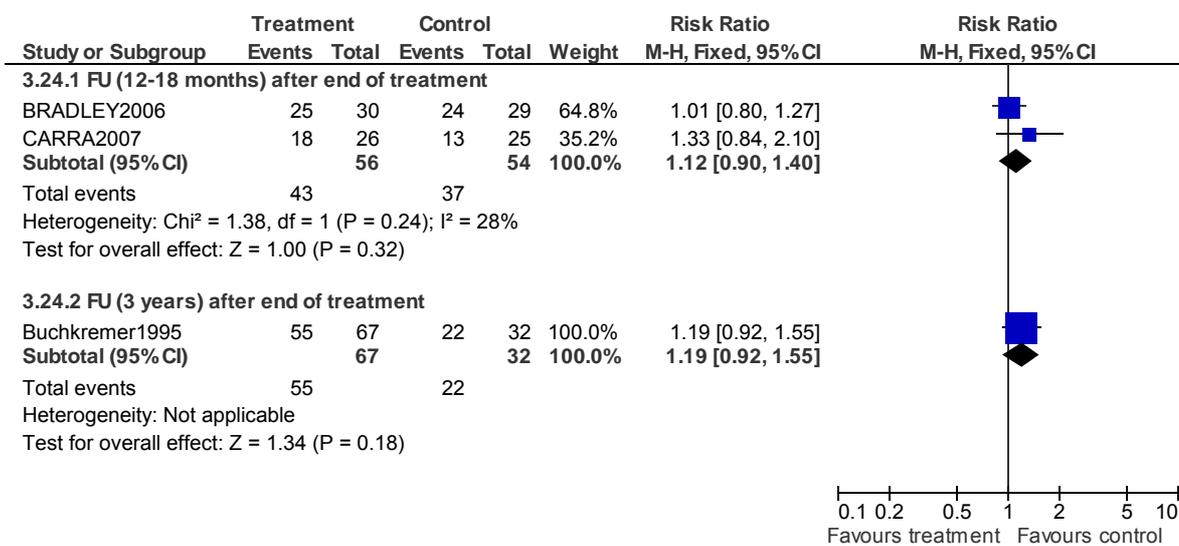


Psychological clinical evidence: Family intervention

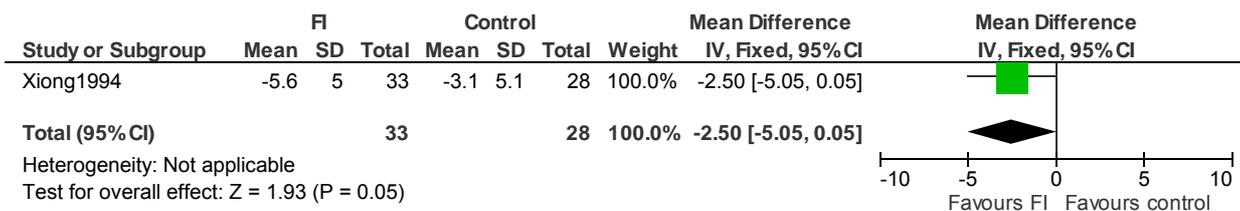
3.23 Psychosocial functioning: 1. Unemployment



3.24 Psychosocial functioning: 1. Unemployment (at FU)

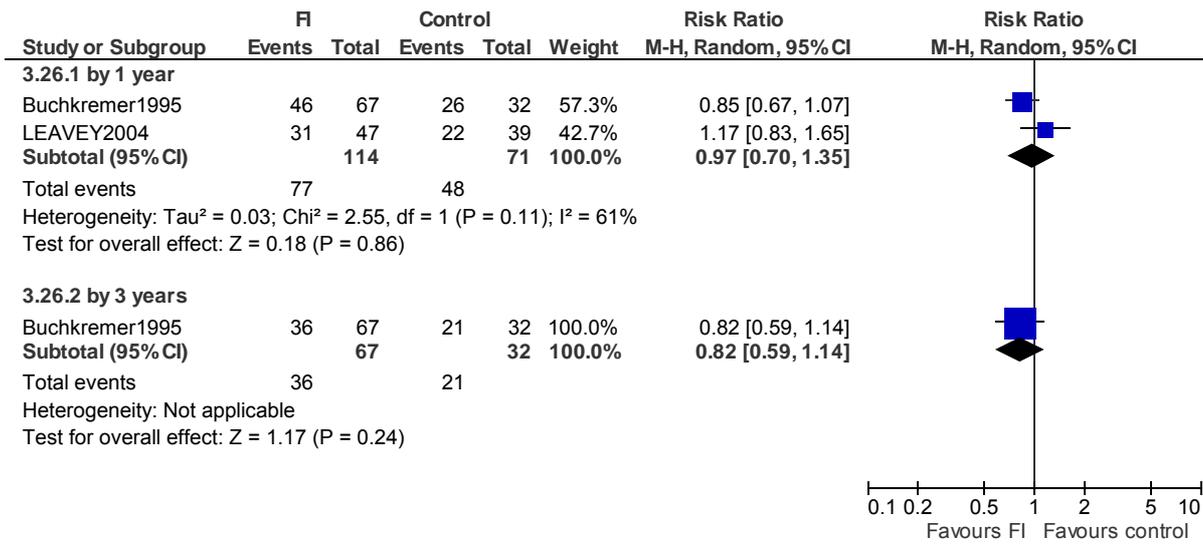


3.25 Psychosocial functioning: 2. Time in employment at one year



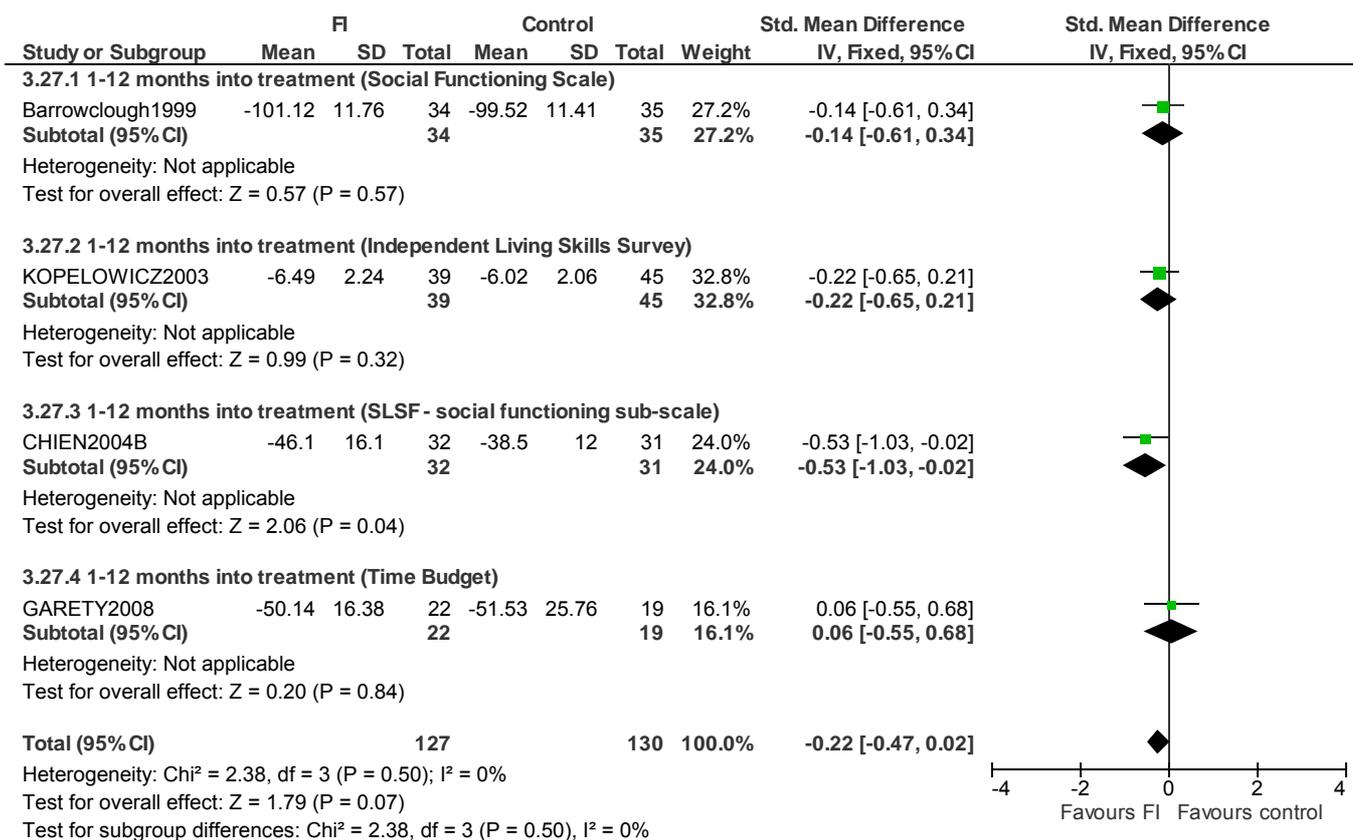
Psychological clinical evidence: Family intervention

3.26 Psychosocial functioning: 4. Not able to live independently



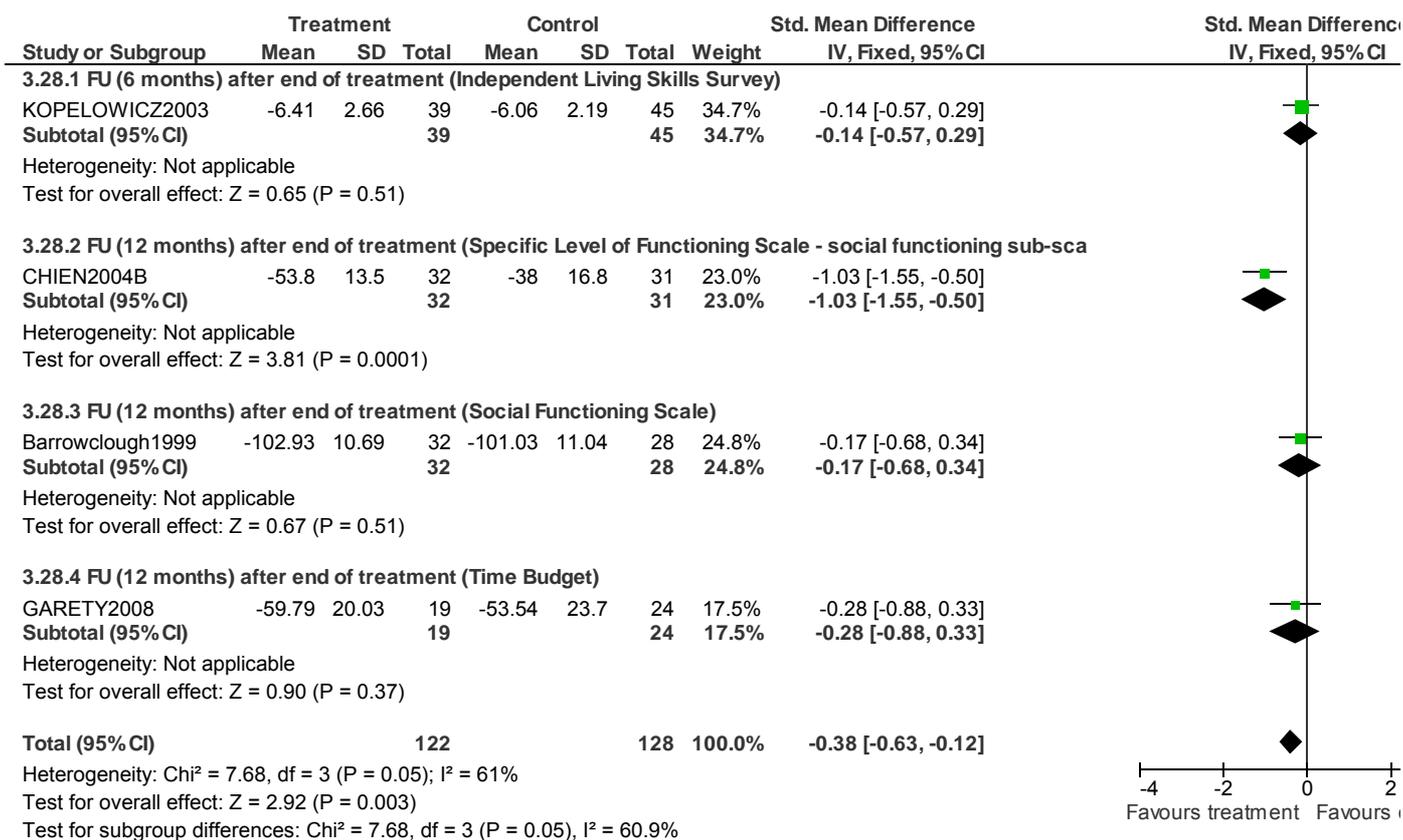
Psychological clinical evidence: Family intervention

3.27 Psychosocial functioning: 7. Social functioning (higher = better) (end of treatment)

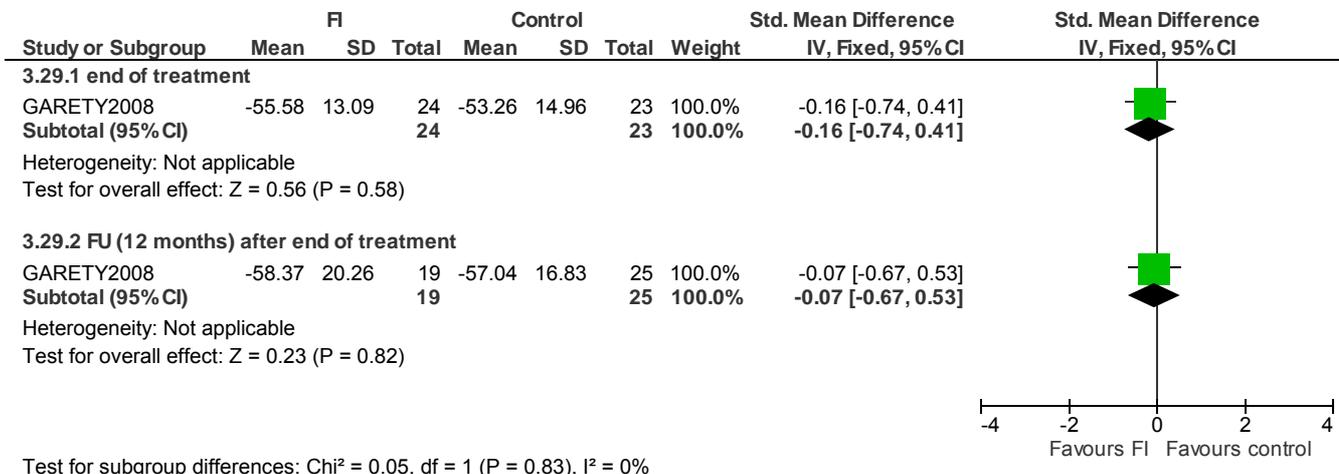


Psychological clinical evidence: Family intervention

3.28 Psychosocial functioning: 7. Social functioning (higher = better) (6-12 mths FU)

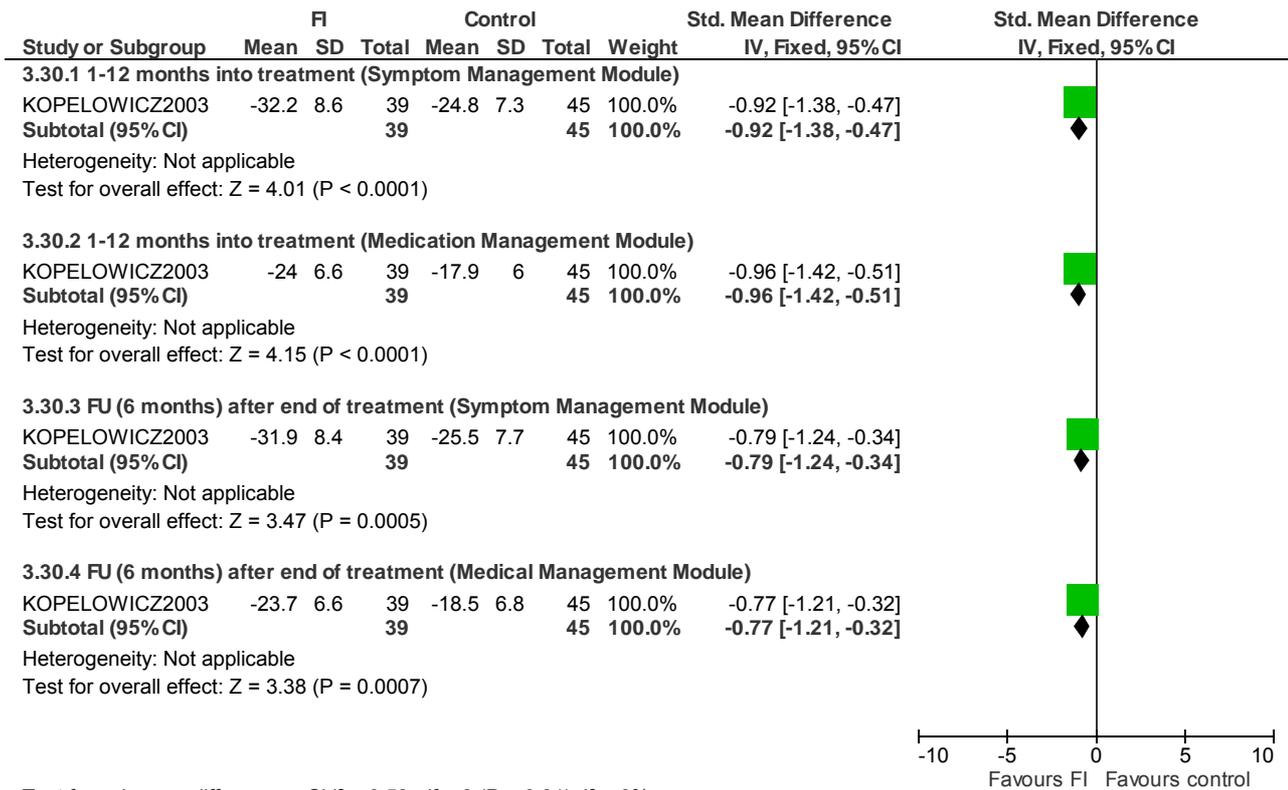


3.29 Psychosocial functioning: 8. Social and Occupational Functioning Assessment Scale (higher = better) (FU)



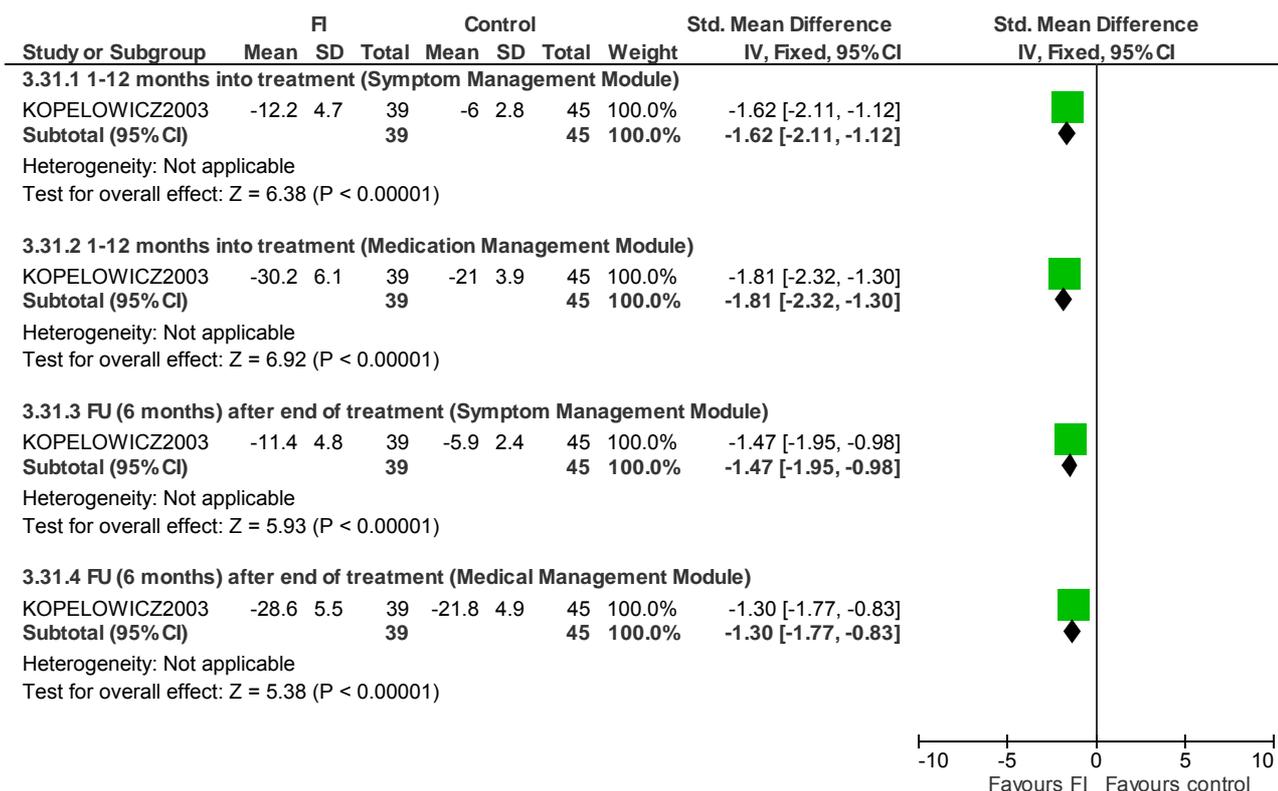
Psychological clinical evidence: Family intervention

3.30 Psychosocial functioning: 9. Symptom management - skill acquisition (higher = better)

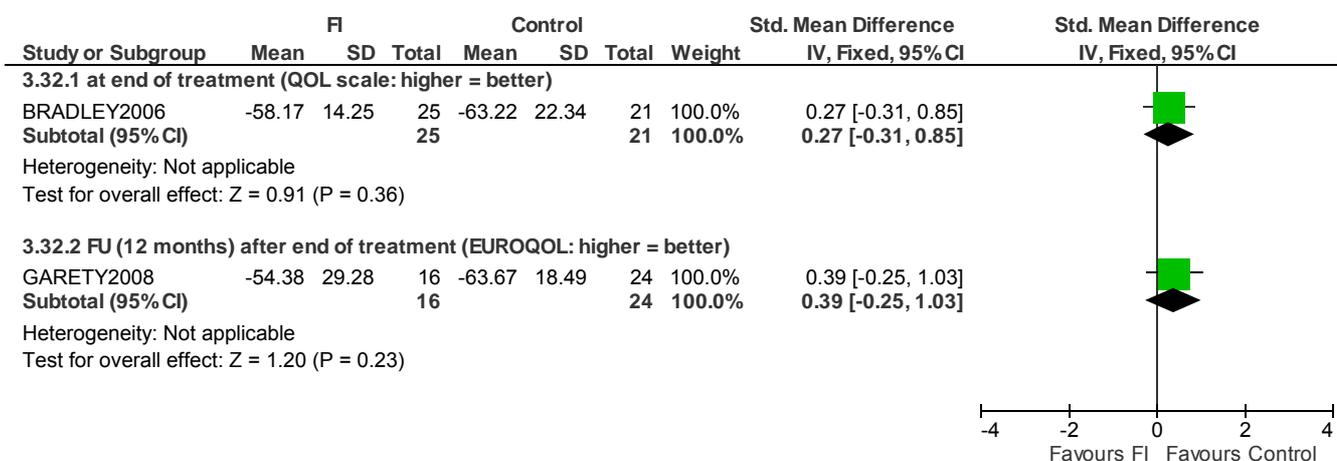


Psychological clinical evidence: Family intervention

3.31 Psychosocial functioning: 11. Symptom management - skill generalisation (higher = better)

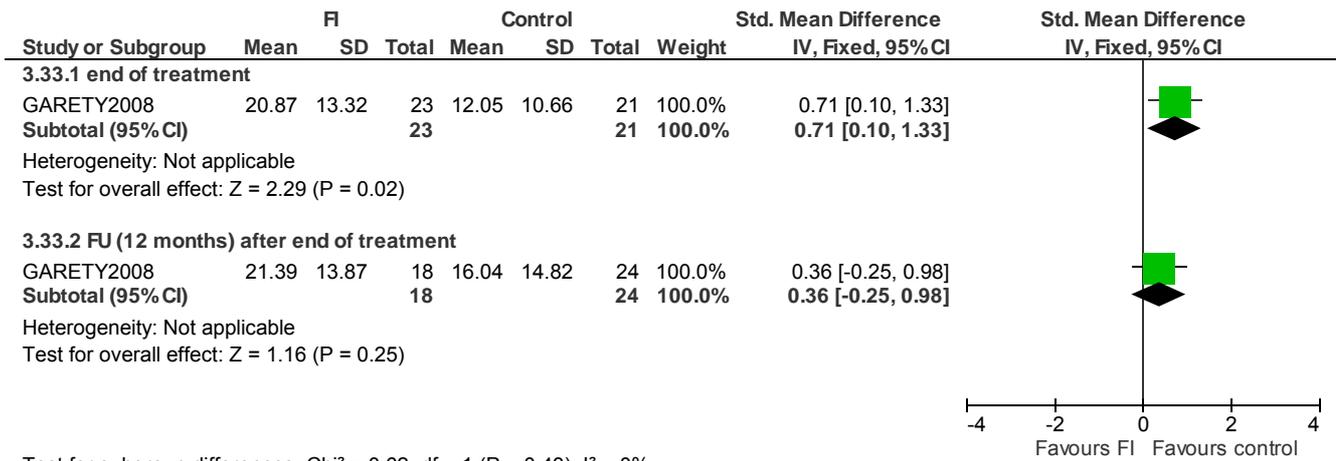


3.32 Quality of Life (higher = better)



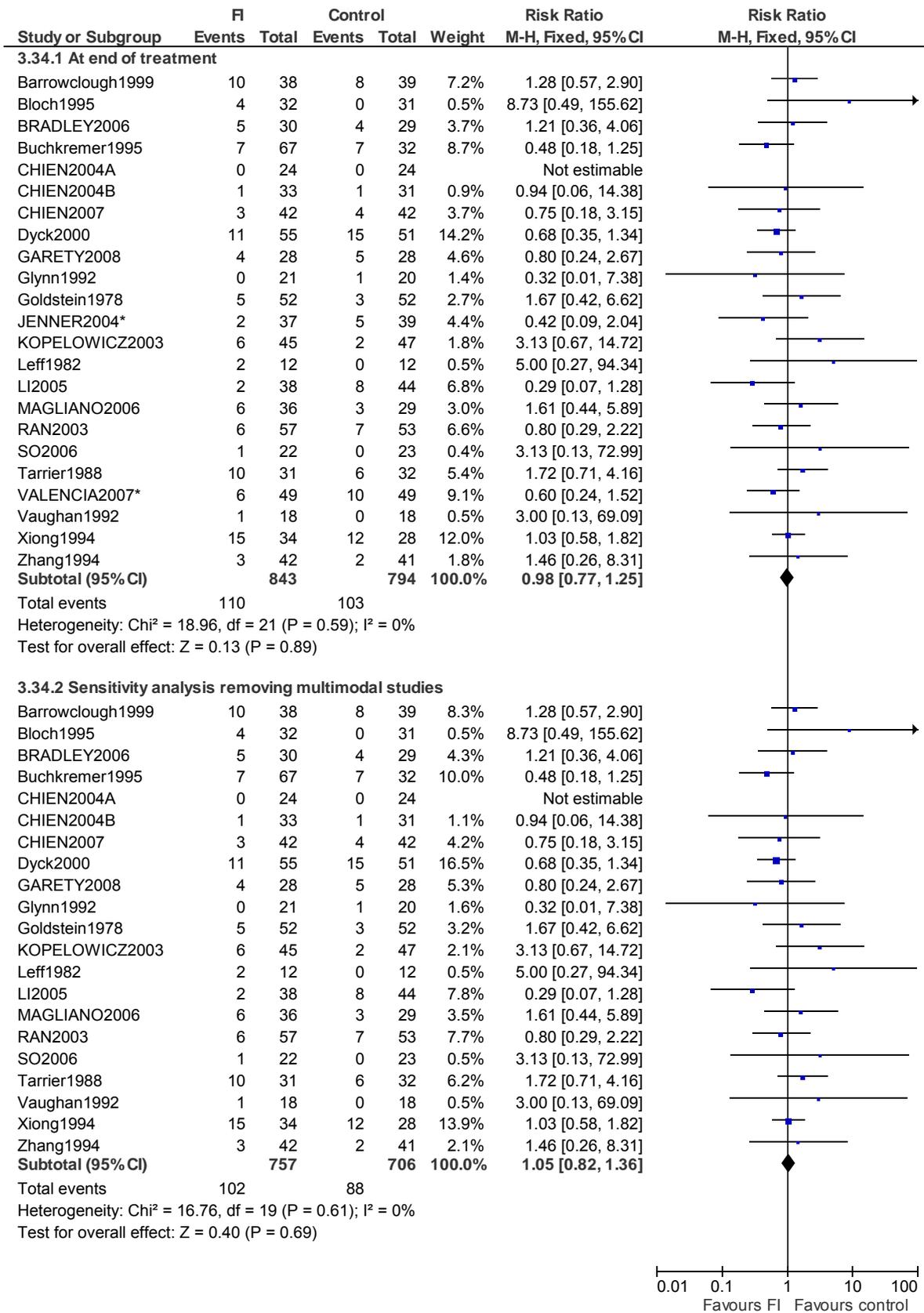
Psychological clinical evidence: Family intervention

3.33 Depression: 1. BDI (lower = better)



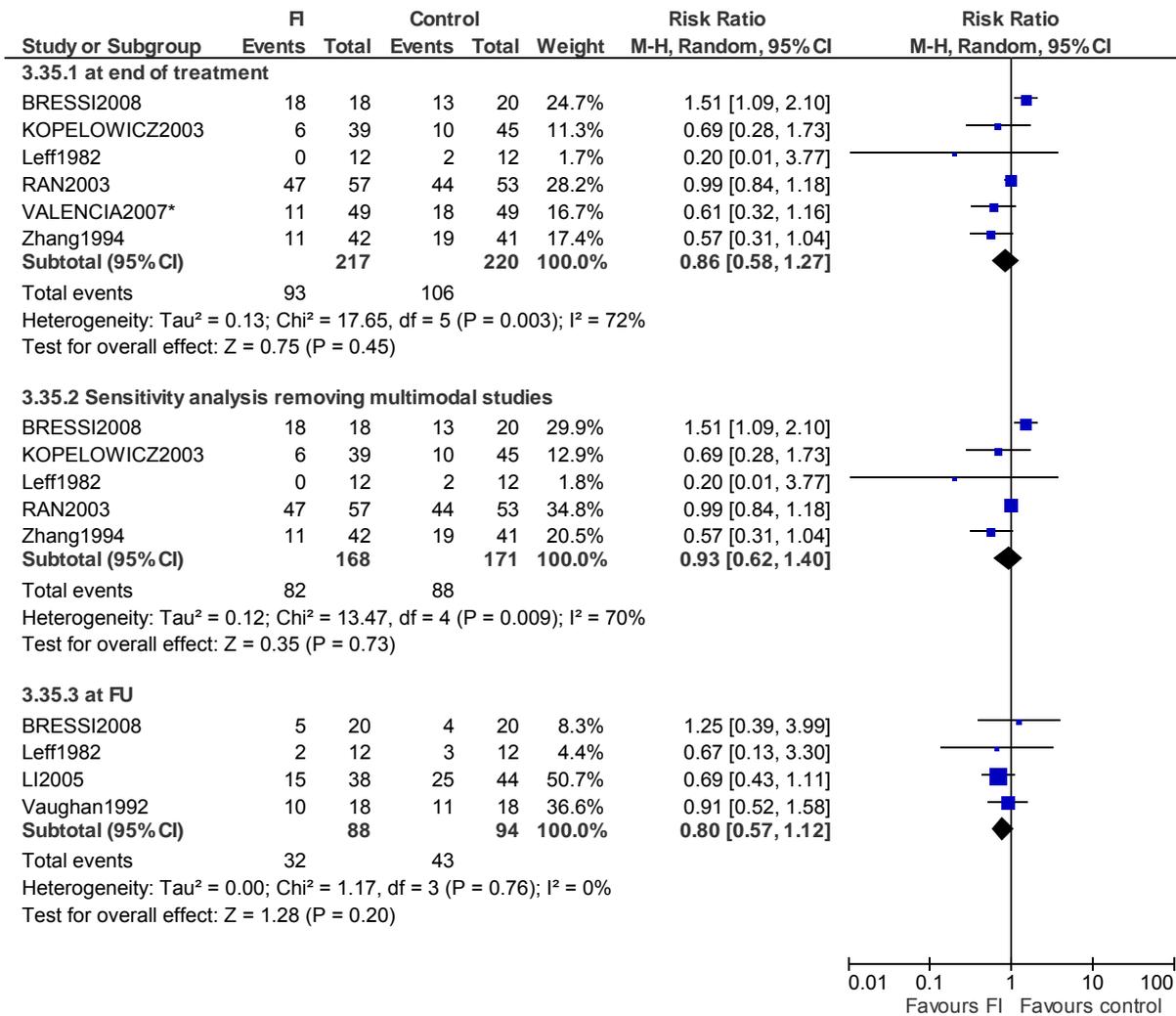
Psychological clinical evidence: Family intervention

3.34 Treatment acceptability: 1. Leaving the study early for any reason



Psychological clinical evidence: Family intervention

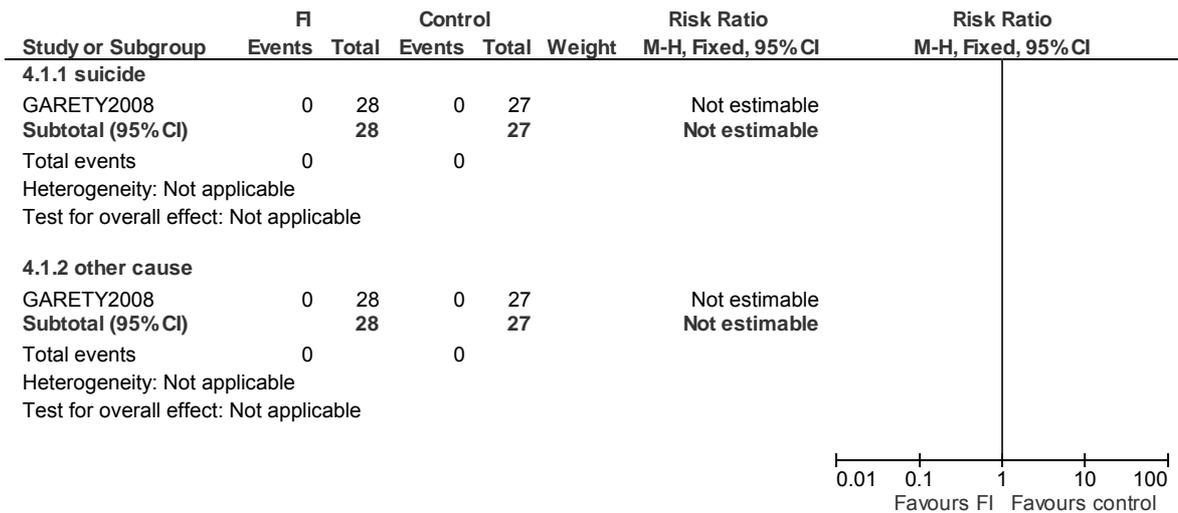
3.35 Non-adherence to study medication



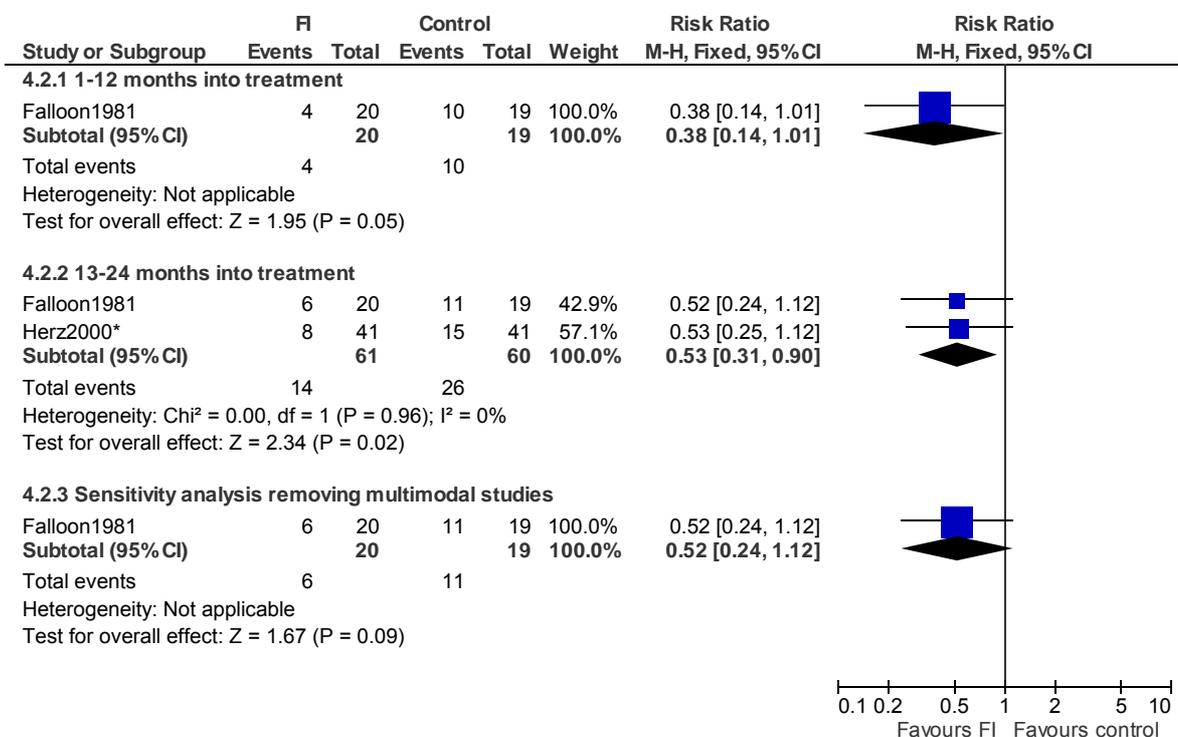
4 Family intervention versus other active treatments (critical outcomes)

Psychological clinical evidence: Family intervention

4.1 Mortality

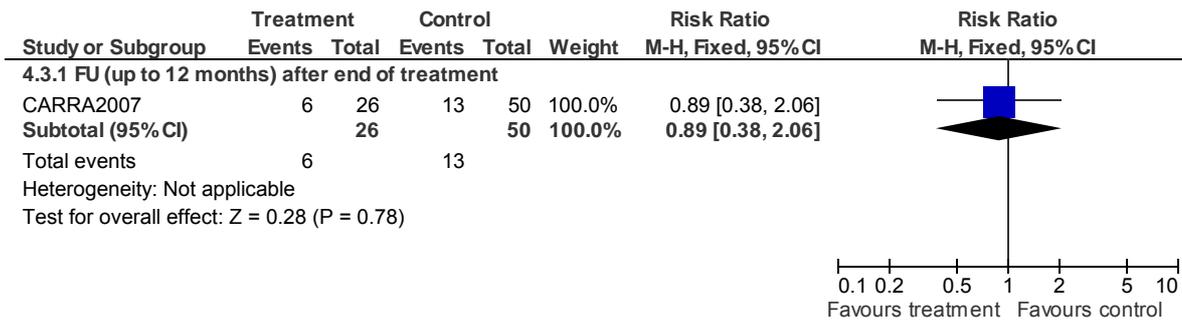


4.2 Service outcomes: 1. Hospital admission (end of treatment)

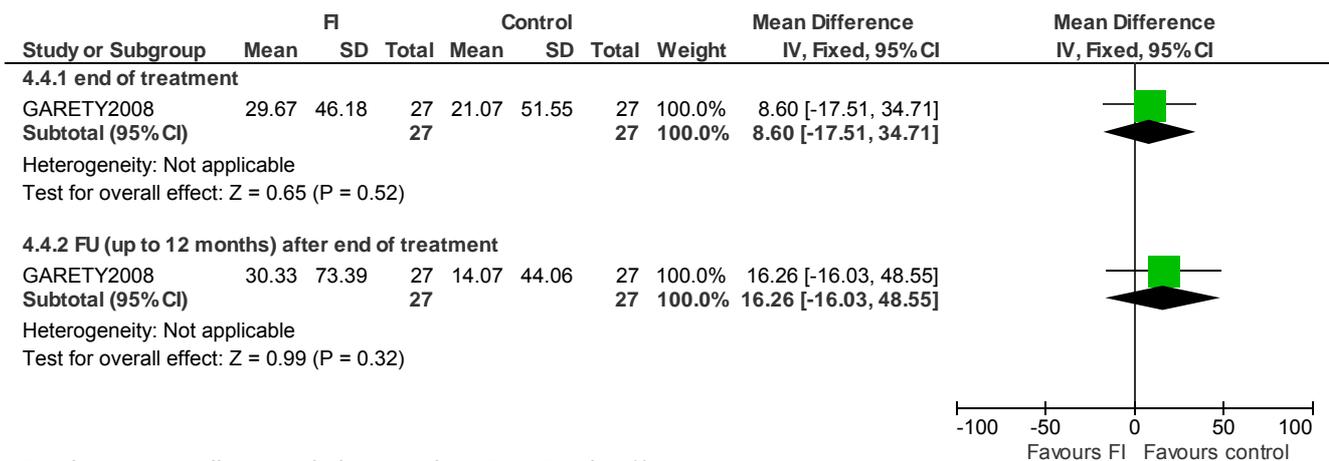


Psychological clinical evidence: Family intervention

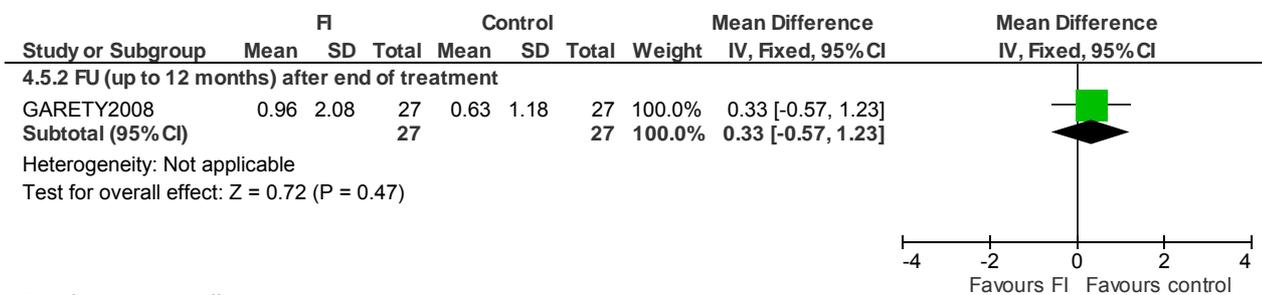
4.3 Service outcomes: 1. Hospital admission (at FU)



4.4 Service outcomes: 2. Duration of rehospitalisation (days)

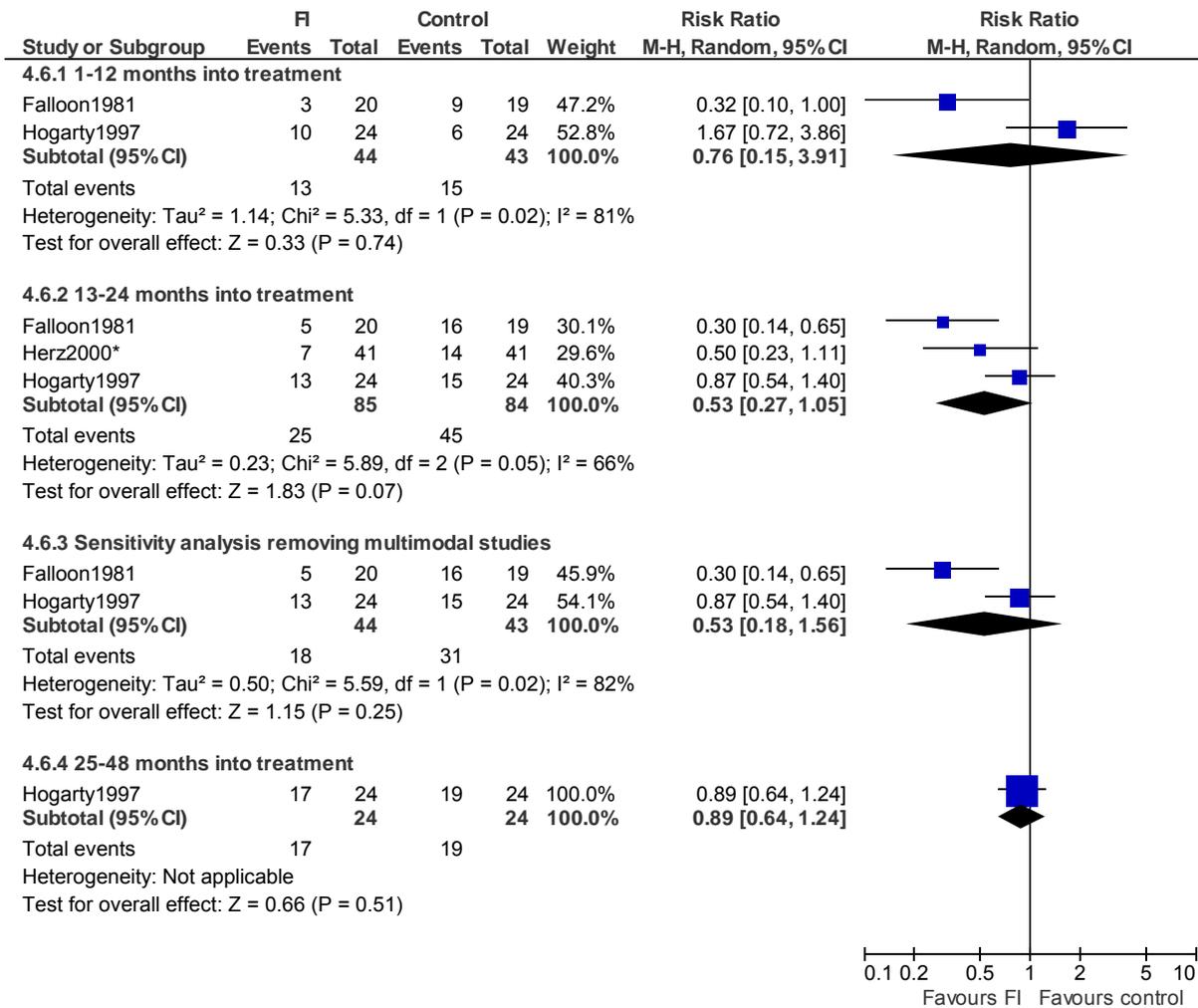


4.5 Service outcomes: 3. Number of rehospitalisation



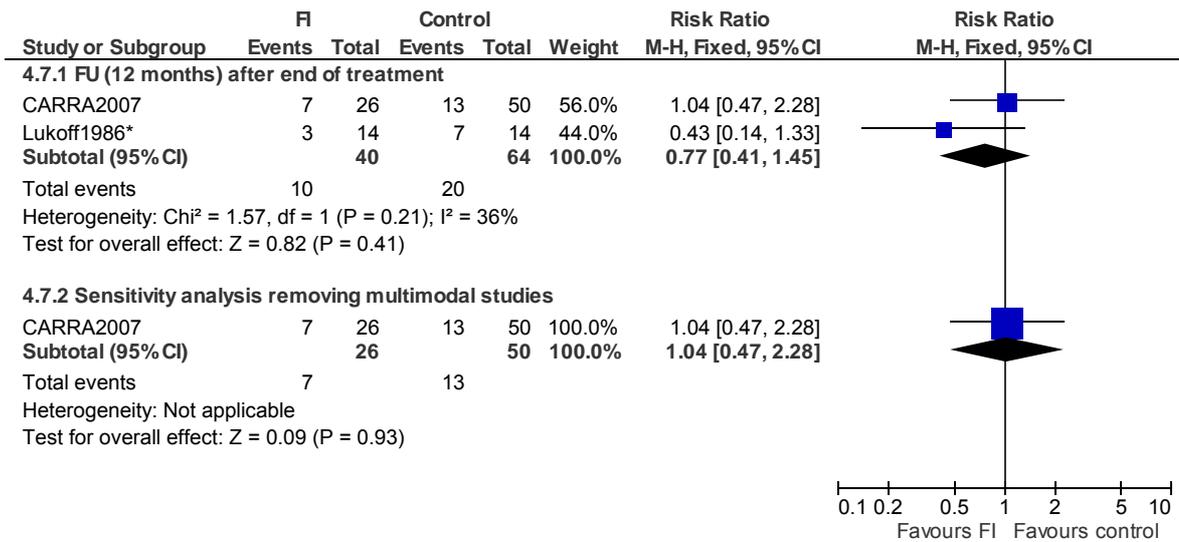
Psychological clinical evidence: Family intervention

4.6 Global state: 1. Relapse

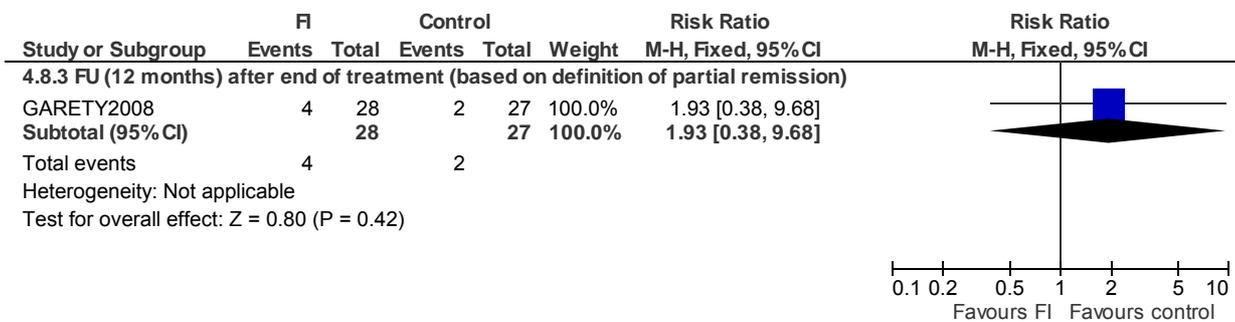


Psychological clinical evidence: Family intervention

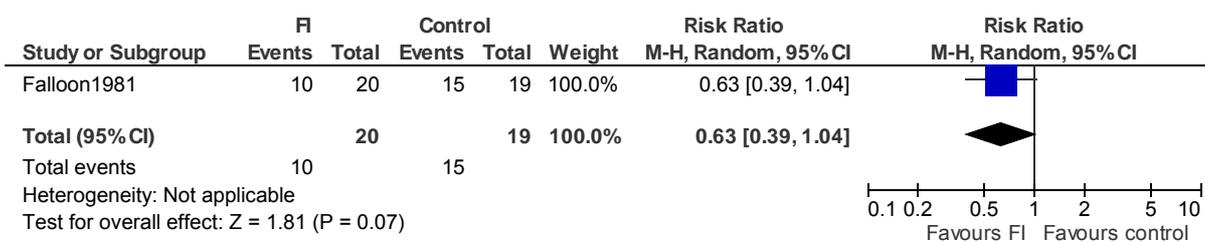
4.7 Global state: 1. Relapse (at FU)



4.8 Global state: 2. Non-remission/ non-recovery (worse-case scenario)

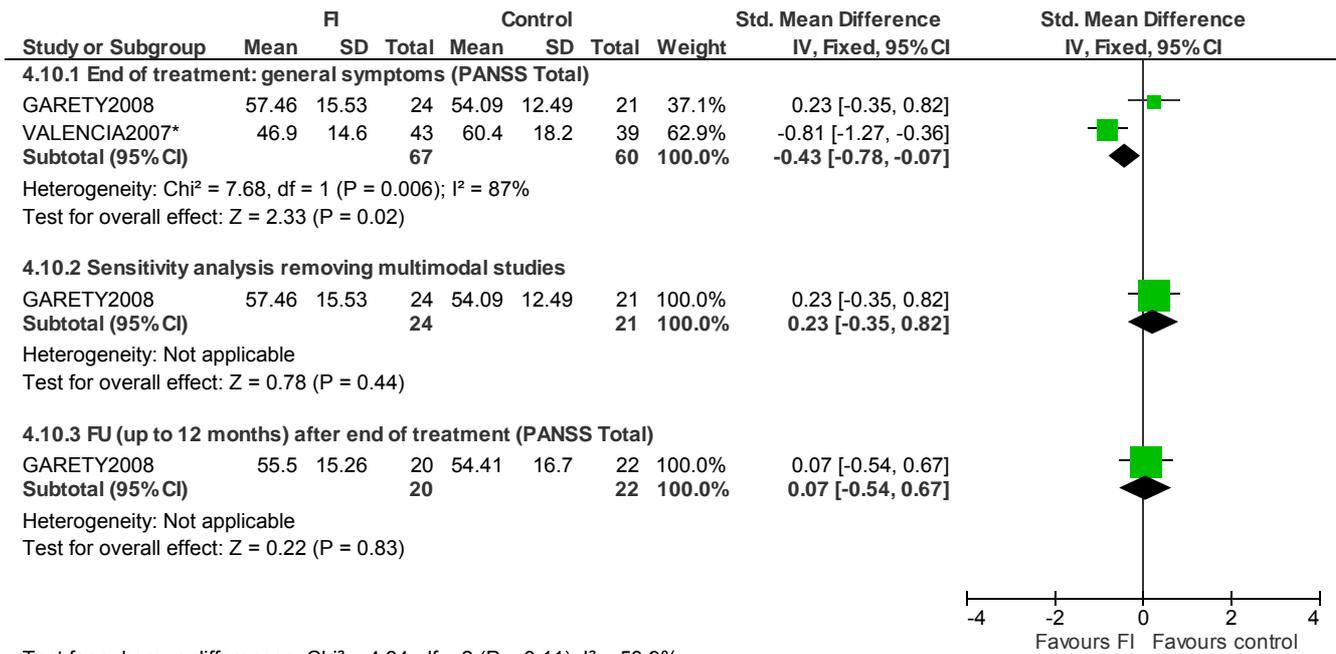


4.9 Global state: 3. No significant improvement (worse-case scenario)

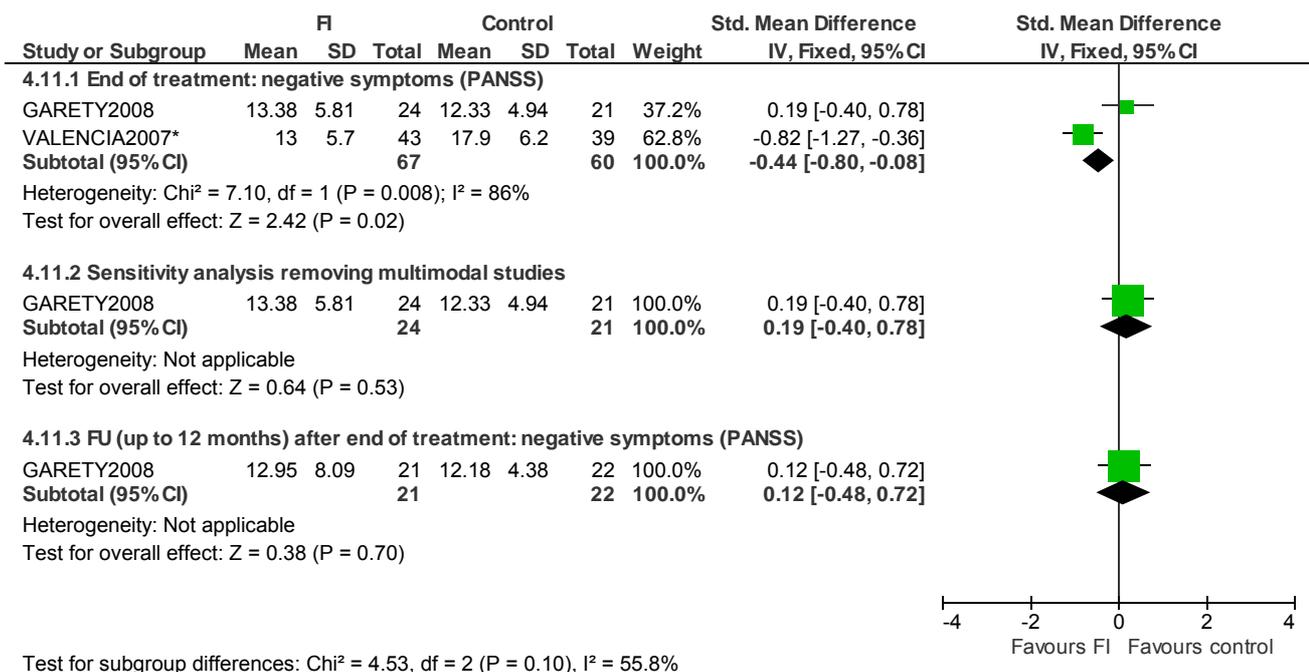


Psychological clinical evidence: Family intervention

4.10 Mental state : 1. Symptom severity - total symptoms (end of treatment) (lower = less severe)

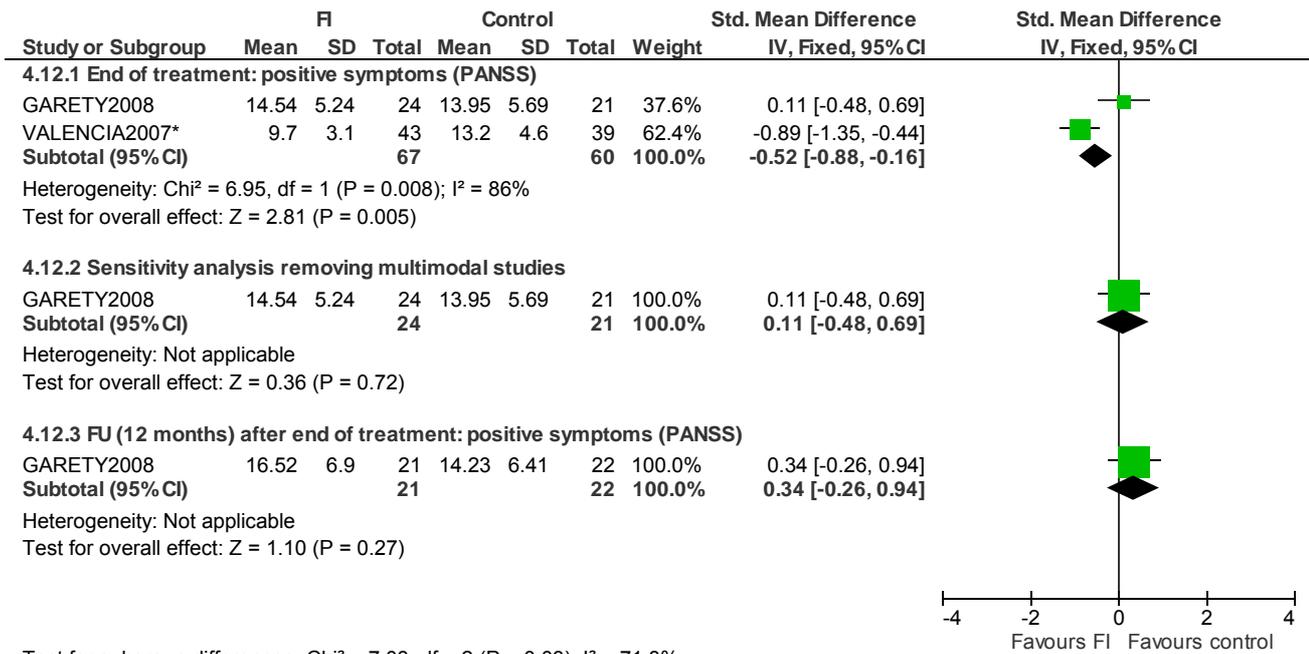


4.11 Mental state : 2. Symptom severity - negative symptoms (end of treatment) (lower = less severe)

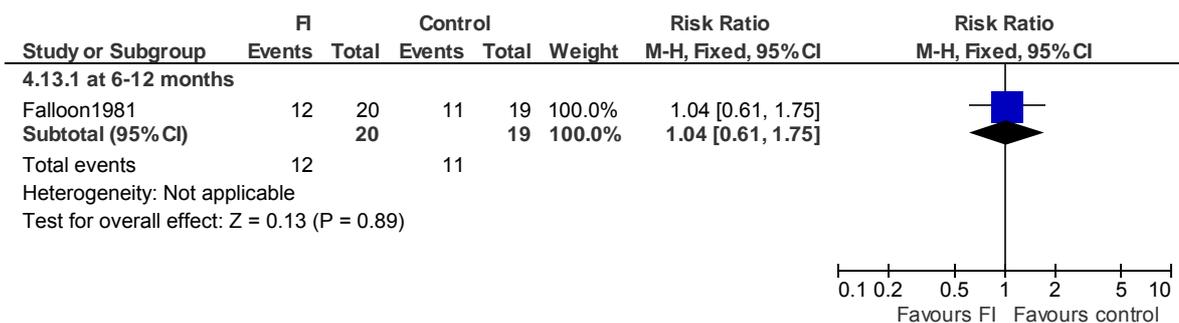


Psychological clinical evidence: Family intervention

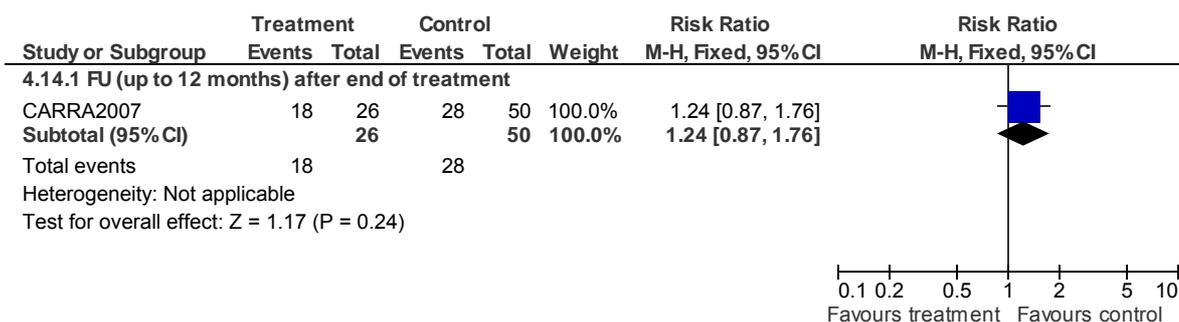
4.12 Mental state : 3. Symptom severity - positive symptoms (end of treatment) (lower = less severe)



4.13 Psychosocial functioning: 1. Unemployment

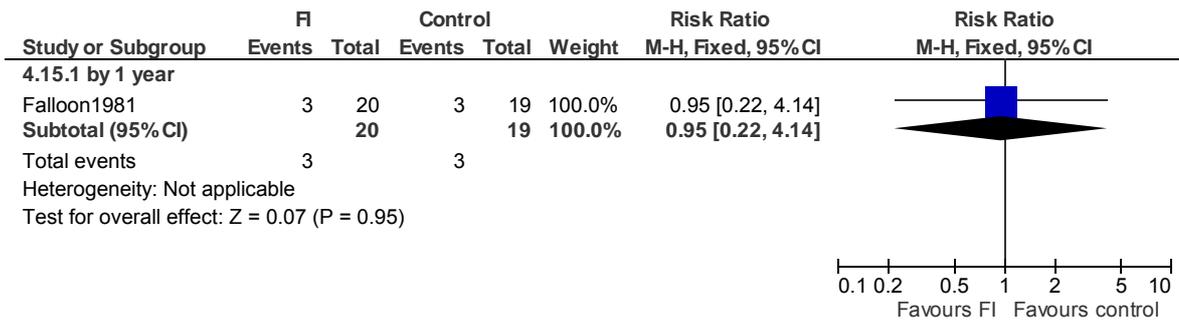


4.14 Psychosocial functioning: 1. Unemployment - at FU

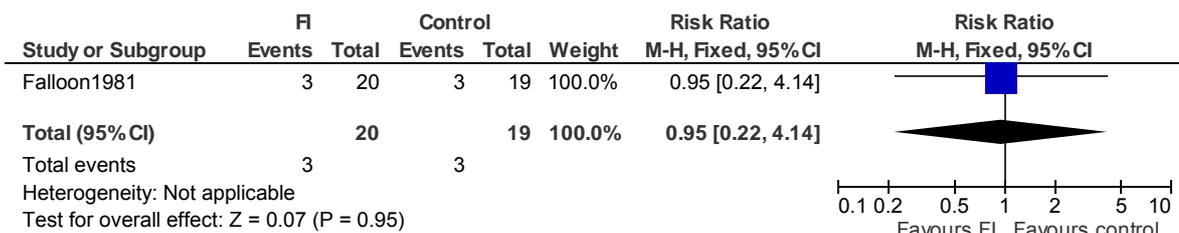


Psychological clinical evidence: Family intervention

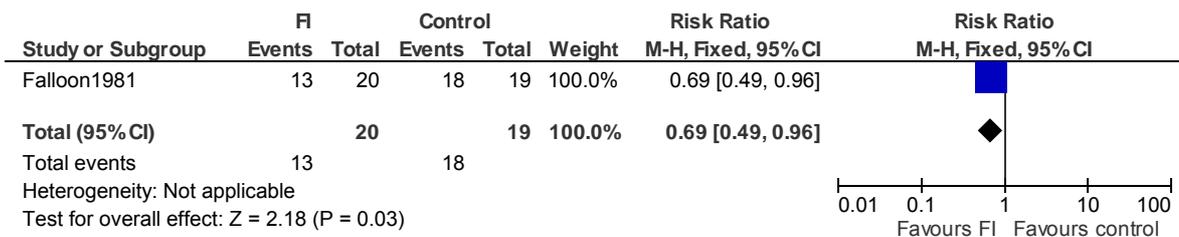
4.15 Psychosocial functioning: 4. Not able to live independently



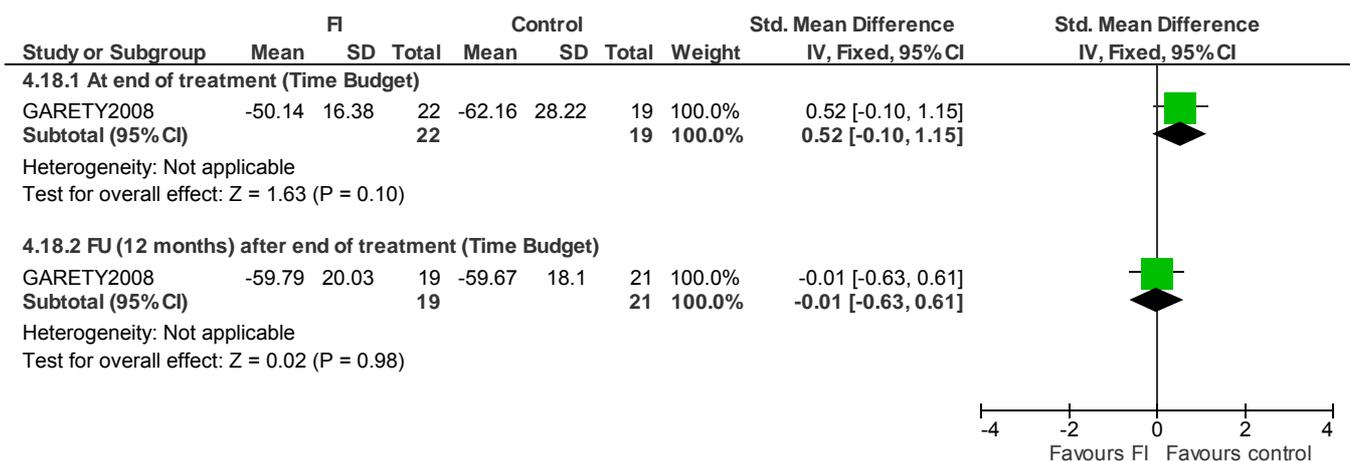
4.16 Psychosocial functioning: 5. Imprisonment



4.17 Psychosocial functioning: 6. Social impairment

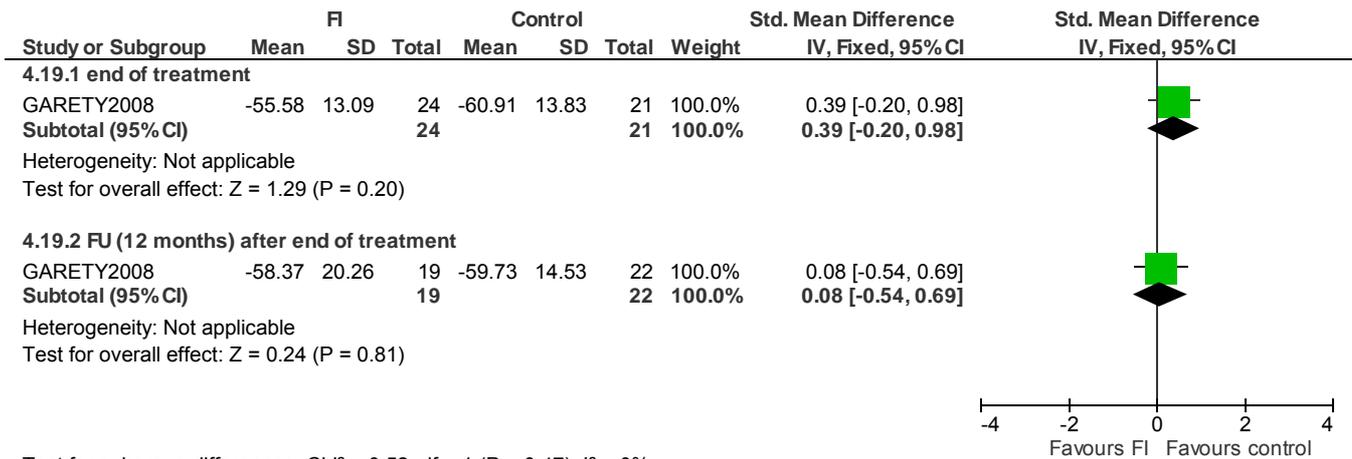


4.18 Psychosocial functioning: 7. Social functioning (higher = better)

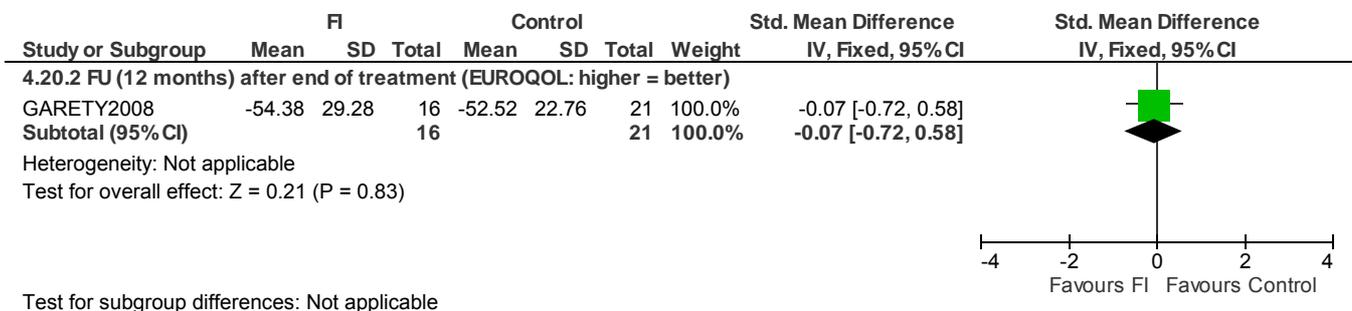


Psychological clinical evidence: Family intervention

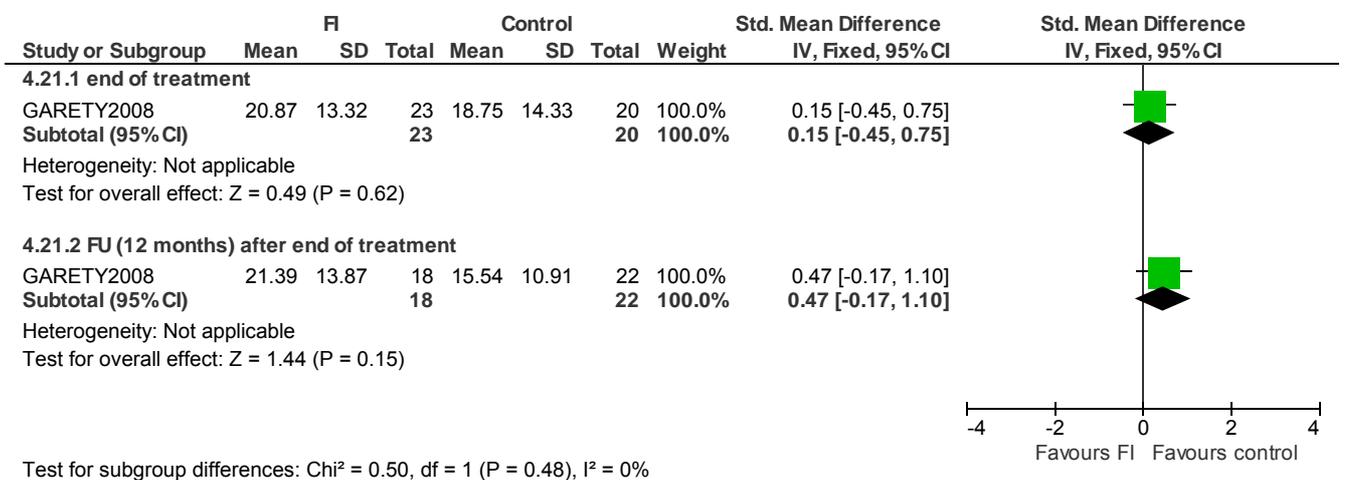
4.19 Psychosocial functioning: 8. Social and Occupational Functioning Assessment Scale (higher = better) (FU)



4.20 Quality of Life (higher = better)

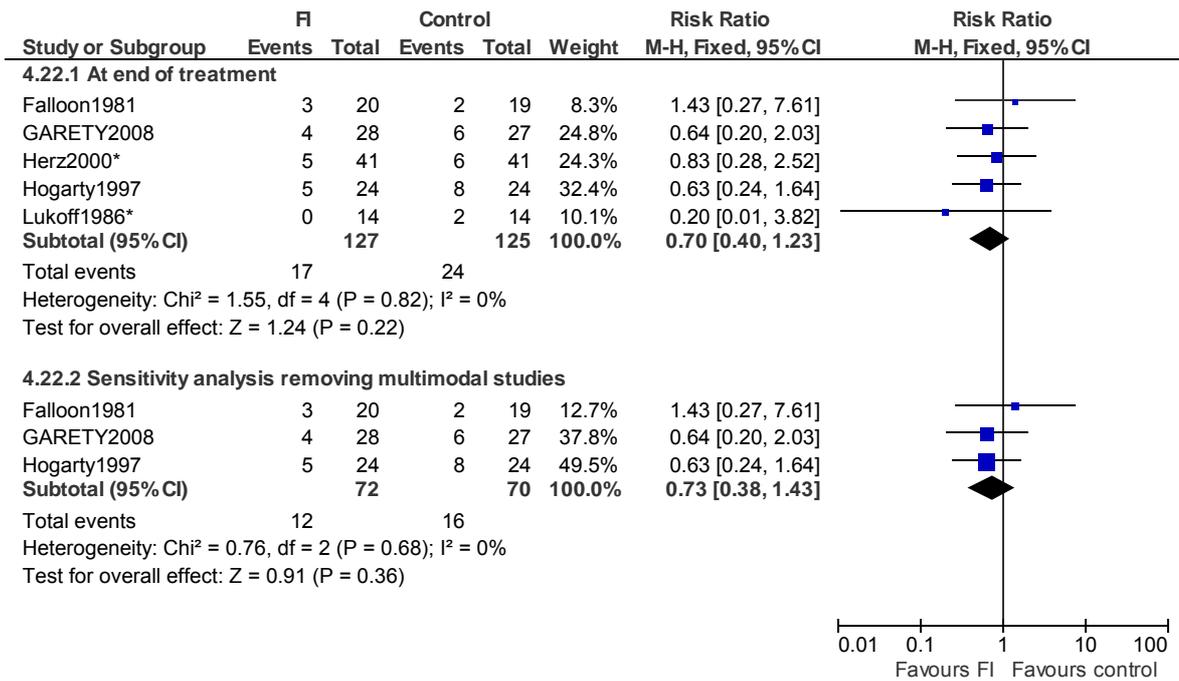


4.21 Depression: 1. BDI (lower = better)

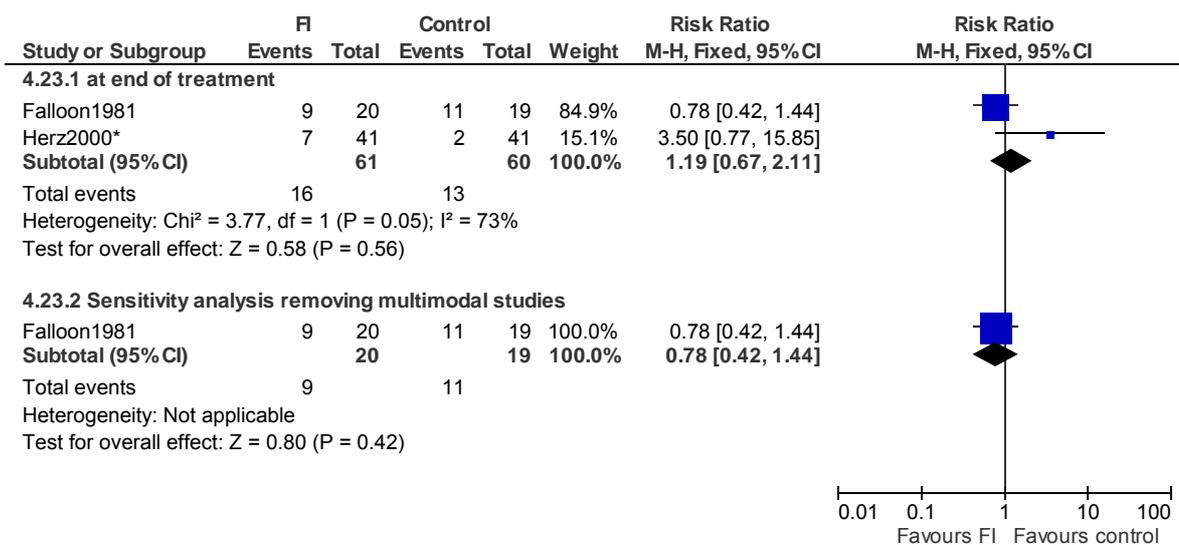


Psychological clinical evidence: Family intervention

4.22 Treatment acceptability: 1. Leaving the study early for any reason



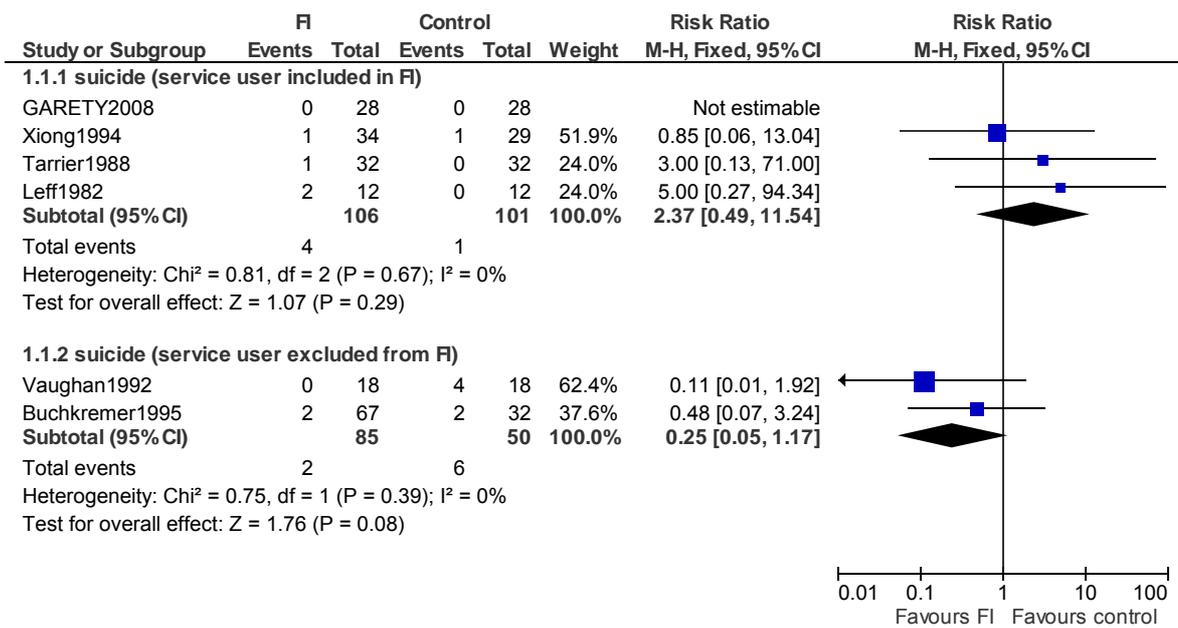
4.23 Non-adherence to study medication



Psychological clinical evidence: Family intervention (subgroup analyses)

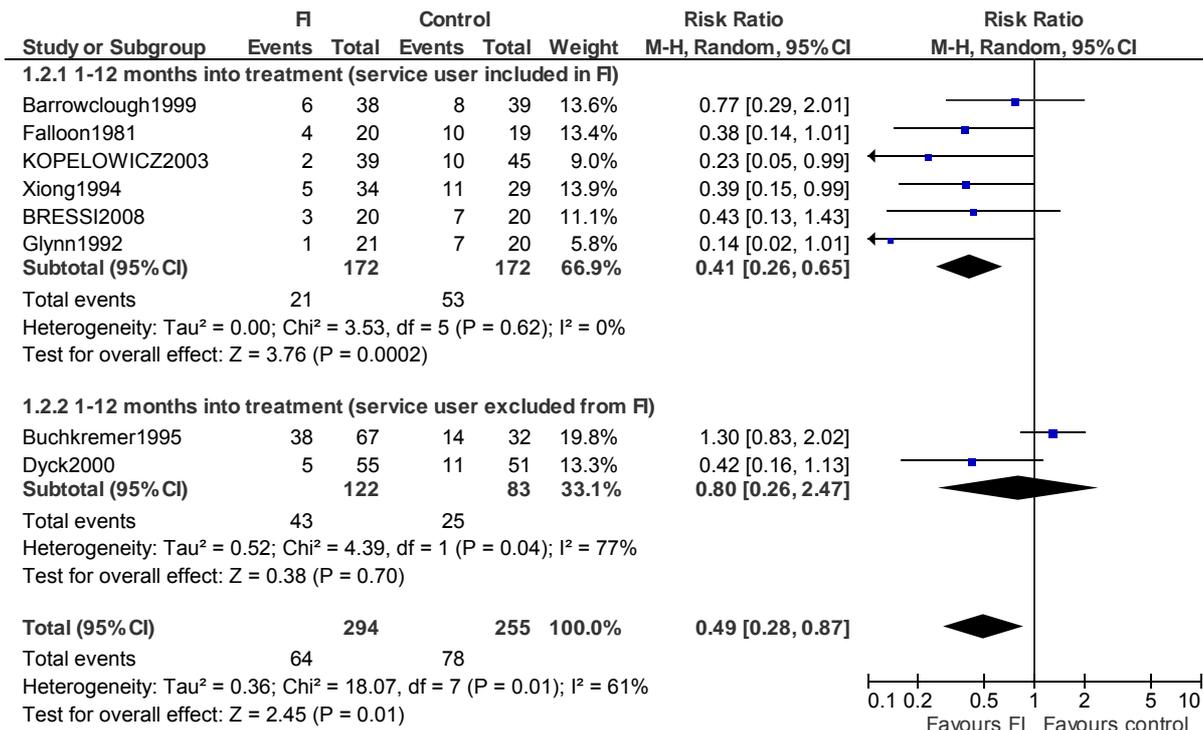
1 Family intervention versus other active treatments - subgroup analysis by service user participation

1.1 Mortality

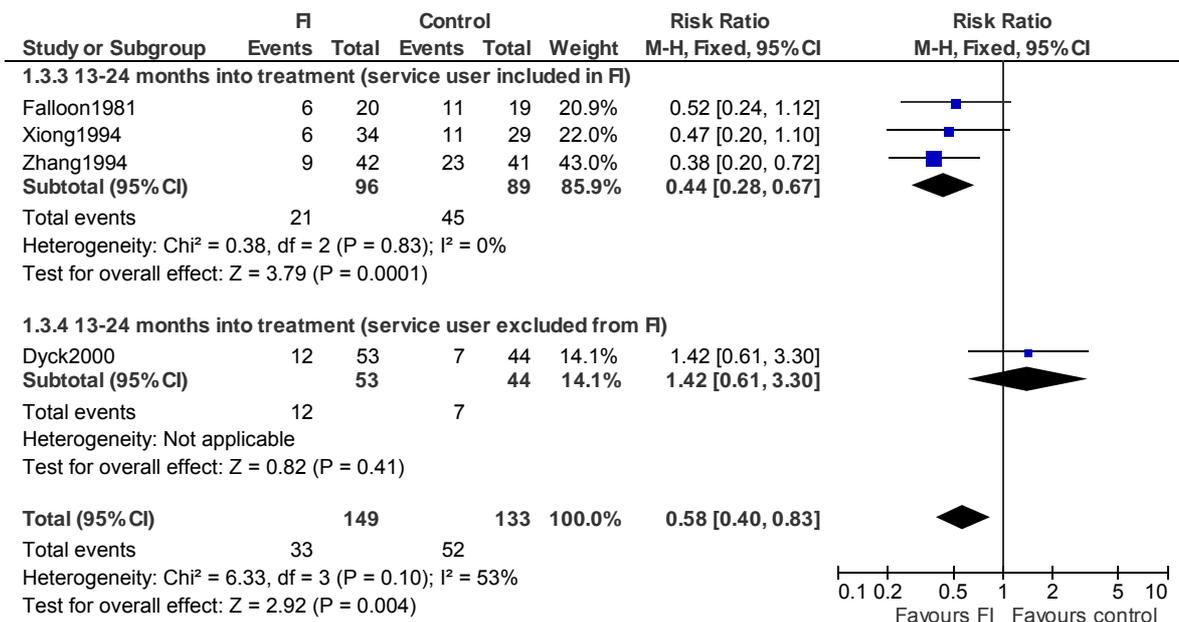


Psychological clinical evidence: Family intervention (subgroup analyses)

1.2 Service outcomes: 1. Hospital admission (1-12 months into treatment)

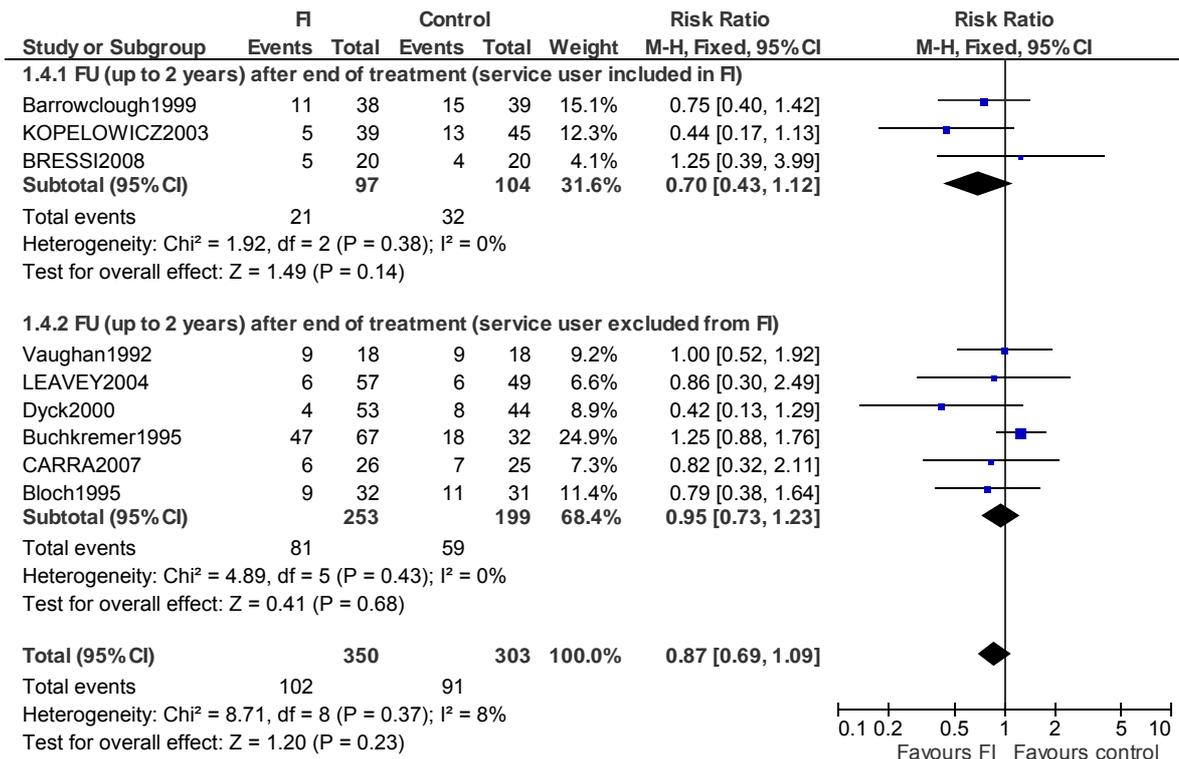


1.3 Service outcomes: 1. Hospital admission (13-24 months into treatment)

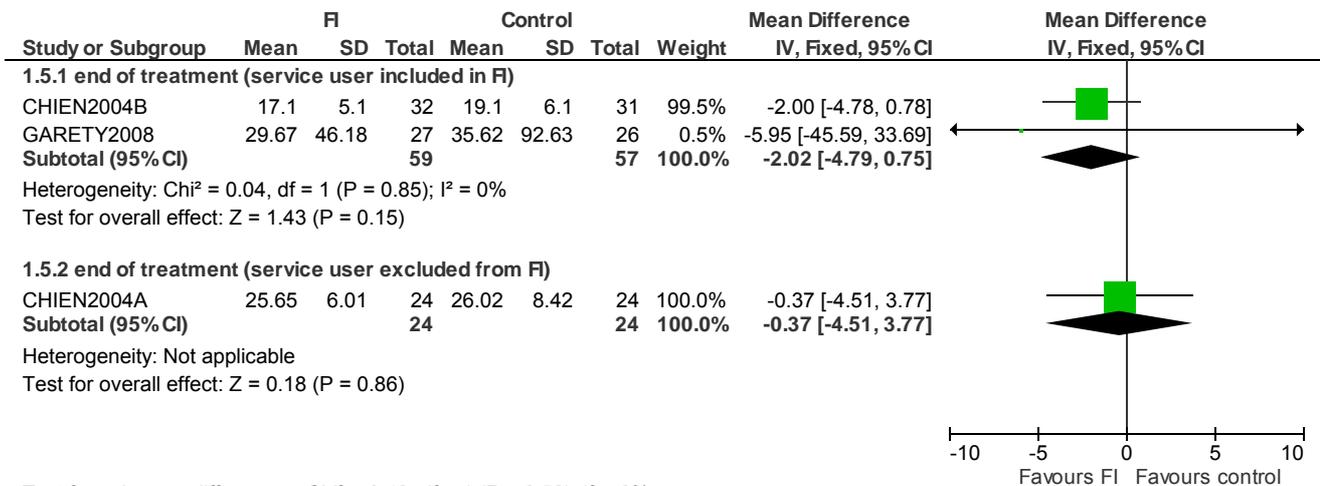


Psychological clinical evidence: Family intervention (subgroup analyses)

1.4 Service outcomes: 1. Hospital admission (at FU)

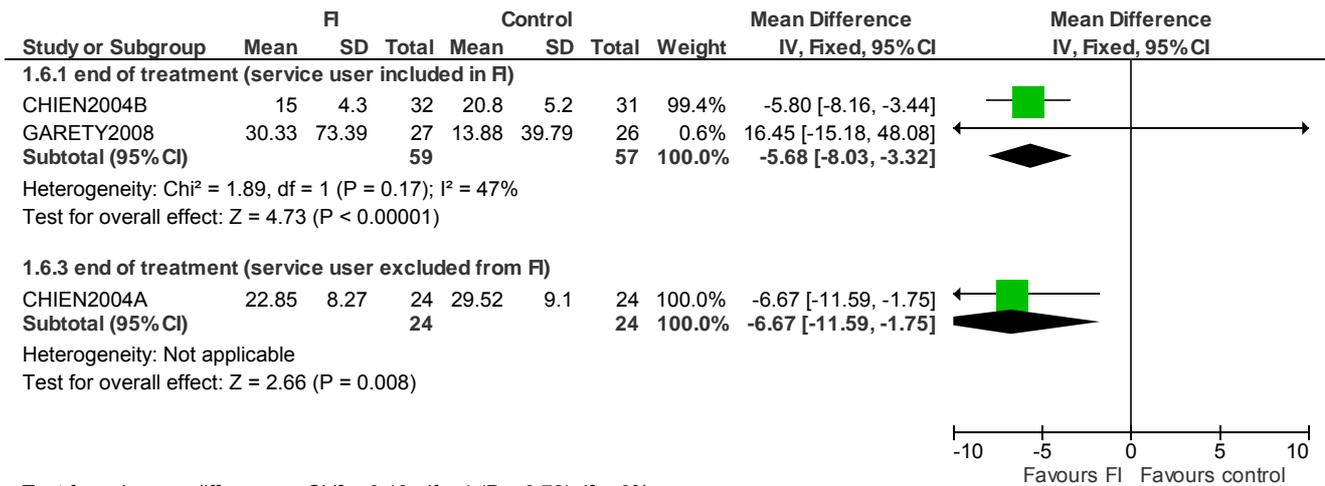


1.5 Service outcomes: 2. Duration of rehospitalisation (days) (end of treatment)

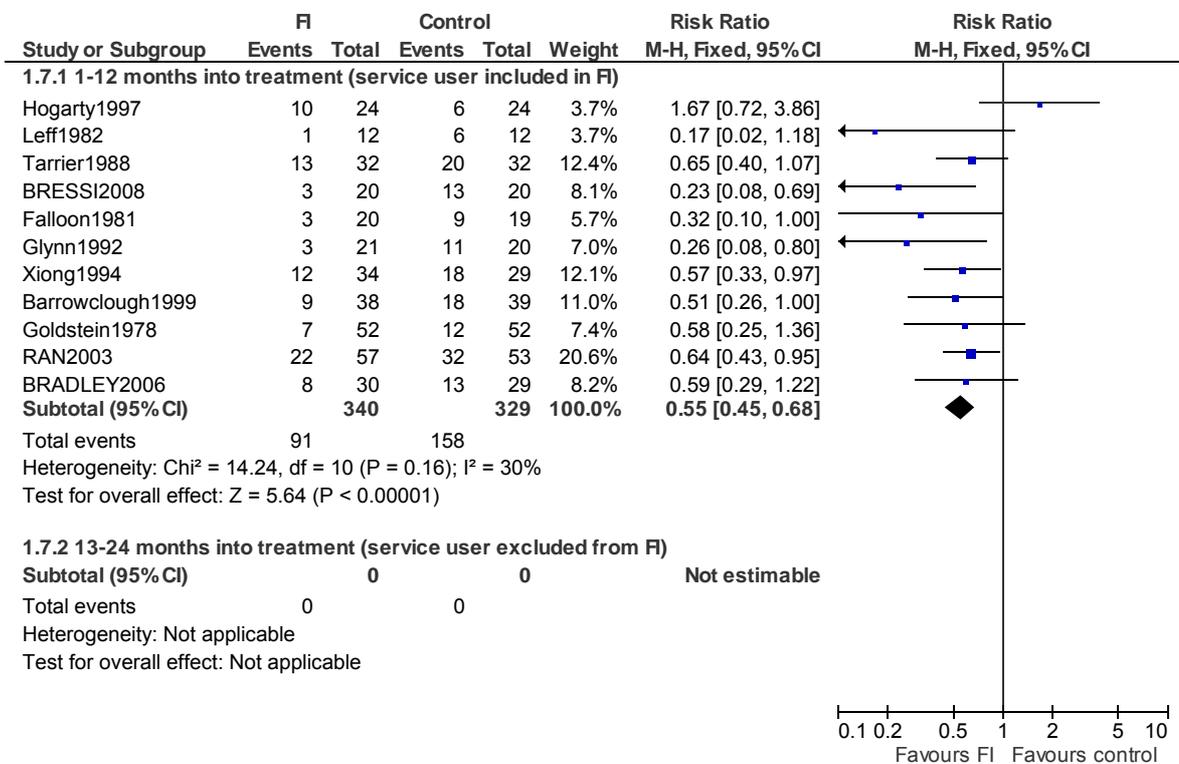


Psychological clinical evidence: Family intervention (subgroup analyses)

1.6 Service outcomes: 2. Duration of rehospitalisation (days) (FU)

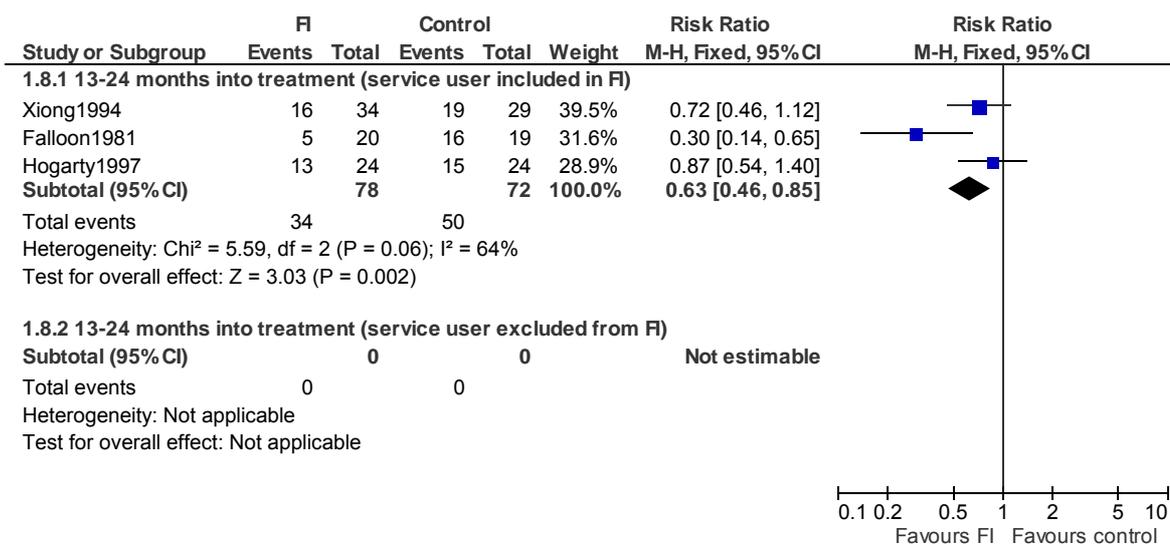


1.7 Global state: 1. Relapse (1-12 months into treatment)

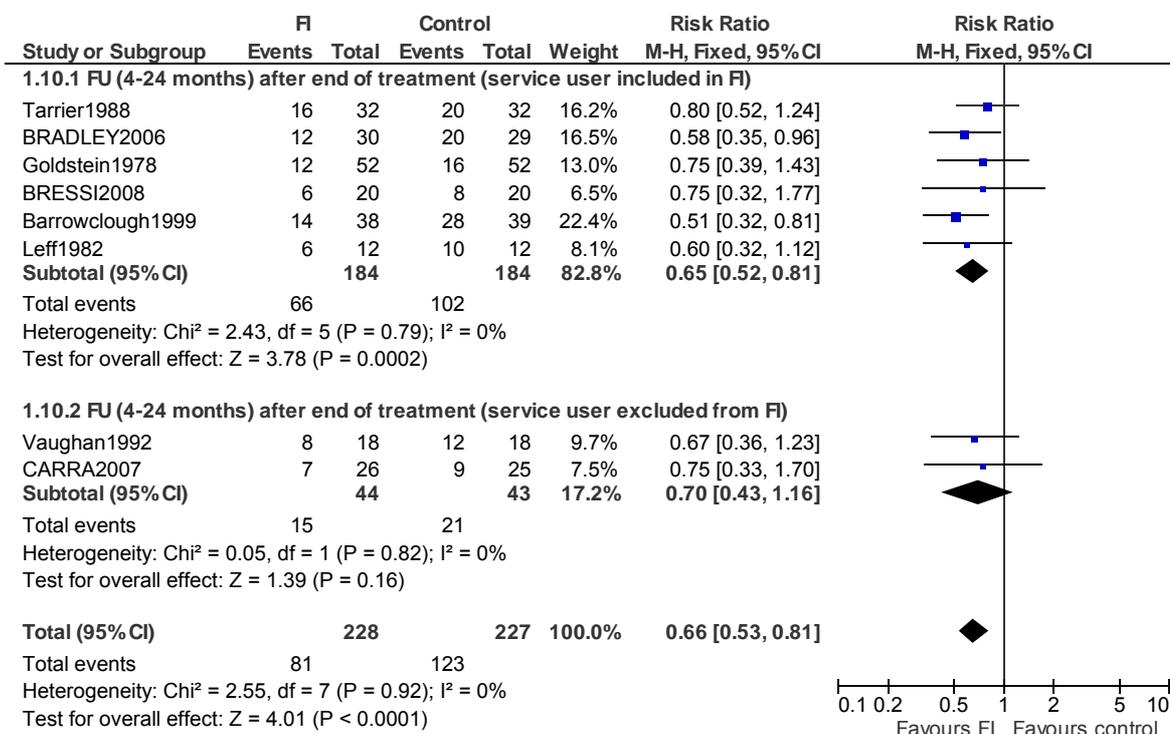


Psychological clinical evidence: Family intervention (subgroup analyses)

1.8 Global state: 1. Relapse (13-24 months into treatment)

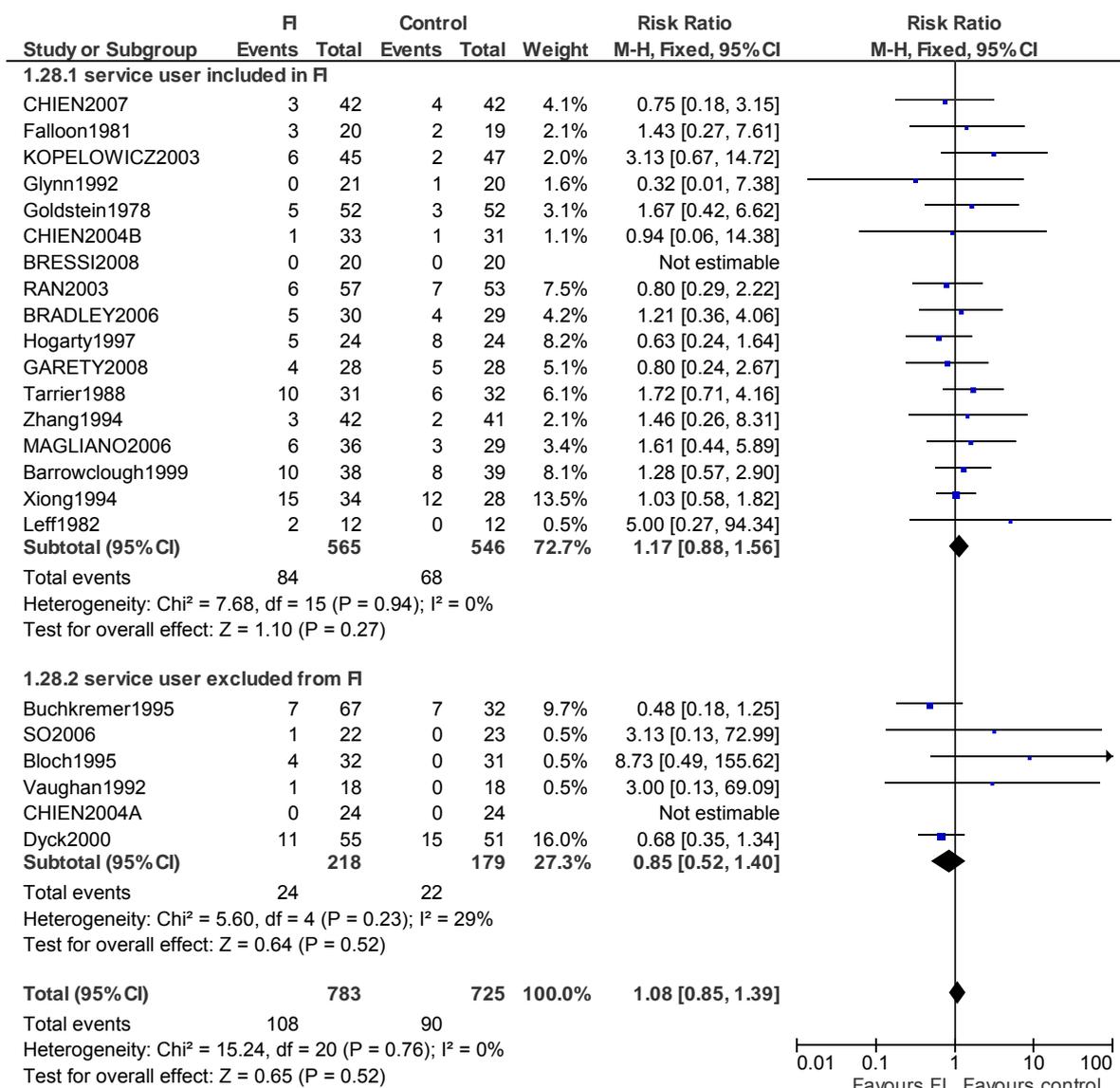


1.10 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

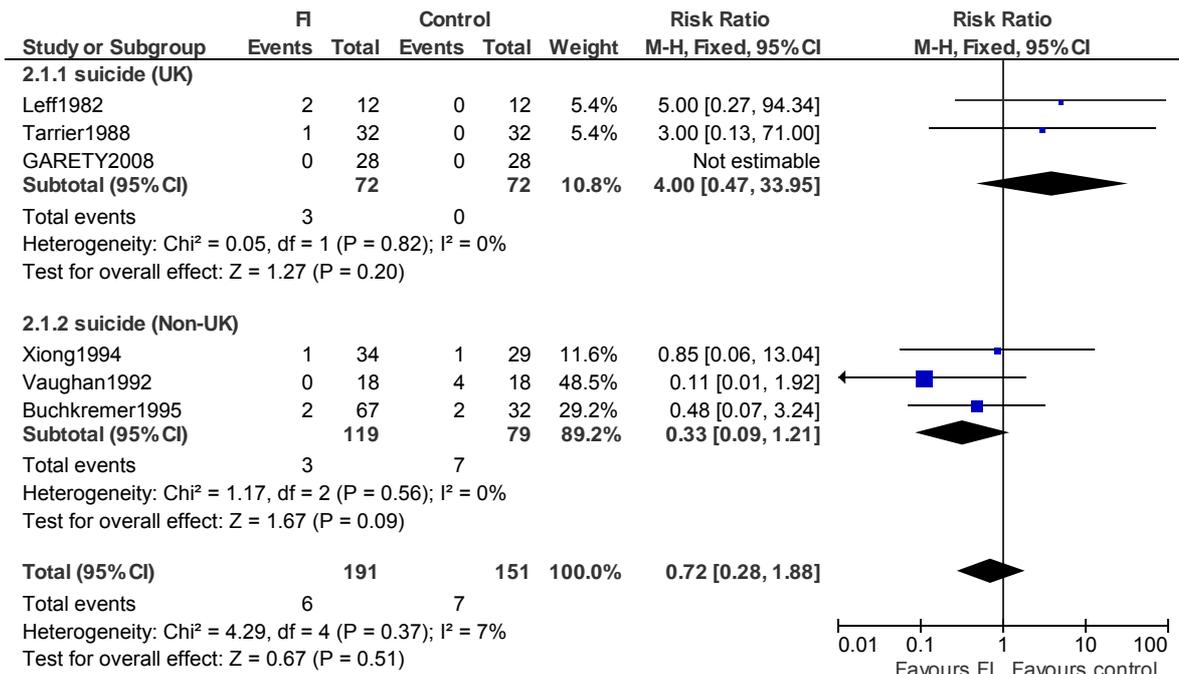
1.28 Treatment acceptability: 1. Leaving the study early for any reason



2 Family intervention versus any control - subgroup analysis by country

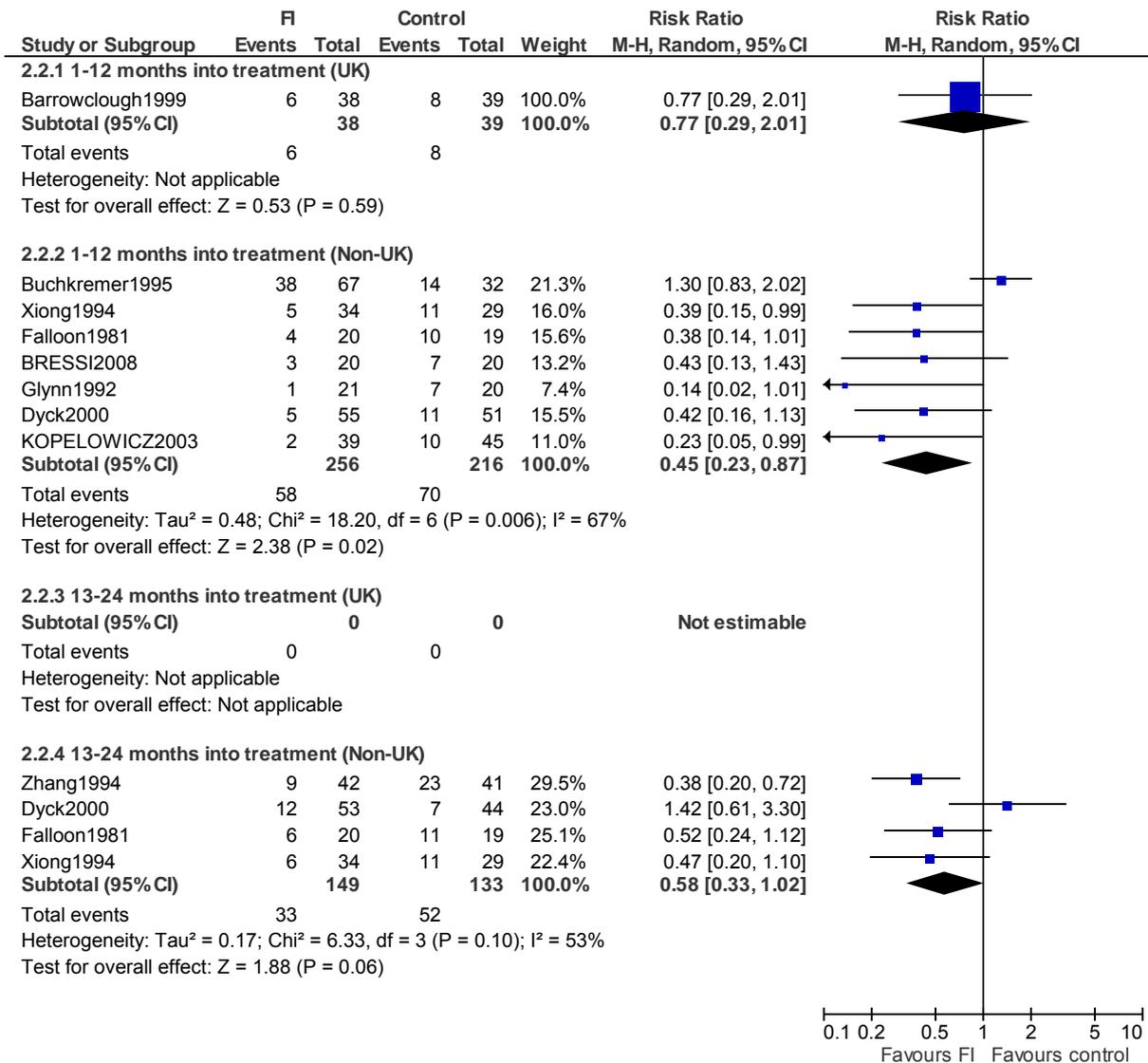
Psychological clinical evidence: Family intervention (subgroup analyses)

2.1 Mortality - suicide



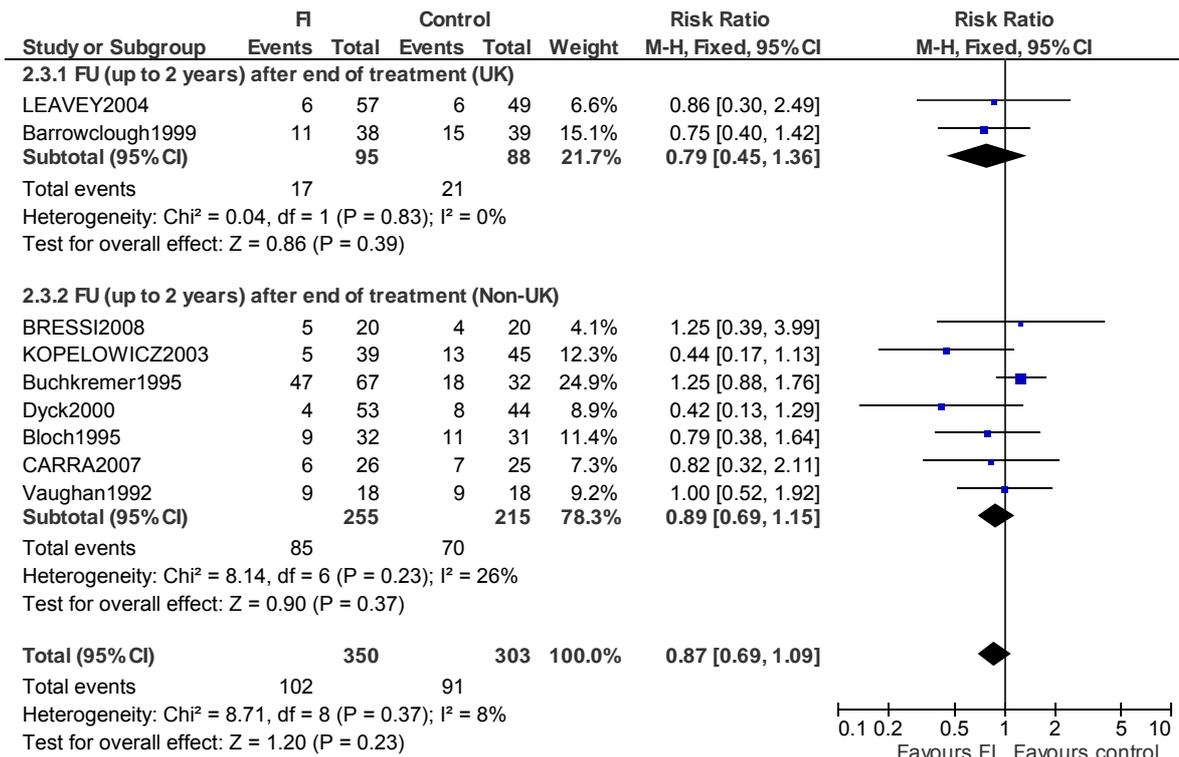
Psychological clinical evidence: Family intervention (subgroup analyses)

2.2 Service outcomes: 1. Hospital admission (1-24 months into treatment)



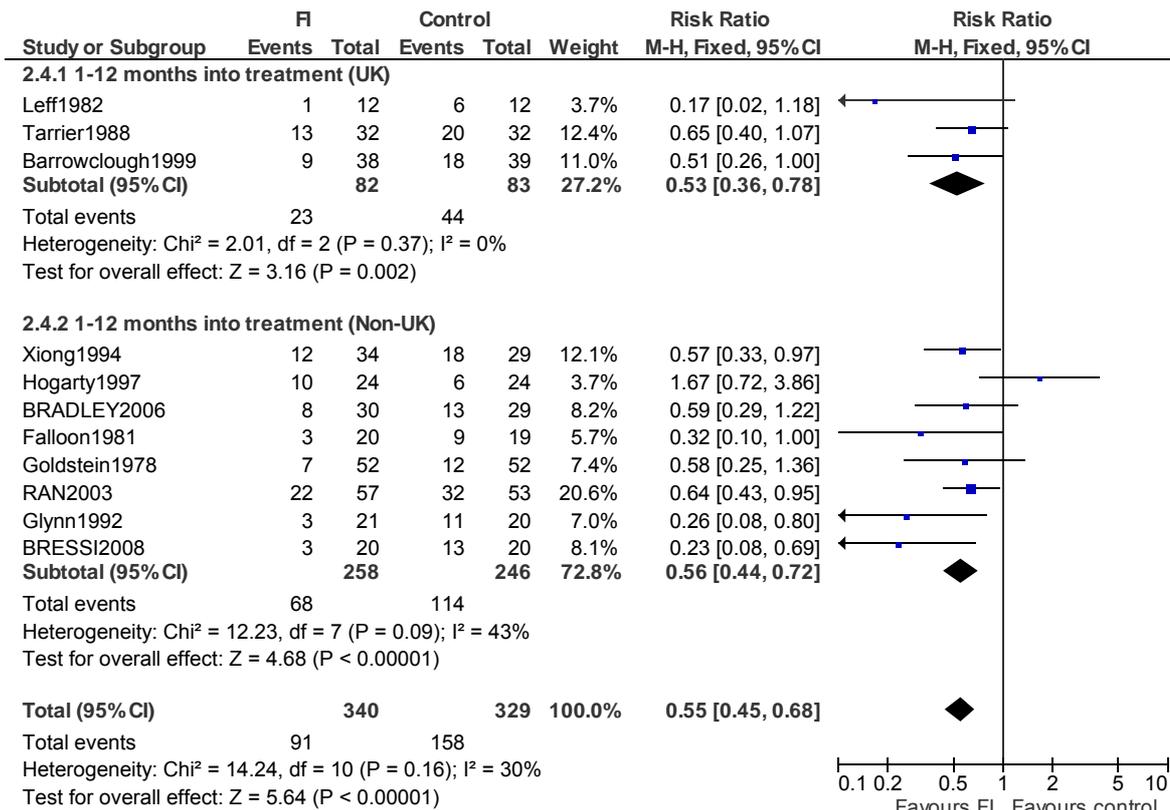
Psychological clinical evidence: Family intervention (subgroup analyses)

2.3 Service outcomes: 1. Hospital admission (at FU)

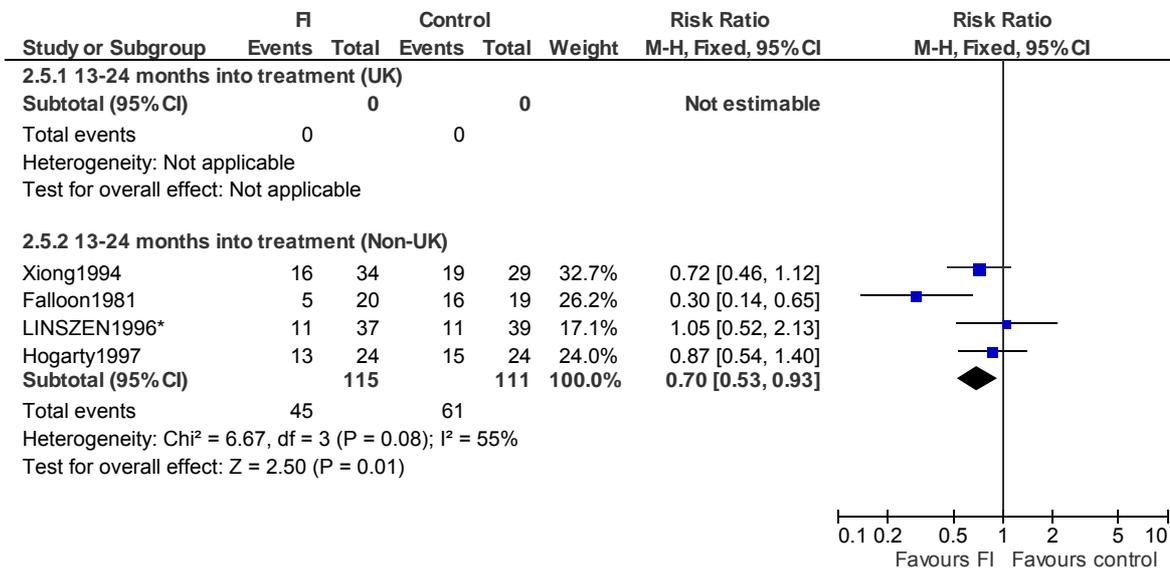


Psychological clinical evidence: Family intervention (subgroup analyses)

2.4 Global state: 1. Relapse (1-12 months into treatment)

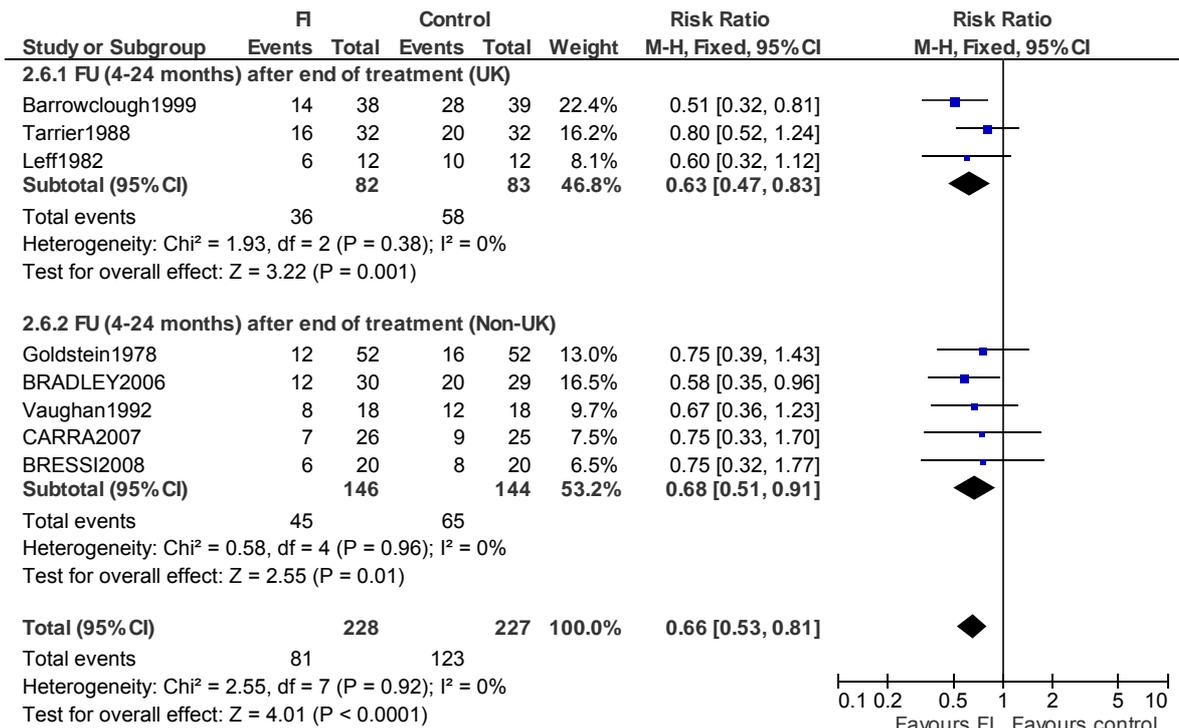


2.5 Global state: 1. Relapse (13-24 months into treatment)



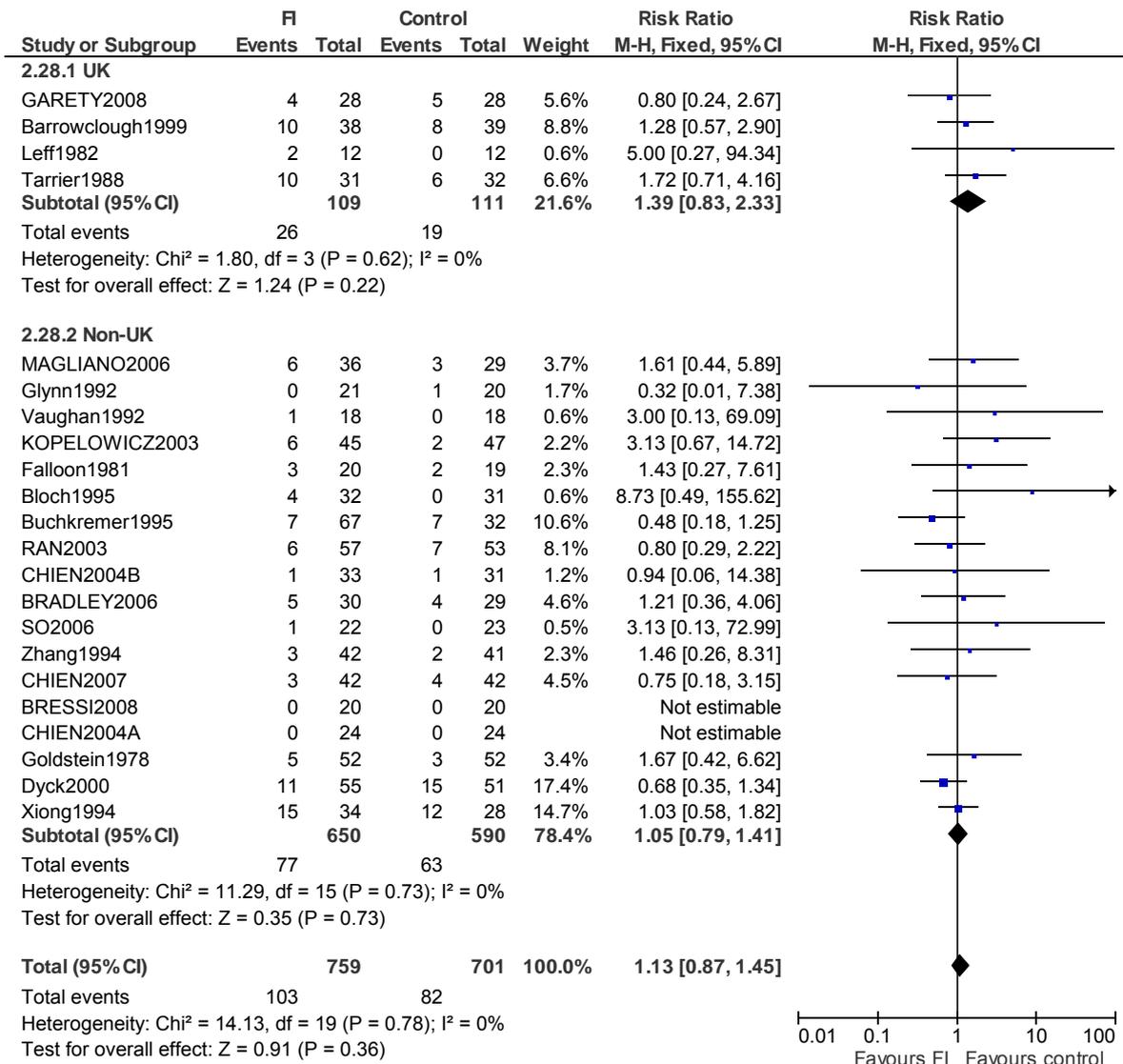
Psychological clinical evidence: Family intervention (subgroup analyses)

2.6 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

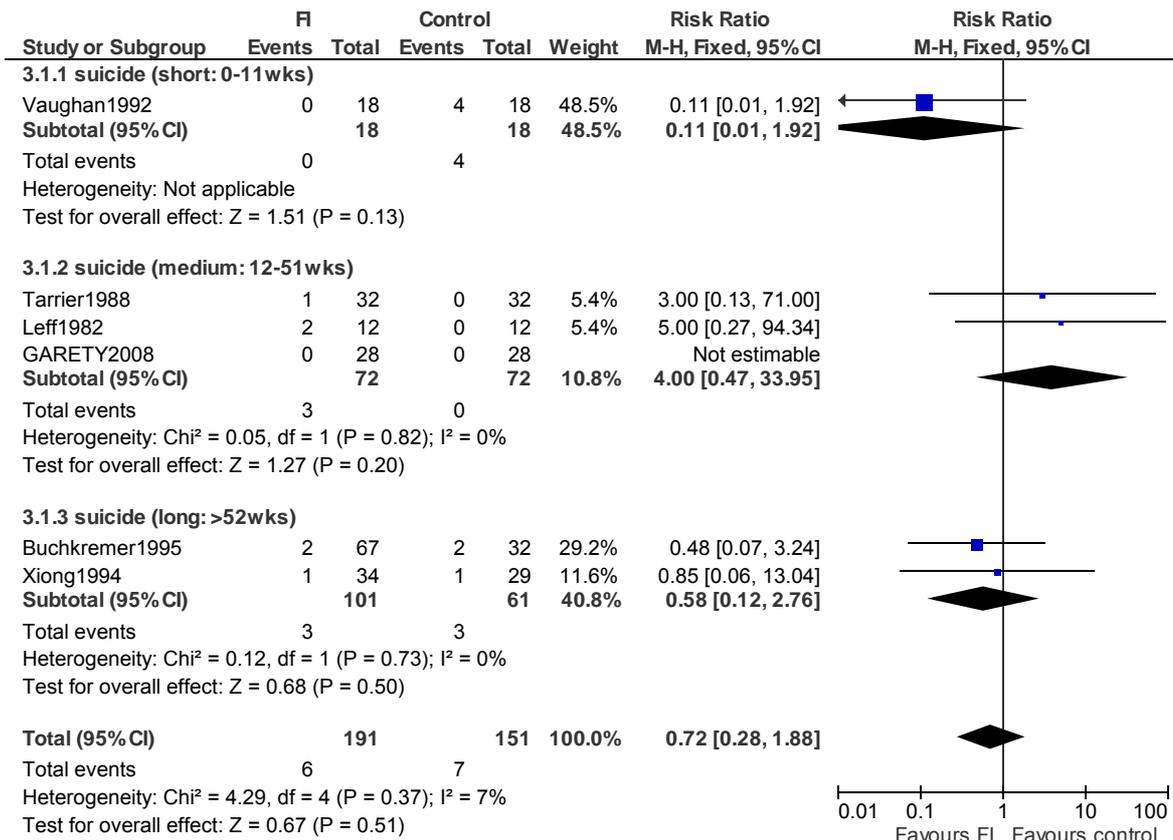
2.28 Treatment acceptability: 1. Leaving the study early for any reason



3 Family intervention versus any control - subgroup analysis by duration

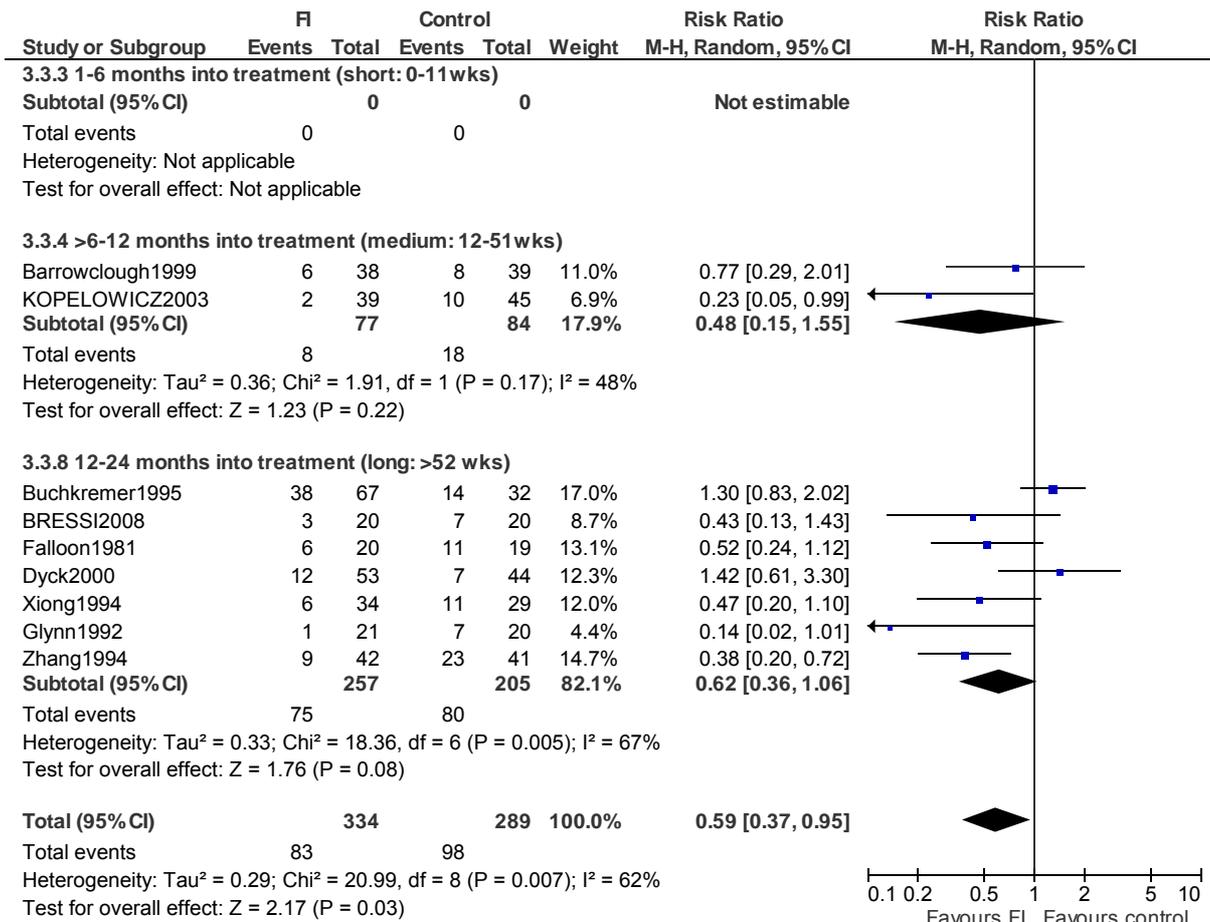
Psychological clinical evidence: Family intervention (subgroup analyses)

3.1 Mortality - suicide



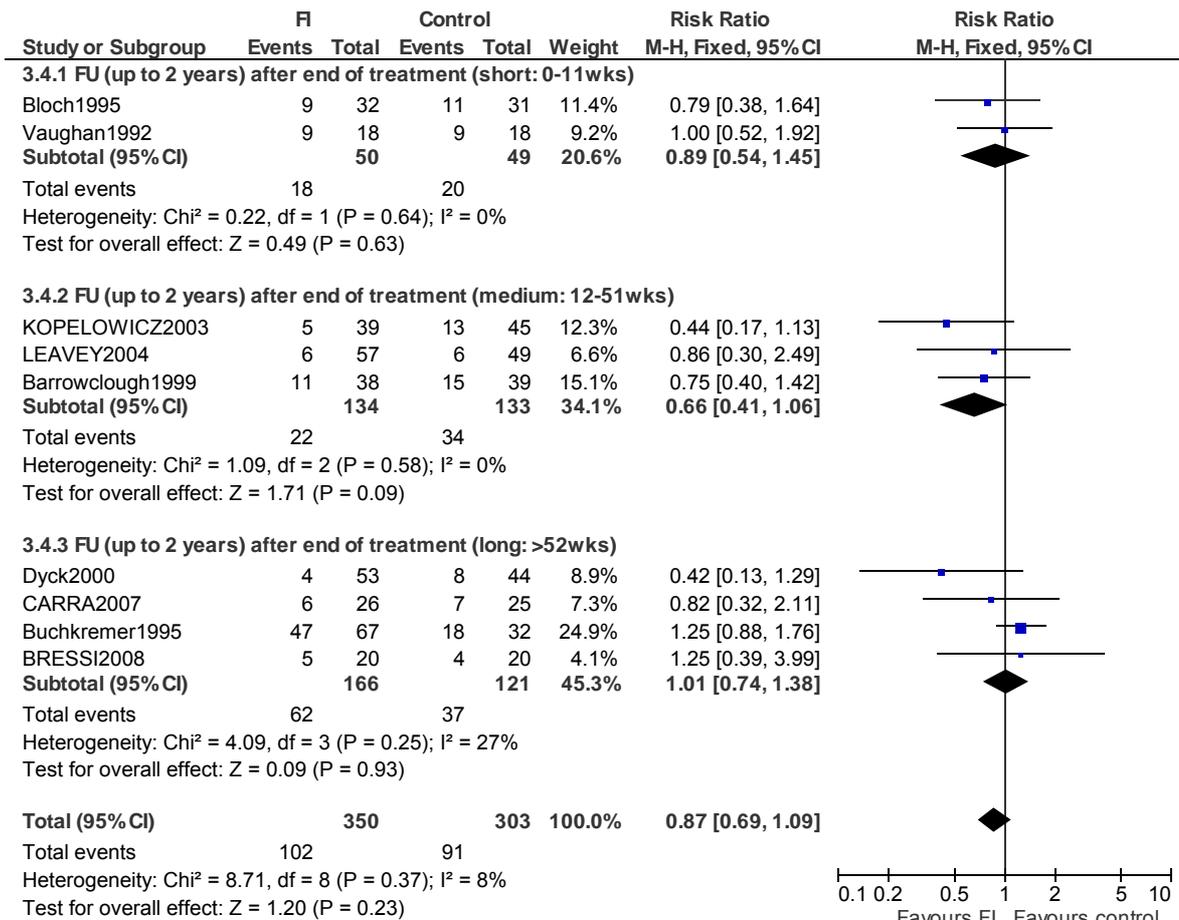
Psychological clinical evidence: Family intervention (subgroup analyses)

3.3 Service outcomes: 1. Hospital admission (1-24 months into treatment)



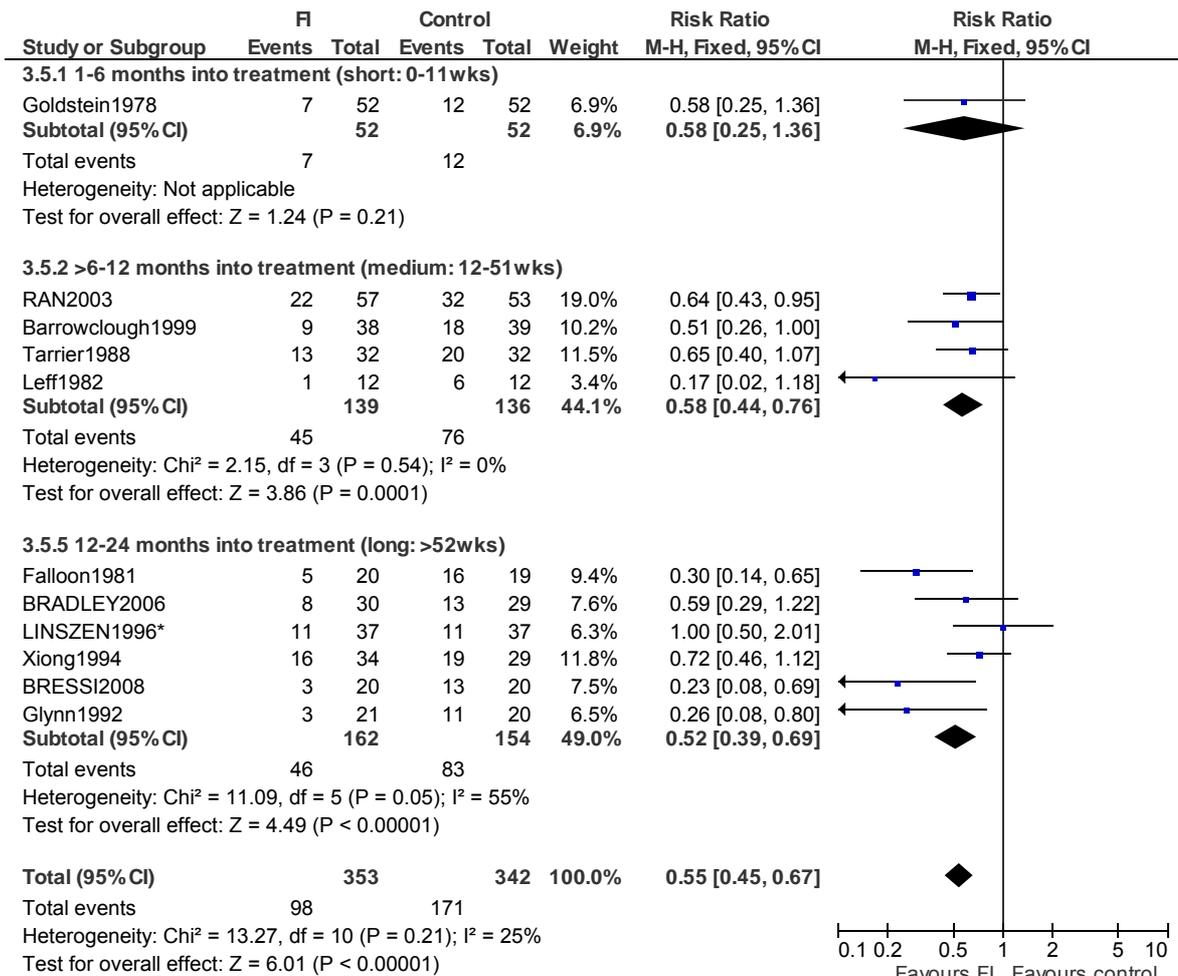
Psychological clinical evidence: Family intervention (subgroup analyses)

3.4 Service outcomes: 1. Hospital admission (at FU)



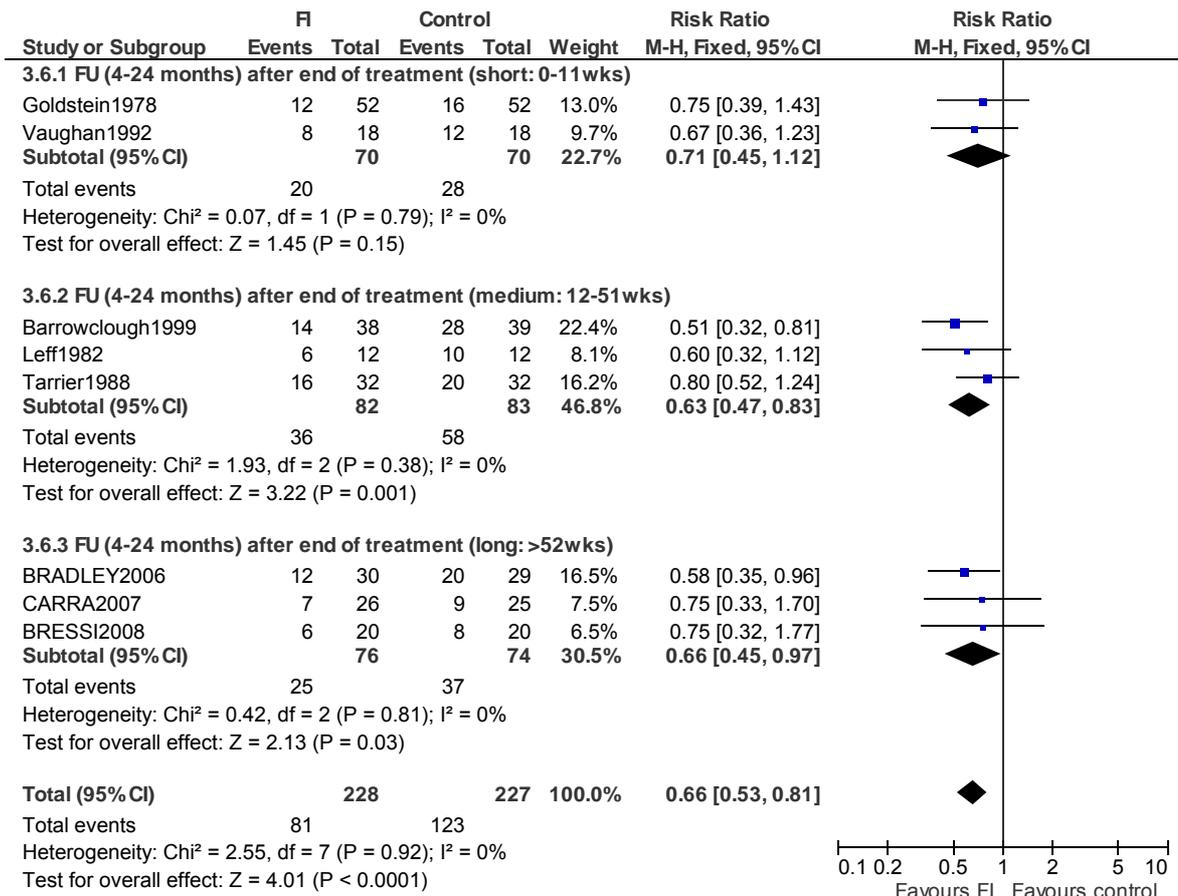
Psychological clinical evidence: Family intervention (subgroup analyses)

3.5 Global state: 1. Relapse (1-24 months into treatment)



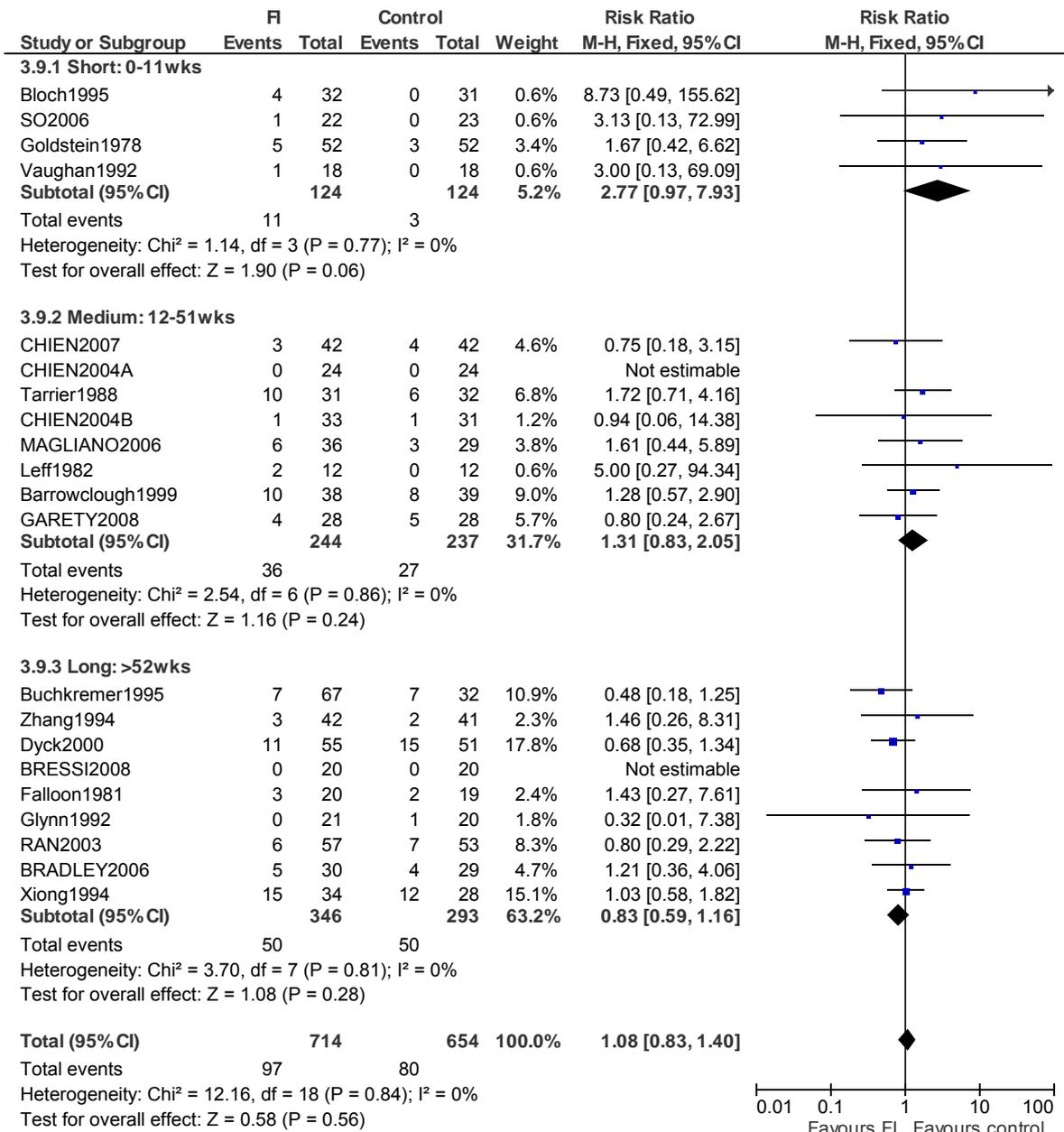
Psychological clinical evidence: Family intervention (subgroup analyses)

3.6 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

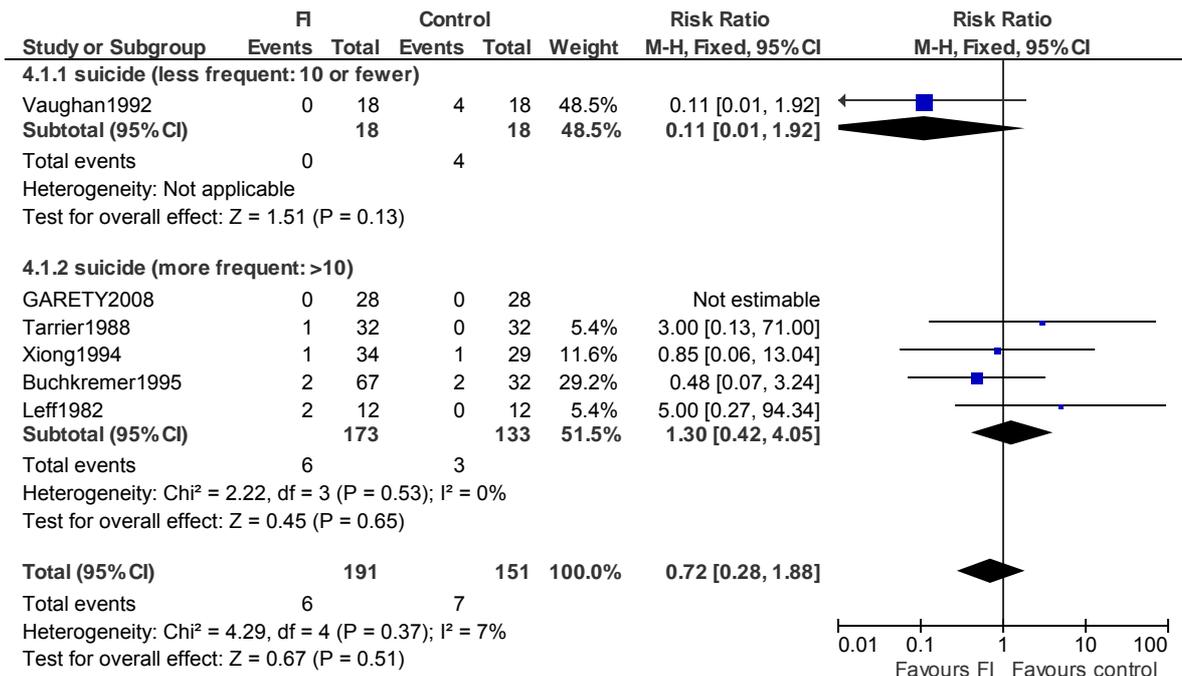
3.9 Treatment acceptability: 1. Leaving the study early for any reason



4 Family intervention versus any control - subgroup analysis by number of treatment sessions

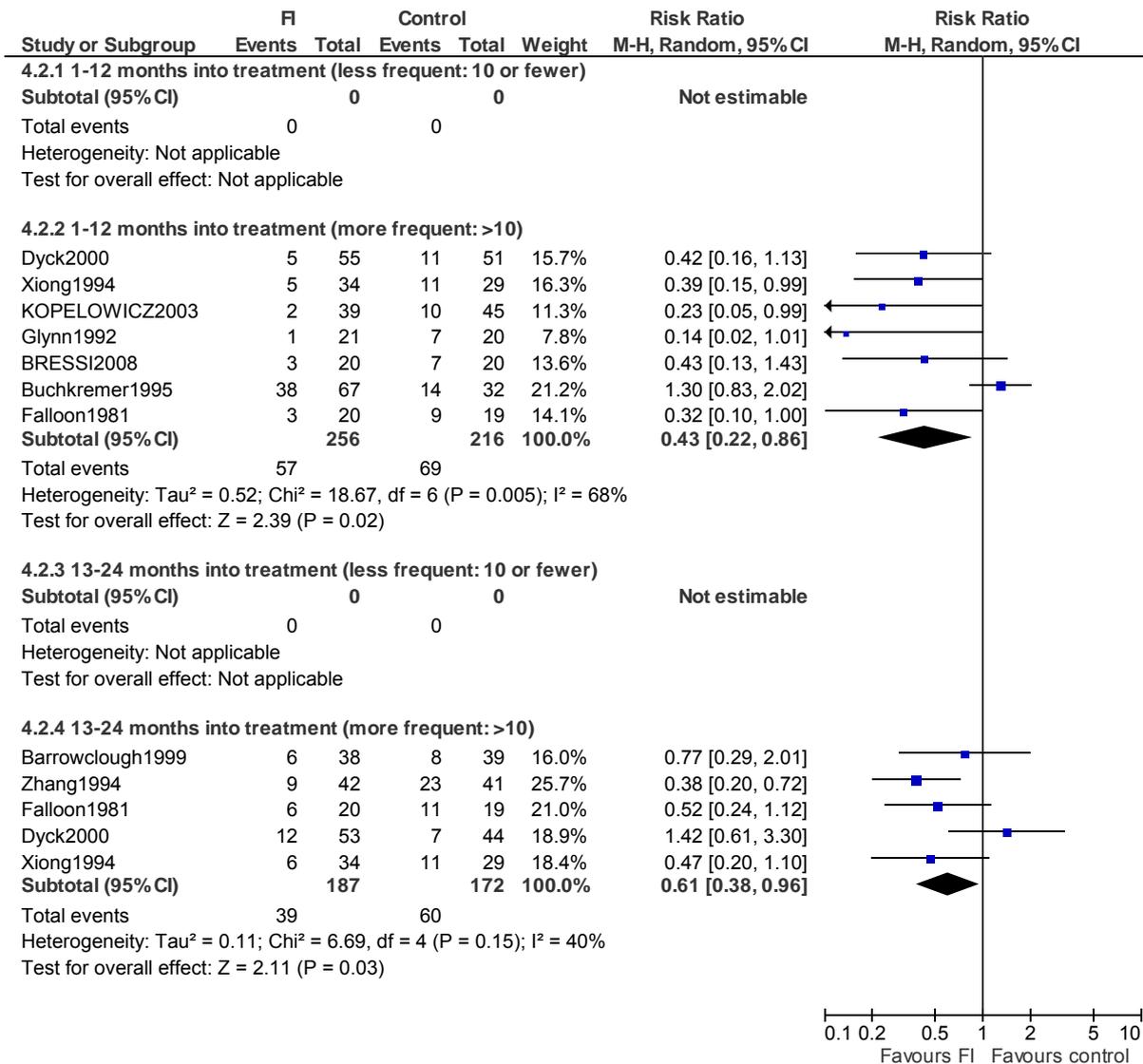
Psychological clinical evidence: Family intervention (subgroup analyses)

4.1 Mortality - suicide



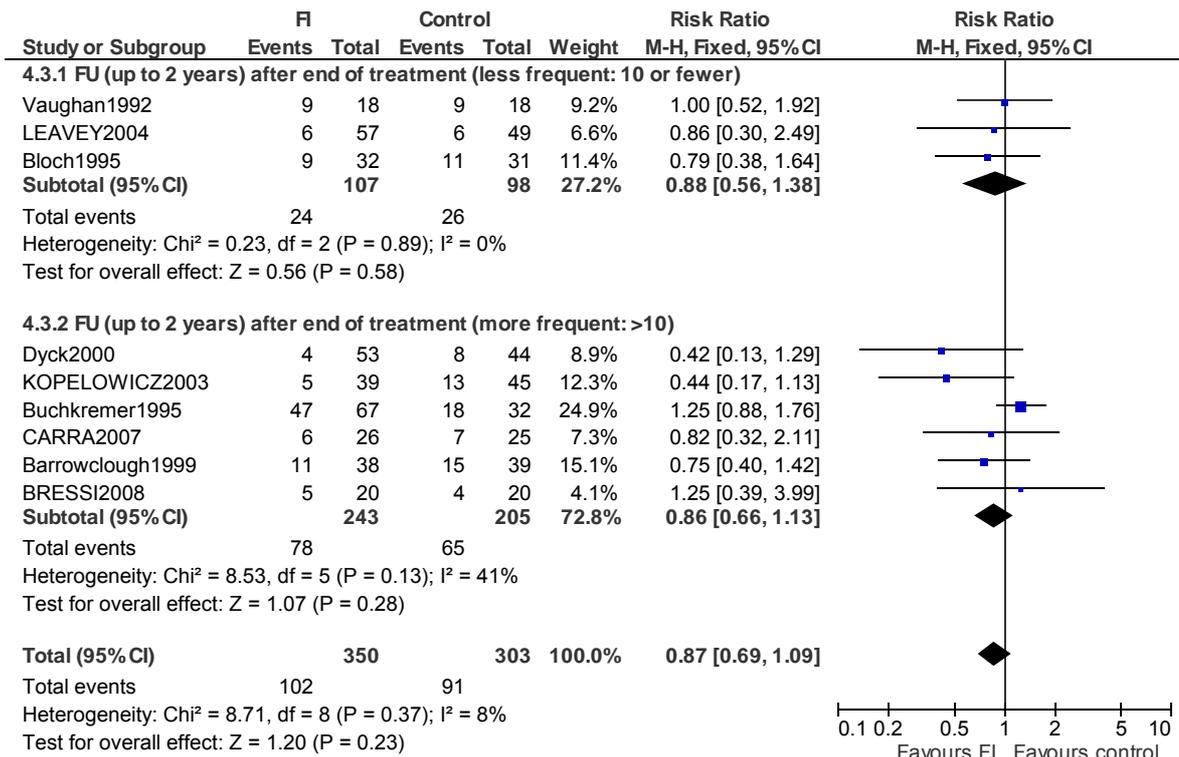
Psychological clinical evidence: Family intervention (subgroup analyses)

4.2 Service outcomes: 1. Hospital admission (1-24 months into treatment)



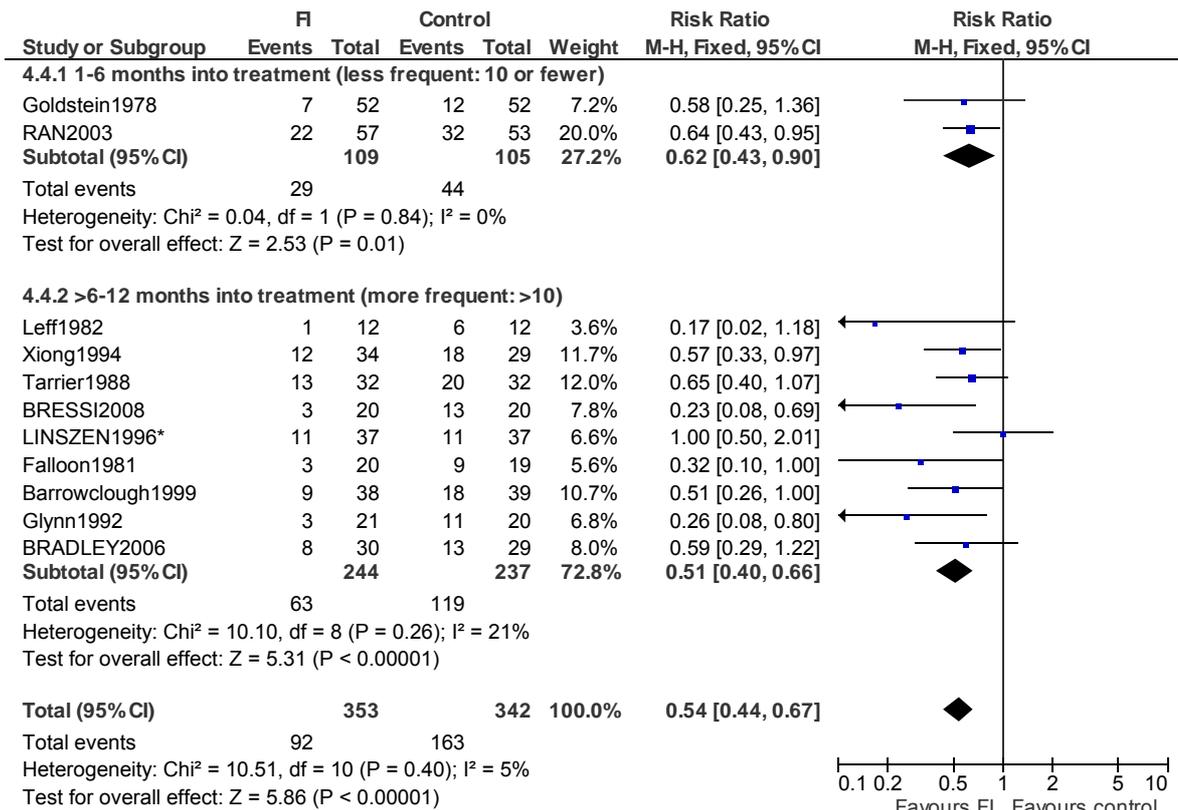
Psychological clinical evidence: Family intervention (subgroup analyses)

4.3 Service outcomes: 1. Hospital admission (at FU)



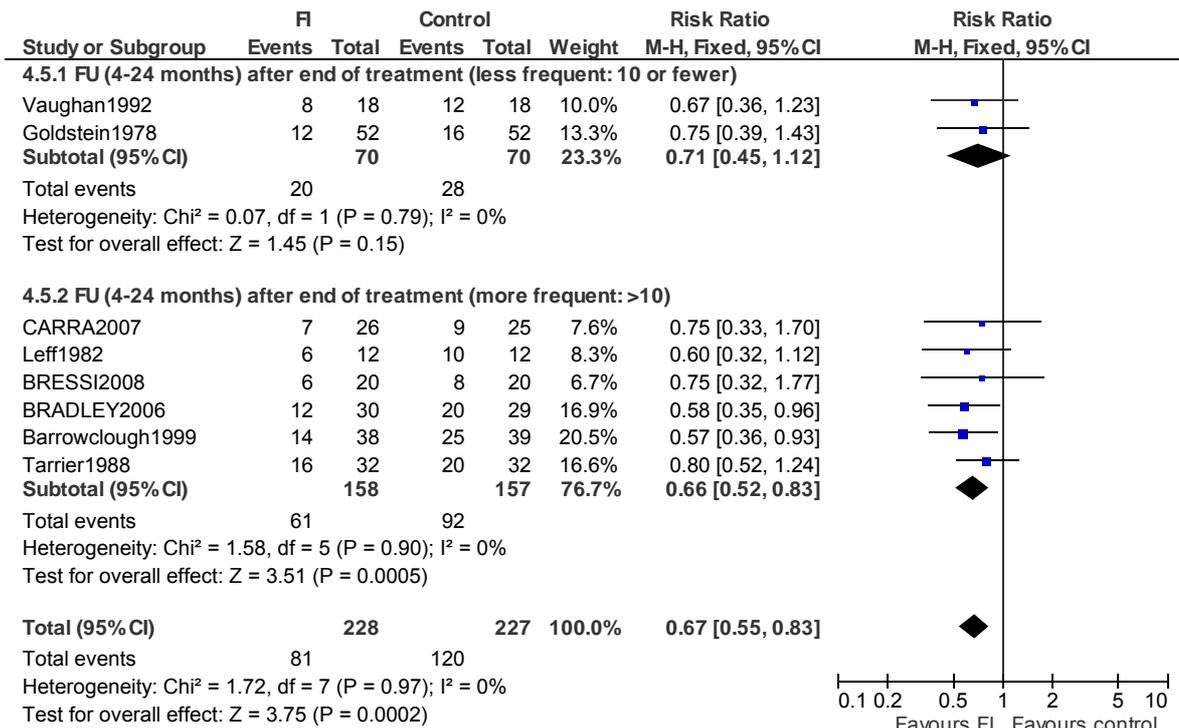
Psychological clinical evidence: Family intervention (subgroup analyses)

4.4 Global state: 1. Relapse (1-12 months into treatment)



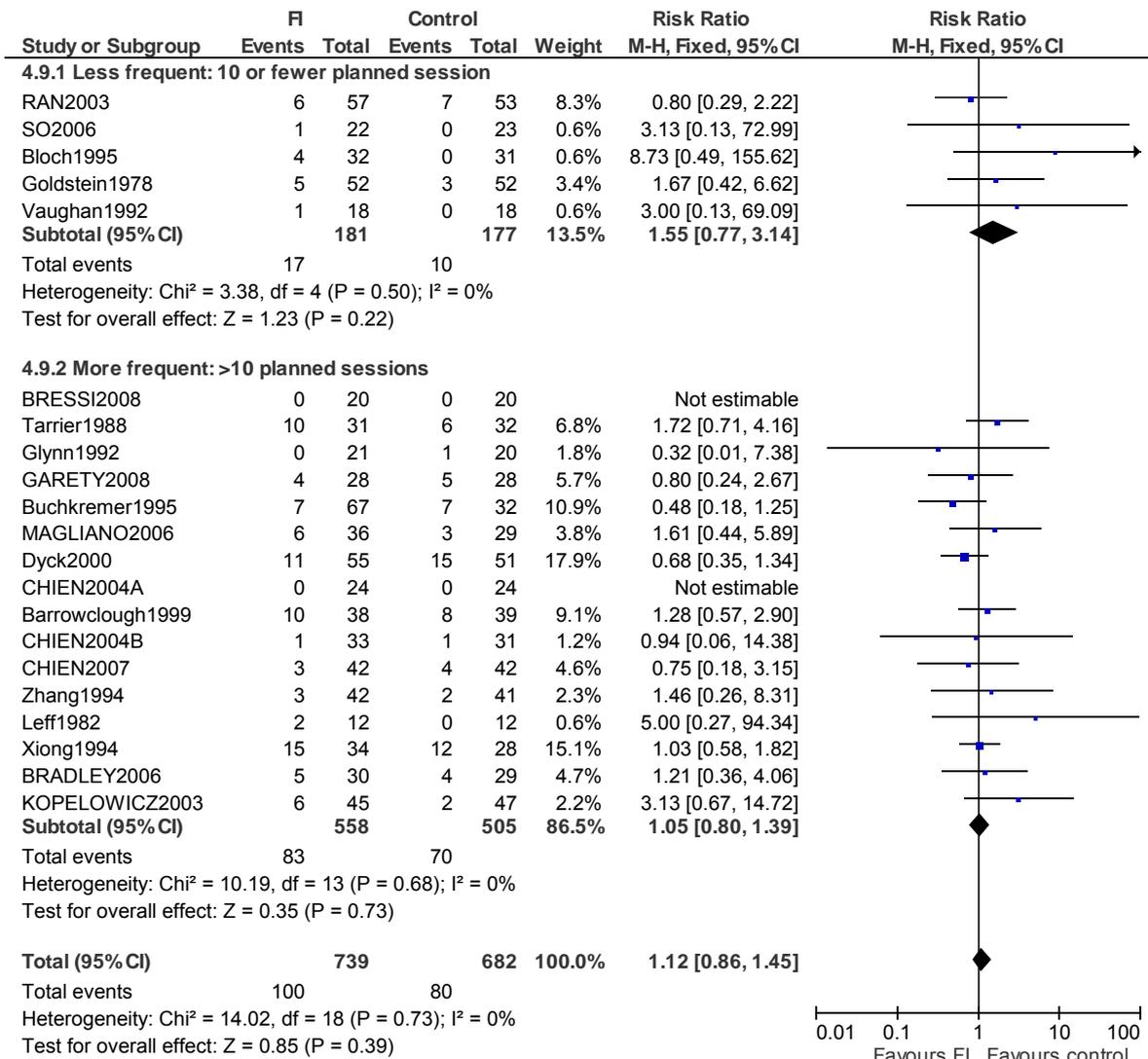
Psychological clinical evidence: Family intervention (subgroup analyses)

4.5 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

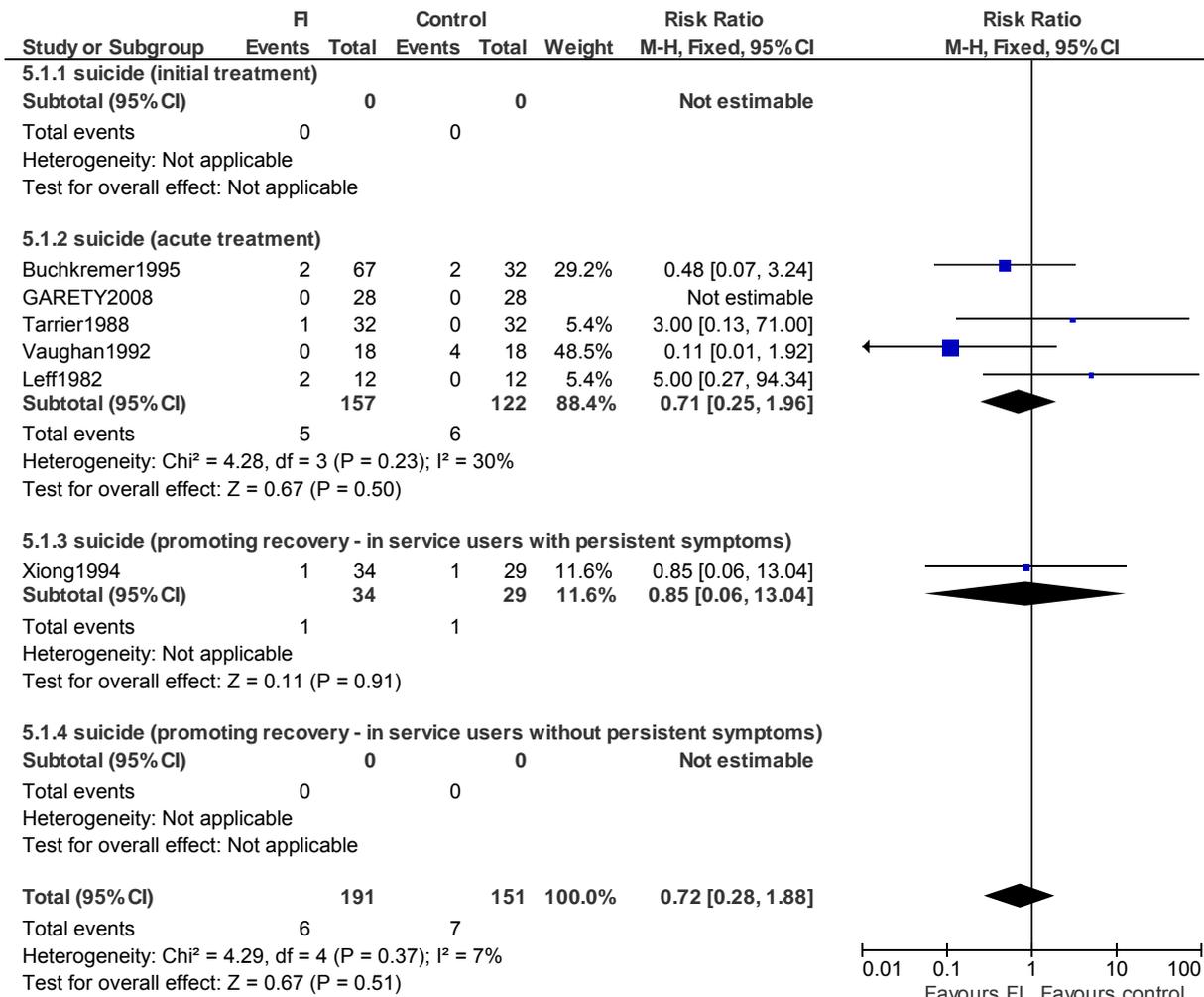
4.9 Treatment acceptability: 1. Leaving the study early for any reason



5 Family intervention versus any control - subgroup analysis by phase of illness

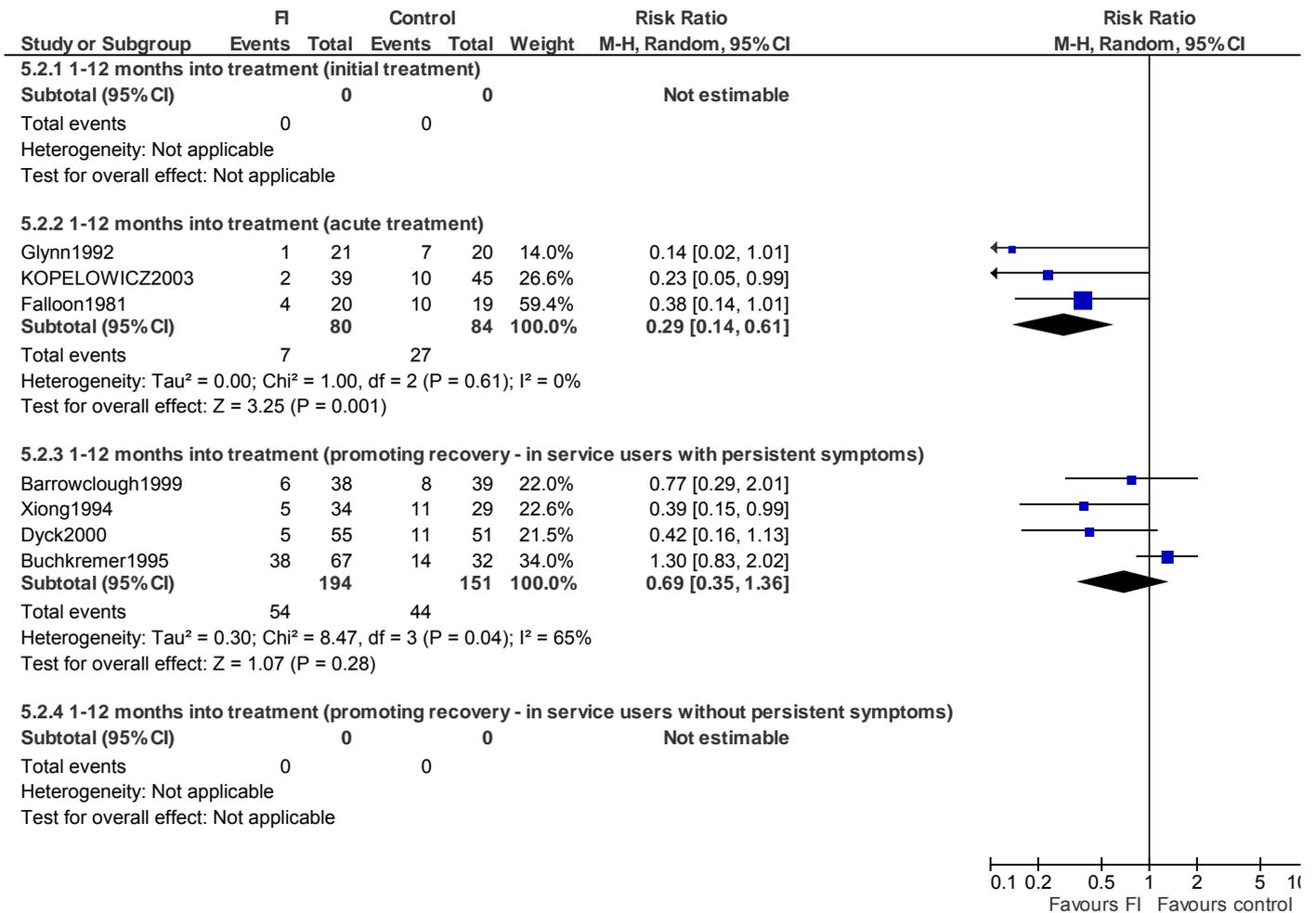
Psychological clinical evidence: Family intervention (subgroup analyses)

5.1 Mortality - suicide



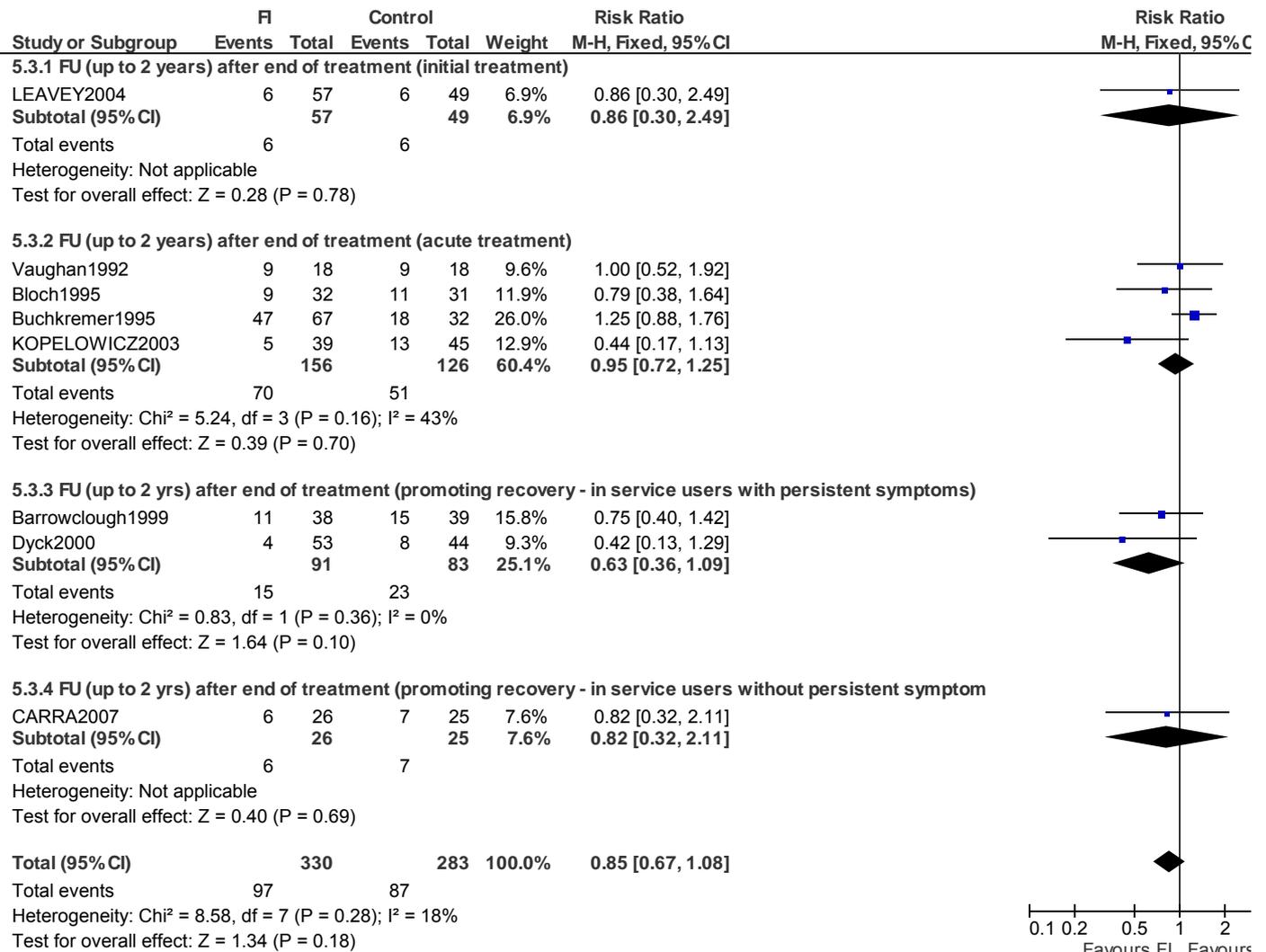
Psychological clinical evidence: Family intervention (subgroup analyses)

5.2 Service outcomes: 1. Hospital admission (1-24 months into treatment)



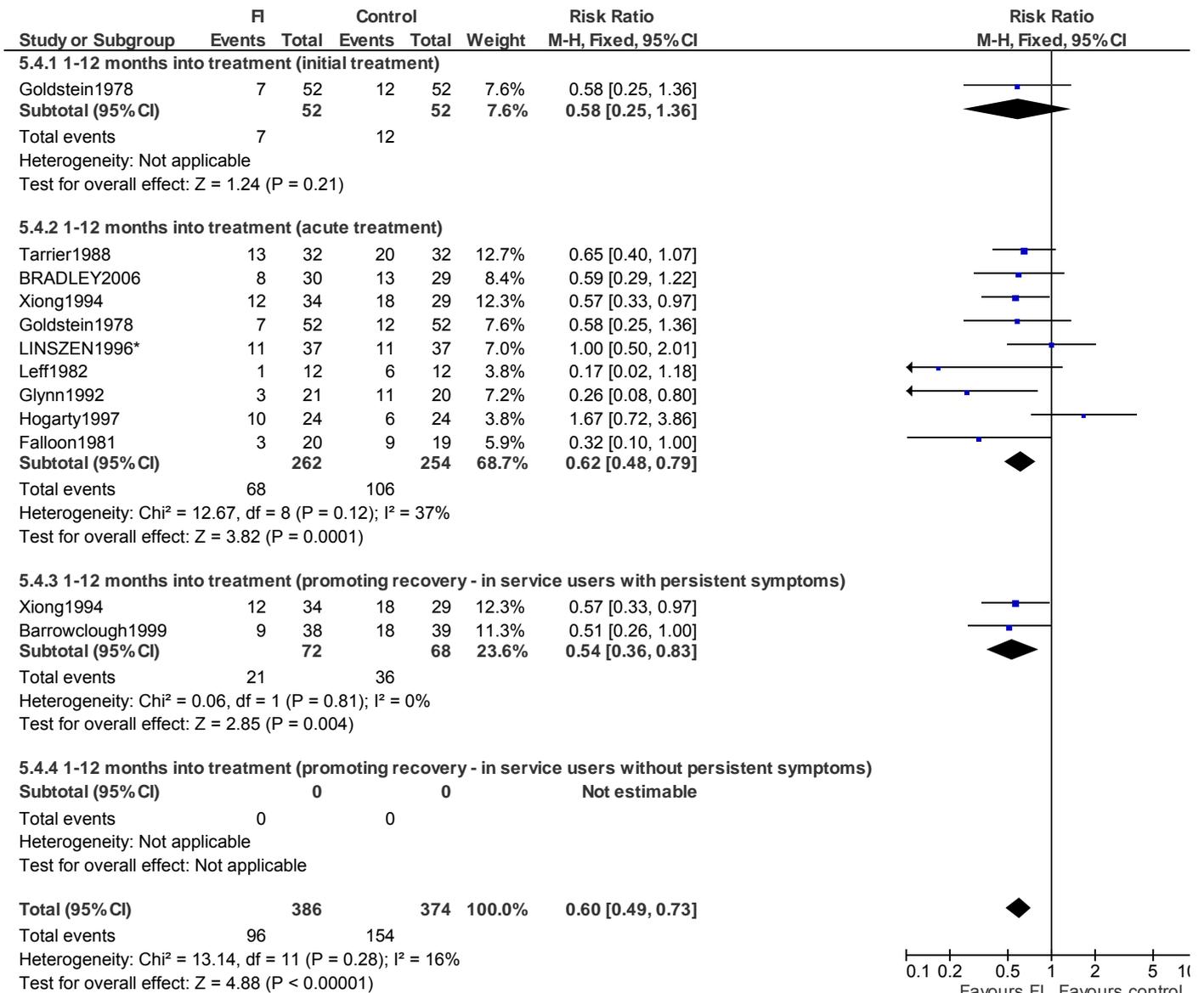
Psychological clinical evidence: Family intervention (subgroup analyses)

5.3 Service outcomes: 1. Hospital admission (at FU)



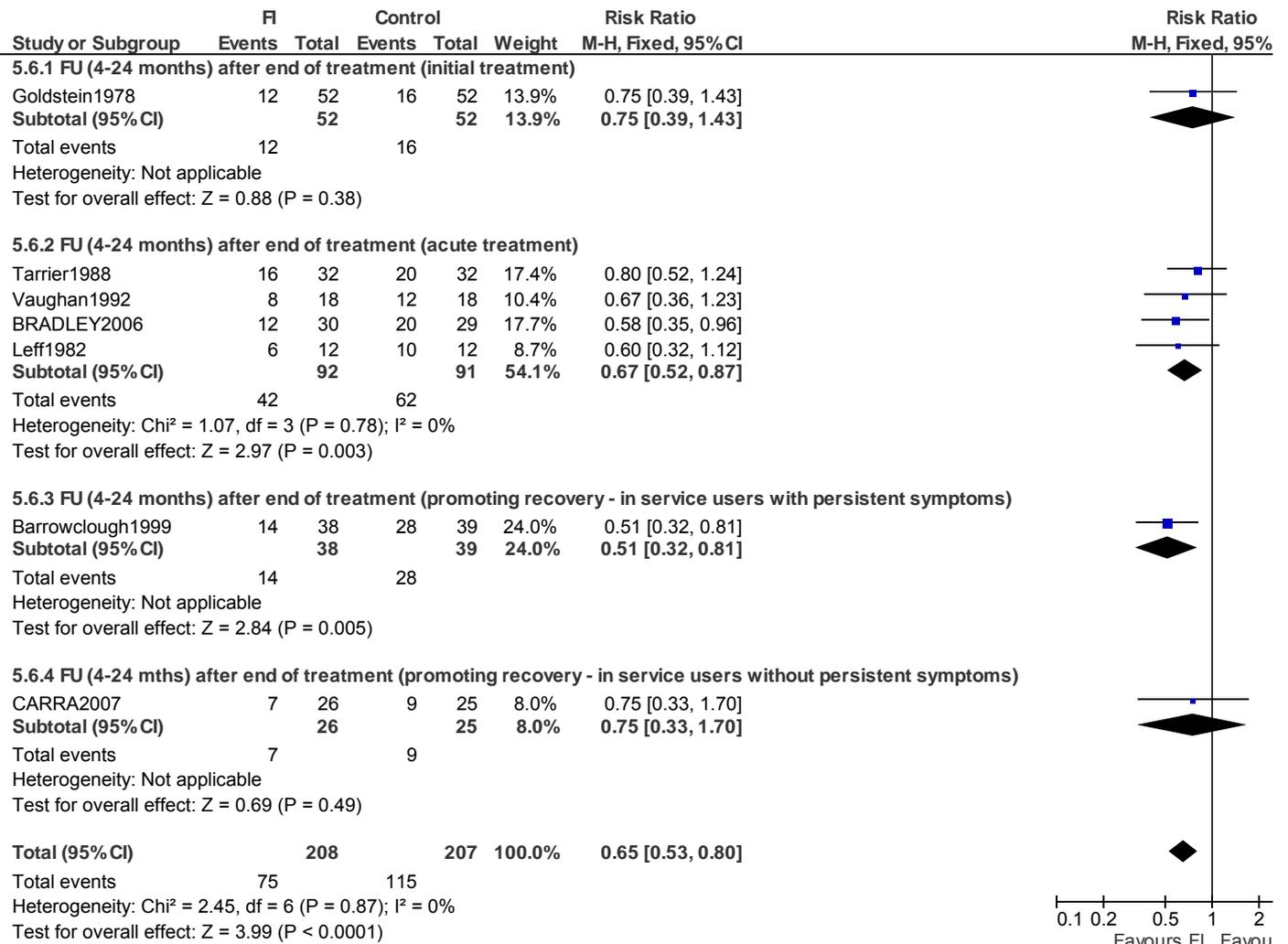
Psychological clinical evidence: Family intervention (subgroup analyses)

5.4 Global state: 1. Relapse (1-12 months into treatment)



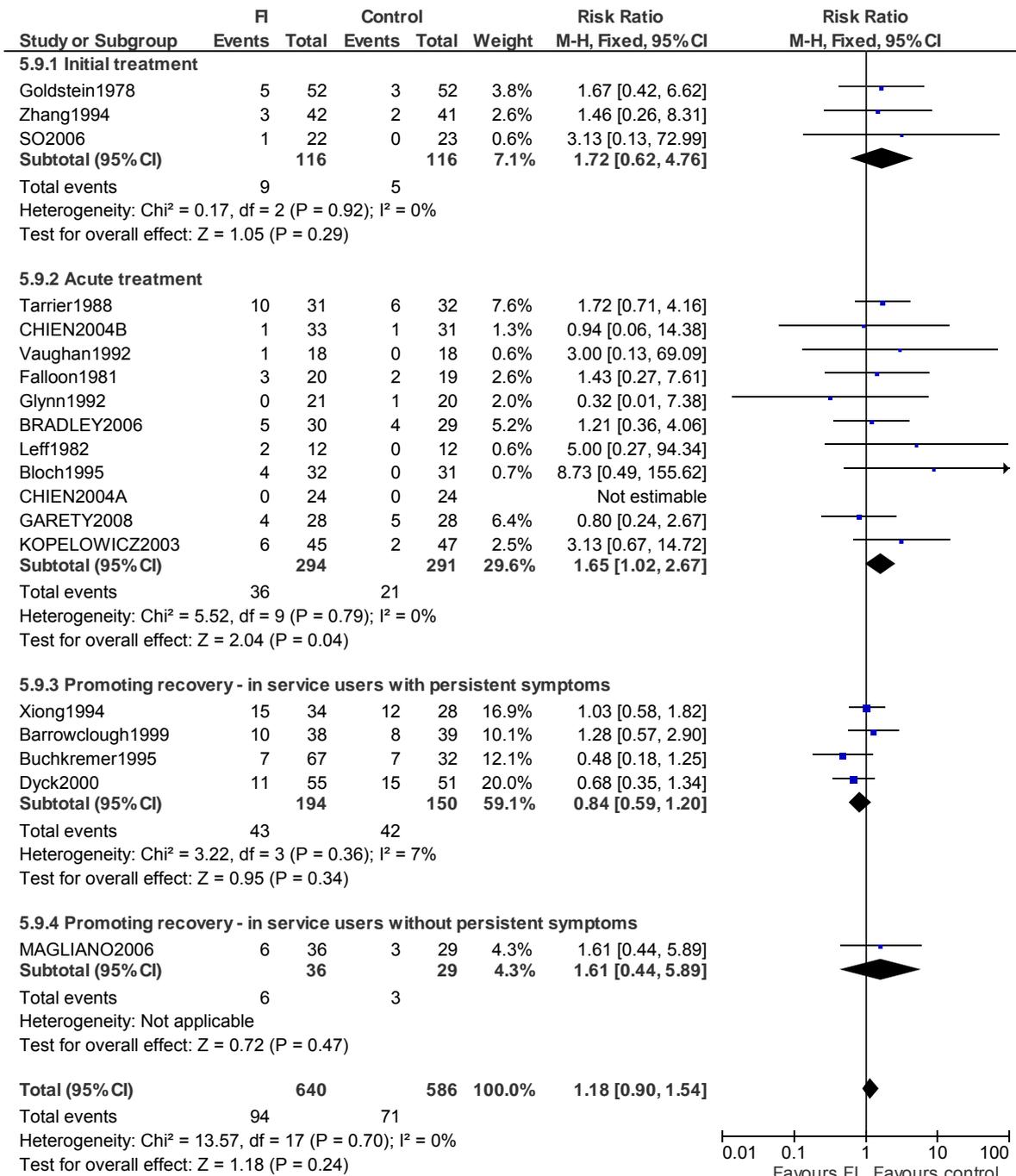
Psychological clinical evidence: Family intervention (subgroup analyses)

5.6 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

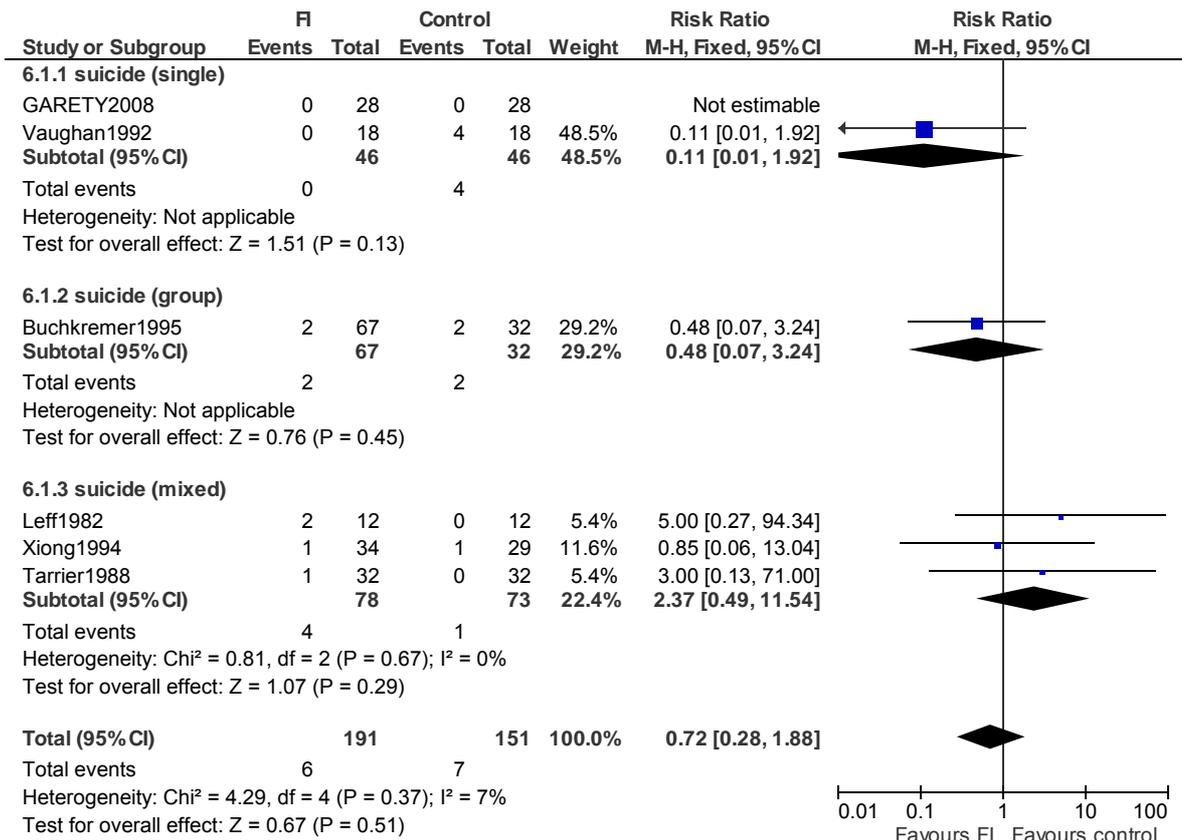
5.9 Treatment acceptability: 1. Leaving the study early for any reason



6 Family intervention versus any control - subgroup analysis by group

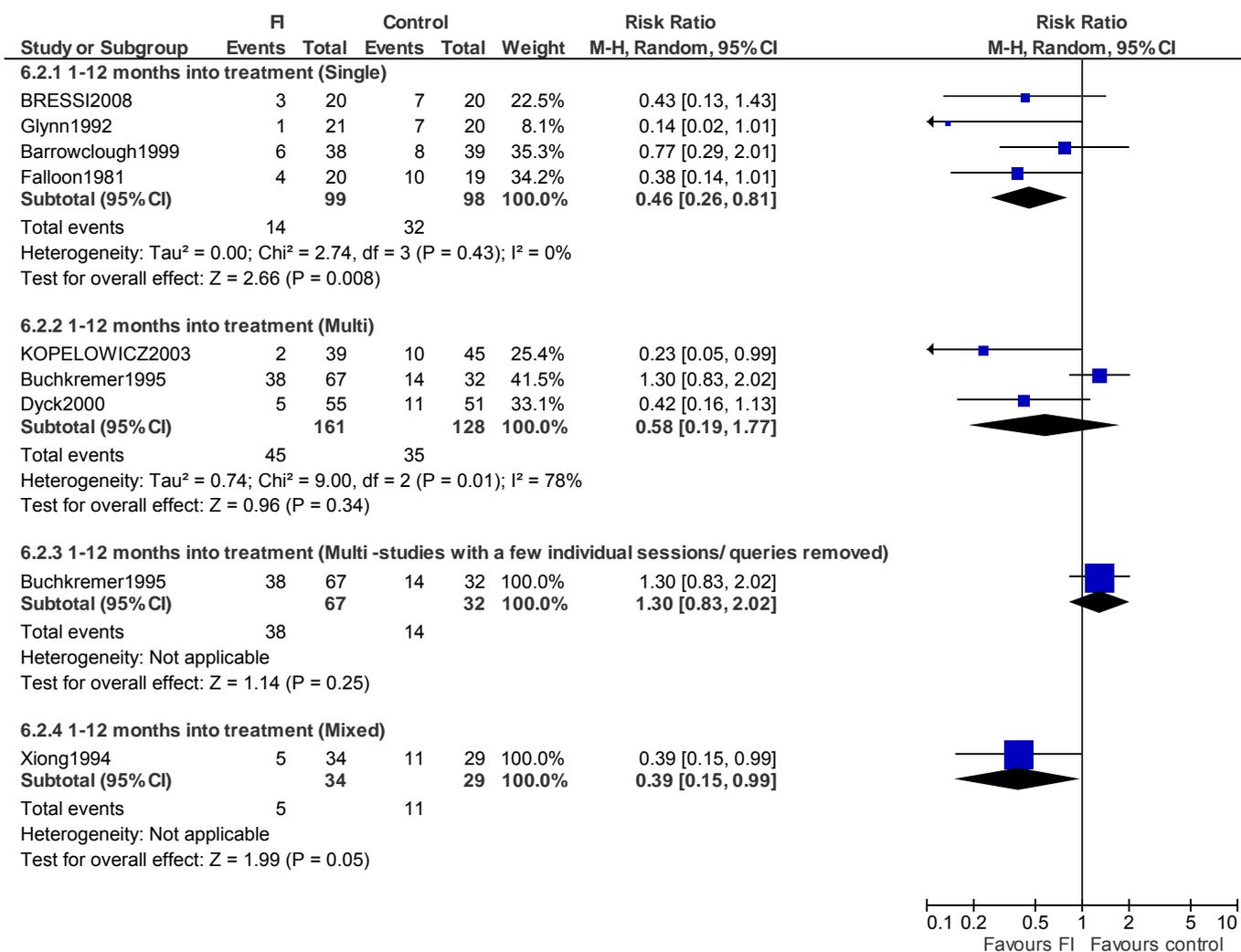
Psychological clinical evidence: Family intervention (subgroup analyses)

6.1 Mortality - suicide



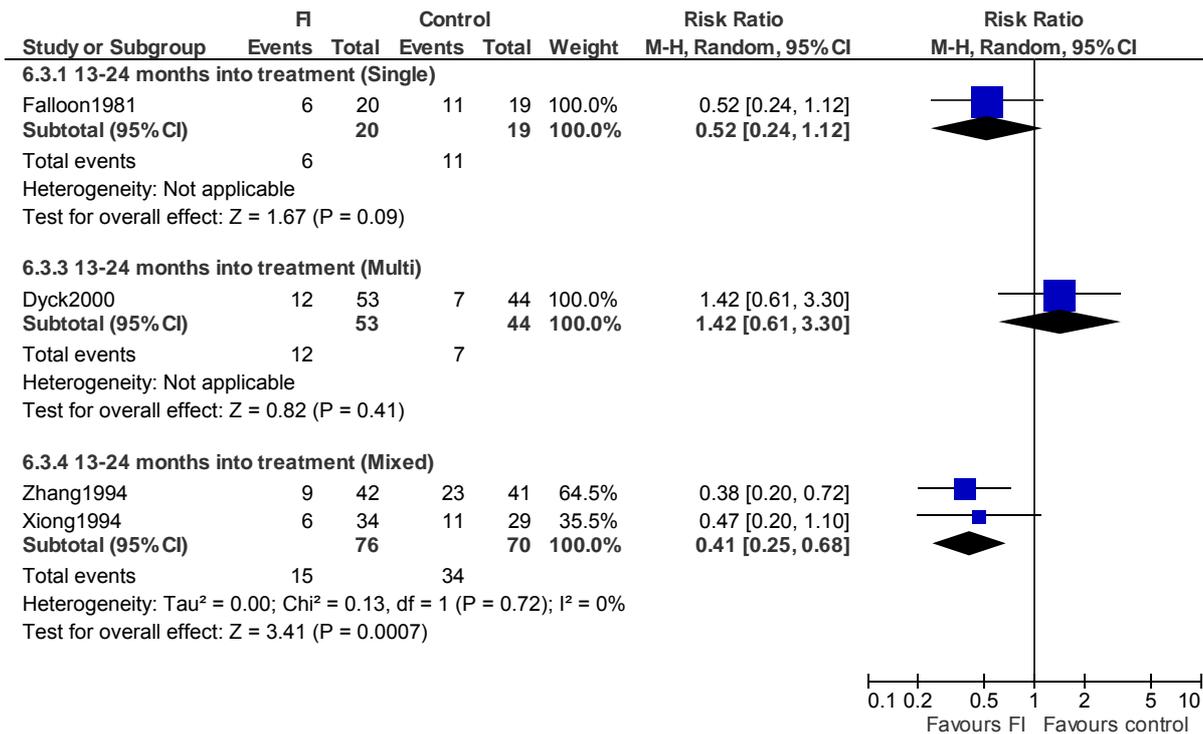
Psychological clinical evidence: Family intervention (subgroup analyses)

6.2 Service outcomes: 1. Hospital admission (0-12 months into treatment)



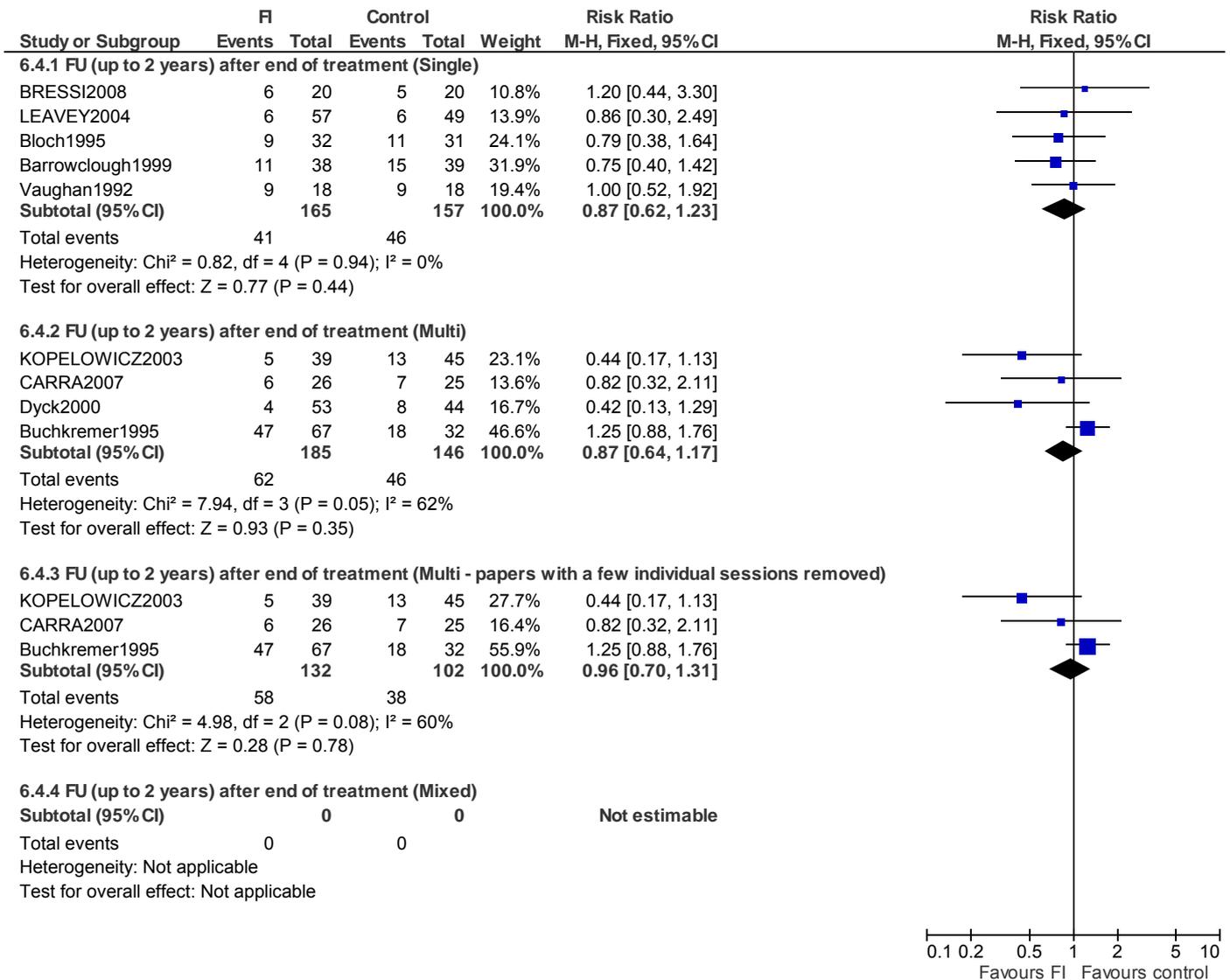
Psychological clinical evidence: Family intervention (subgroup analyses)

6.3 Service outcomes: 1. Hospital admission (13-24 months into treatment)



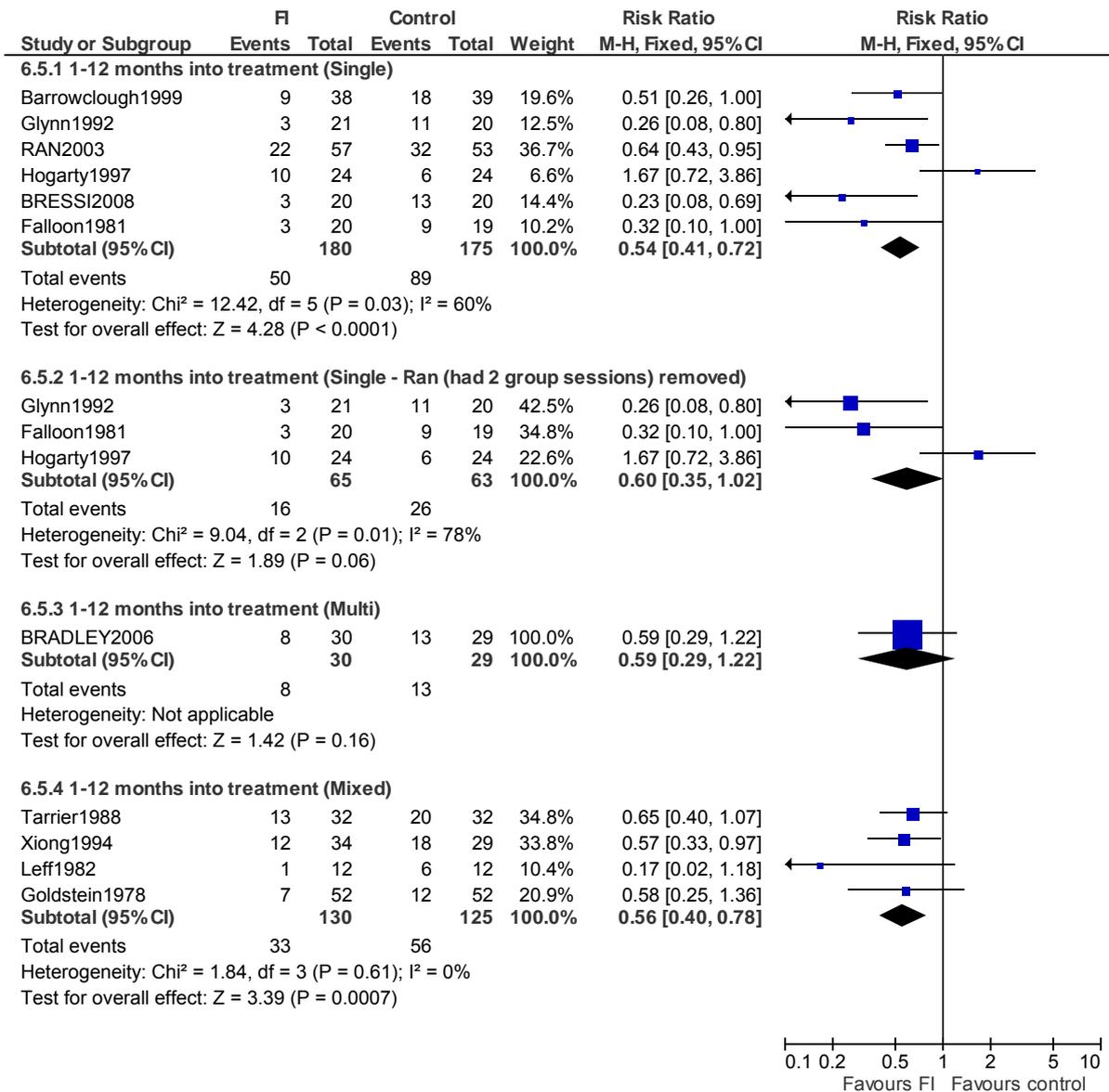
Psychological clinical evidence: Family intervention (subgroup analyses)

6.4 Service outcomes: 1. Hospital admission (at FU)



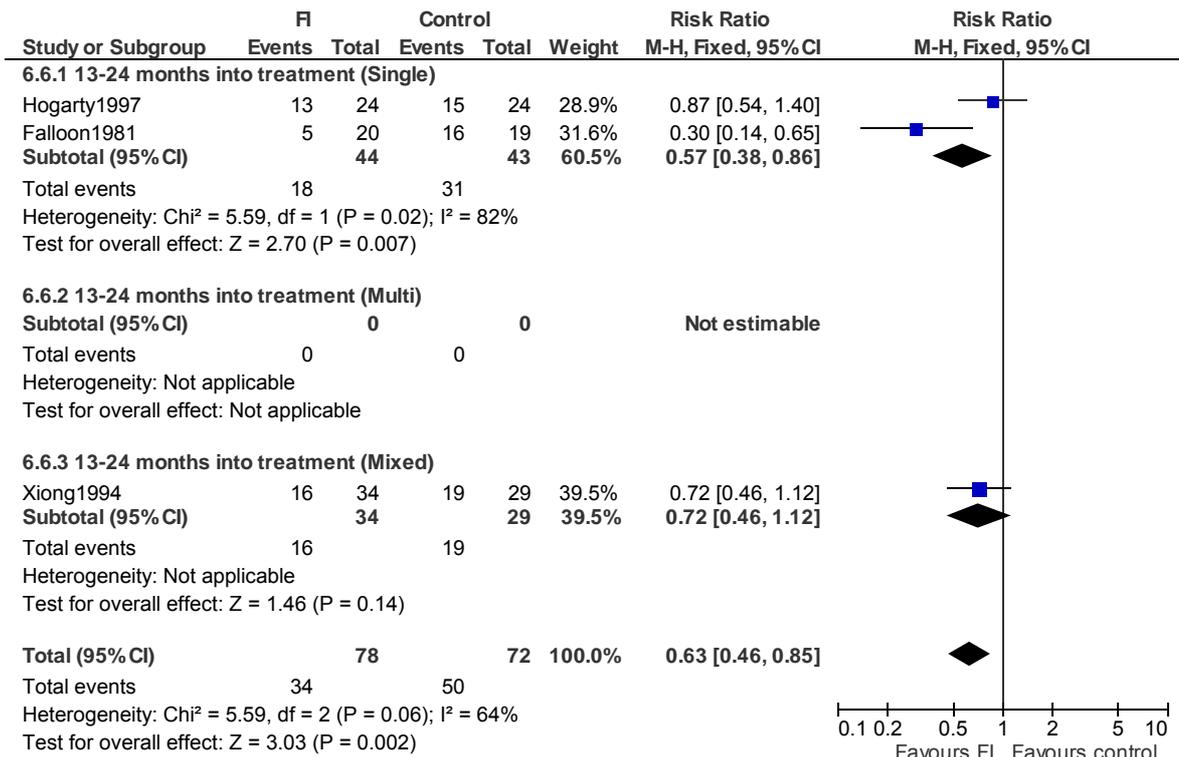
Psychological clinical evidence: Family intervention (subgroup analyses)

6.5 Global state: 1. Relapse (1-12 months into treatment)



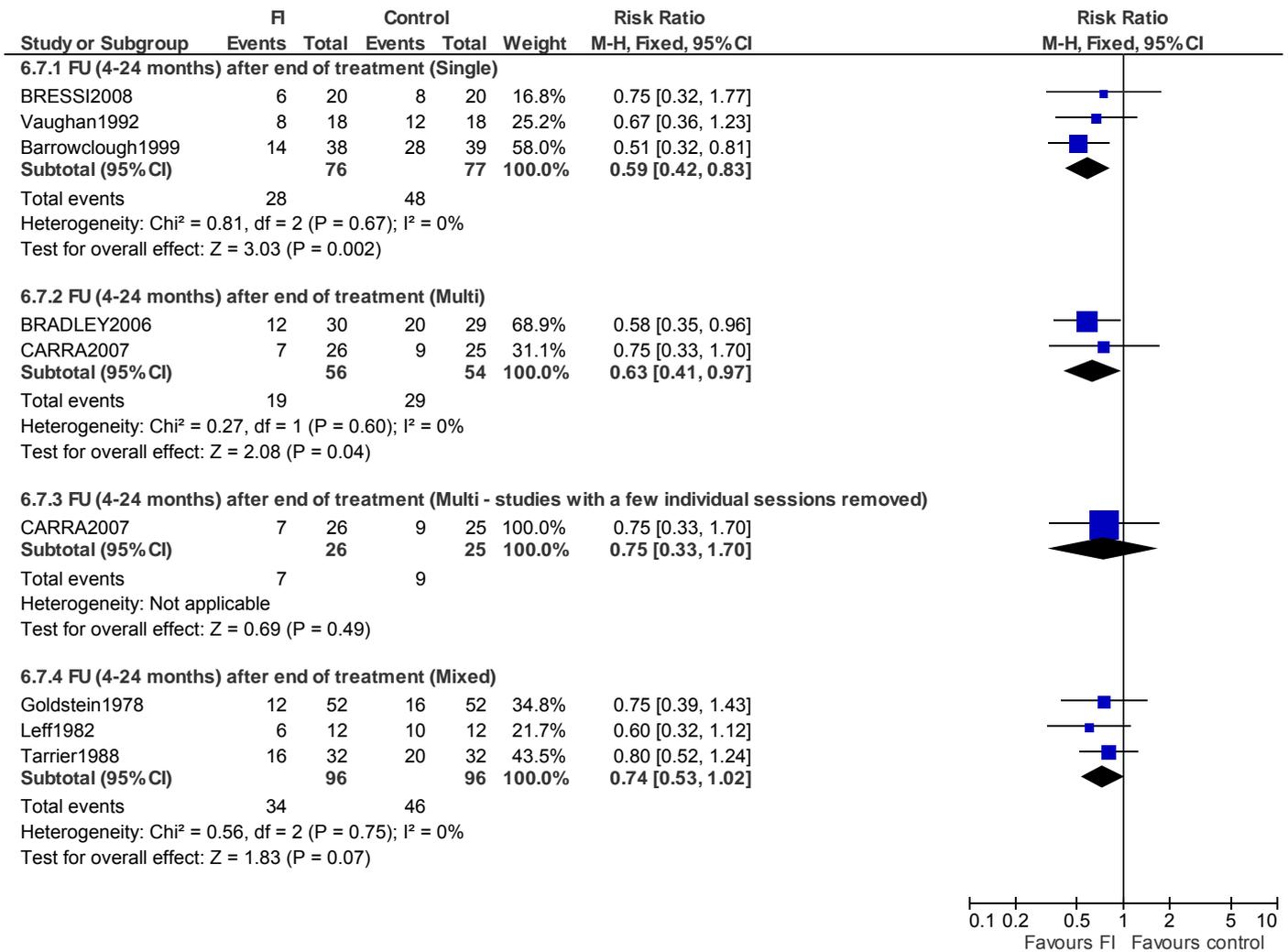
Psychological clinical evidence: Family intervention (subgroup analyses)

6.6 Global state: 1. Relapse (13-24 months into treatment)



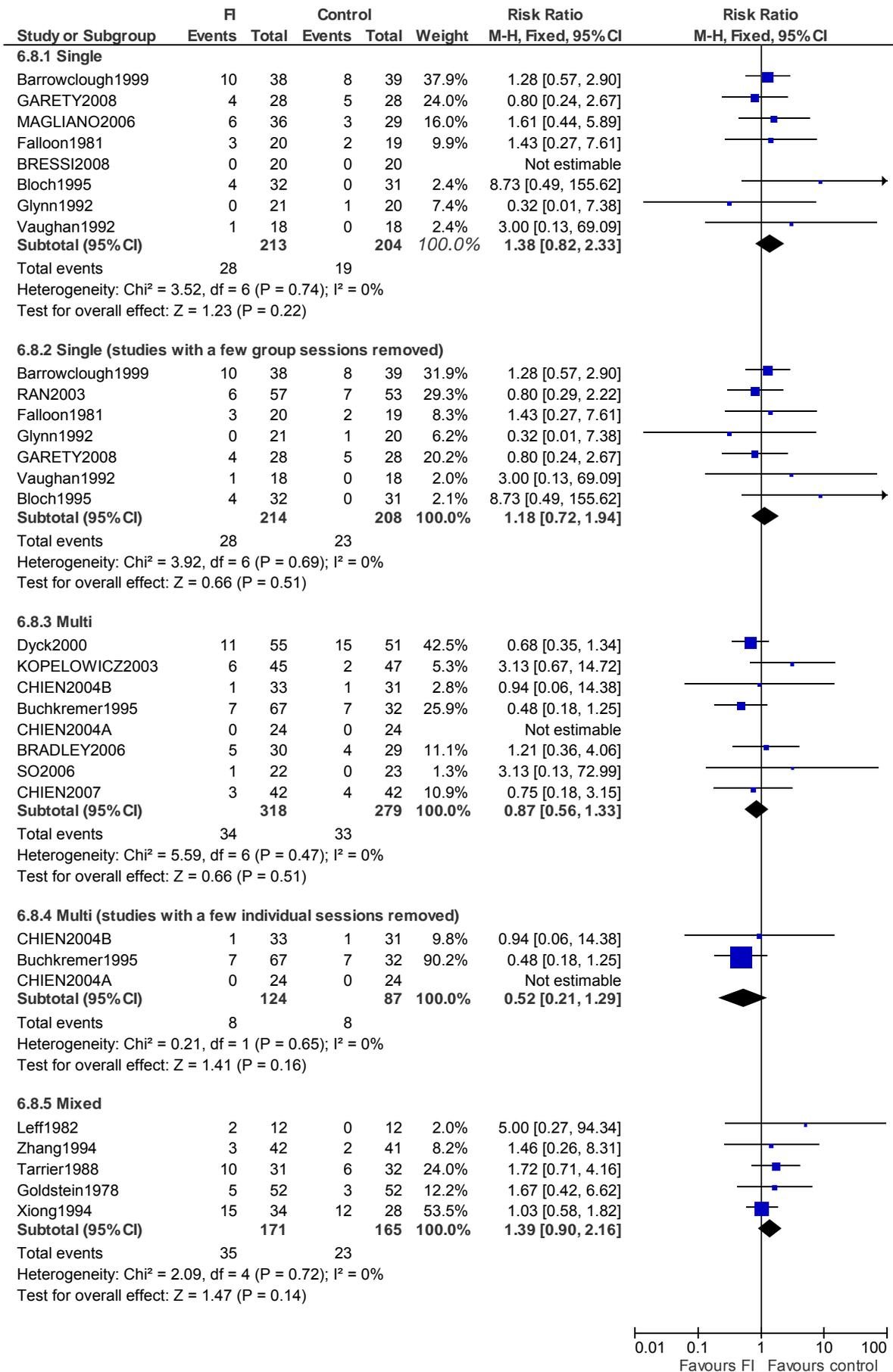
Psychological clinical evidence: Family intervention (subgroup analyses)

6.7 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

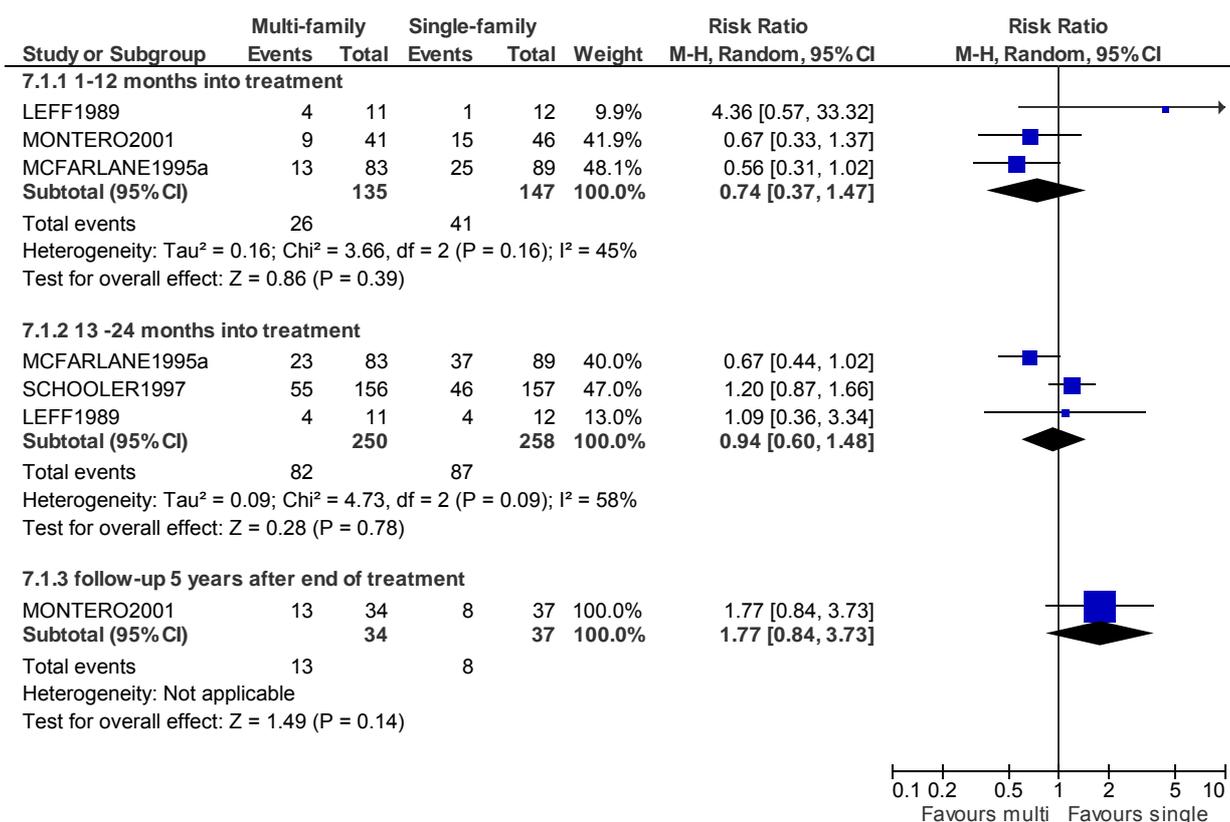
6.8 Treatment acceptability: 1. Leaving the study early for any reason



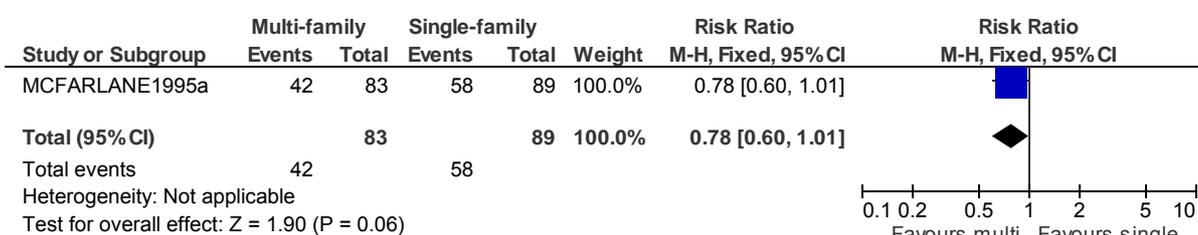
Psychological clinical evidence: Family intervention (subgroup analyses)

7 DIRECT FORMAT COMPARISON 1: Multi-family interventions versus single family interventions

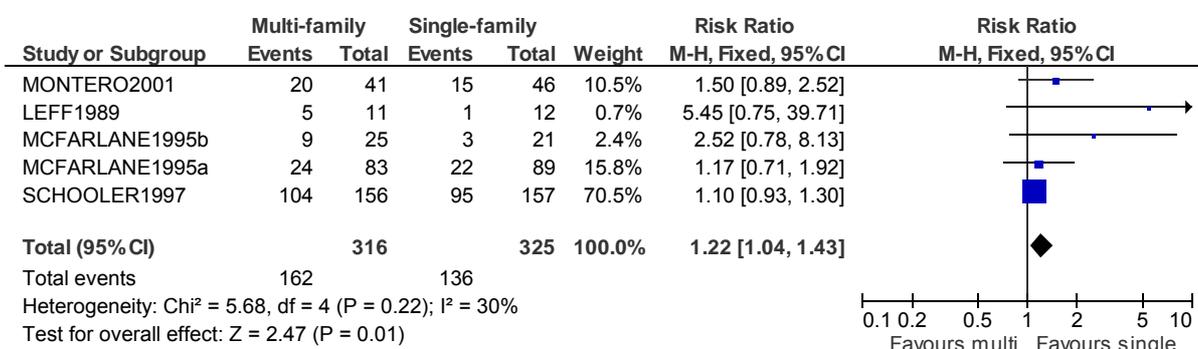
7.1 Global state: 1. Relapse



7.2 Psychosocial functioning: 1. Not in work-related activity

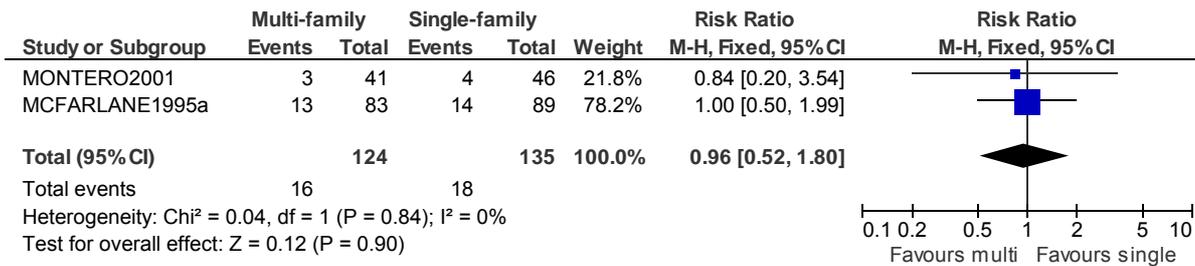


7.3 Treatment acceptability: 1. Leaving the study early for any reason



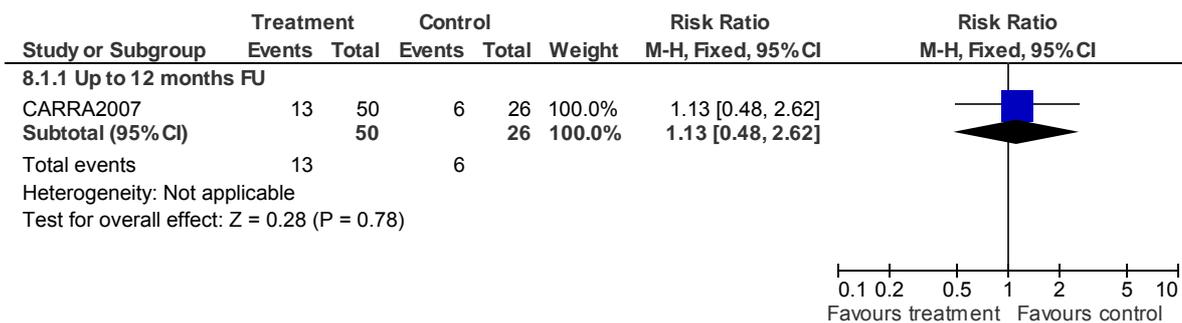
Psychological clinical evidence: Family intervention (subgroup analyses)

7.4 Non-adherence to study medication

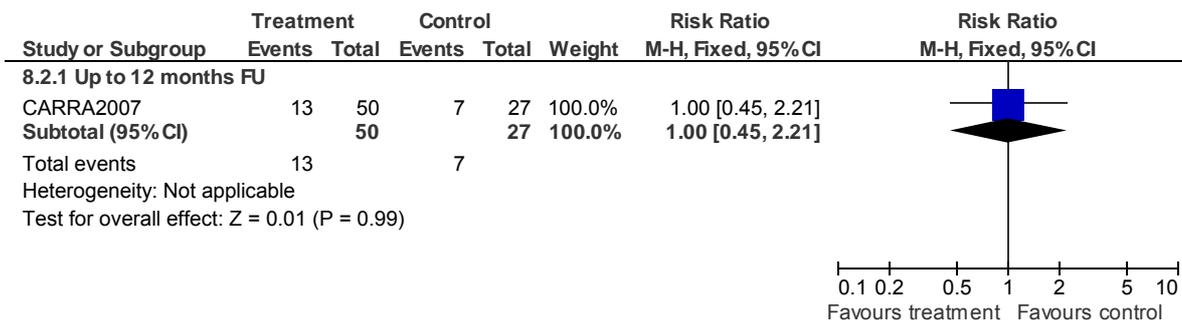


8 DIRECT FORMAT COMPARISON 2: Information group + support group versus information group only

8.1 Service Outcome: 1.Re-hospitalisation (at FU)

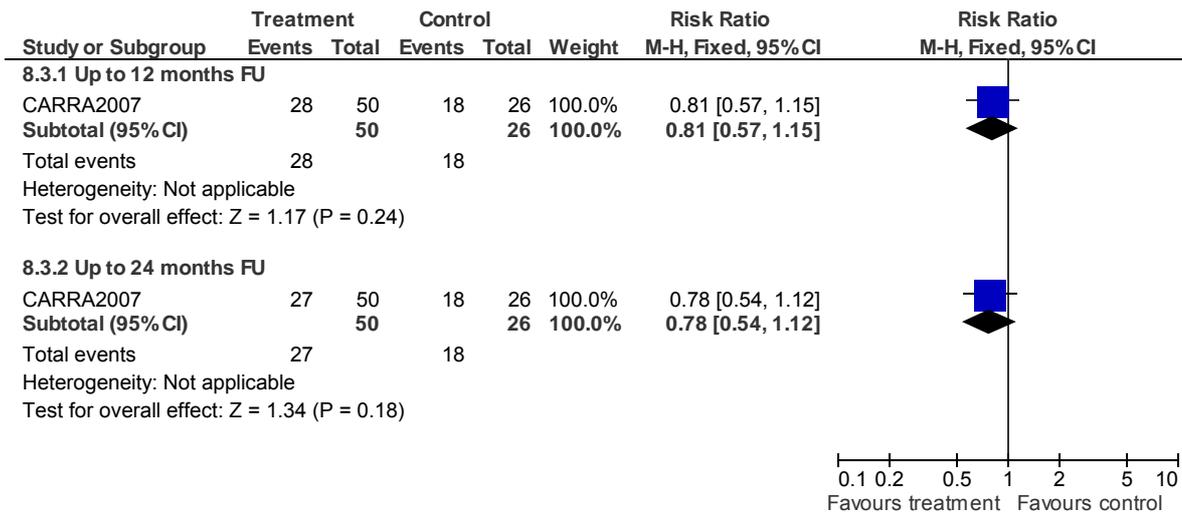


8.2 Global State: 1. Relapse (at FU)



Psychological clinical evidence: Family intervention (subgroup analyses)

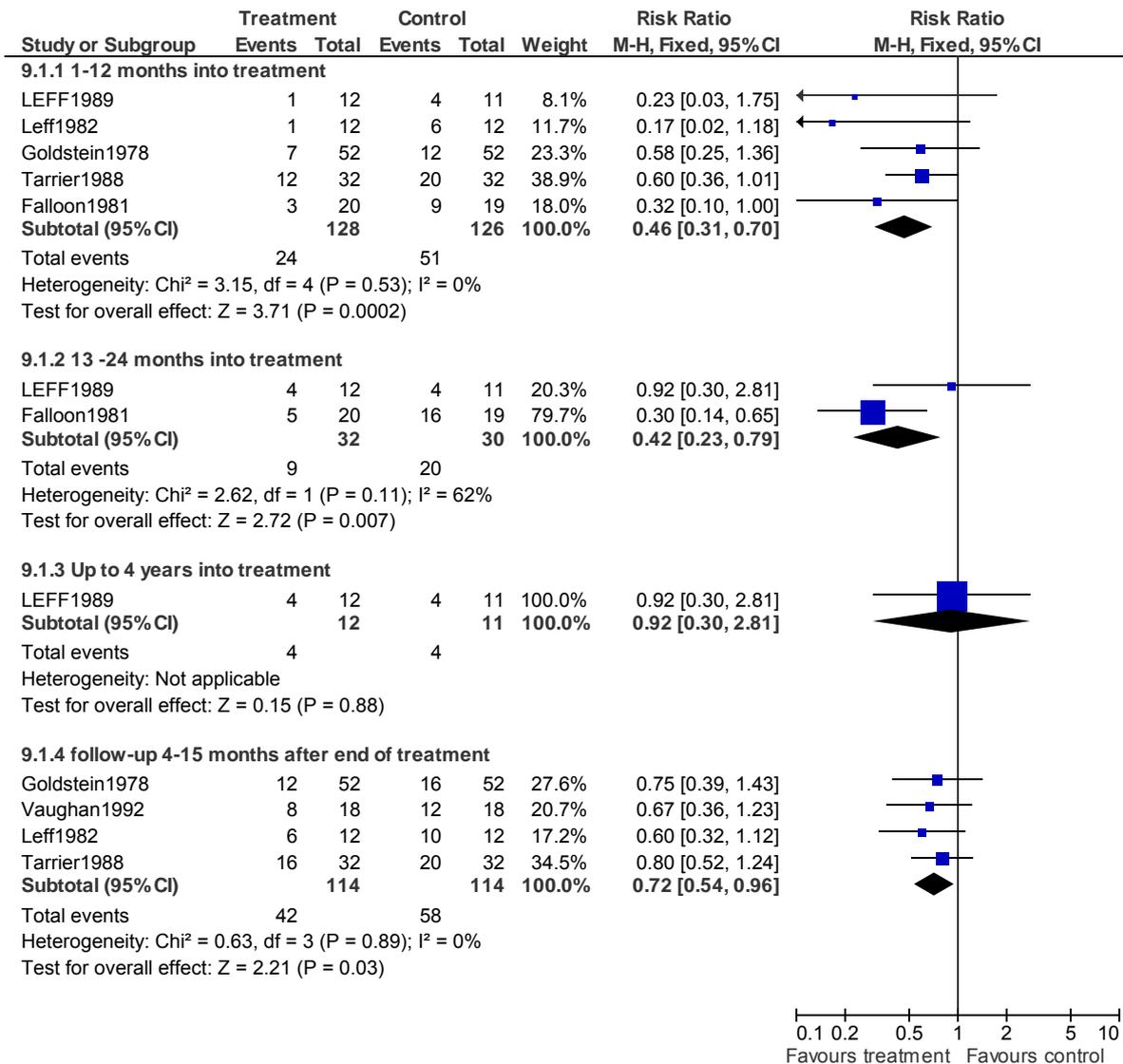
8.3 Psychosocial Functioning: 1. Not in current employment (at FU)



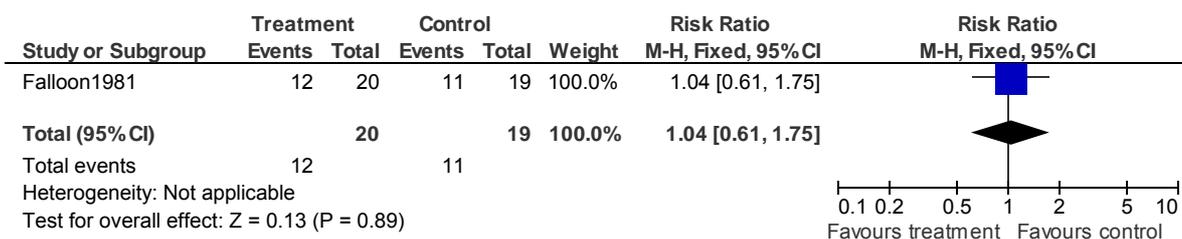
9 DIRECT FORMAT COMPARISON 3: Family interventions for high-EE families only versus everything

Psychological clinical evidence: Family intervention (subgroup analyses)

9.1 Global state: 1. Relapse

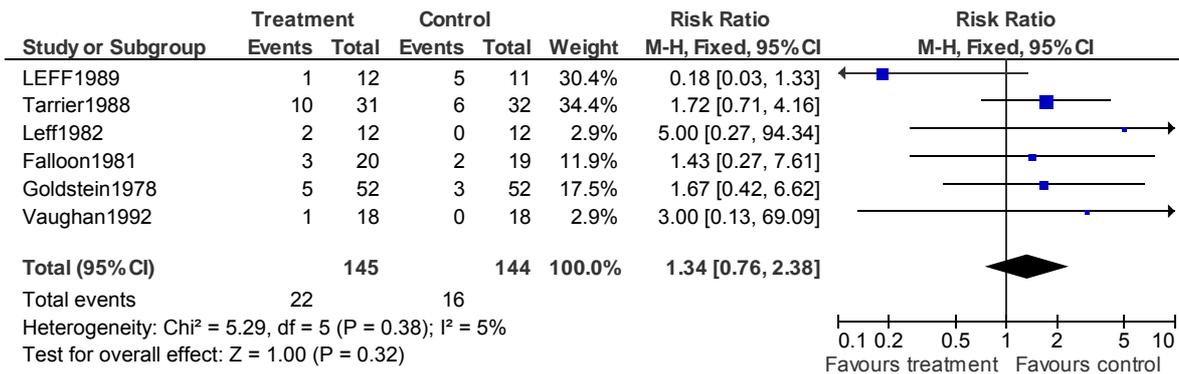


9.2 Psychosocial functioning: 1. Not in work-related activity



Psychological clinical evidence: Family intervention (subgroup analyses)

9.3 Treatment acceptability: 1. Leaving the study early for any reason



9.4 Non-adherence to study medication

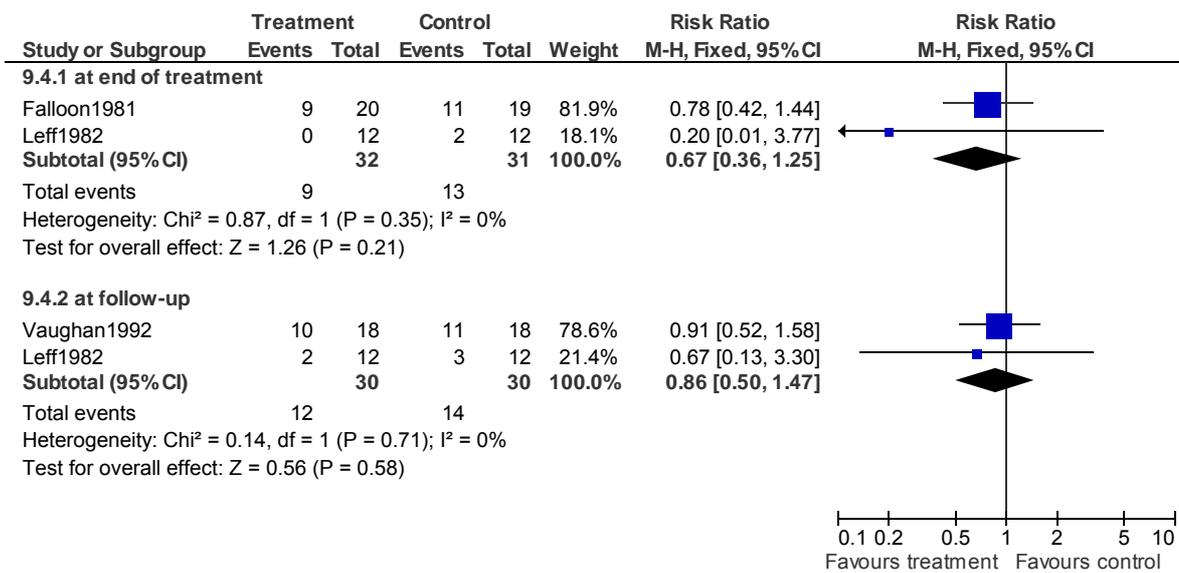


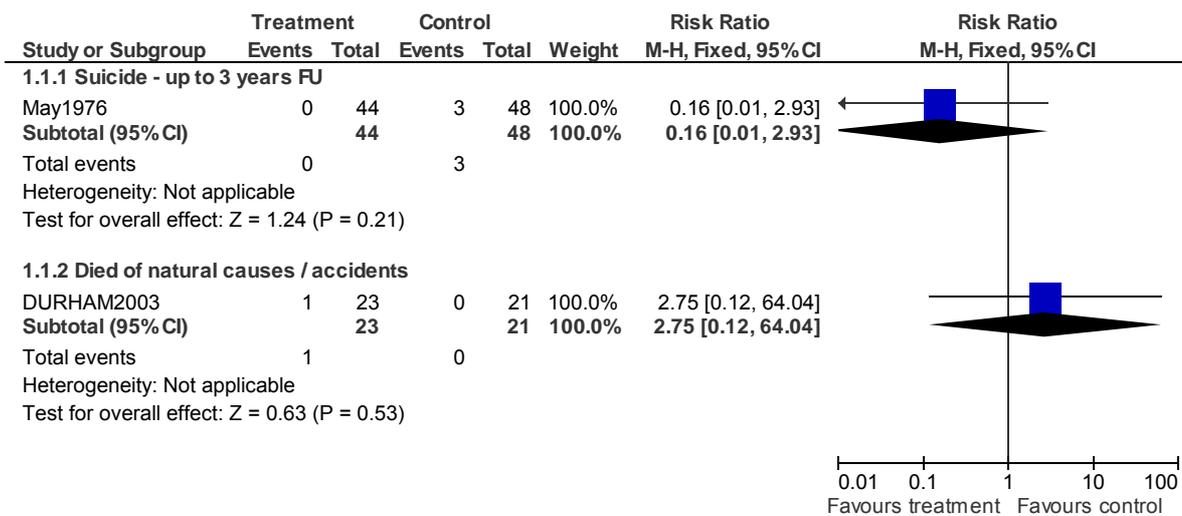
Table 7: Studies included in the psychodynamic and psychoanalytic therapies review

Intervention	versus Comparator
	Any control
Psychodynamic and psychoanalytic therapies	DURHAM2003 May1976
	Reality adaptive therapy
Insight orientated therapy	Gunderson1984
	Group therapy
Individual therapy	O'Brien1972

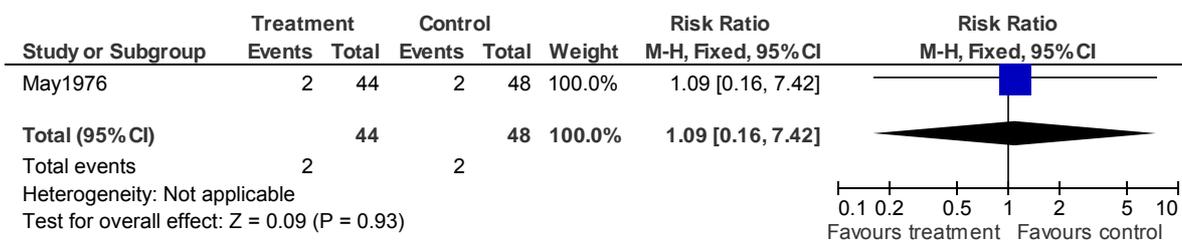
Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

1 Psychodynamic and psychoanalytic therapies versus any control

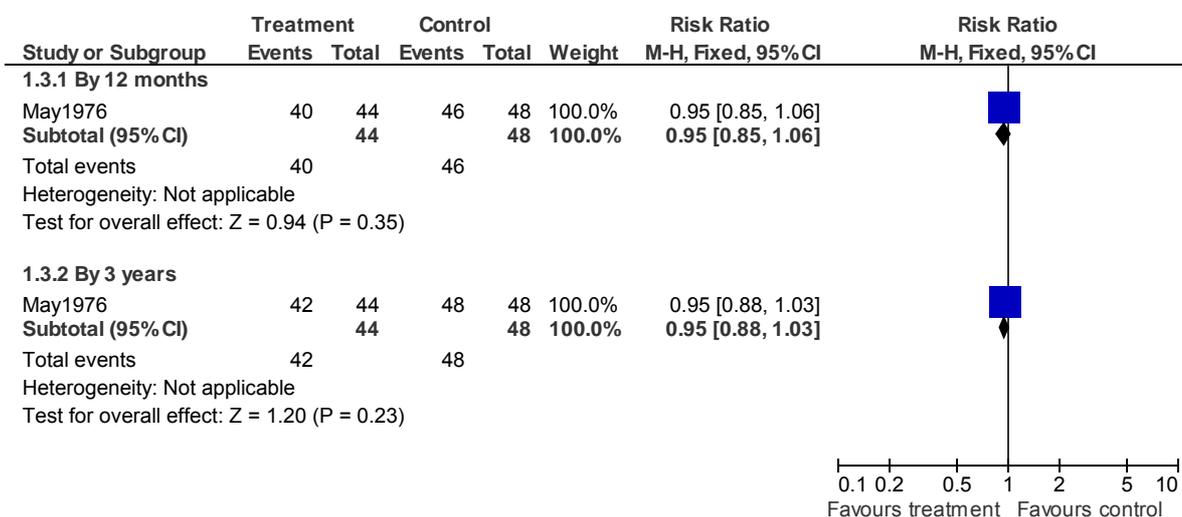
1.1 Mortality



1.2 Global state: 1. not able to be discharged

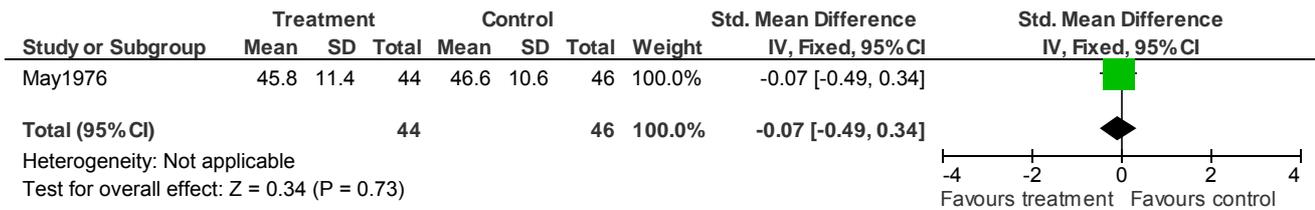


1.3 Global state: 2. Given medication during 12 months to three years FU

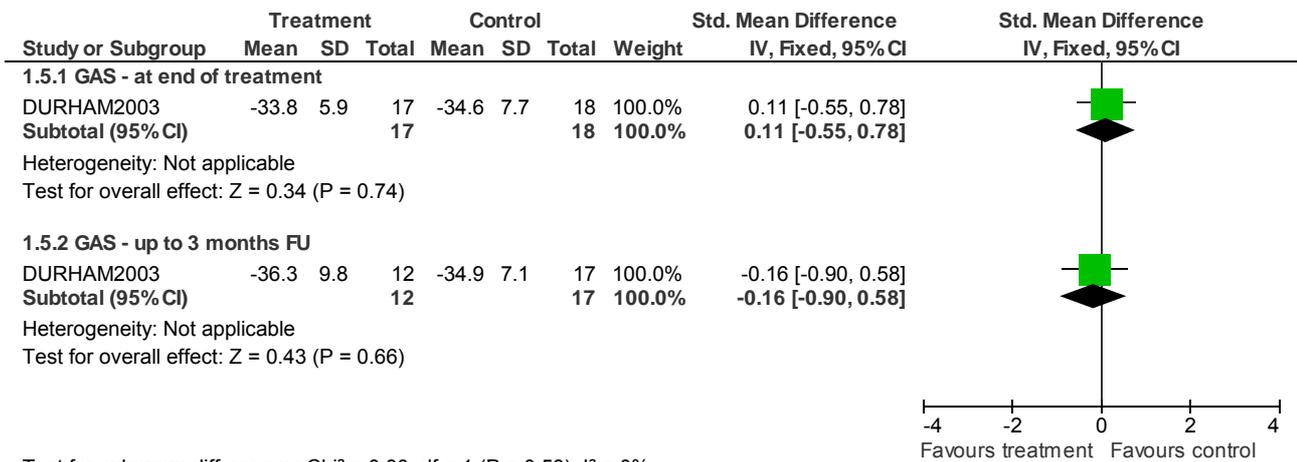


Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

1.4 Global state: 3. Achieved best level of health (Menninger Health Sickness scale)

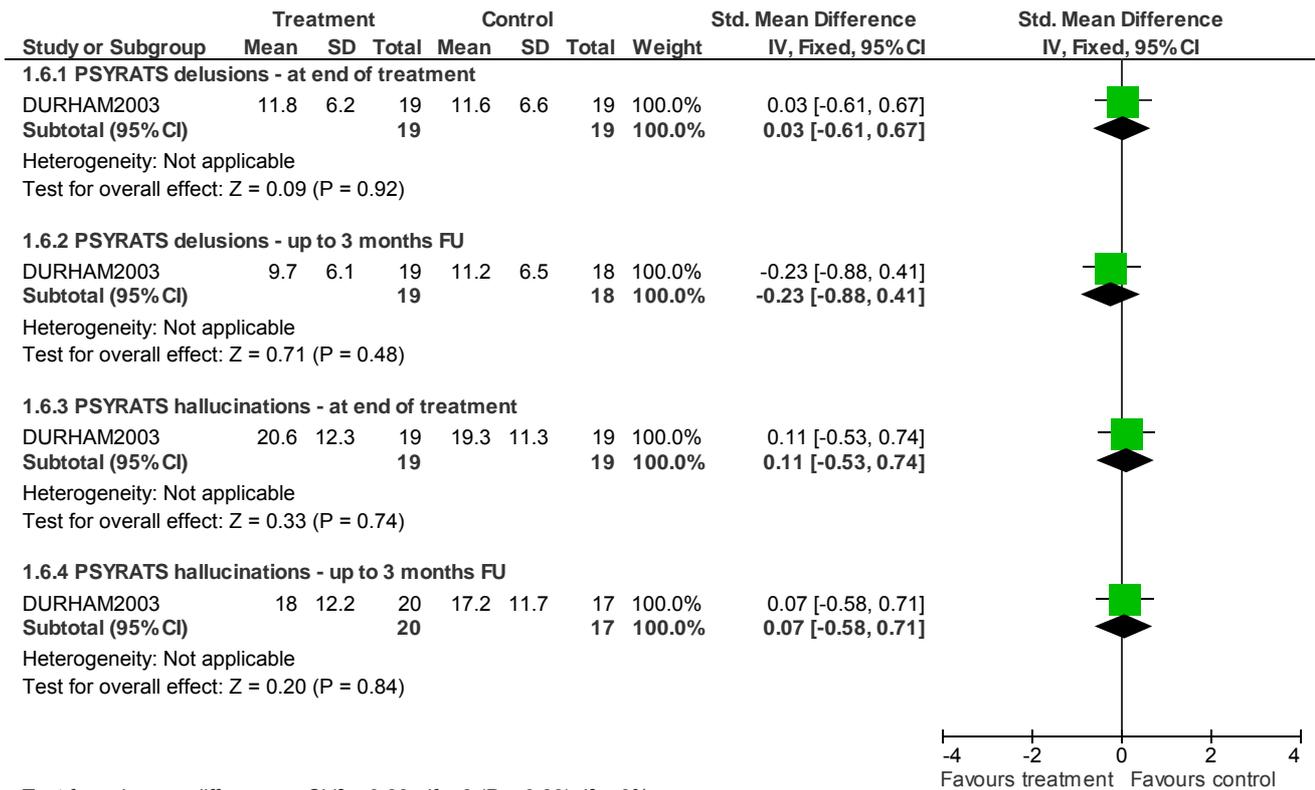


1.5 Global state: 4. GAS (signs reversed)

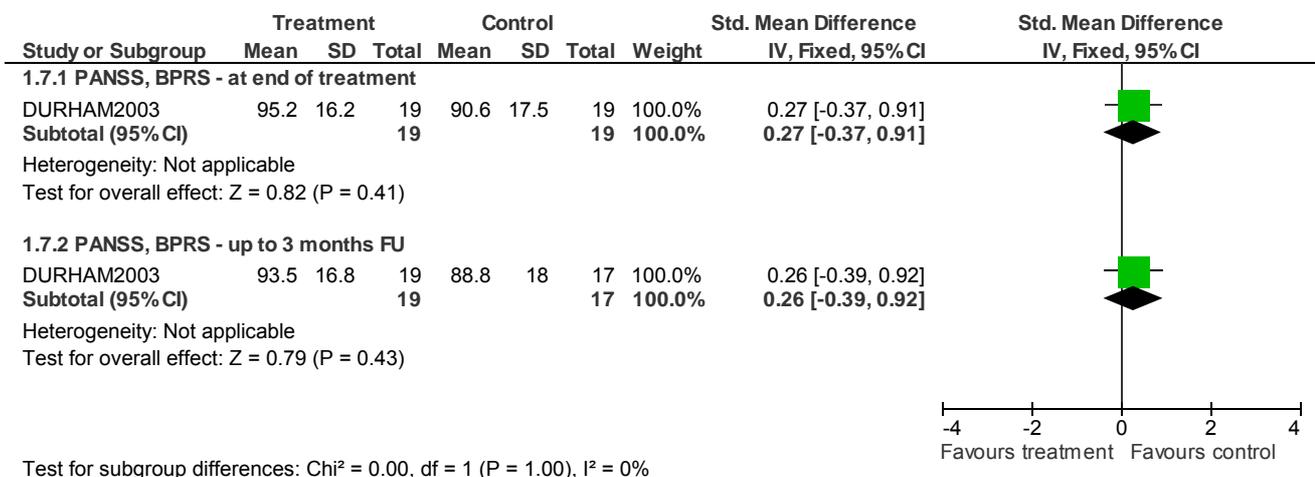


Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

1.6 Mental state: 1. Continuous measures - PSYRATS (lower = better)

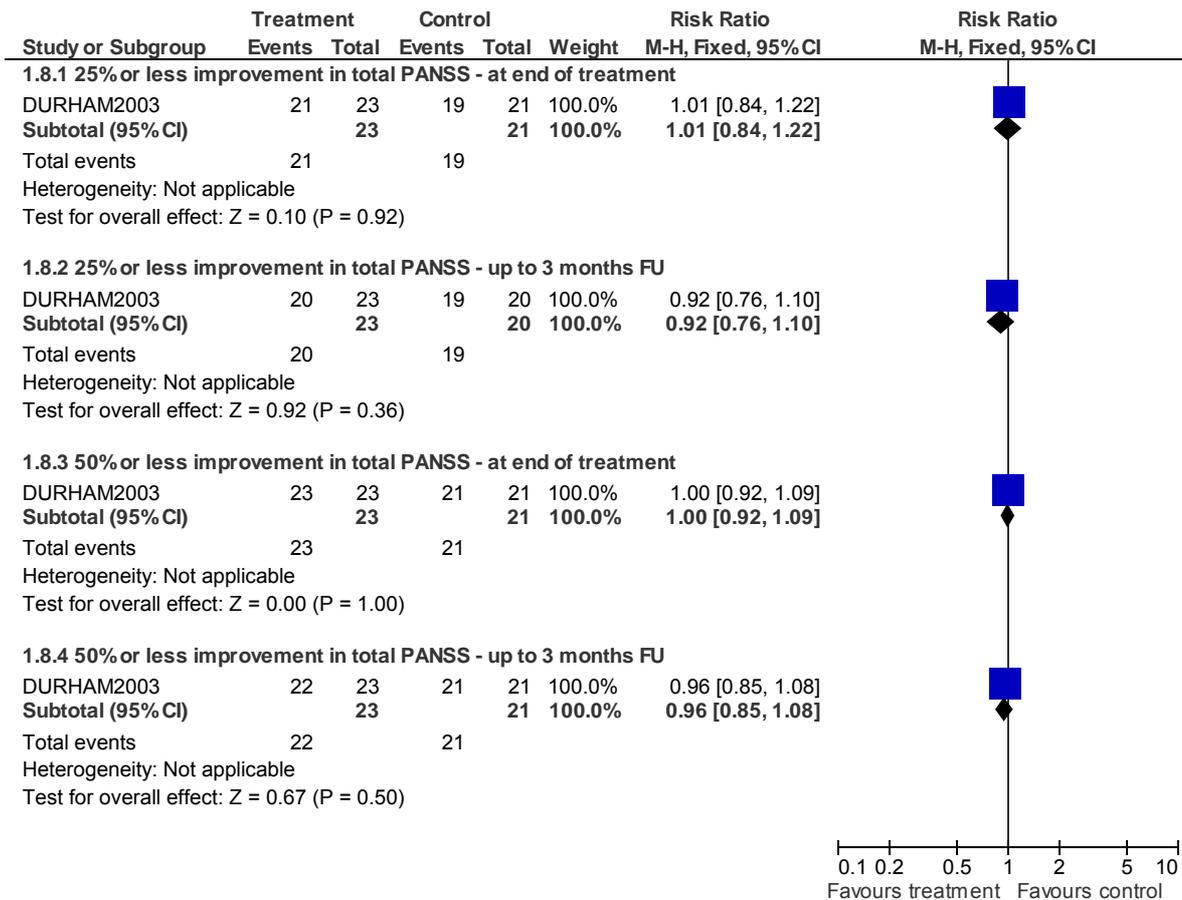


1.7 Mental state: 2. Continuous measures - total symptom score (lower = better)

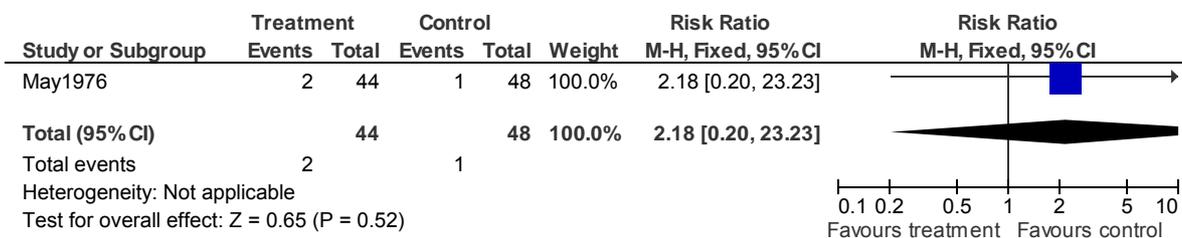


Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

1.8 Mental state: 3. No clinically significant improvement

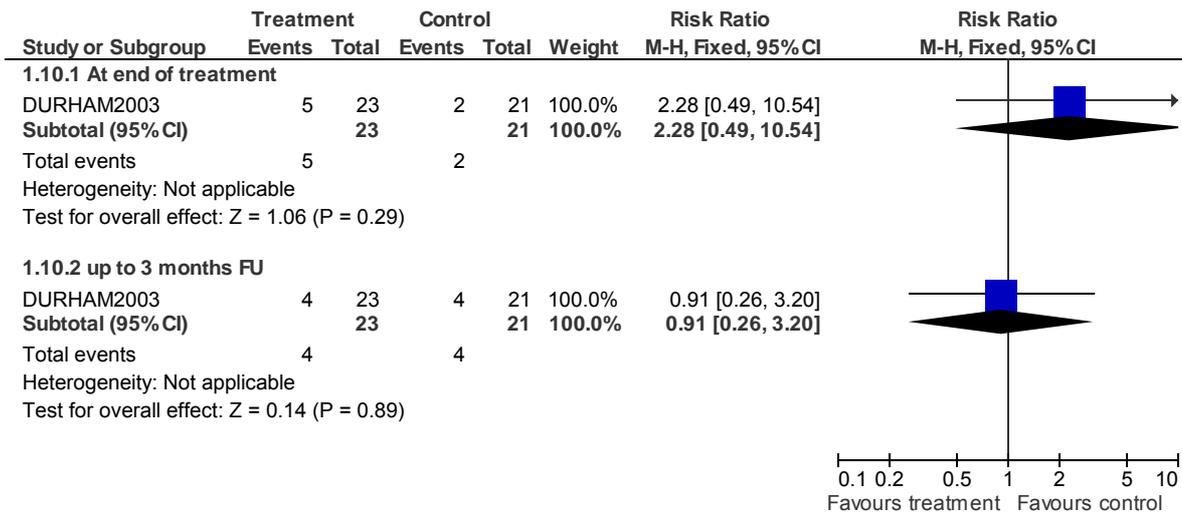


1.9 Treatment not considered successful by treatment team



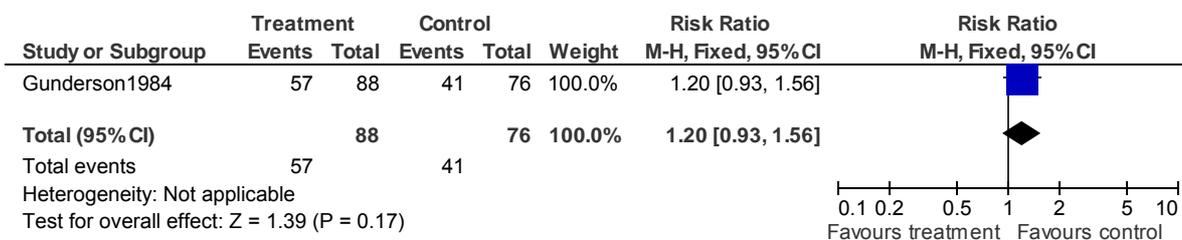
Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

1.10 Treatment acceptability: Leaving the study for any reason

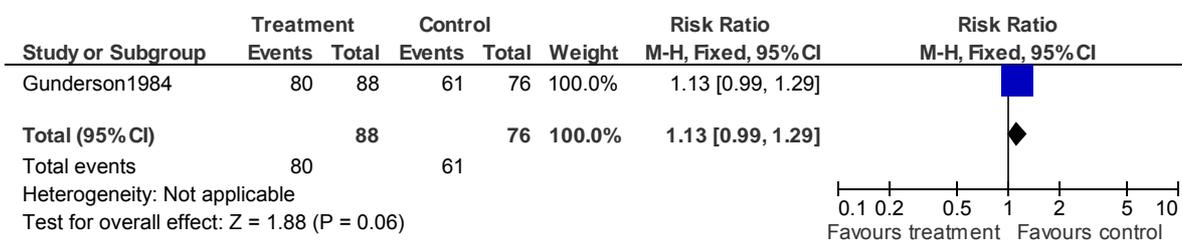


2 Insight orientated versus reality orientated psychodynamic and psychoanalytic therapies

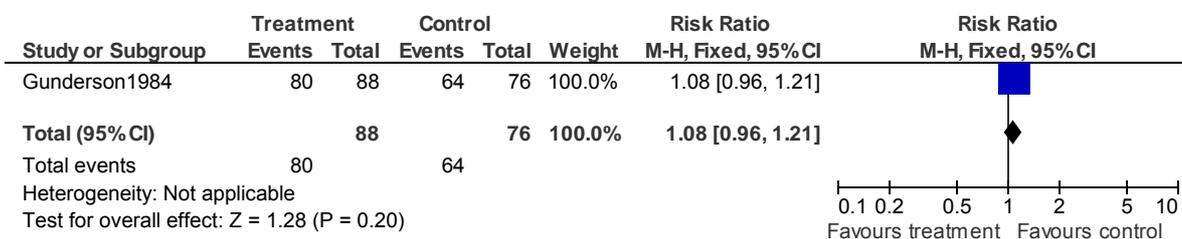
2.1 Global state: 1. Rehospitalised



2.2 Global state: 2. Not able to perform major household responsibilities

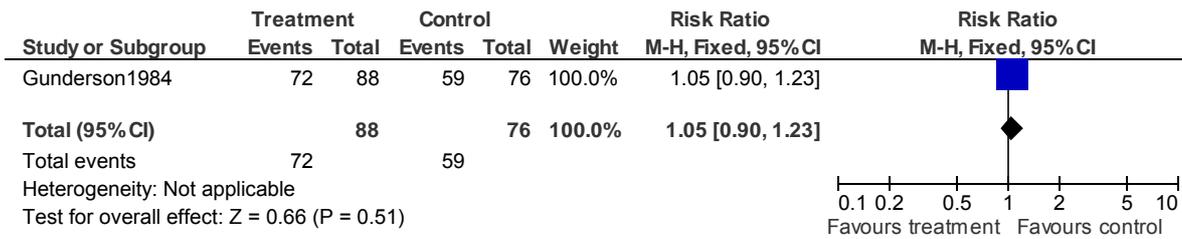


2.3 Global state: 3. Not able to enjoy a significant relationship

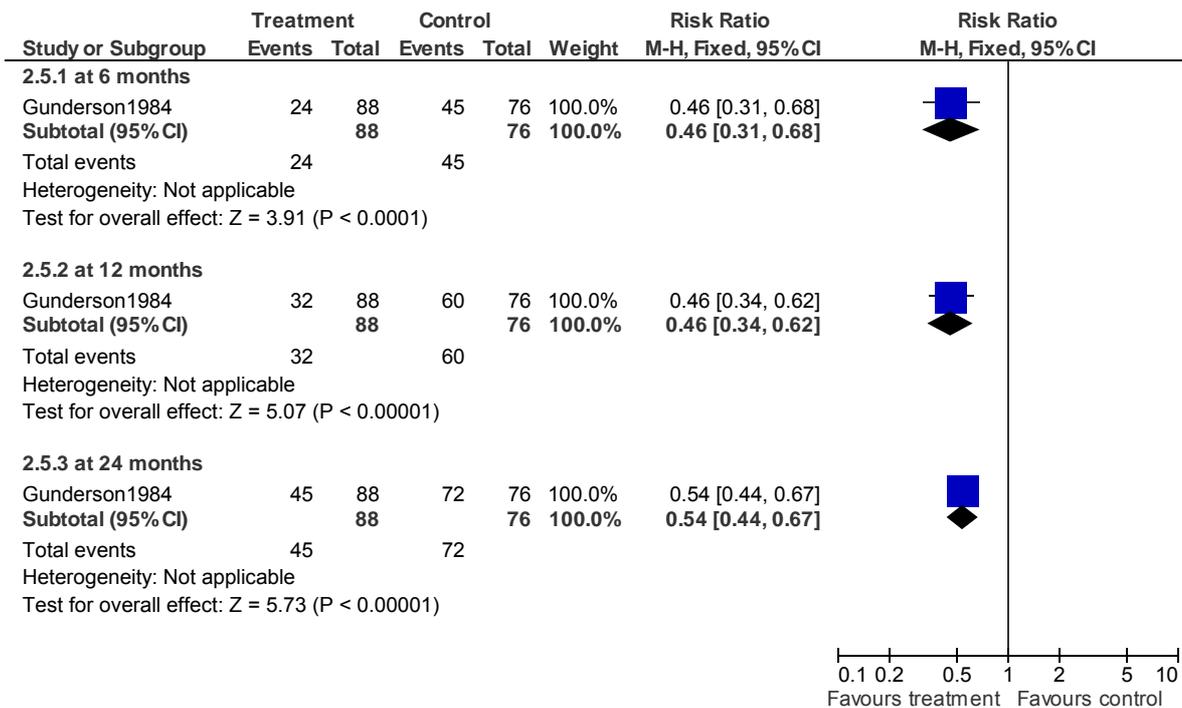


Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

2.4 Global state: 4. Not self supporting



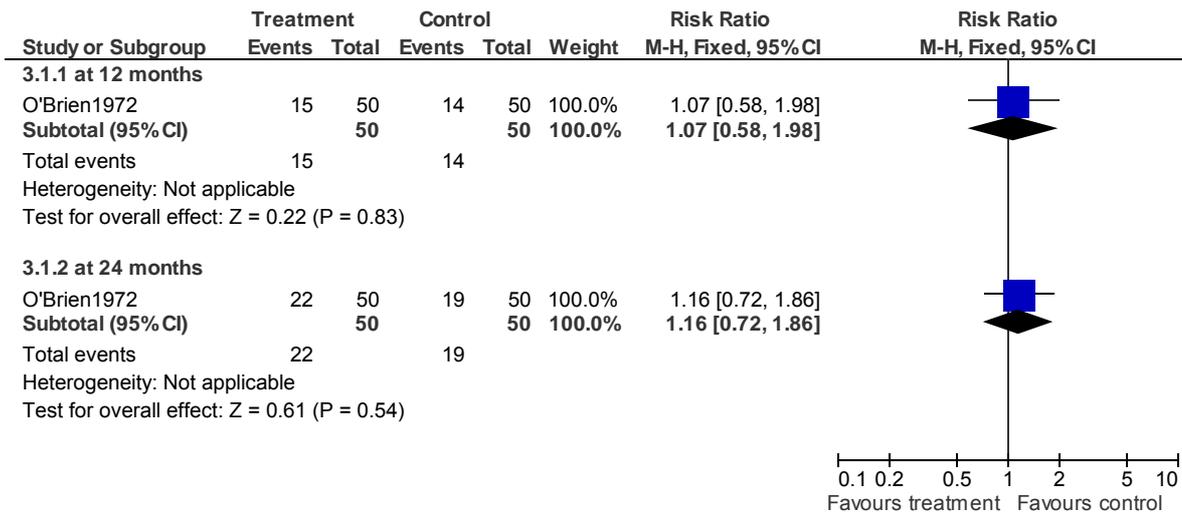
2.5 Leaving the study early



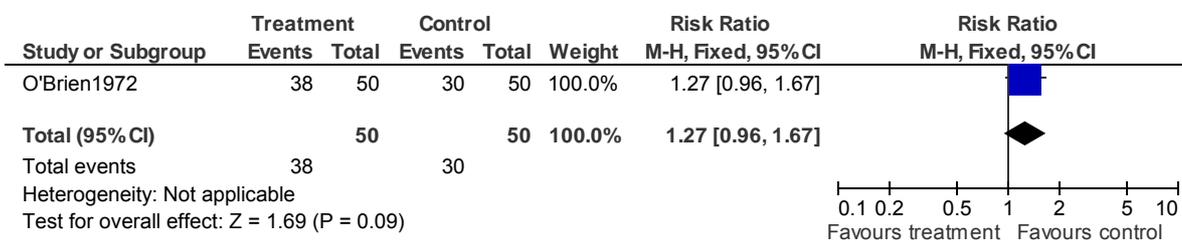
3 Individual versus group psychodynamic and psychoanalytic therapies

Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

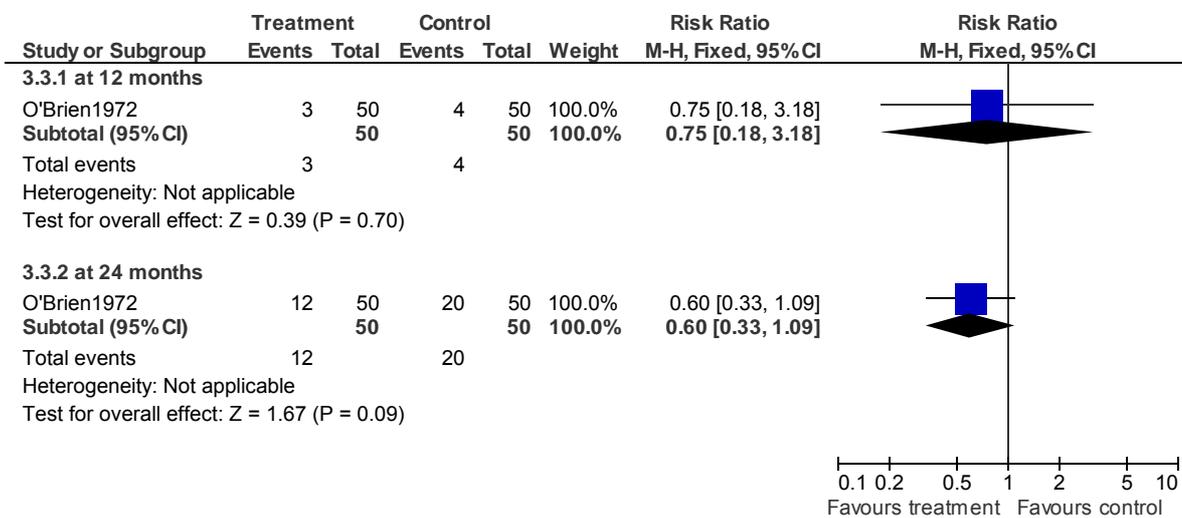
3.1 Global state: 1. Returned to hospital



3.2 Global state: 2. Not improved at 24 months



3.3 Global state: 3. Discharged from therapy



Psychological clinical evidence: Psychodynamic and psychoanalytic therapies

3.4 Global state: 4. Remaining in therapy

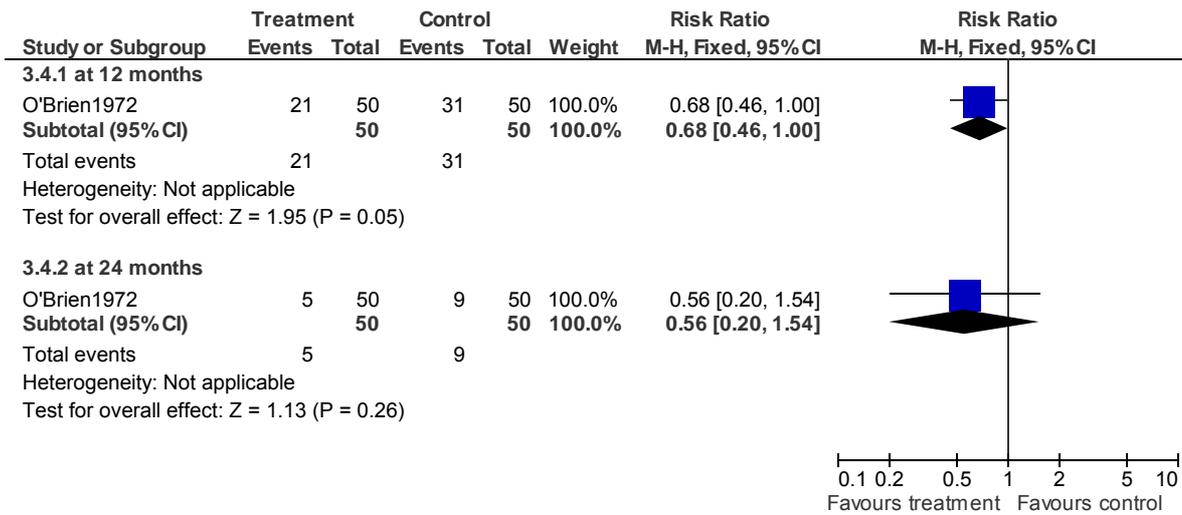


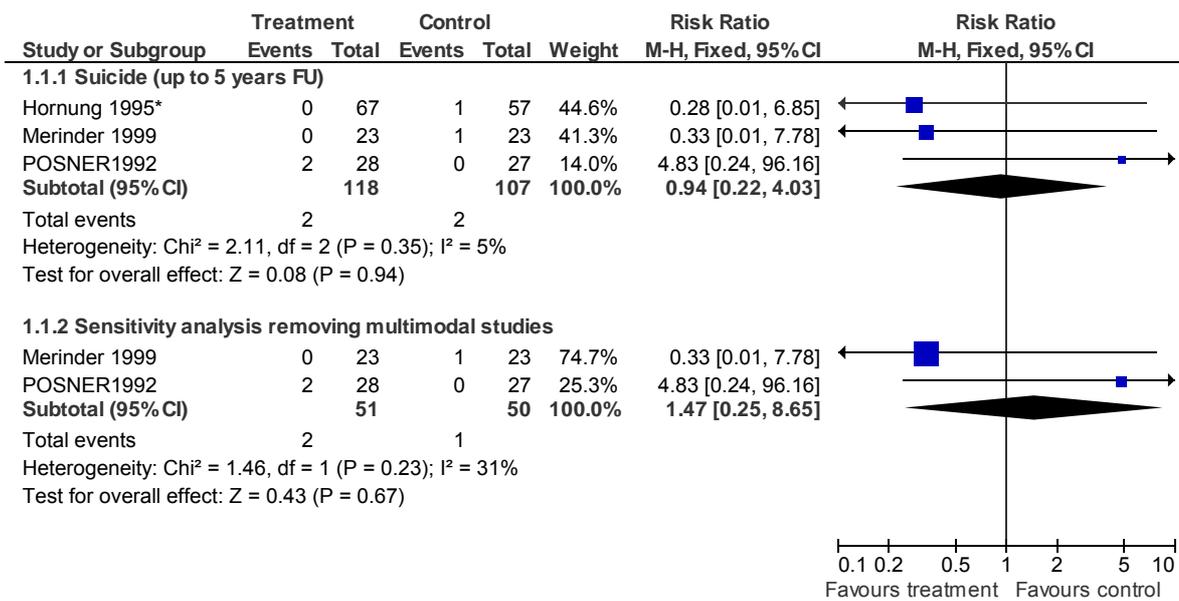
Table 8: Studies included in the psychoeducation review

Intervention	versus Comparator
	Any control
Psychoeducation	Atkinson1996 Bauml1996 BECHDOLF2004 CATHER2005 CHABANNES2008 CHAN2007A CunninghamOwens2001 Hayashi2001 Hornung1995 * Lecompte1996 Macpherson1996 Merinder1999 Posner1992 SHIN2002 VREELAND2006 XIANG2006
	Standard care
Psychoeducation	Atkinson1996 Bauml1996 CHABANNES2008 CunninghamOwens2001 Hayashi2001 Macpherson1996 Posner1992 VREELAND2006
	Other active treatments
Psychoeducation	BECHDOLF2004 CATHER2005 CHAN2007A Hornung1995 Lecompte1996 Merinder1999 SHIN2002 XIANG2006

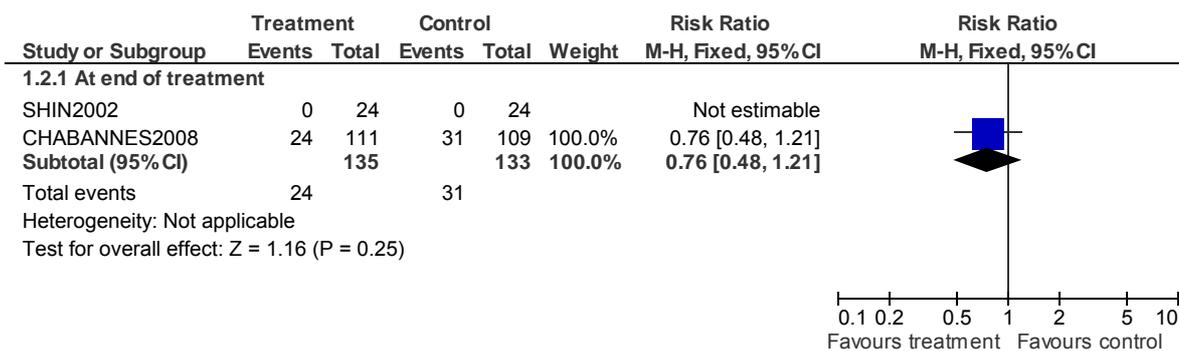
Psychological clinical evidence: Psychoeducation

1 Psychoeducation versus any control

1.1 Mortality (at FU)

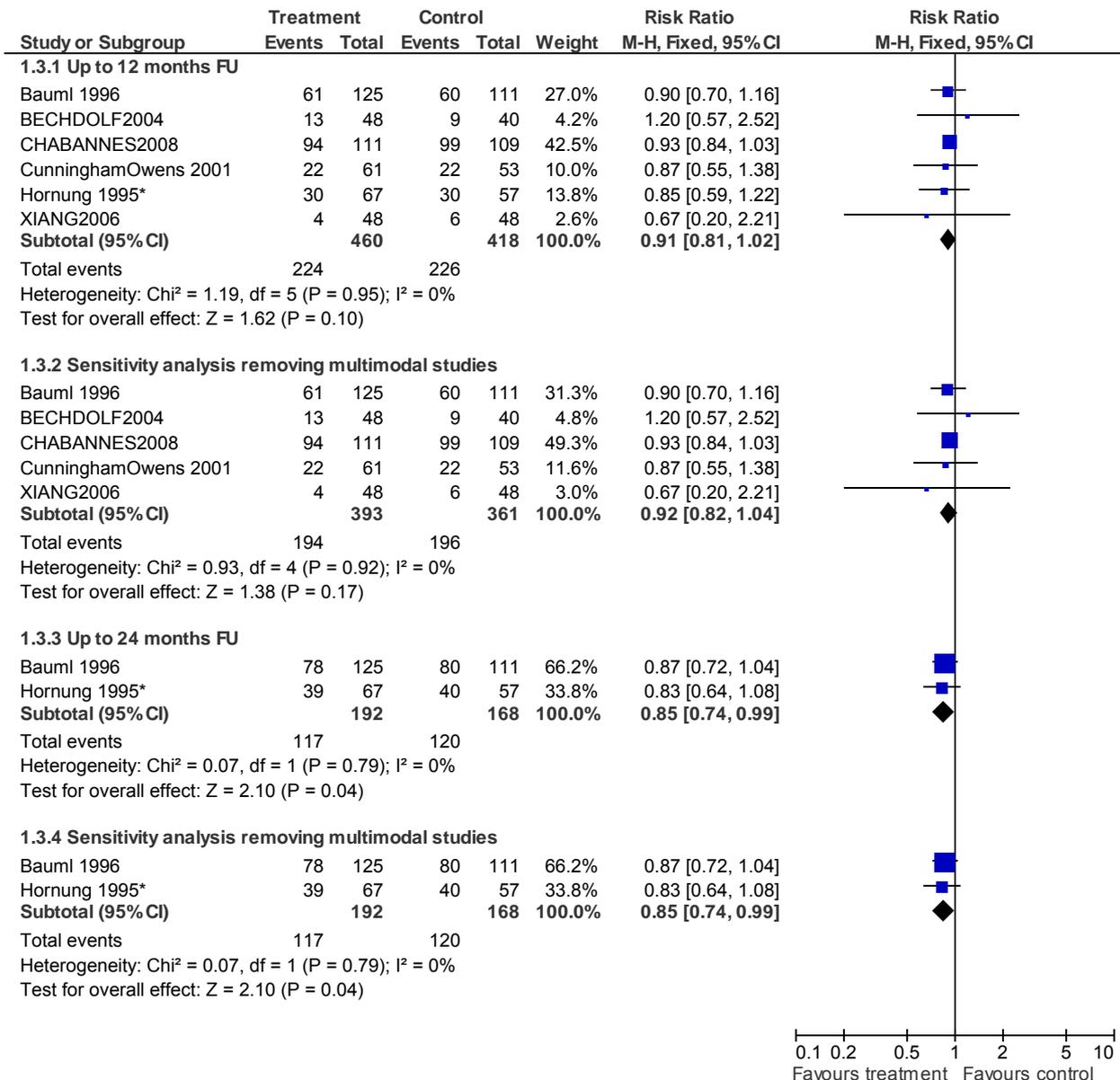


1.2 Service outcome: 1. Rehospitalisation (at end of treatment)



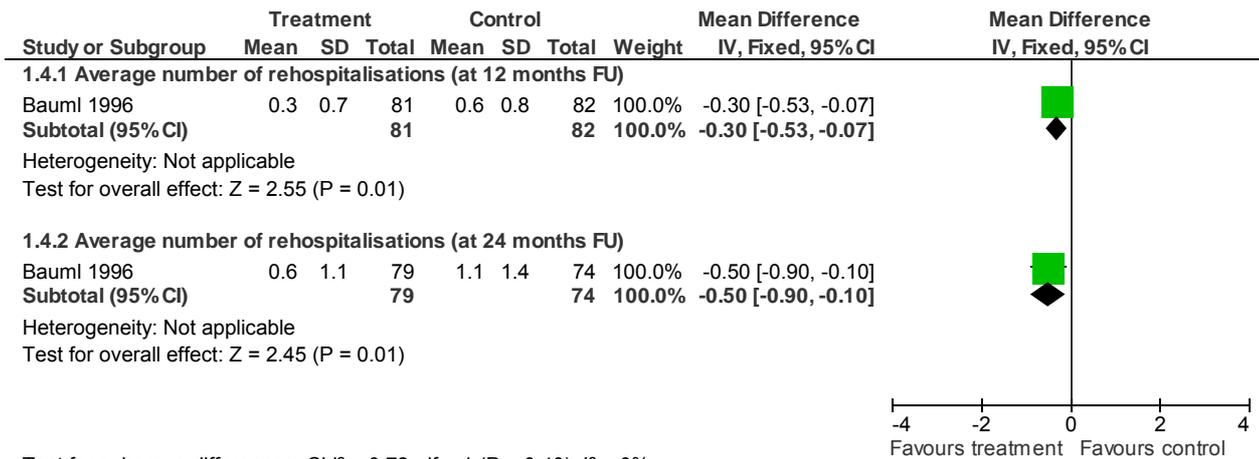
Psychological clinical evidence: Psychoeducation

1.3 Service Outcome: 1. Rehospitalisation (at FU)

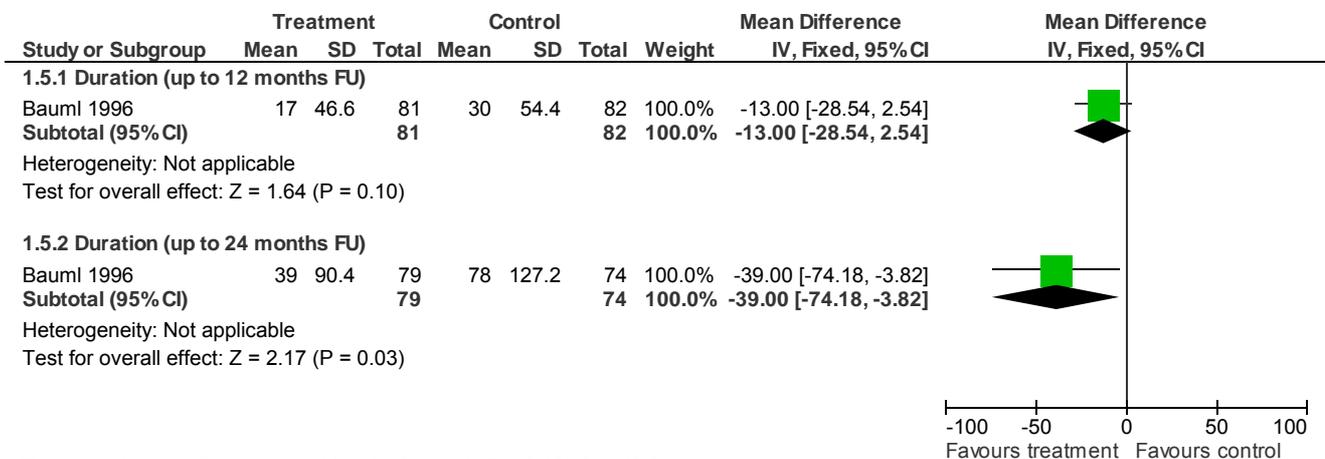


Psychological clinical evidence: Psychoeducation

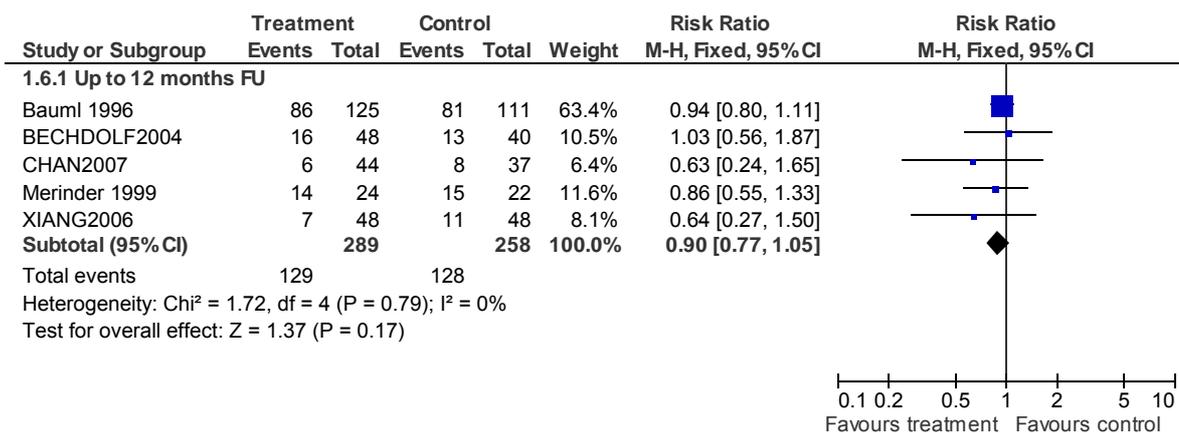
1.4 Service outcome: 2. Number of rehospitalisations (at FU)



1.5 Service outcome: 3. Duration of hospitalisation

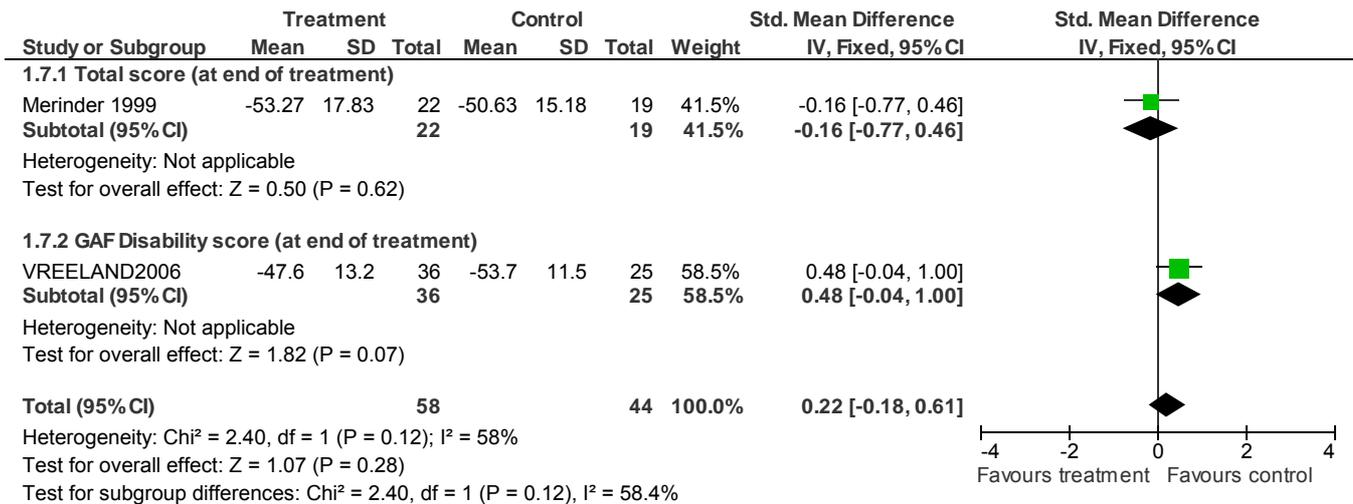


1.6 Global state: 1. Relapse (at FU)

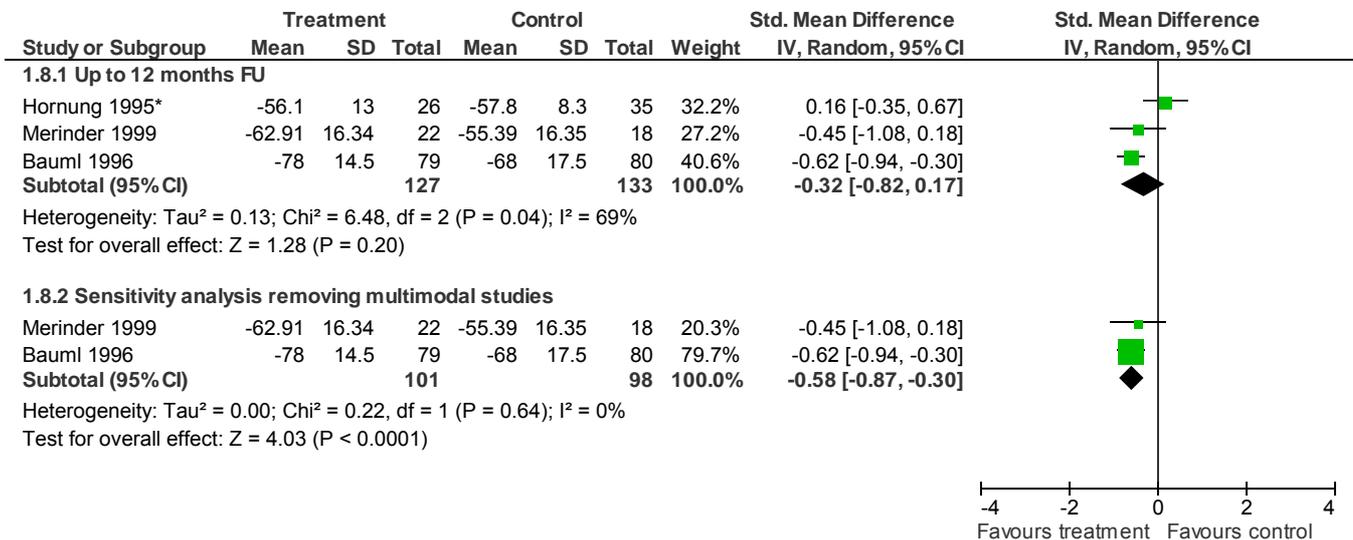


Psychological clinical evidence: Psychoeducation

1.7 Global state: 2. Continuous measures - GAF, GAS (signs reversed) (at end of treatment)

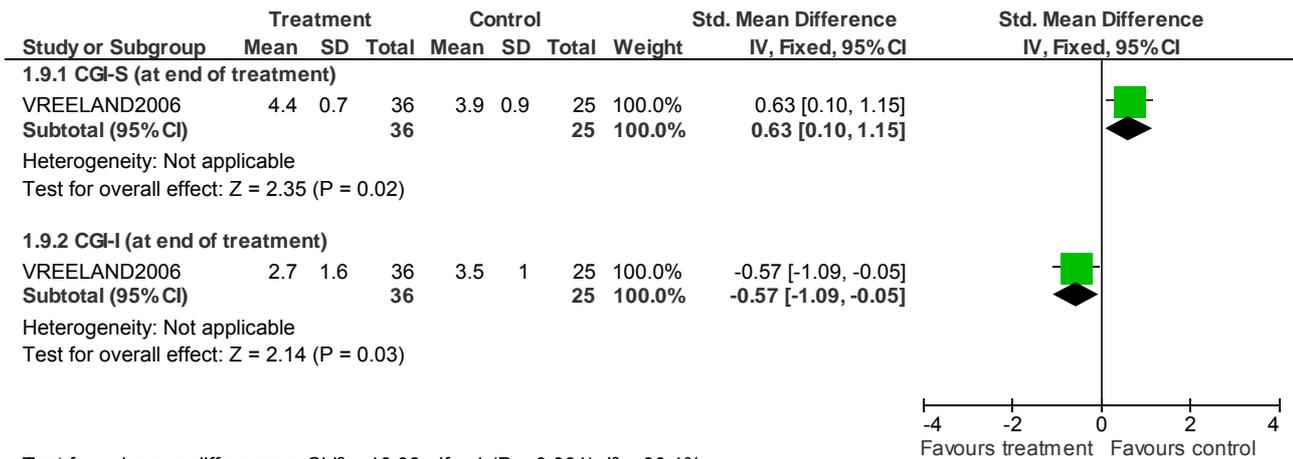


1.8 Global state: 2. Continuous measures - GAF (signs reversed) (at FU)

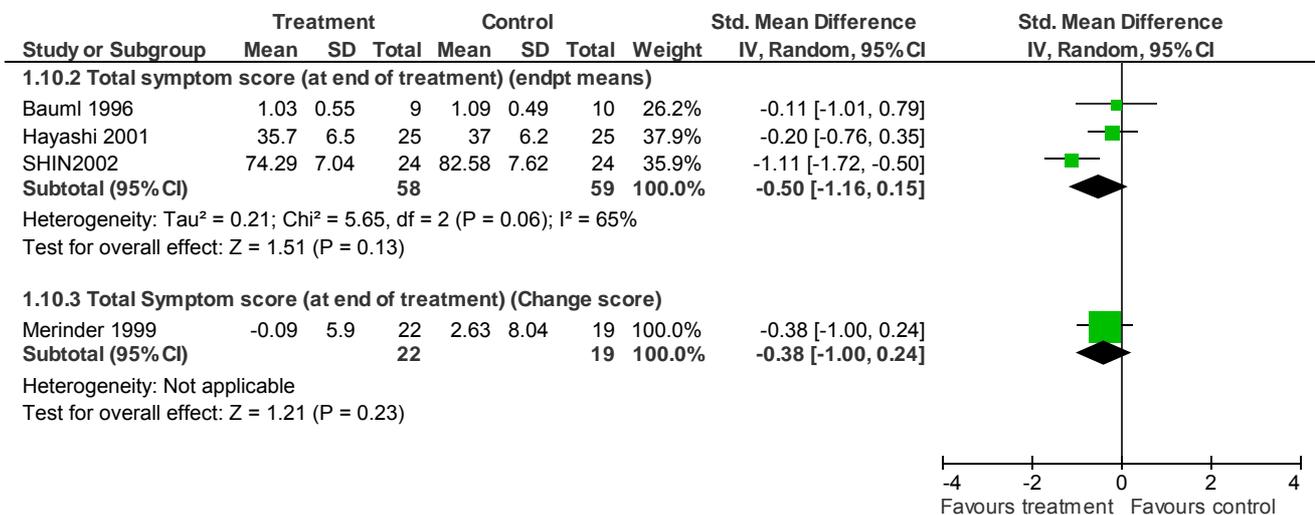


Psychological clinical evidence: Psychoeducation

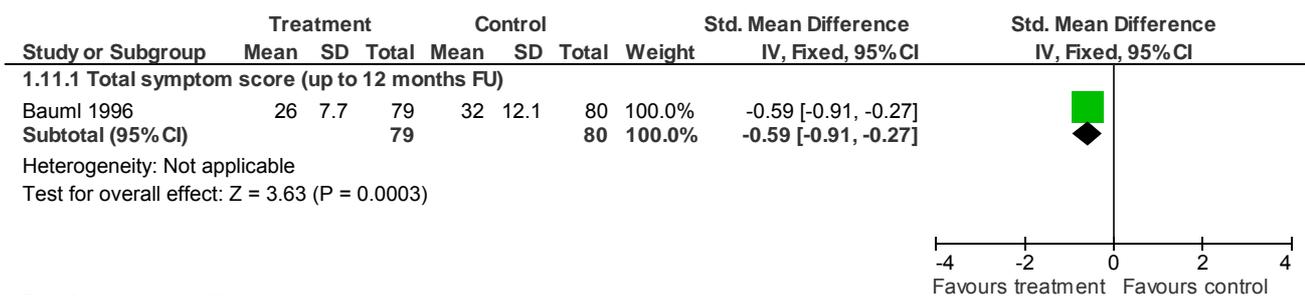
1.9 Global state: 3. CGI scores (at end of treatment)



1.10 Mental state: 1. Continuous measures - Total symptom score, BPRS, PANSS (lower = better) (at end of treatment)

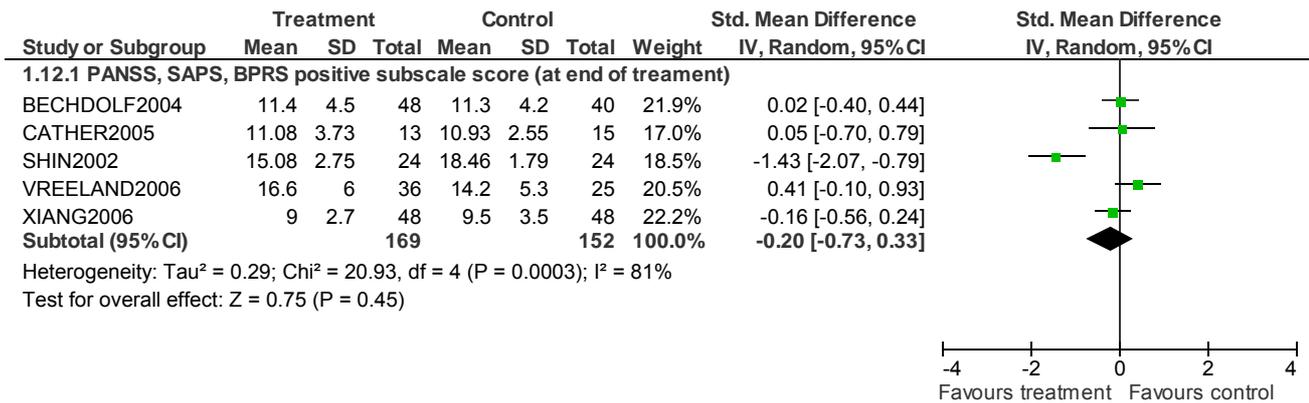


1.11 Mental state: 1. Continuous measures - Total symptom score, BPRS, PANSS (lower = better) (at FU)

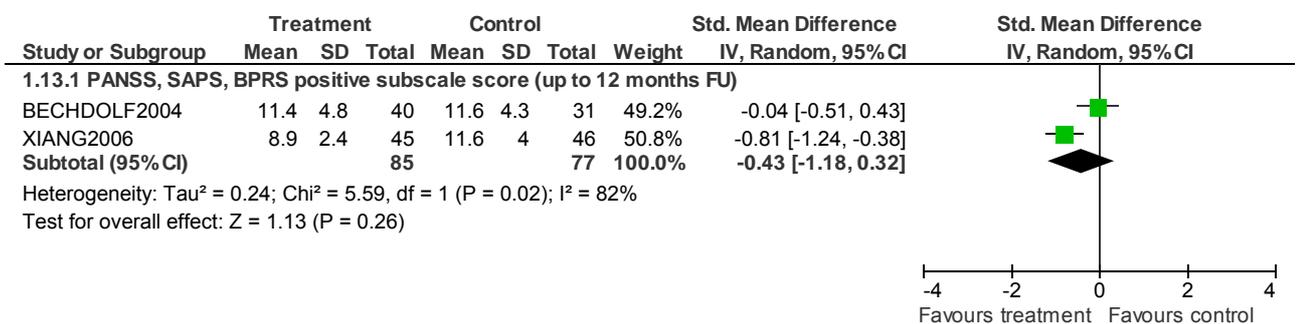


Psychological clinical evidence: Psychoeducation

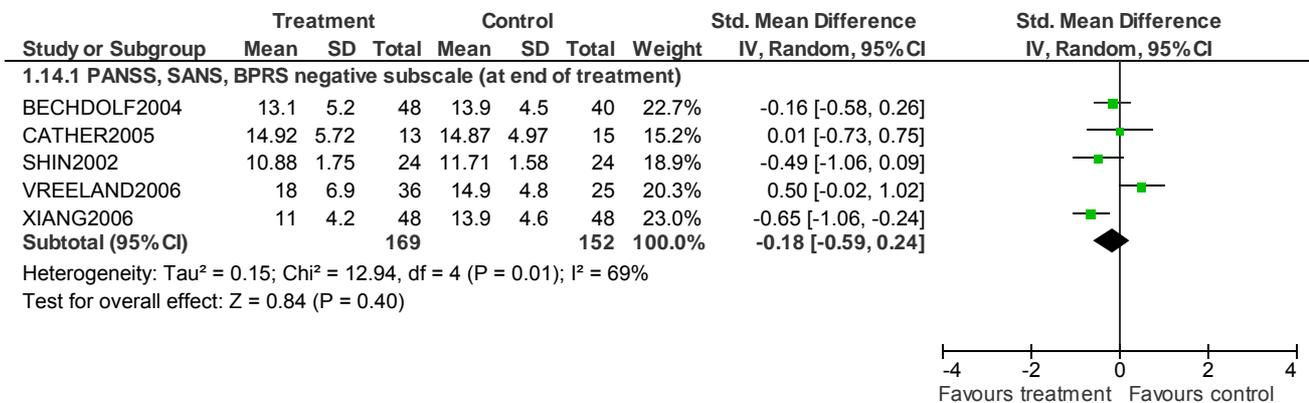
1.12 Mental state: 2. Continuous measures - positive symptom score (PANSS, SAPS) (at end of treatment)



1.13 Mental state: 2. Continuous measures - positive symptom score (PANSS, SAPS) (at FU)

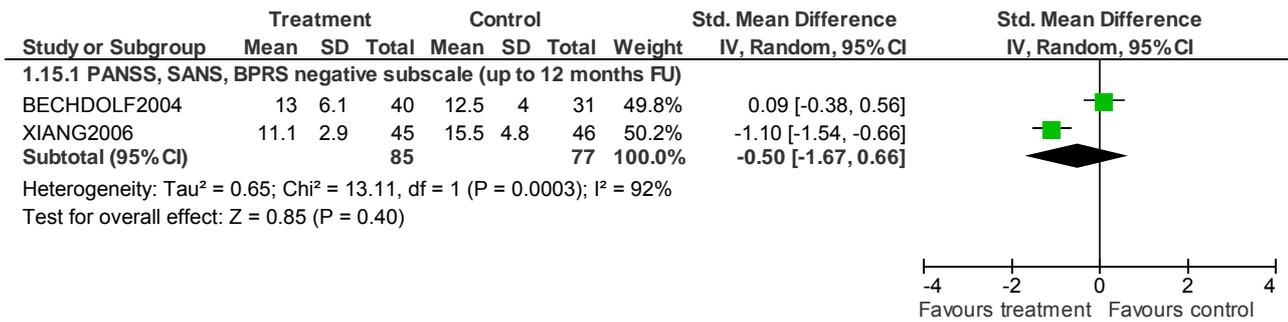


1.14 Mental state: 3. Continuous measures - negative symptom score (PANSS, SANS) (at end of treatment)

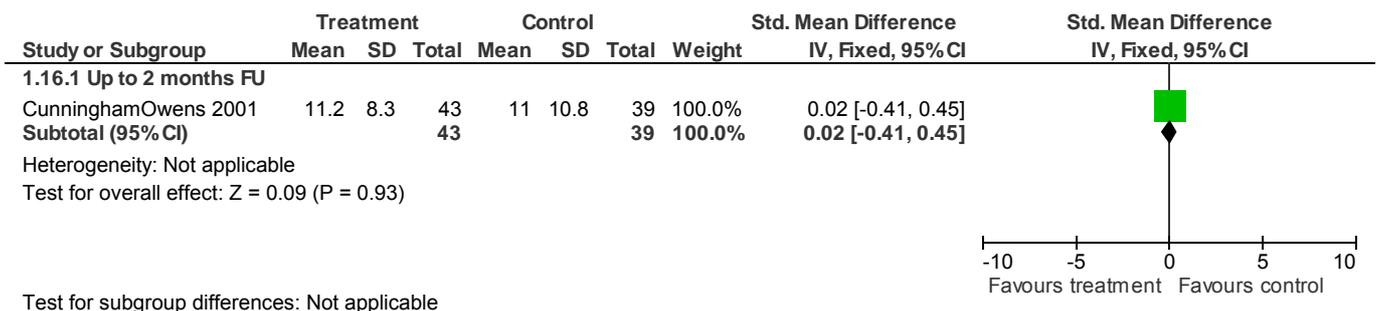


Psychological clinical evidence: Psychoeducation

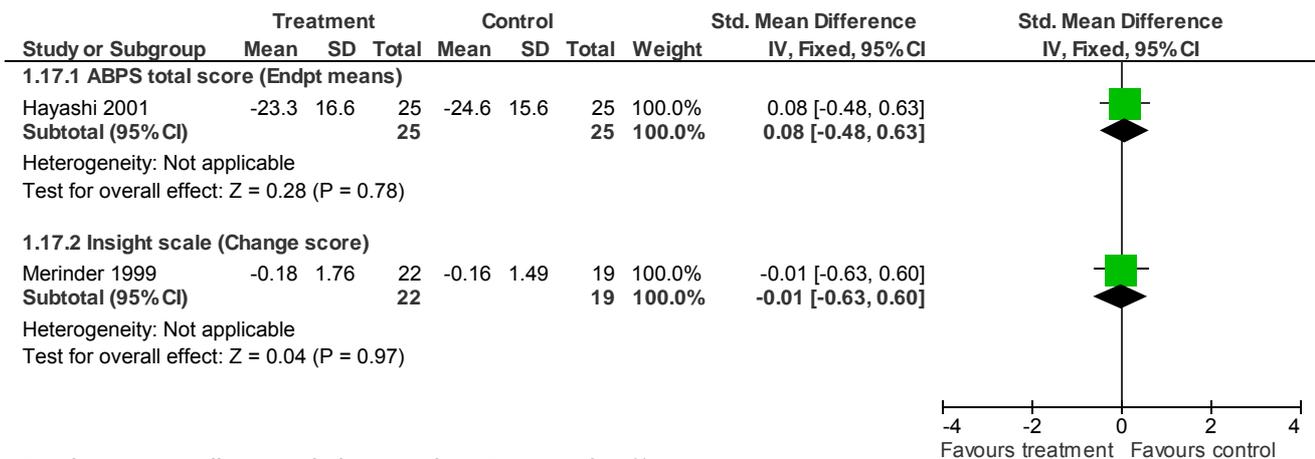
1.15 Mental state: 3. Continuous measures - negative symptom score (PANSS, SANS) (at FU)



1.16 Mental state: 4. Depression (MADRS) (at FU)

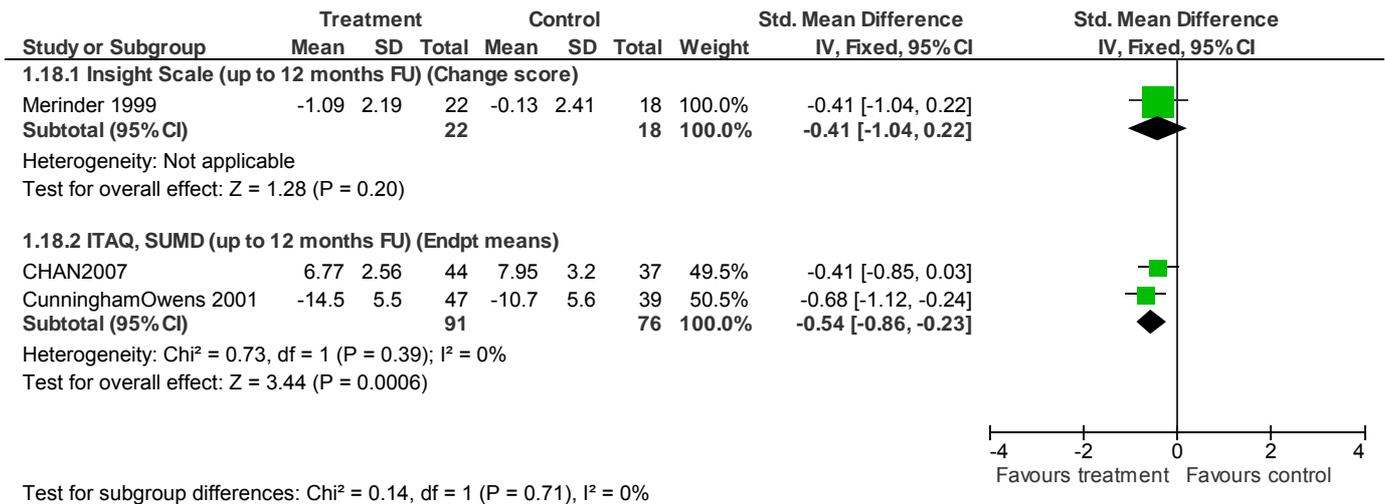


1.17 Insight: 1. Total score (IS, ABPS) (signs reversed) (at end of treatment)

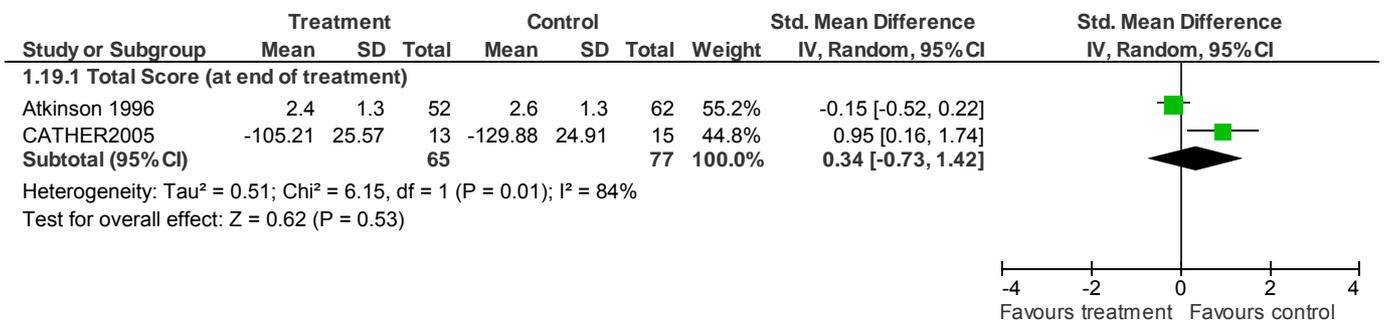


Psychological clinical evidence: Psychoeducation

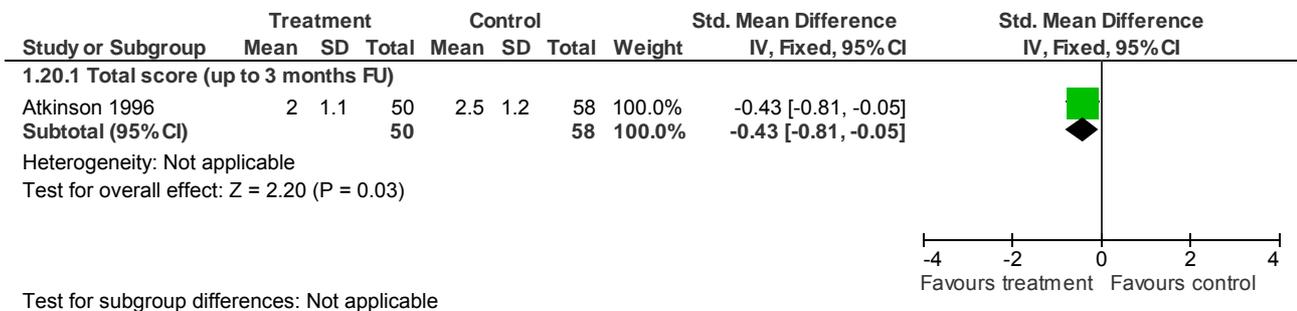
1.18 Insight: 1. Total scores (IS, ITAQ, SUMD) (signs reversed) (at FU)



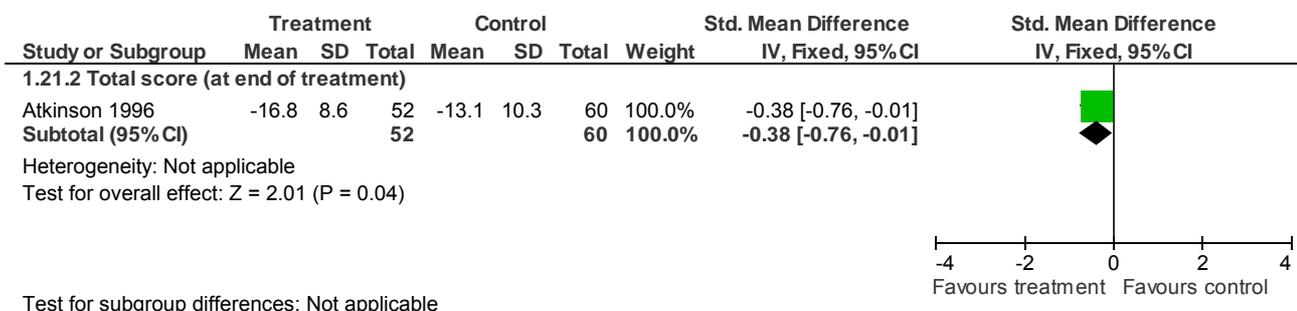
1.19 Psychosocial functioning: 1. Social Functioning Schedule (SFS, lower = better) (at end of treatment)



1.20 Psychosocial functioning: 1. Social Functioning Scale (lower = better) (at FU)

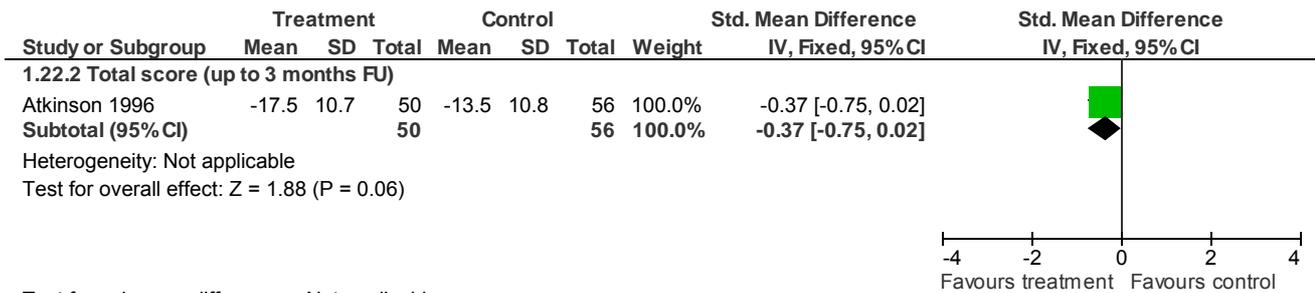


1.21 Psychosocial functioning: 2. Modified Social Network Schedule (SNS) - mean no. Total contacts (at end of treat)

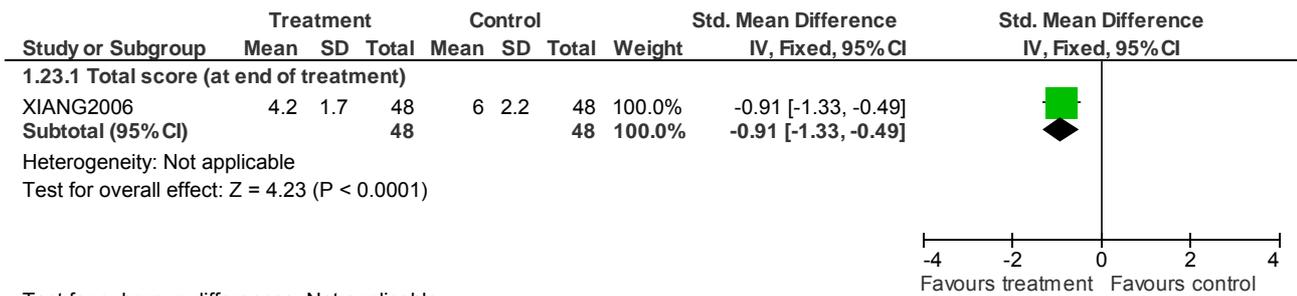


Psychological clinical evidence: Psychoeducation

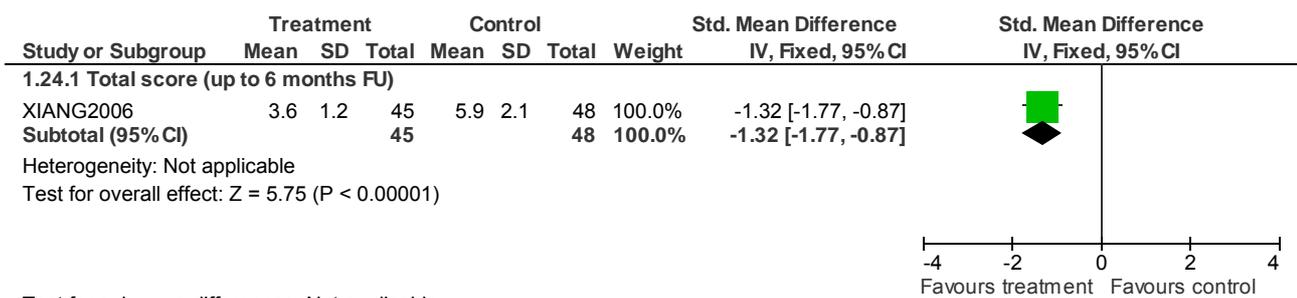
1.22 Psychosocial functioning: 2. Modified Social Network Schedule (SNS) - mean no. Total contacts (at FU)



1.23 Psychosocial functioning: 3. Social disability Screening Schedule (at end of treatment)

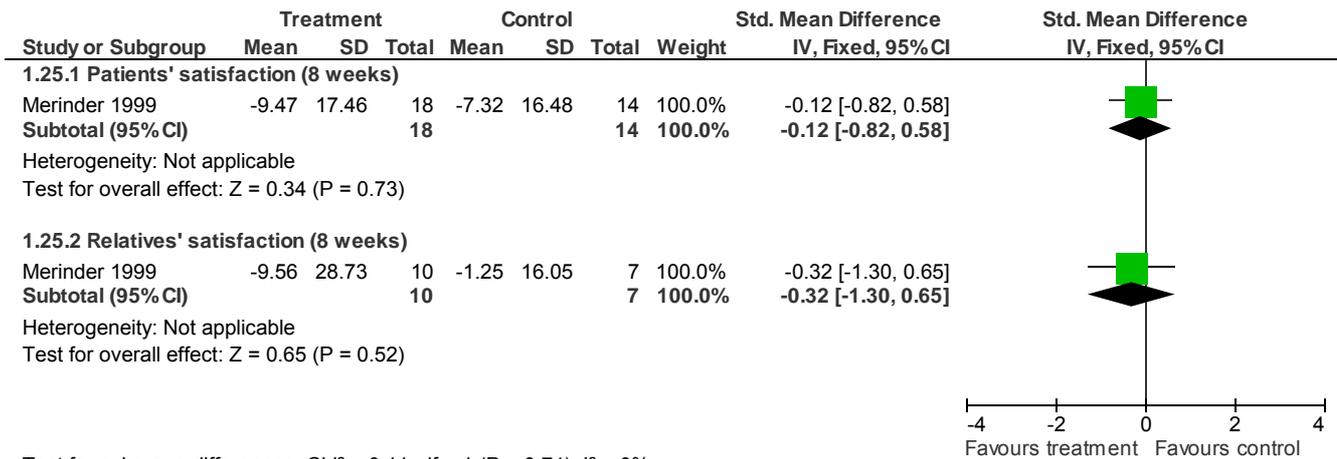


1.24 Psychosocial functioning: 3. Social disability Screening Schedule (at FU)

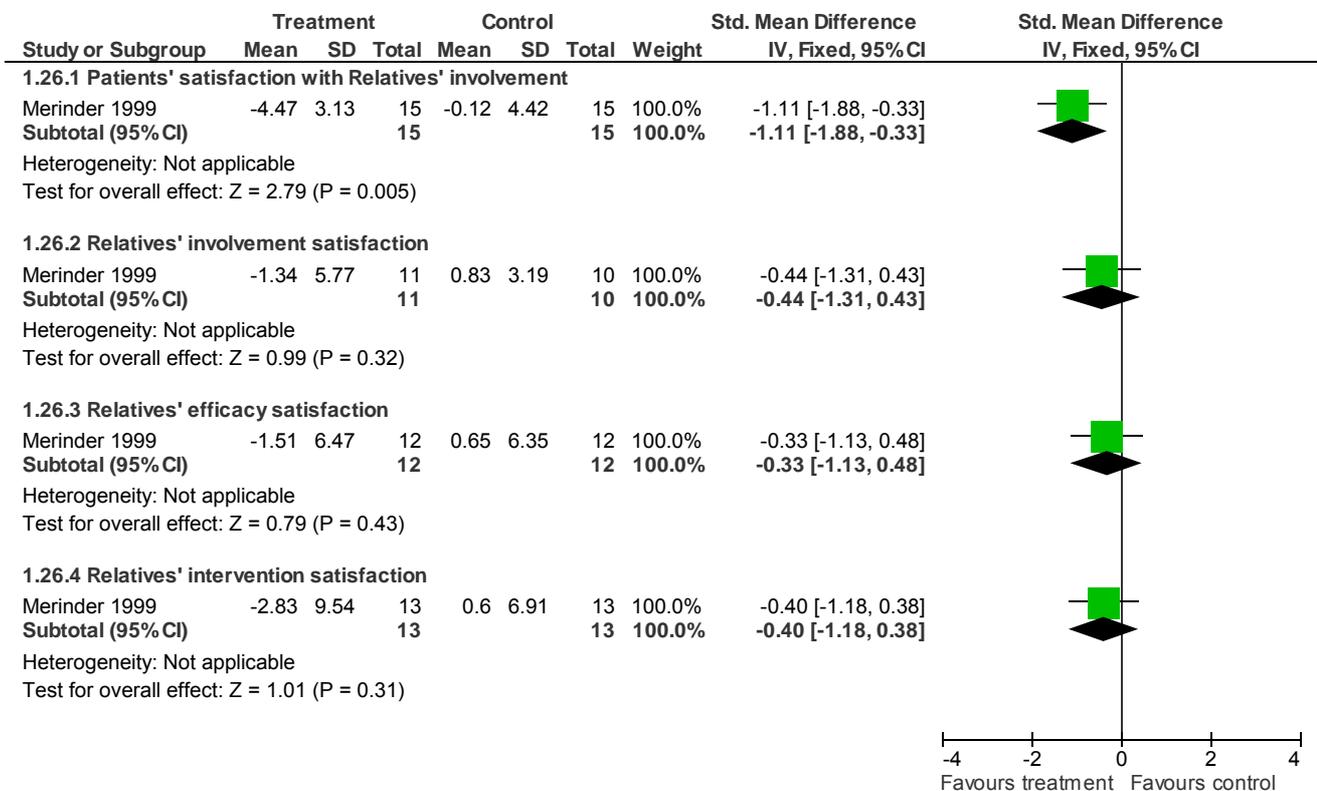


Psychological clinical evidence: Psychoeducation

1.25 Satisfaction with mental health services: (VSS) (signs reversed) - at end of interventions (change score)

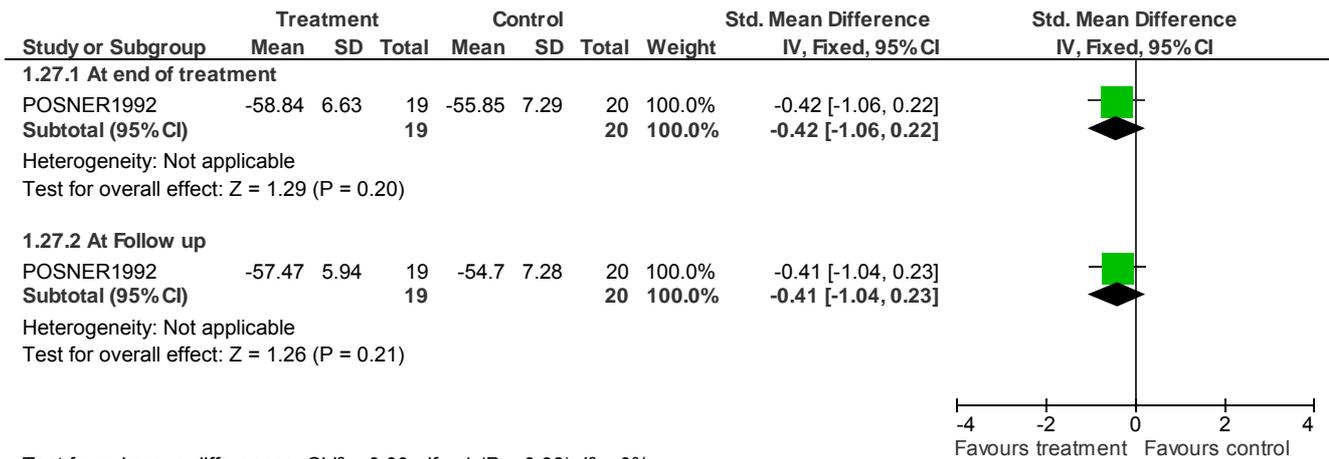


1.26 Satisfaction with mental health services: (VSS) (signs reversed) - up to 12 months FU (change score)

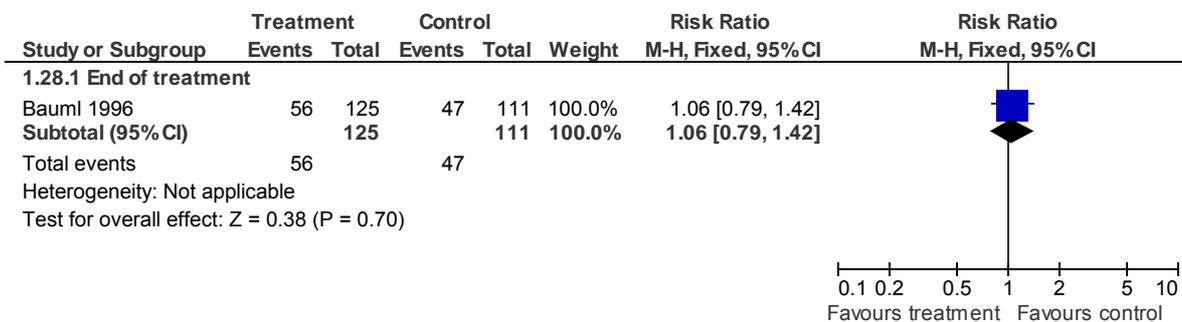


Psychological clinical evidence: Psychoeducation

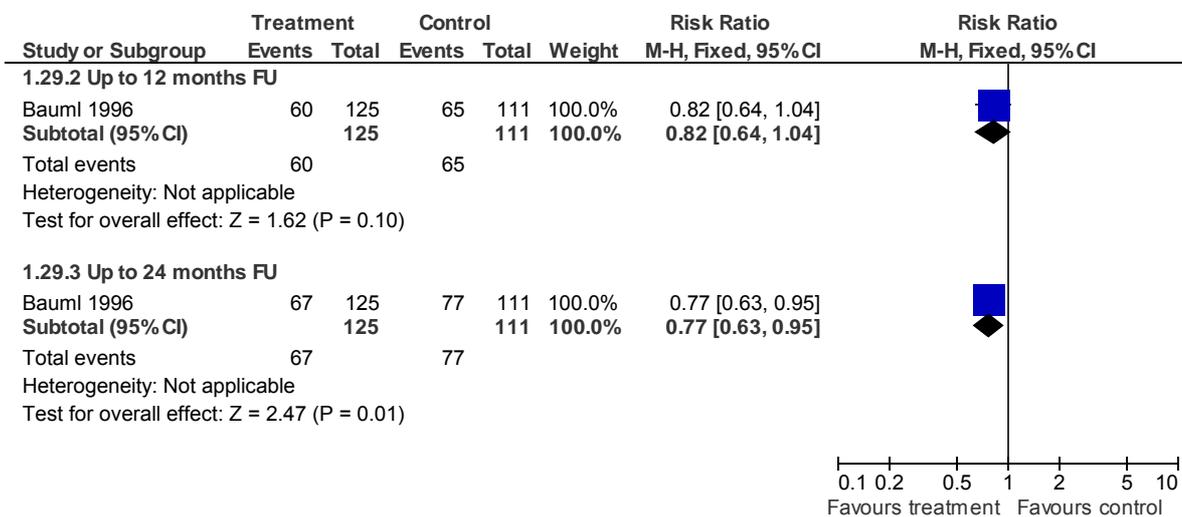
1.27 Satisfaction with mental health services: 2. Consumer satisfaction scale (relatives only)



1.28 Adherence: 1. Non-adherence/ poor adherence to medication (end of treatment)

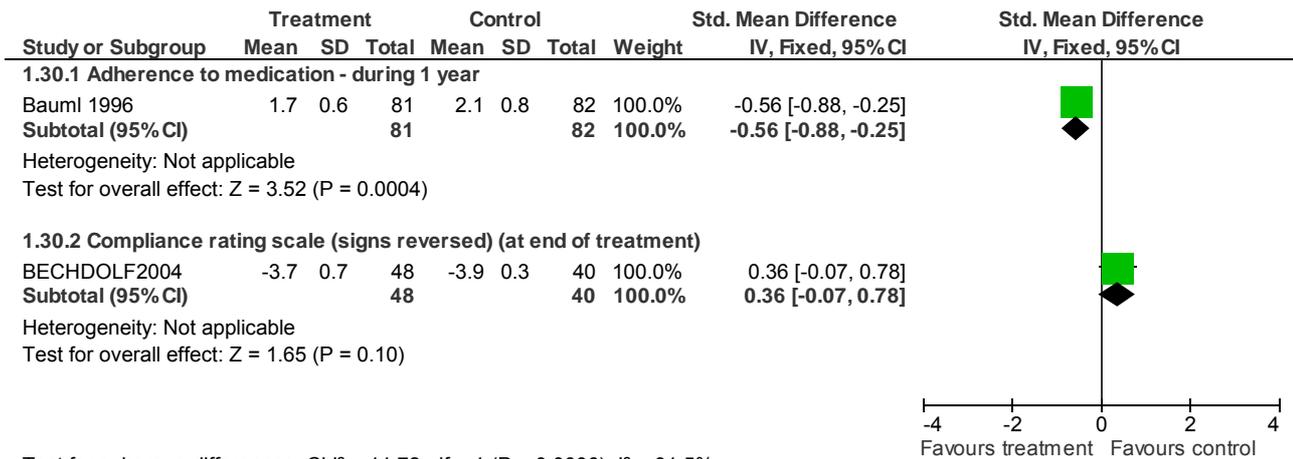


1.29 Adherence: 1. Non-adherence/ poor adherence to medication (at FU)

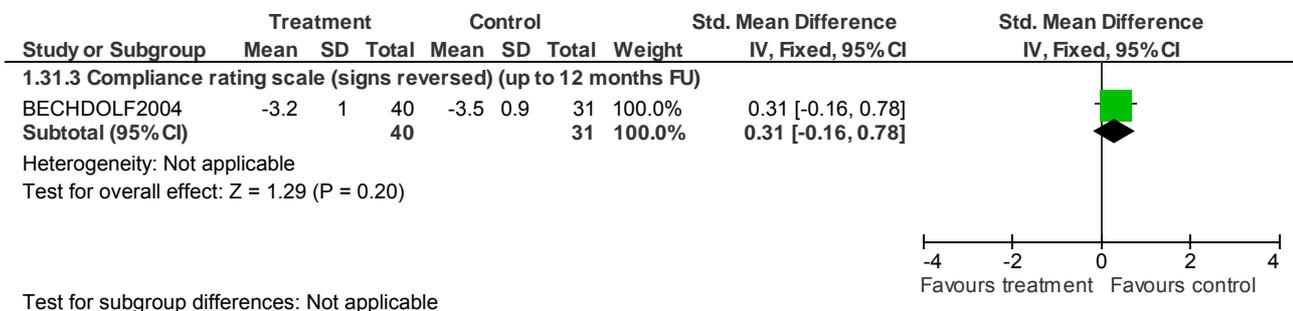


Psychological clinical evidence: Psychoeducation

1.30 Adherence to medication 2. Continuous measures (at end of treatment)

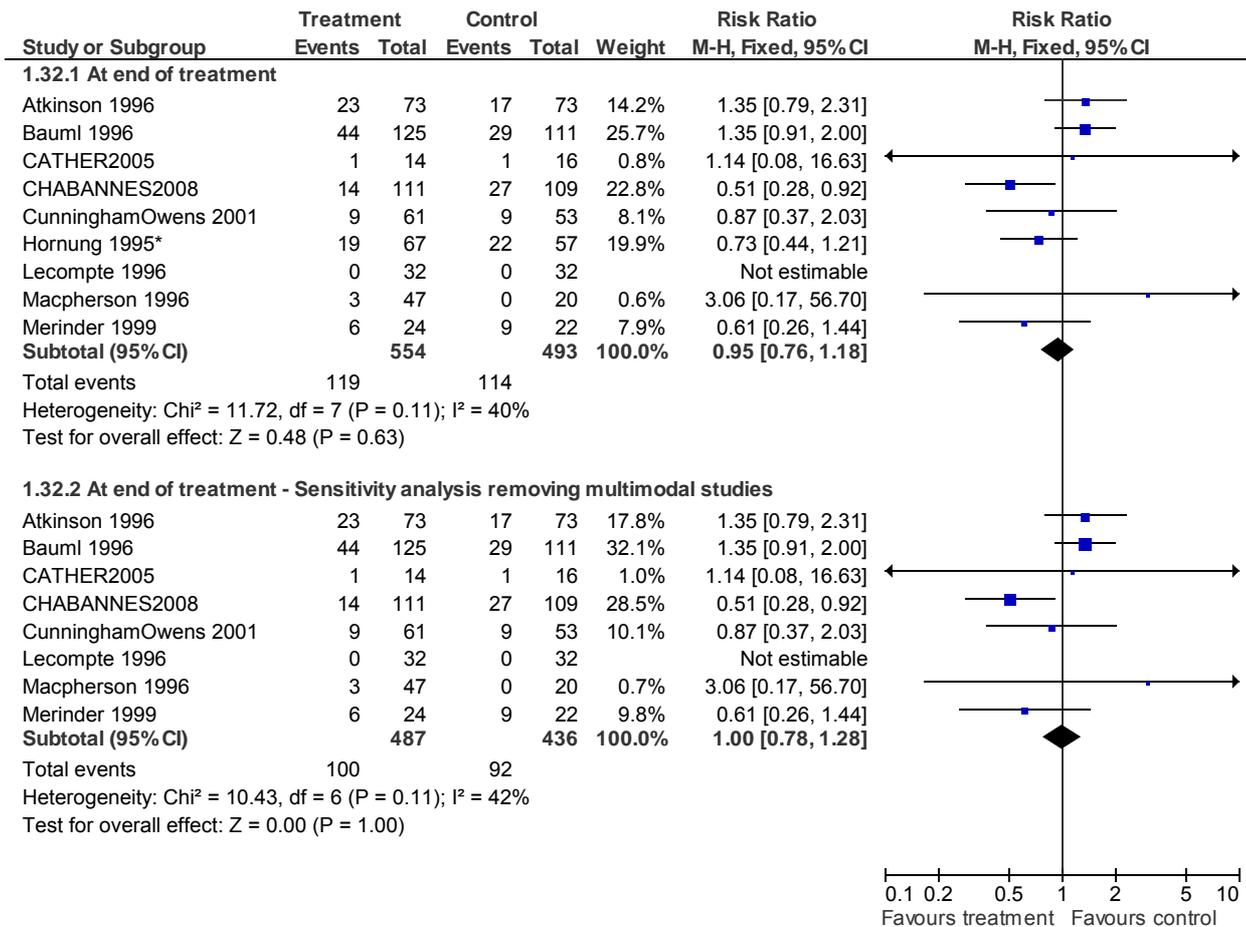


1.31 Adherence to medication 2. Continuous measures (at FU)



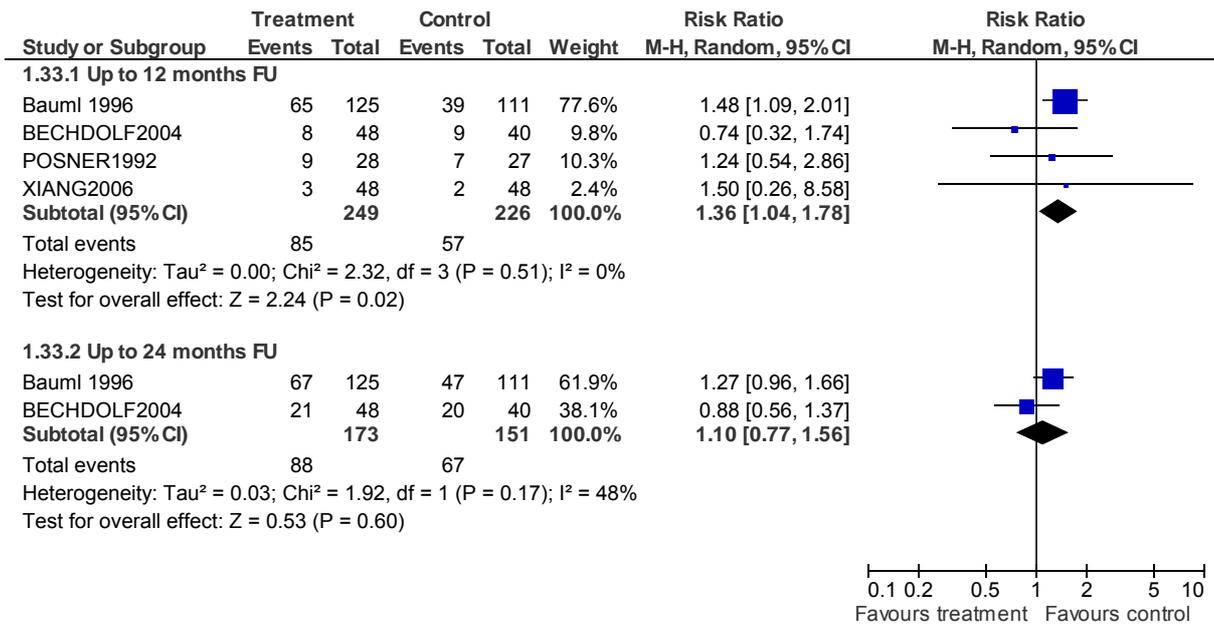
Psychological clinical evidence: Psychoeducation

1.32 Leaving the study early (at end of treatment)



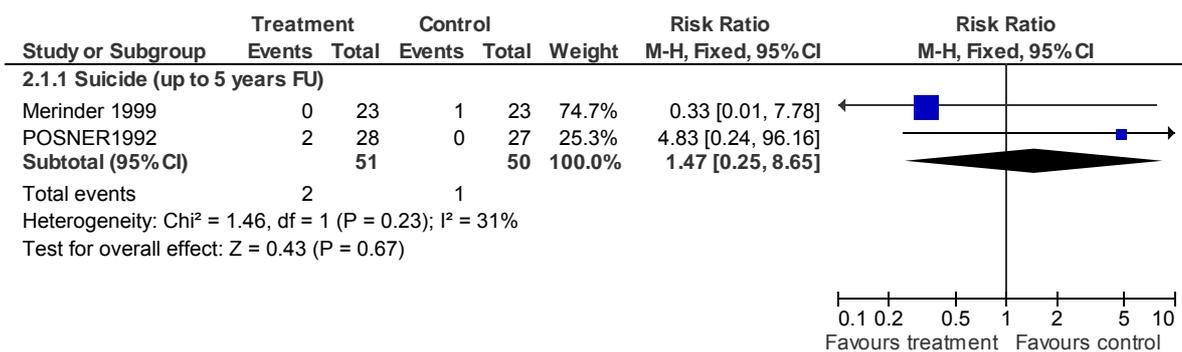
Psychological clinical evidence: Psychoeducation

1.33 Leaving the study early (at FU)

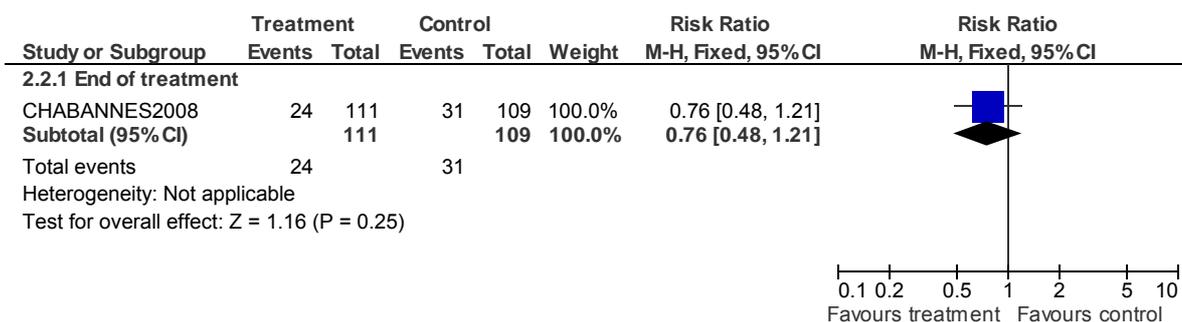


2 Psychoeducation versus standard care

2.1 Mortality (at FU)

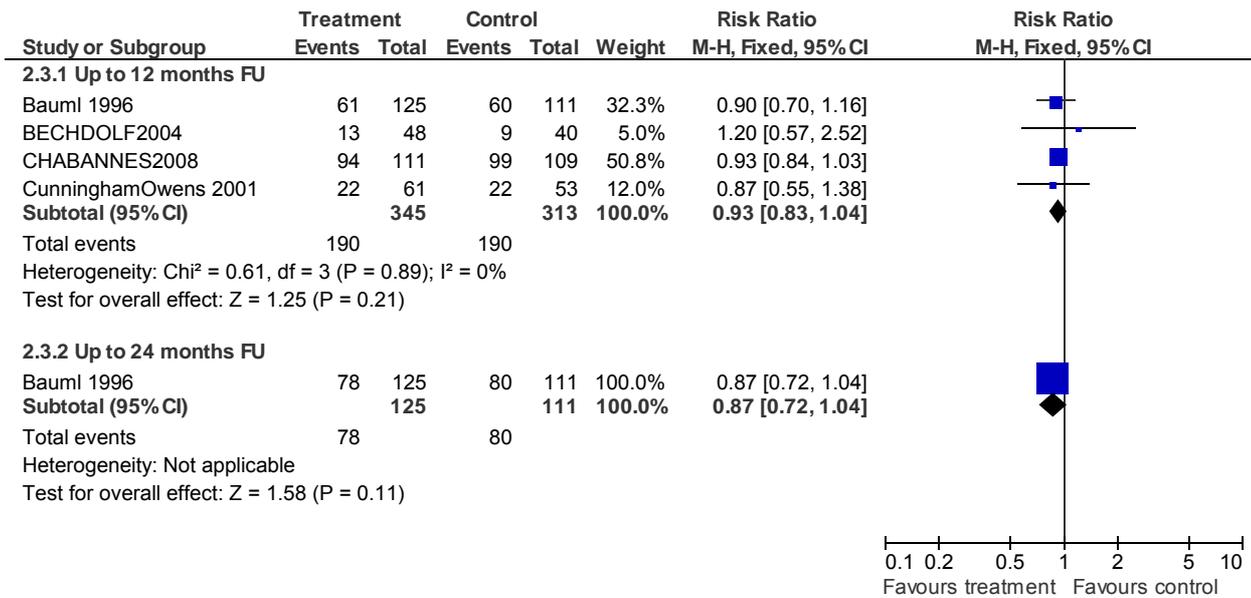


2.2 Service outcome: 1. Rehospitalisation (at end of treatment)

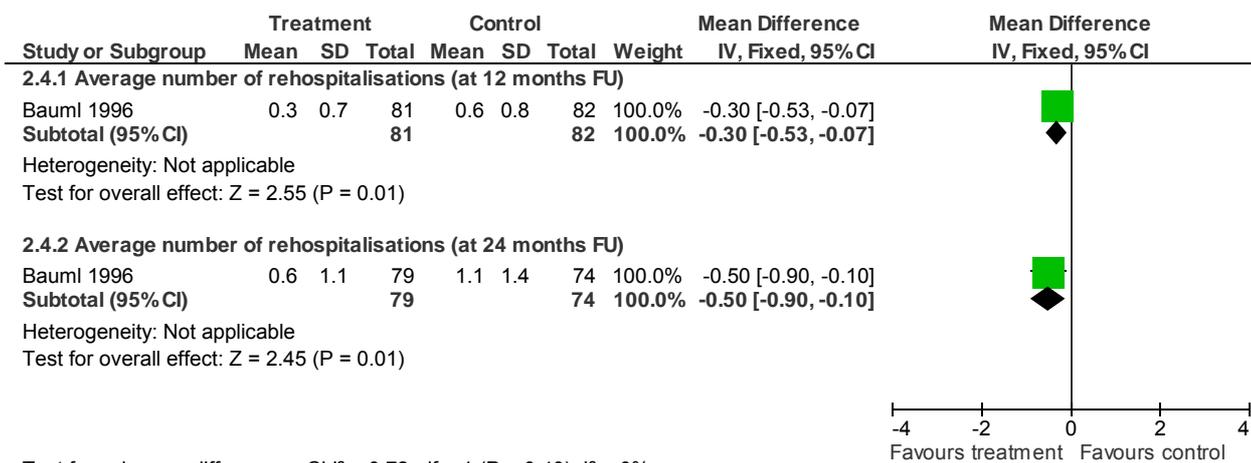


Psychological clinical evidence: Psychoeducation

2.3 Service Outcome: 1. Rehospitalisation (at FU)



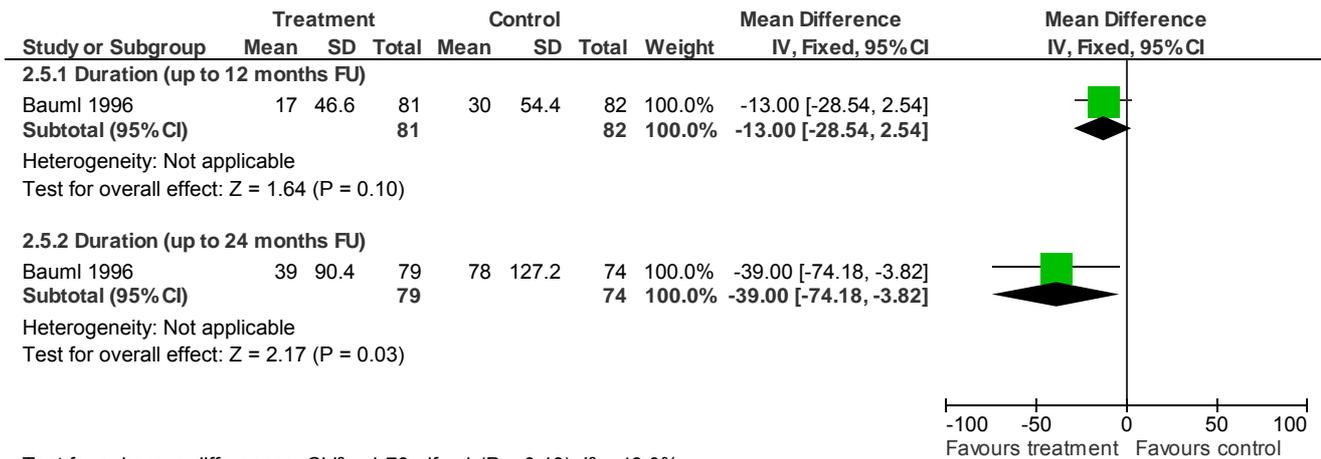
2.4 Service outcome: 2. Number of rehospitalisations (at FU)



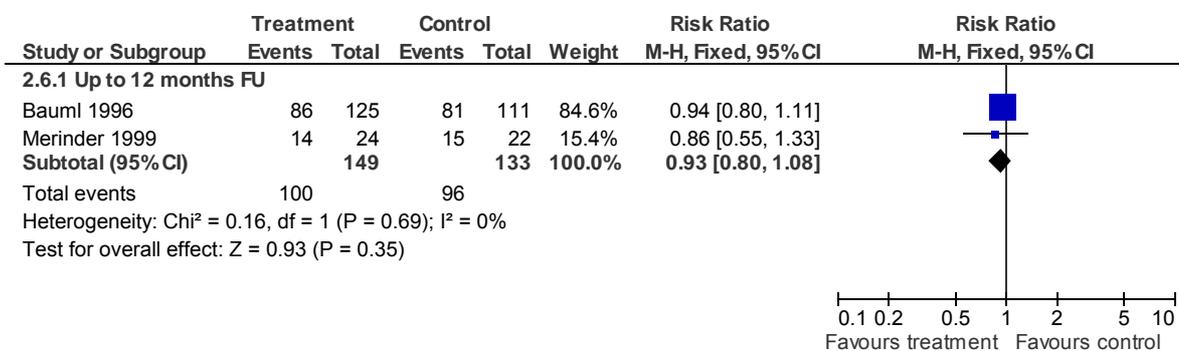
Test for subgroup differences: Chi² = 0.72, df = 1 (P = 0.40), I² = 0%

Psychological clinical evidence: Psychoeducation

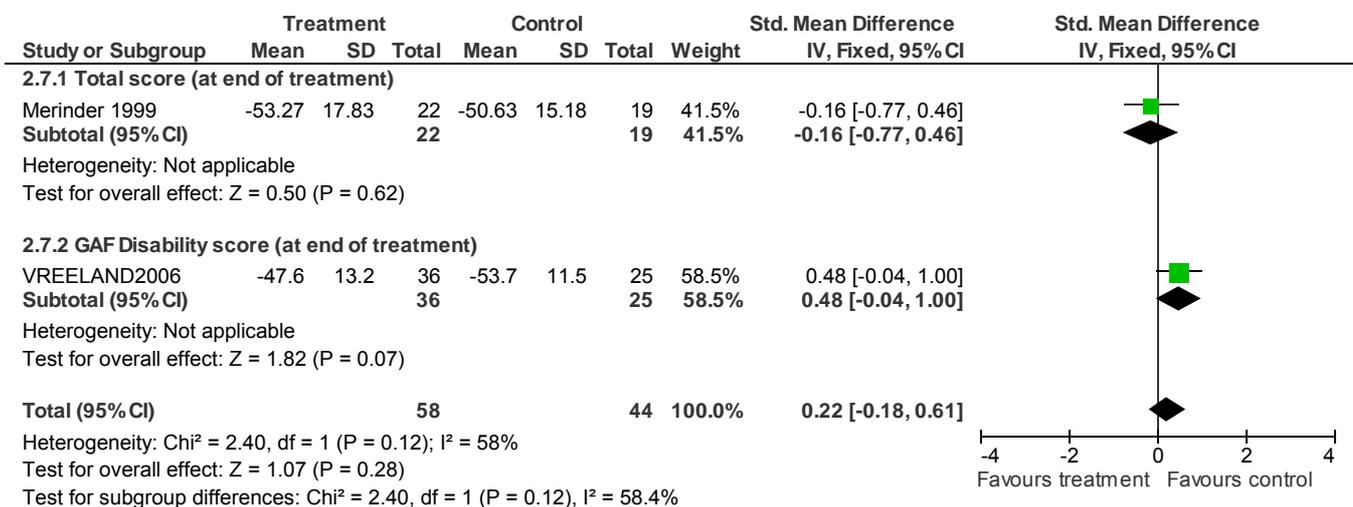
2.5 Service outcome: 3. Duration of hospitalisation



2.6 Global state: 1. Relapse (at FU)

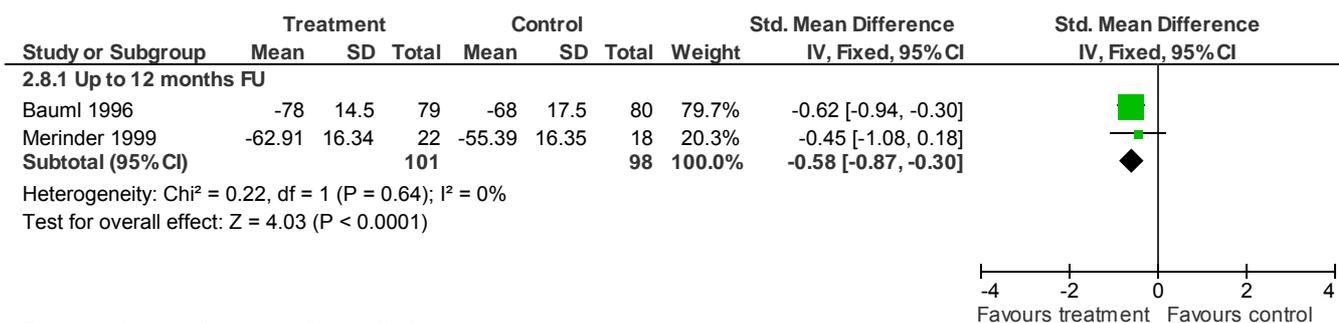


2.7 Global state: 2. Continuous measures - GAF, GAS (signs reversed) (at end of treatment)



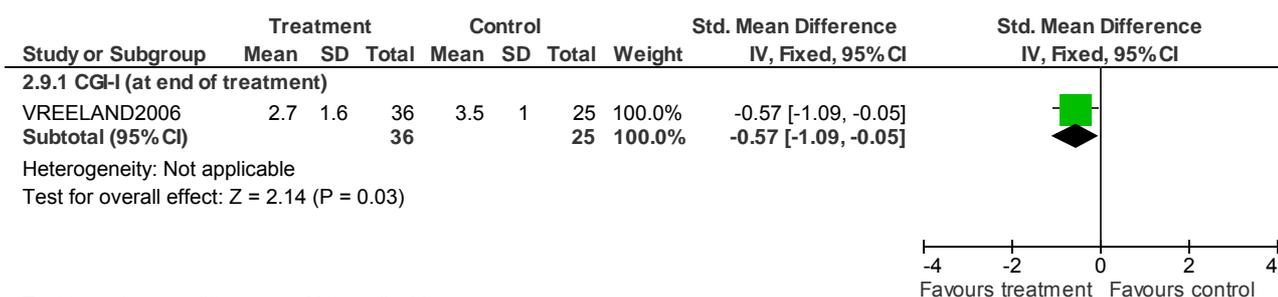
Psychological clinical evidence: Psychoeducation

2.8 Global state: 2. Continuous measures - GAF (signs reversed) (at FU)



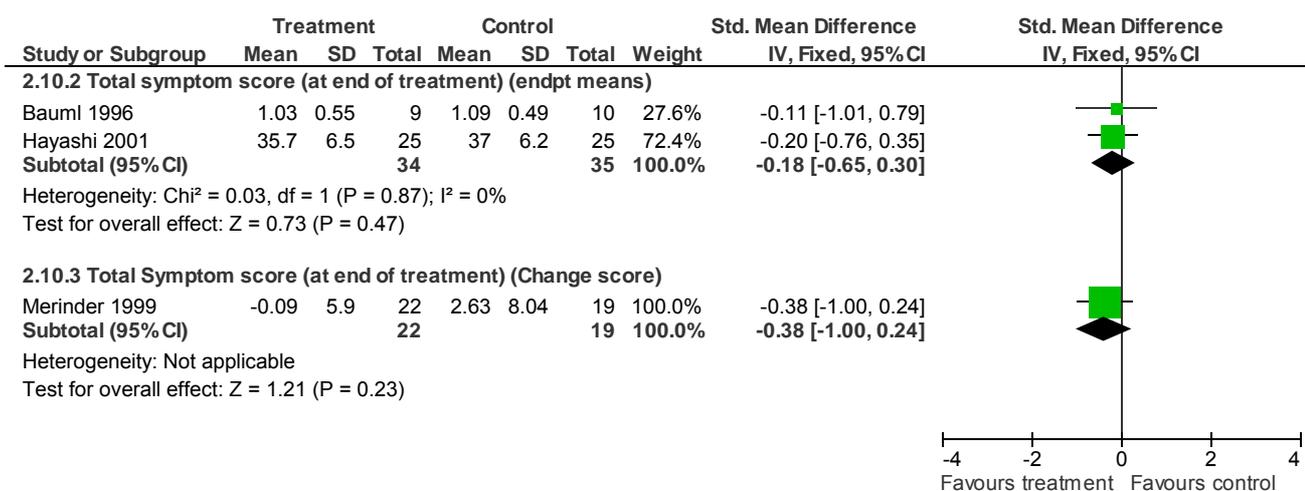
Test for subgroup differences: Not applicable

2.9 Global state: 3. CGI scores (at end of treatment)

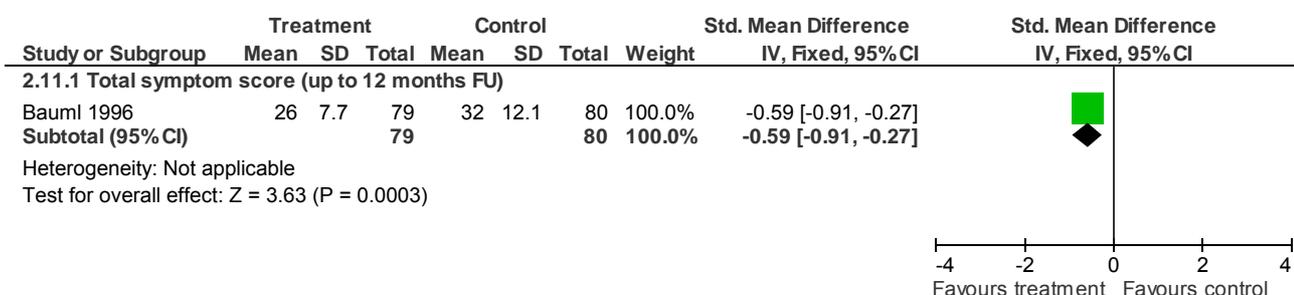


Test for subgroup differences: Not applicable

2.10 Mental state: 1. Continuous measures - Total symptom score, BPRS, PANSS (lower = better) (at end of treatment)

Test for subgroup differences: $\text{Chi}^2 = 0.27$, $\text{df} = 1$ ($P = 0.60$), $I^2 = 0\%$

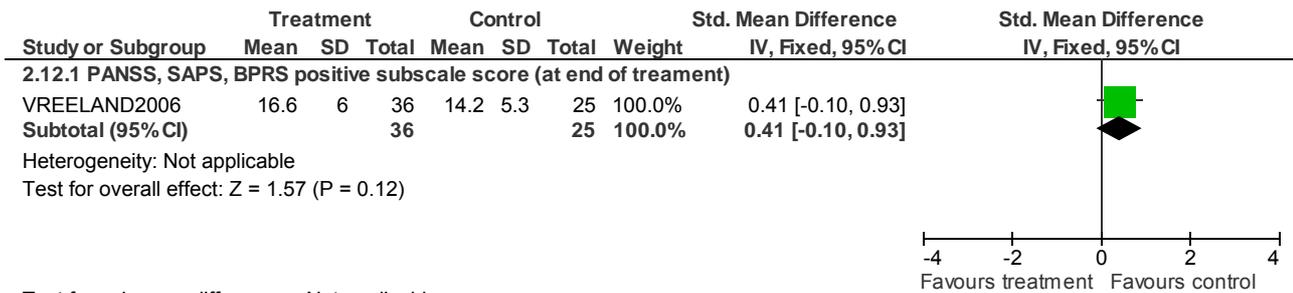
2.11 Mental state: 1. Continuous measures - Total symptom score, BPRS, PANSS (lower = better) (at FU)



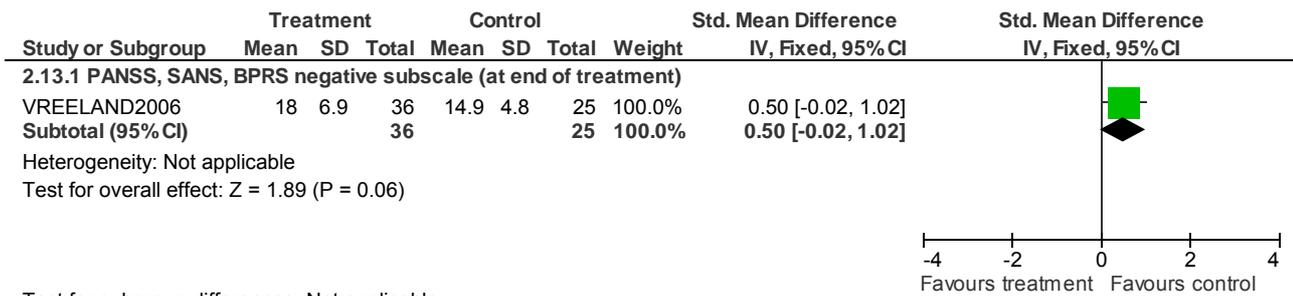
Test for subgroup differences: Not applicable

Psychological clinical evidence: Psychoeducation

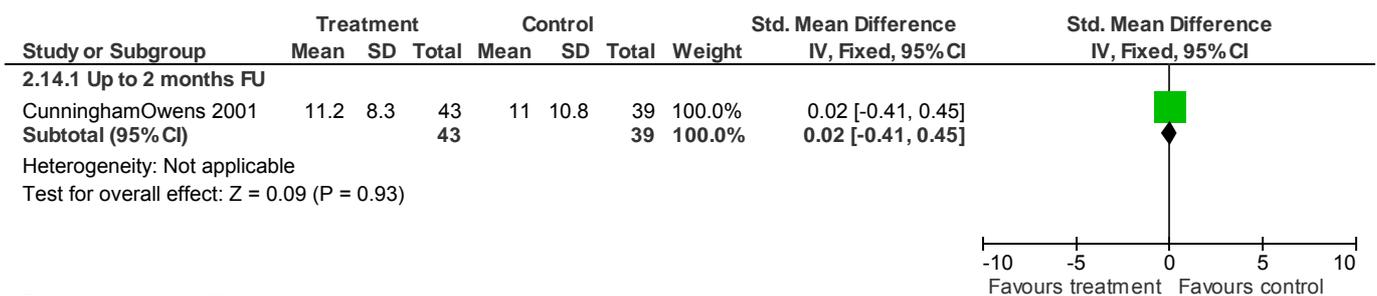
2.12 Mental state: 2. Continuous measures - positive symptom score (PANSS, SAPS) (at end of treatment)



2.13 Mental state: 3. Continuous measures - negative symptom score (PANSS, SANS) (at end of treatment)

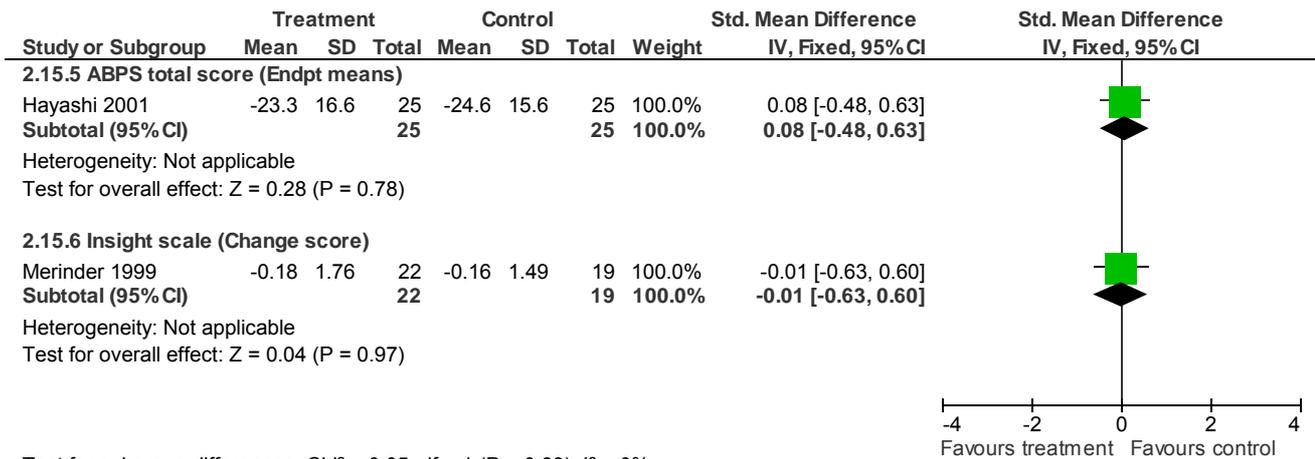


2.14 Mental state: 4. Depression (MADRS) (at FU)

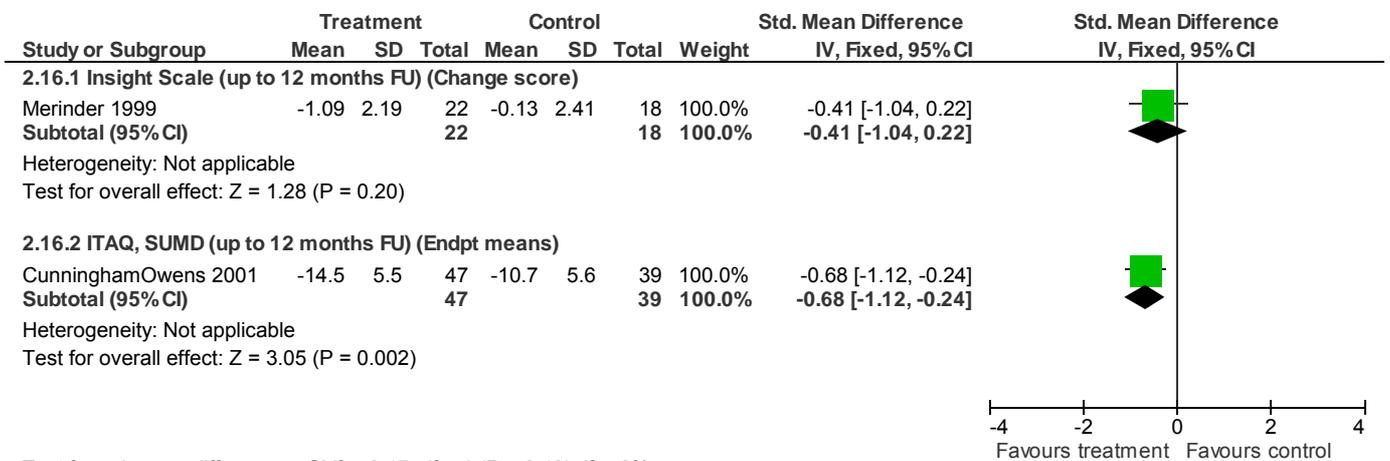


Psychological clinical evidence: Psychoeducation

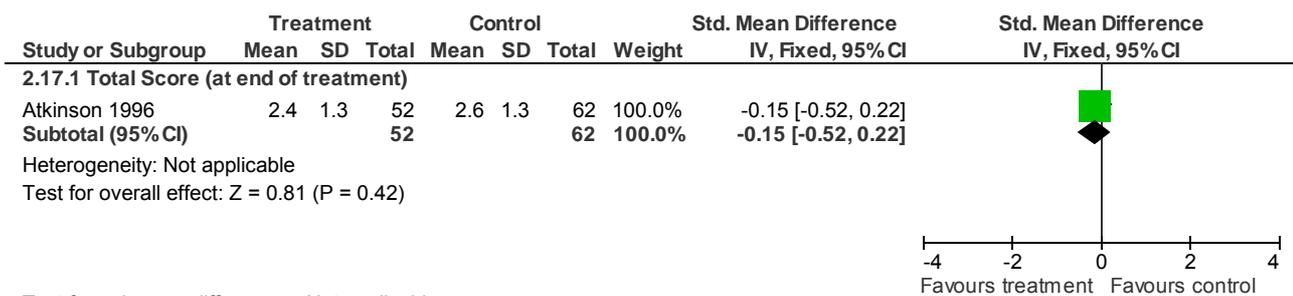
2.15 Insight: 1. Total score (IS, ABPS) (signs reversed) (at end of treatment)



2.16 Insight: 1. Total scores (IS, ITAQ, SUMD) (signs reversed) (at FU)

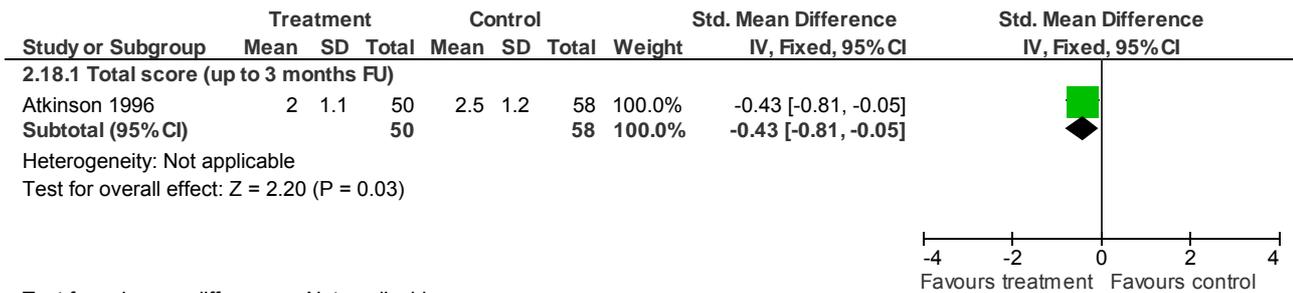


2.17 Psychosocial functioning: 1. Social Functioning Schedule (SFS, lower = better) (at end of treatment)

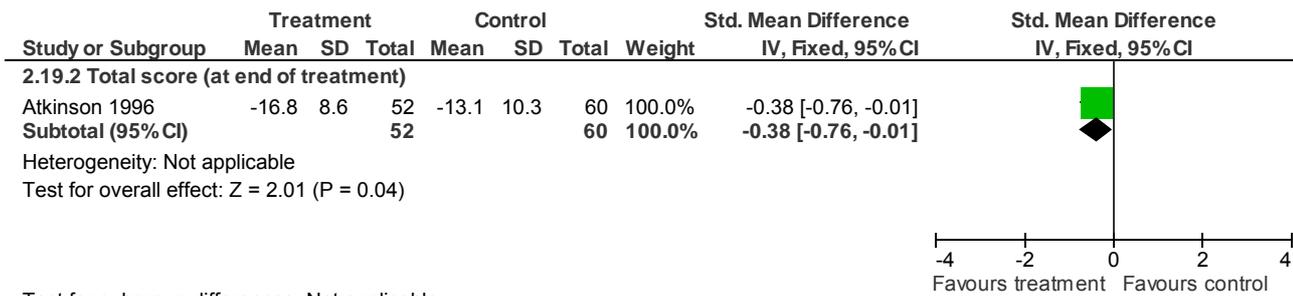


Psychological clinical evidence: Psychoeducation

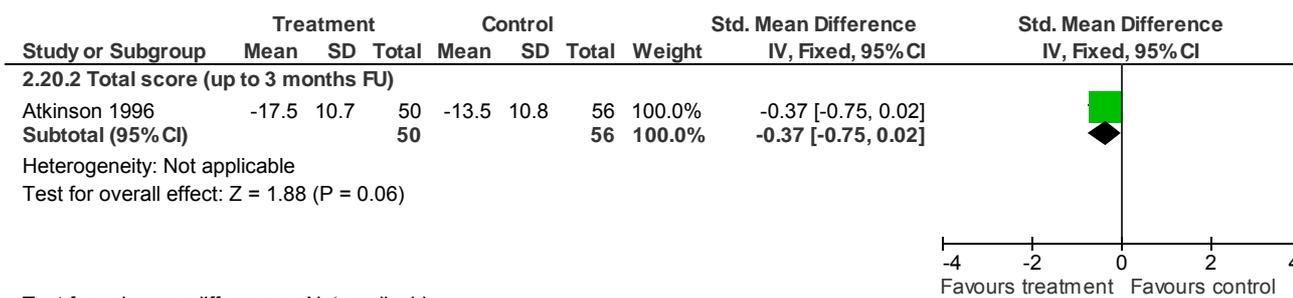
2.18 Psychosocial functioning: 1. Social Functioning Scale (lower = better) (at FU)



2.19 Psychosocial functioning: 2. SNS - mean no. total contacts (at end of treatment)

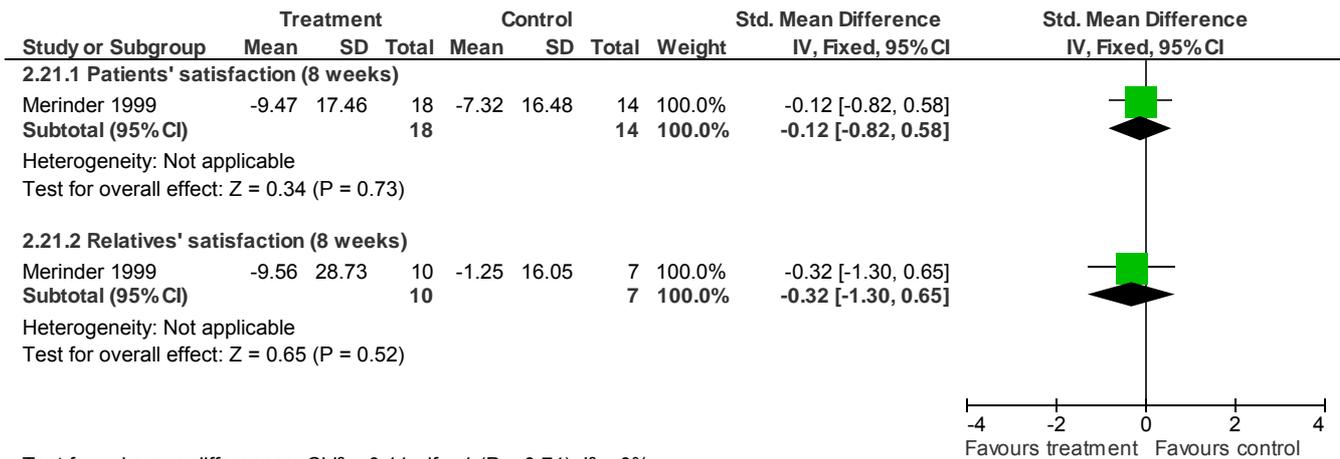


2.20 Psychosocial functioning: 2. SNS - mean no. total contacts (at FU)

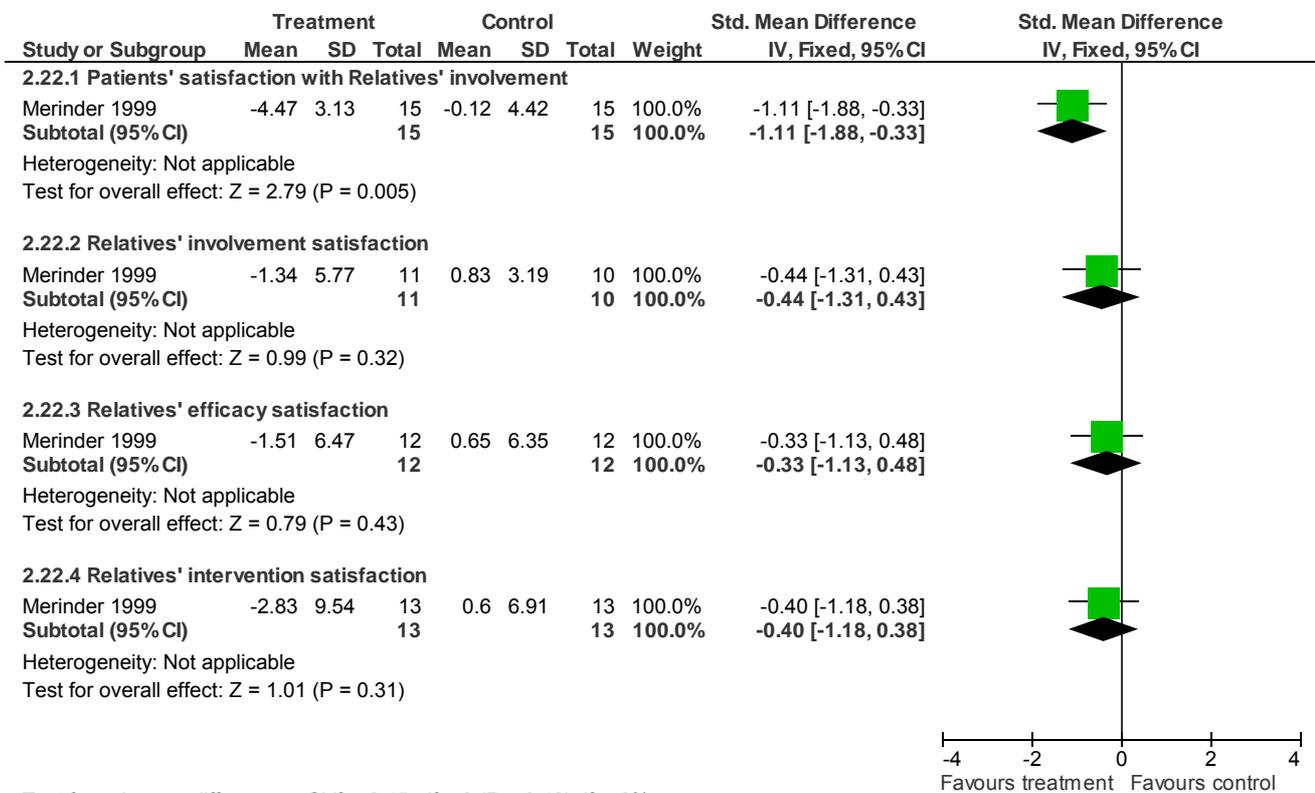


Psychological clinical evidence: Psychoeducation

2.21 Satisfaction with mental health services: 1. (VSS) (signs reversed) - at end of interventions (change score)

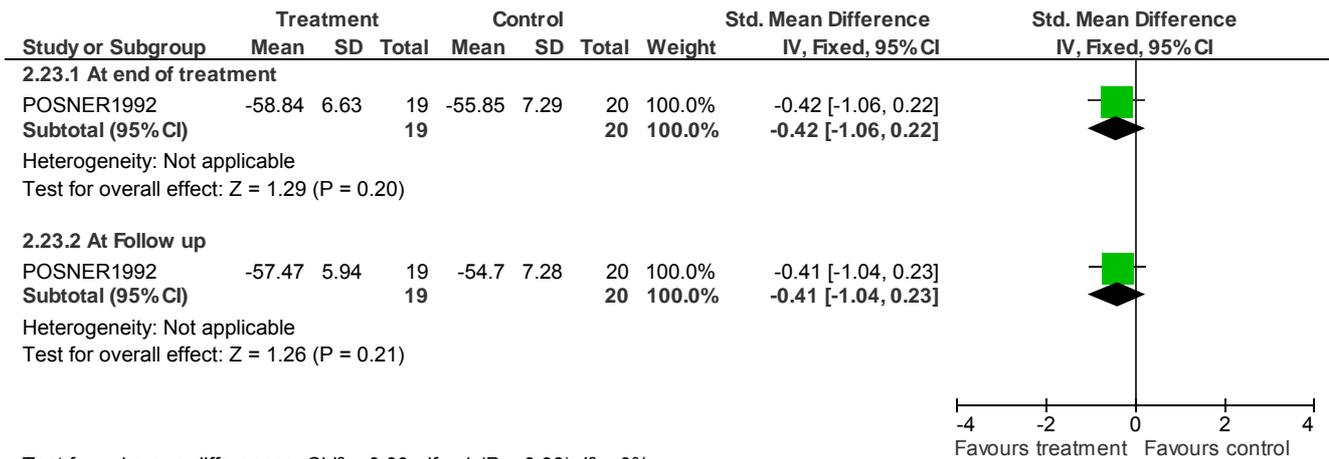


2.22 Satisfaction with mental health services: 1. (VSS) (signs reversed) - up to 12 months FU (change score)

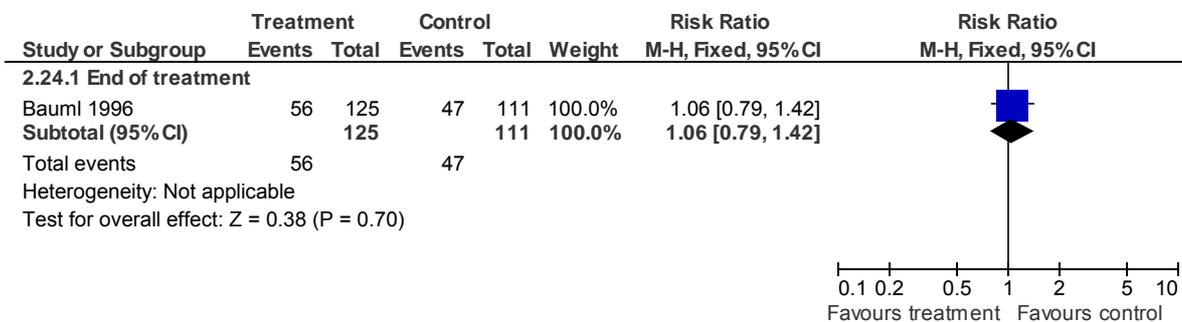


Psychological clinical evidence: Psychoeducation

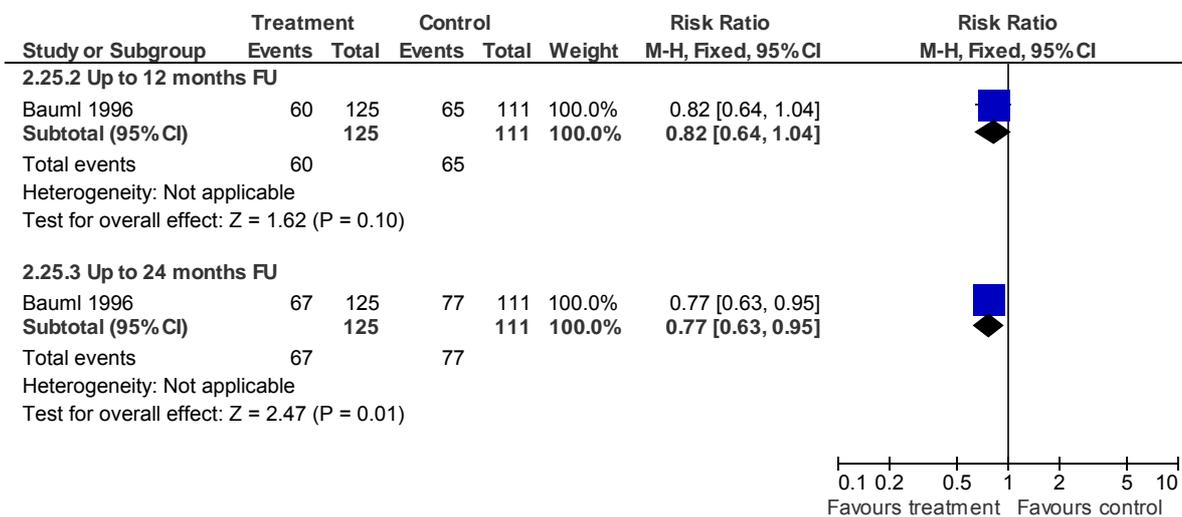
2.23 Satisfaction with mental health services: 2. Consumer satisfaction scale (relatives only)



2.24 Adherence: 1. Non-adherence/ poor adherence to medication (end of treatment)

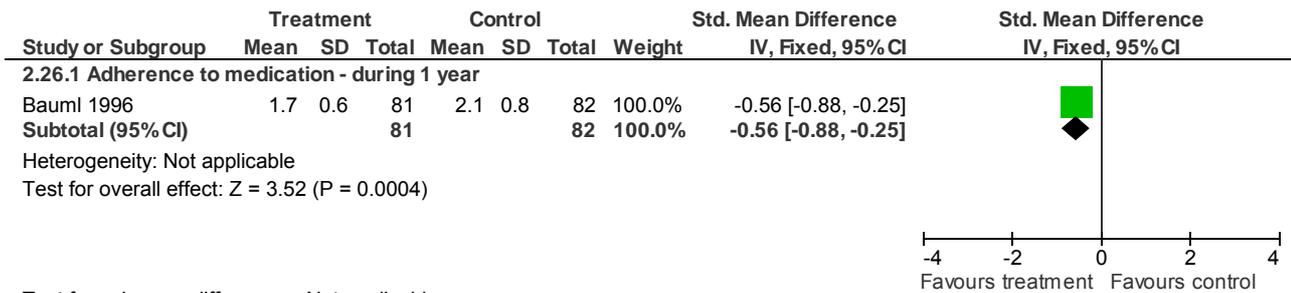


2.25 Adherence: 1. Non-adherence/ poor adherence to medication (at FU)

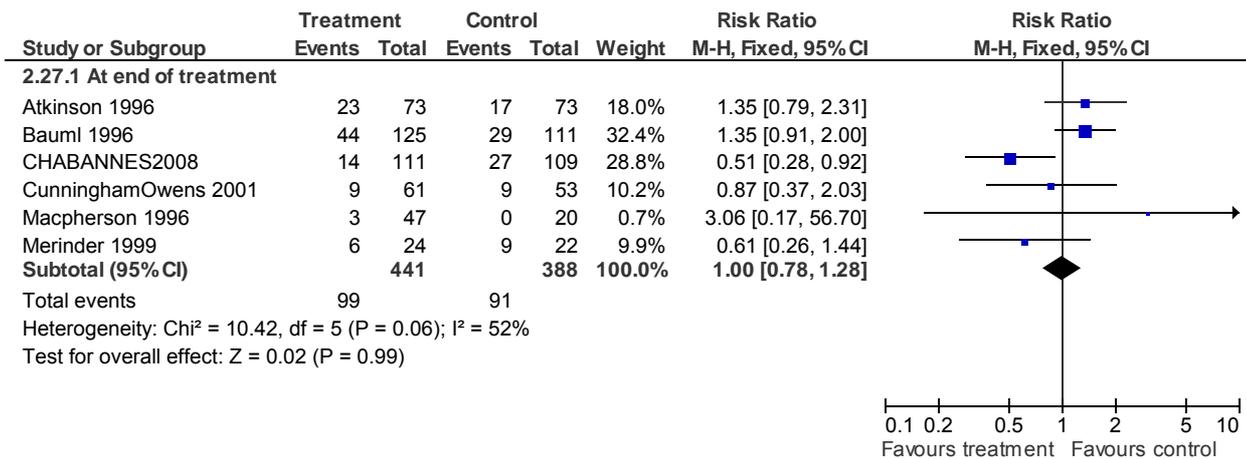


Psychological clinical evidence: Psychoeducation

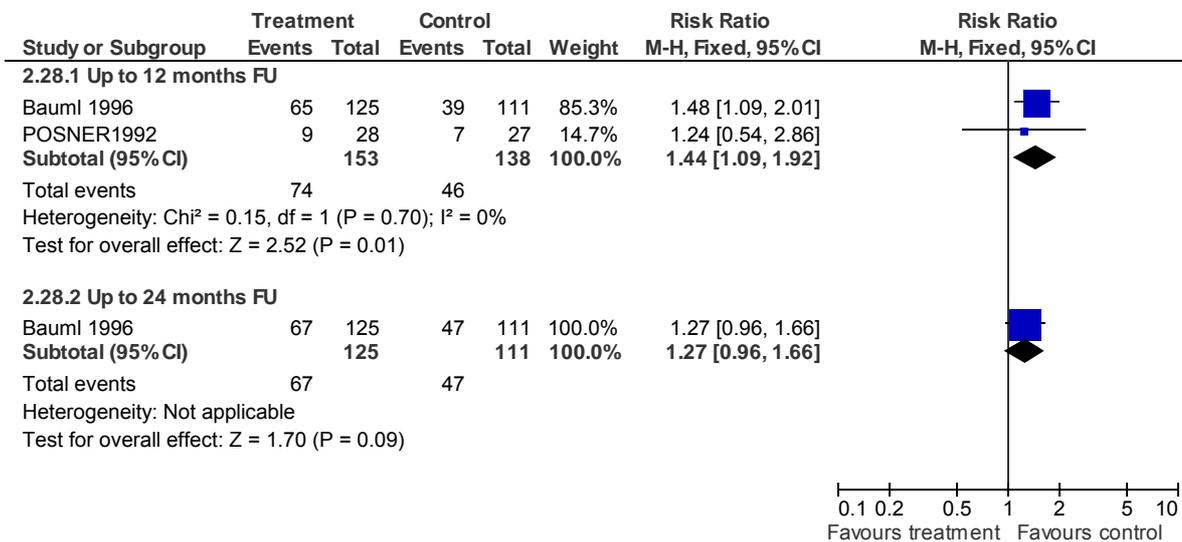
2.26 Adherence: 2. Non-adherence to medication (at end of treatment)



2.27 Leaving the study early (at end of treatment)



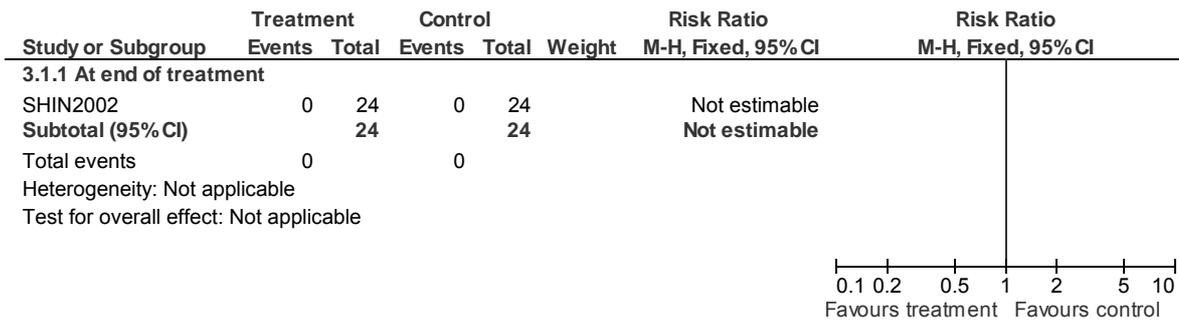
2.28 Leaving the study early (at FU)



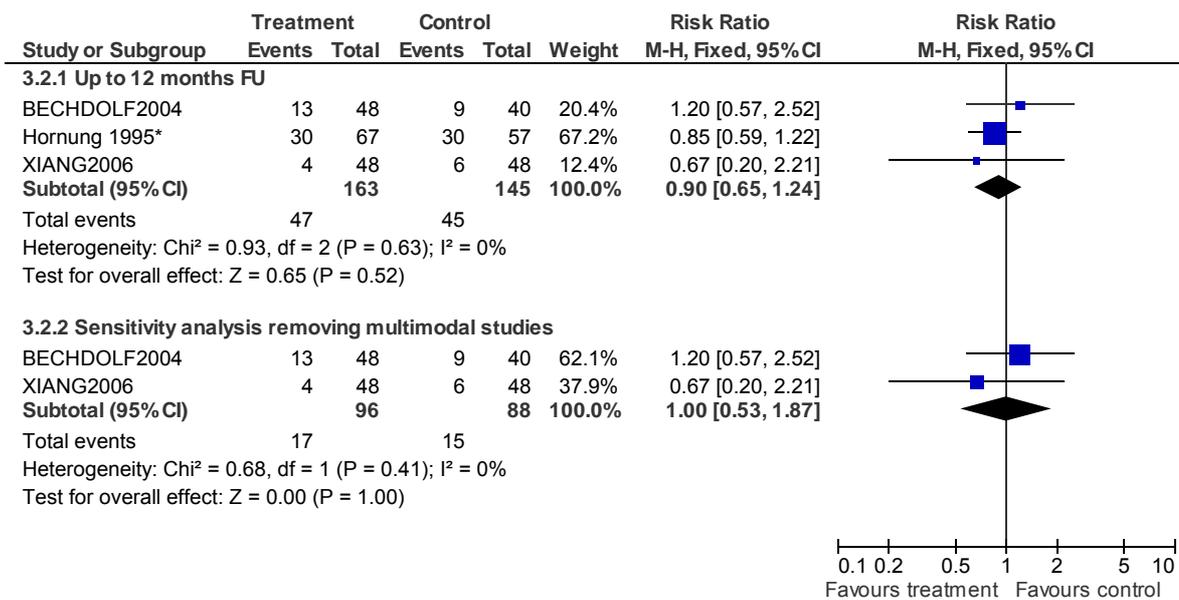
3 Psychoeducation versus other active treatments

Psychological clinical evidence: Psychoeducation

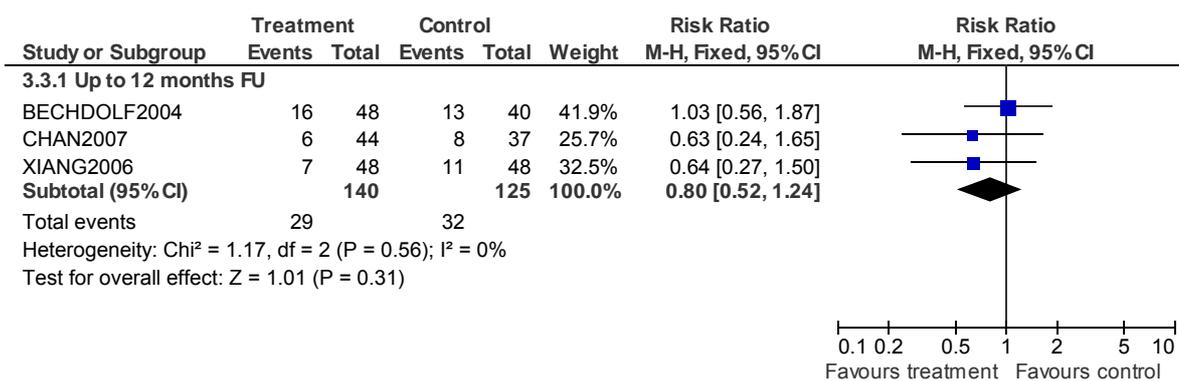
3.1 Service outcome: 1. Rehospitalisation (at end of treatment)



3.2 Service Outcome: 1.Rehospitalisation (at FU)

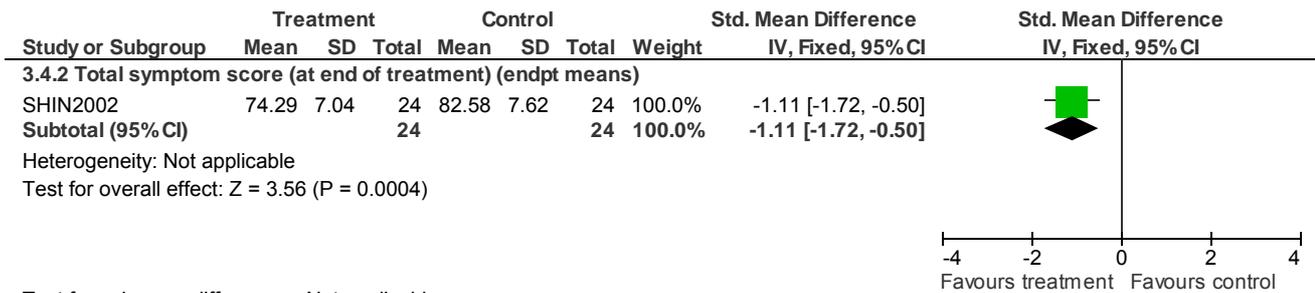


3.3 Global state: 1. Relapse (at FU)

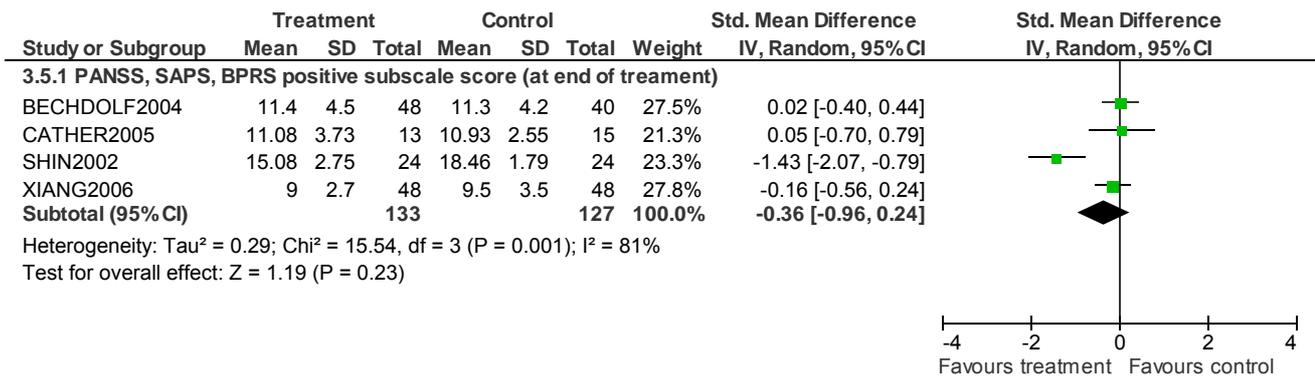


Psychological clinical evidence: Psychoeducation

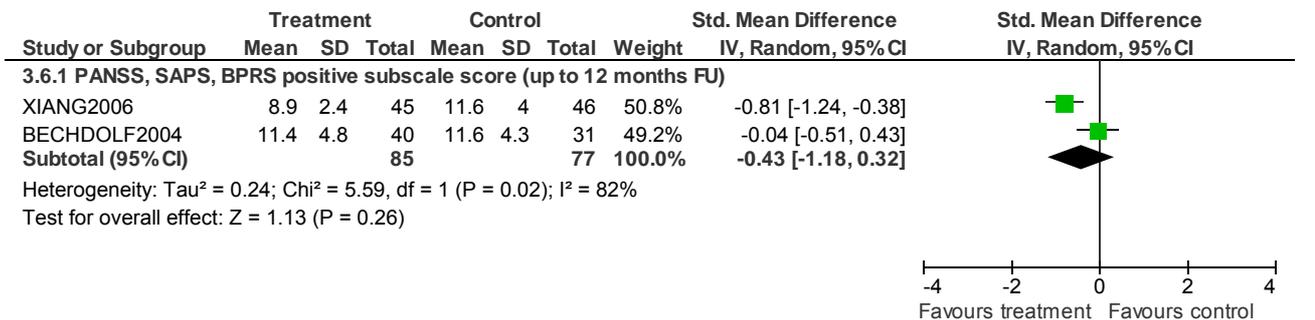
3.4 Mental state: 1. Continuous measures - Total symptom score, BPRS, PANSS (lower = better) (at end of treatment)



3.5 Mental state: 2. Continuous measures - positive symptom score (PANSS, SAPS) (at end of treatment)

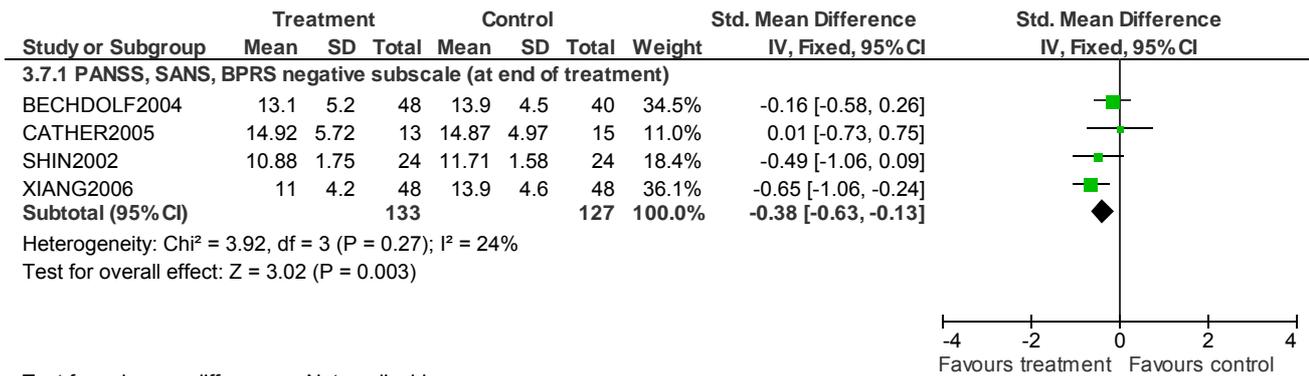


3.6 Mental state: 2. Continuous measures - positive symptom score (PANSS, SAPS) (at FU)

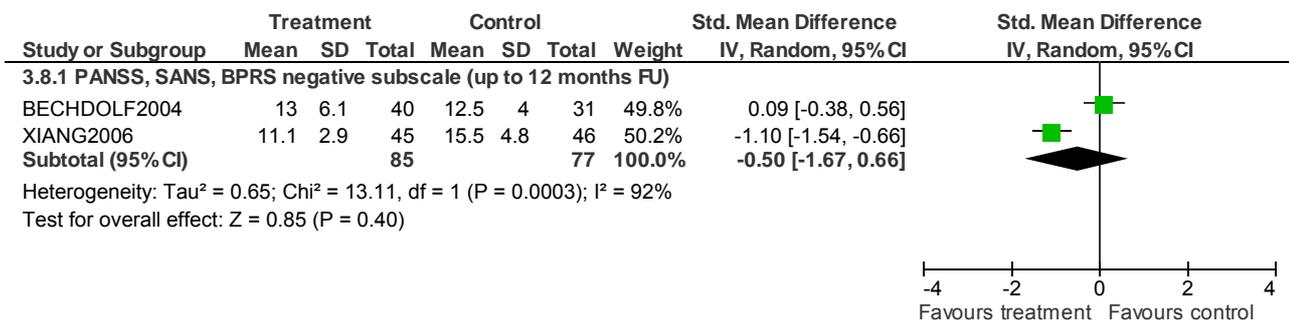


Psychological clinical evidence: Psychoeducation

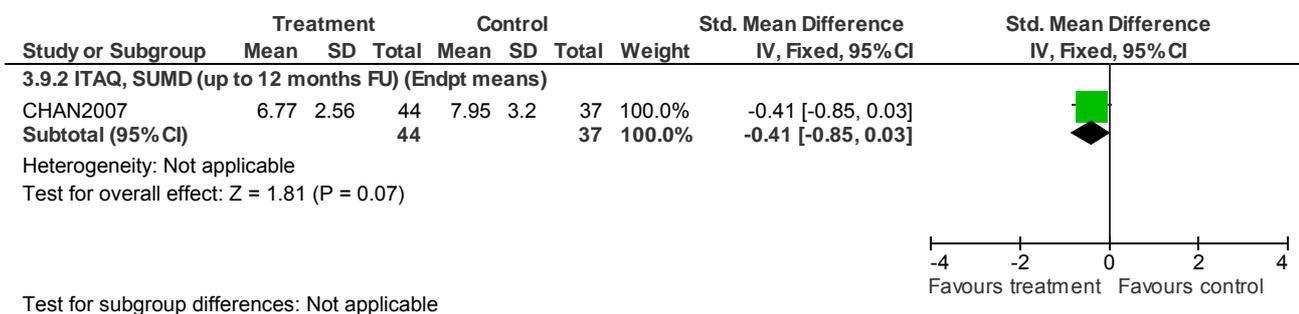
3.7 Mental state: 3. Continuous measures - negative symptom score (PANSS, SANS) (at end of treatment)



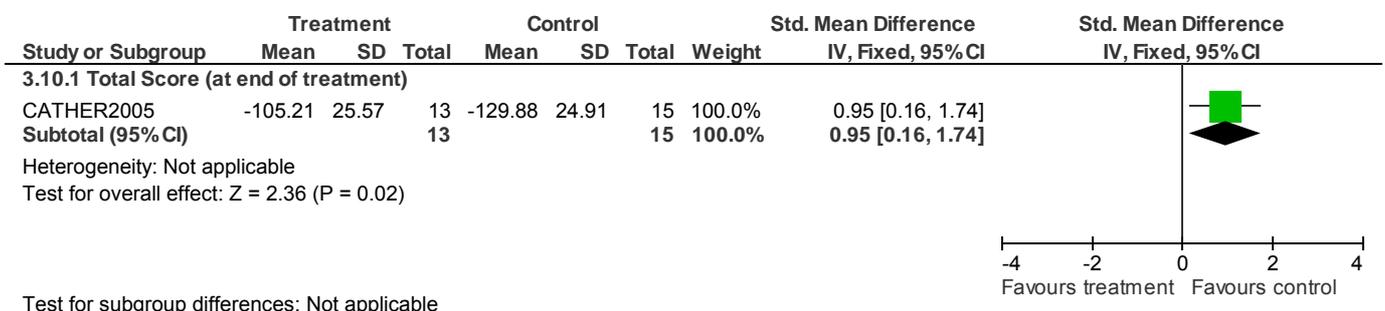
3.8 Mental state: 3. Continuous measures - negative symptom score (PANSS, SANS) (at FU)



3.9 Insight: 1. Total scores (IS, ITAQ, SUMD) (signs reversed) (at FU)

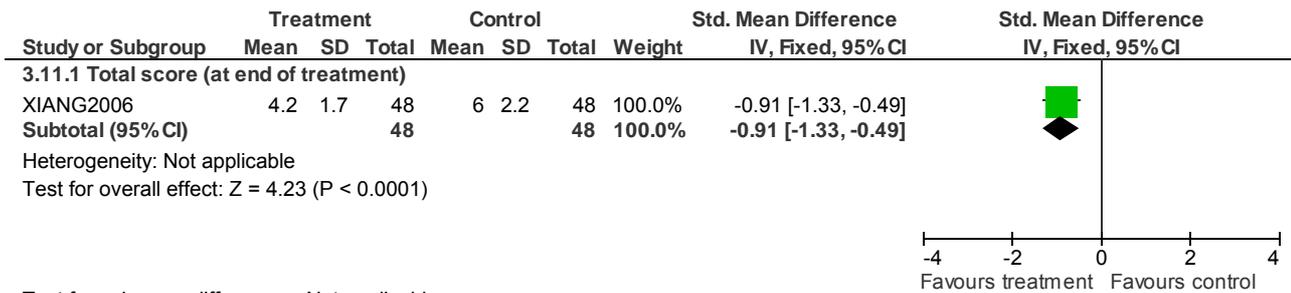


3.10 Psychosocial functioning: 1. Social Functioning Schedule (SFS, lower = better) (at end of treatment)

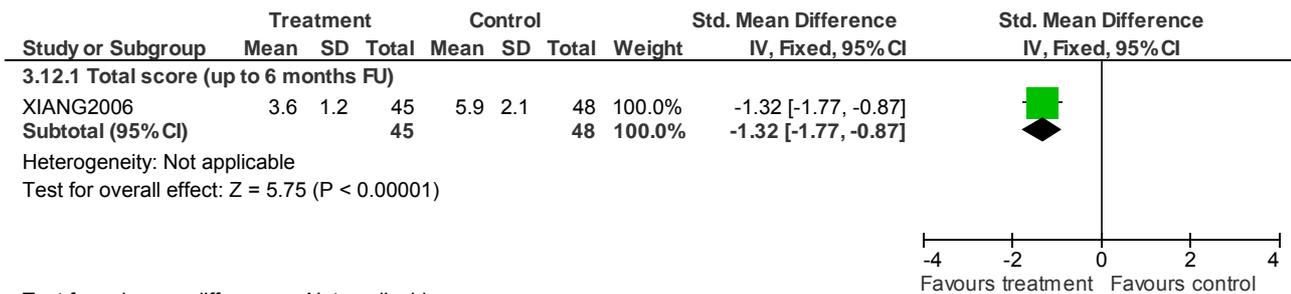


Psychological clinical evidence: Psychoeducation

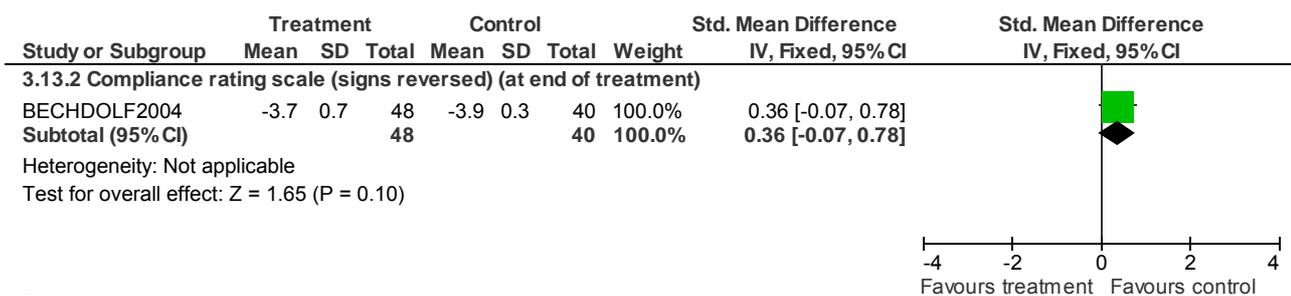
3.11 Psychosocial Functioning: 2. Social disability screening schedule (at end of treatment)



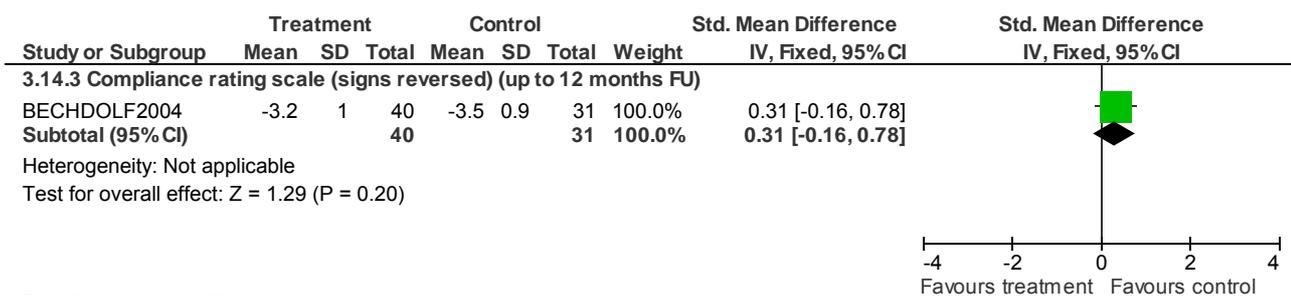
3.12 Psychosocial Functioning: 2. Social disability screening schedule (at FU)



3.13 Adherence to medication (at end of treatment)

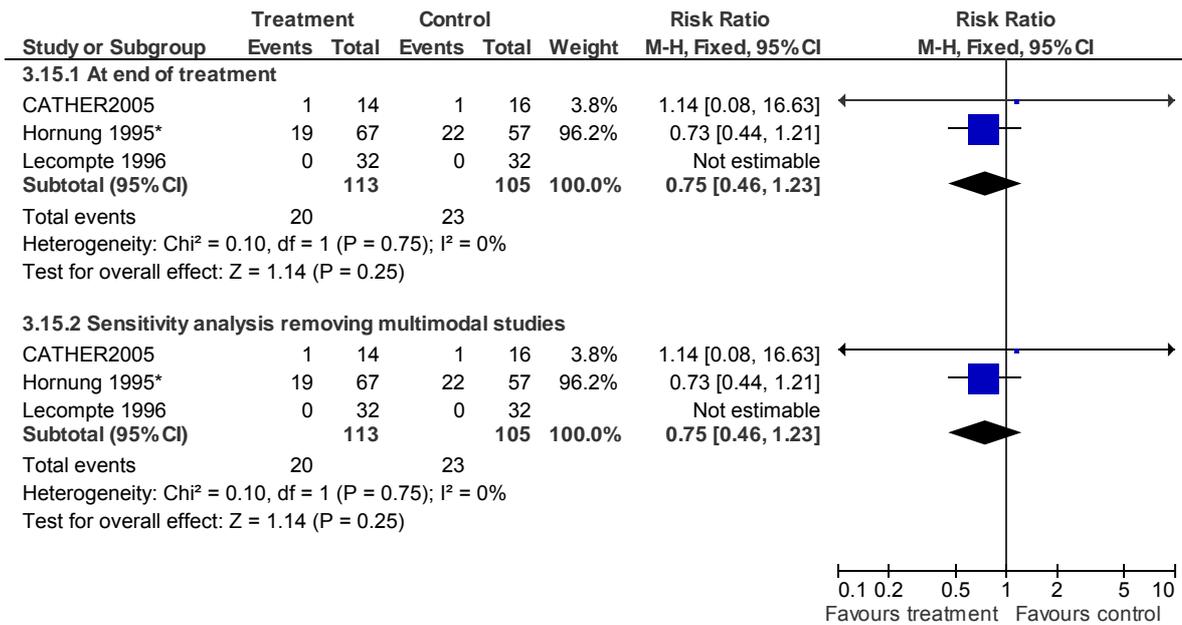


3.14 Adherence to medication (at FU)

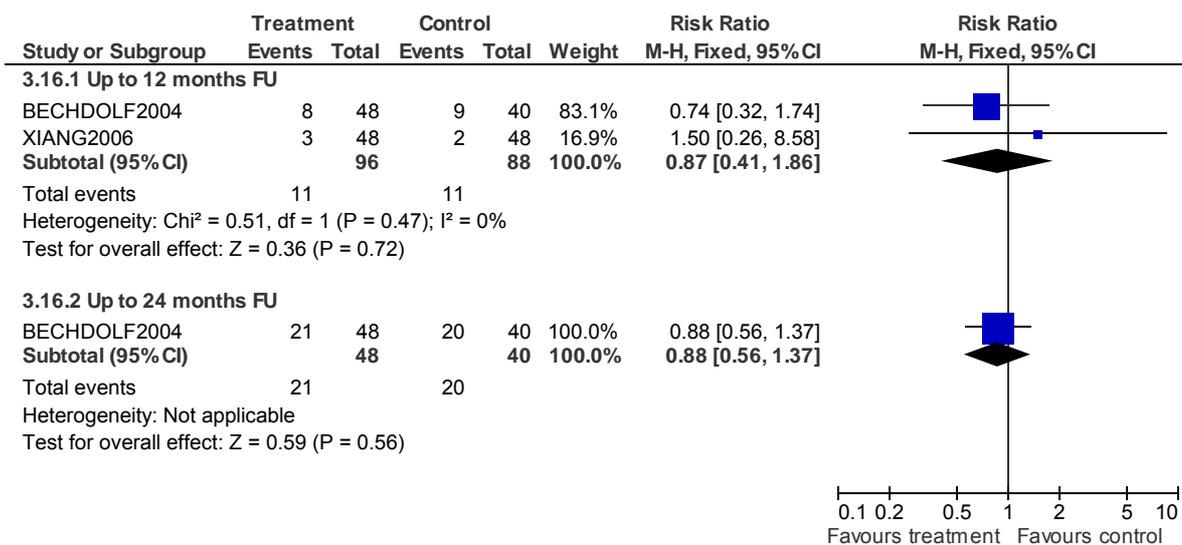


Psychological clinical evidence: Psychoeducation

3.15 Leaving the study early (at end of treatment)



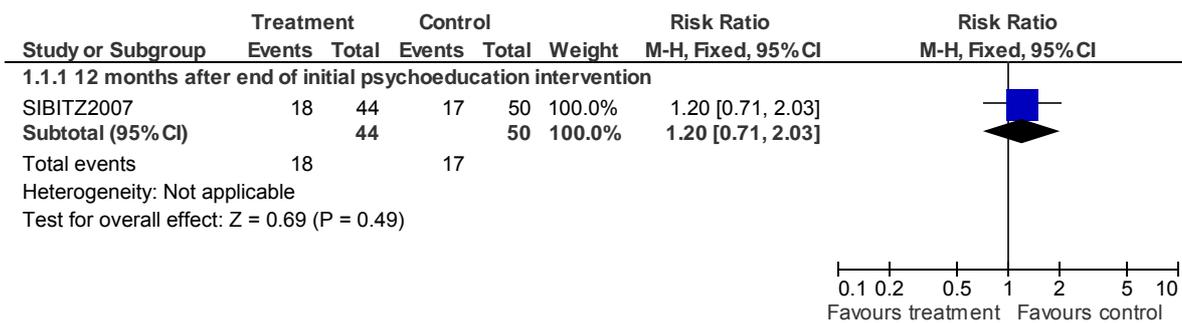
3.16 Leaving the study early (at FU)



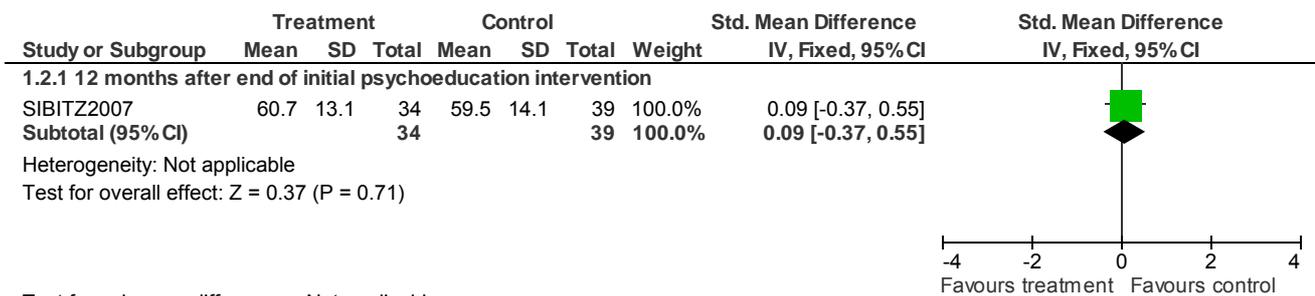
Psychological clinical evidence: Psychoeducation (subgroup analyses)

1 Psychoeducation with booster sessions versus psychoeducation only

1.1 Service outcome: 1. Rehospitalisation

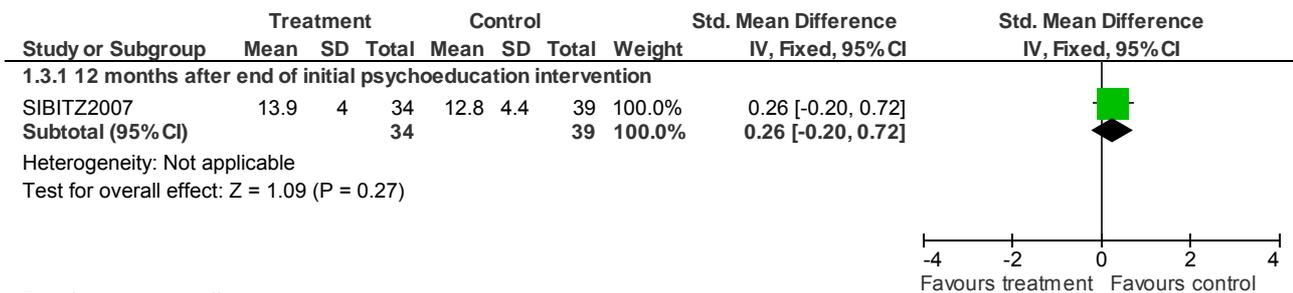


1.2 Mental state: 1. Continuous measure - total score (PANSS)



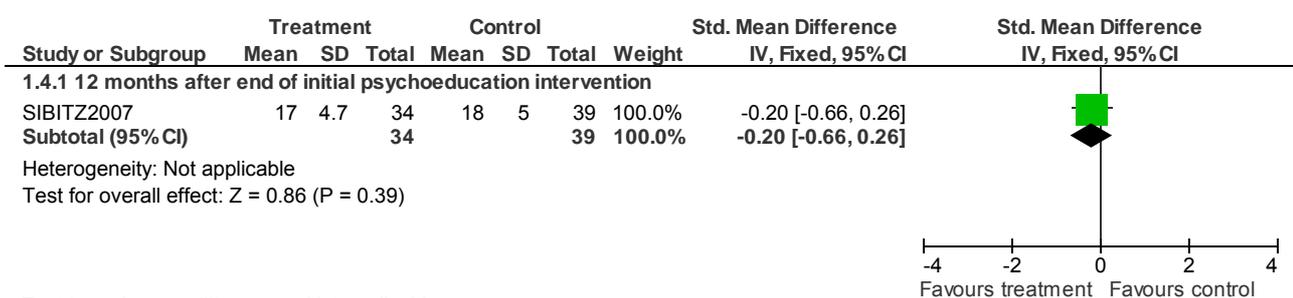
Test for subgroup differences: Not applicable

1.3 Mental state: 2. Continuous measure - positive symptom (PANSS)



Test for subgroup differences: Not applicable

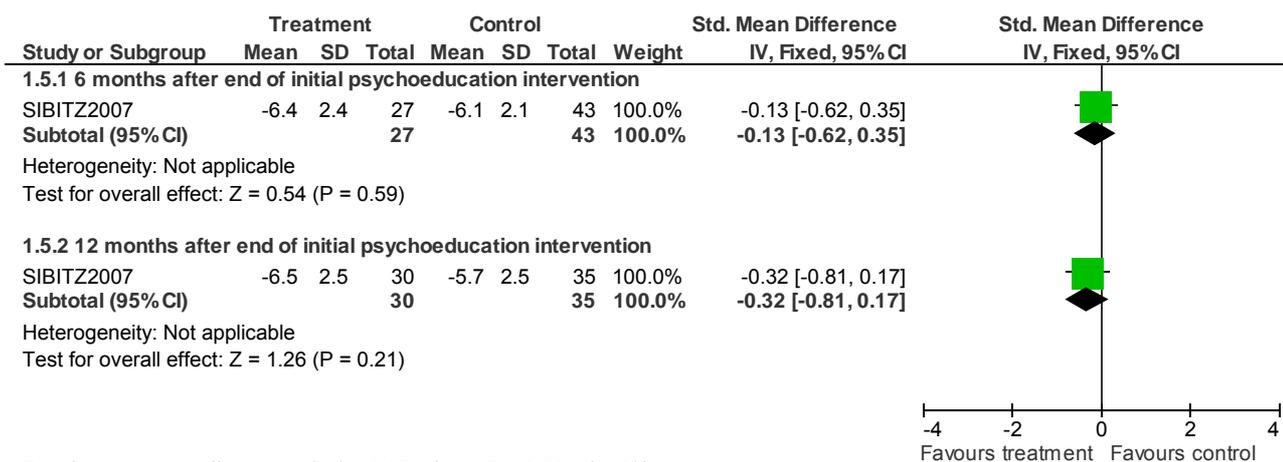
1.4 Mental state: 3. Continuous measure - negative symptom (PANSS)



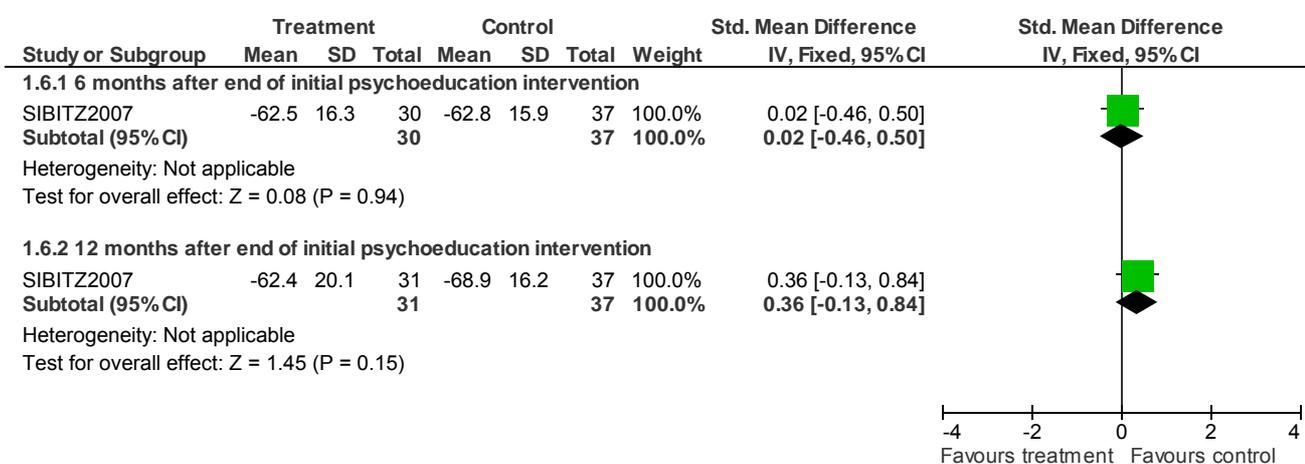
Test for subgroup differences: Not applicable

Psychological clinical evidence: Psychoeducation (subgroup analyses)

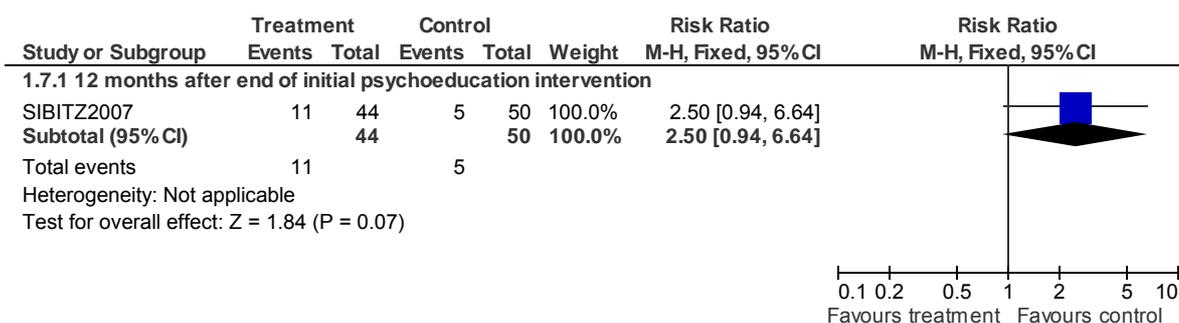
1.5 Compliance with medication: Drug Attitude Inventory (signs reversed)



1.6 Quality of Life - QLI total score (signs reversed)



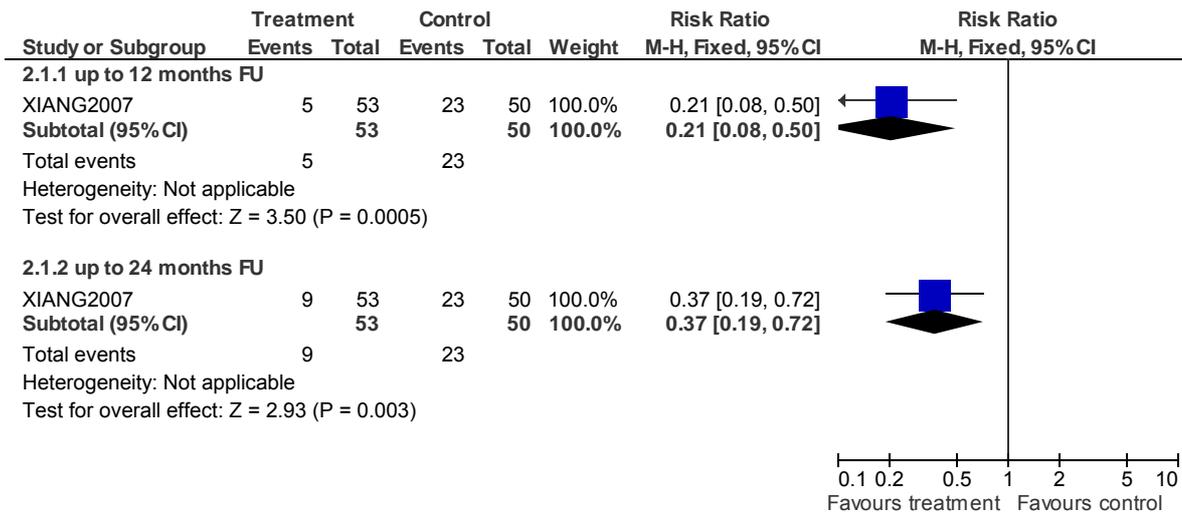
1.7 Leaving the study early



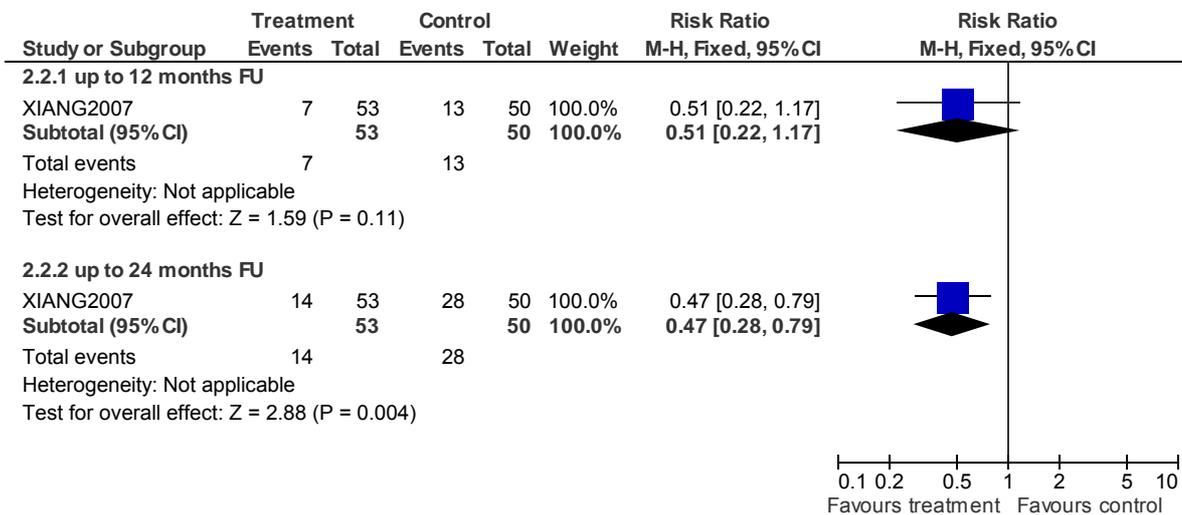
2 Psychoeducation with social skills module versus psychoeducation only

Psychological clinical evidence: Psychoeducation (subgroup analyses)

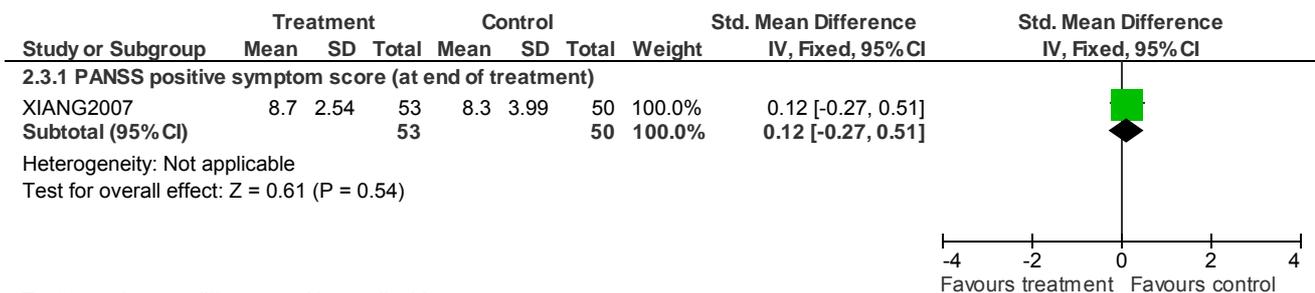
2.1 Service outcome: 1. Rehospitalised (At FU)



2.2 Global state: 1. Relapse (At FU)



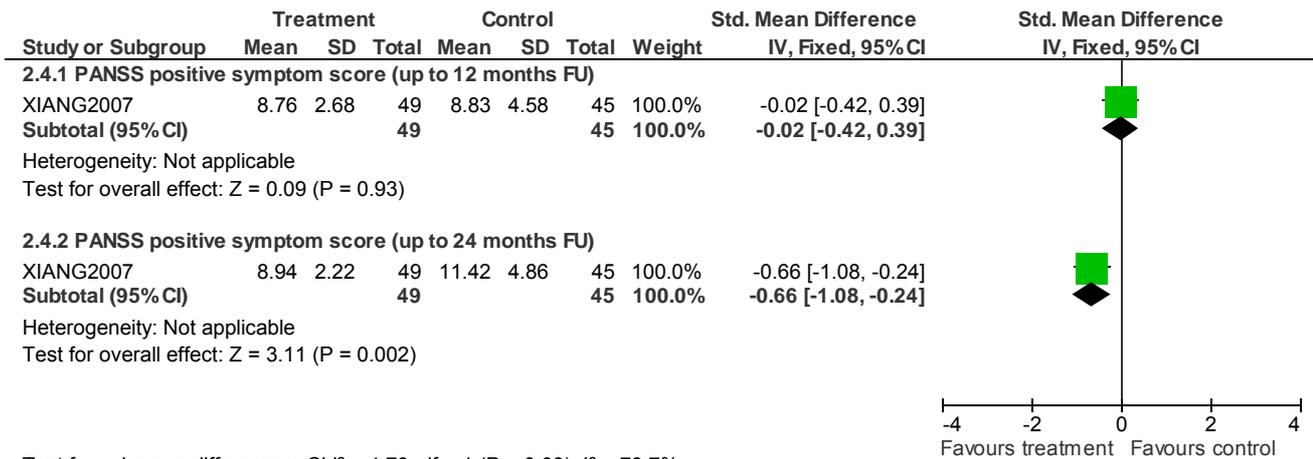
2.3 Mental state: 1. Continuous measures - positive symptoms (at end of treatment)



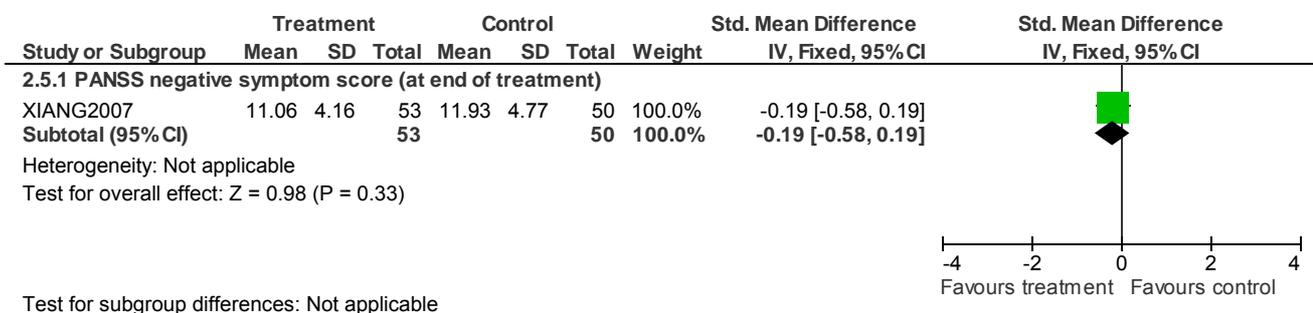
Test for subgroup differences: Not applicable

Psychological clinical evidence: Psychoeducation (subgroup analyses)

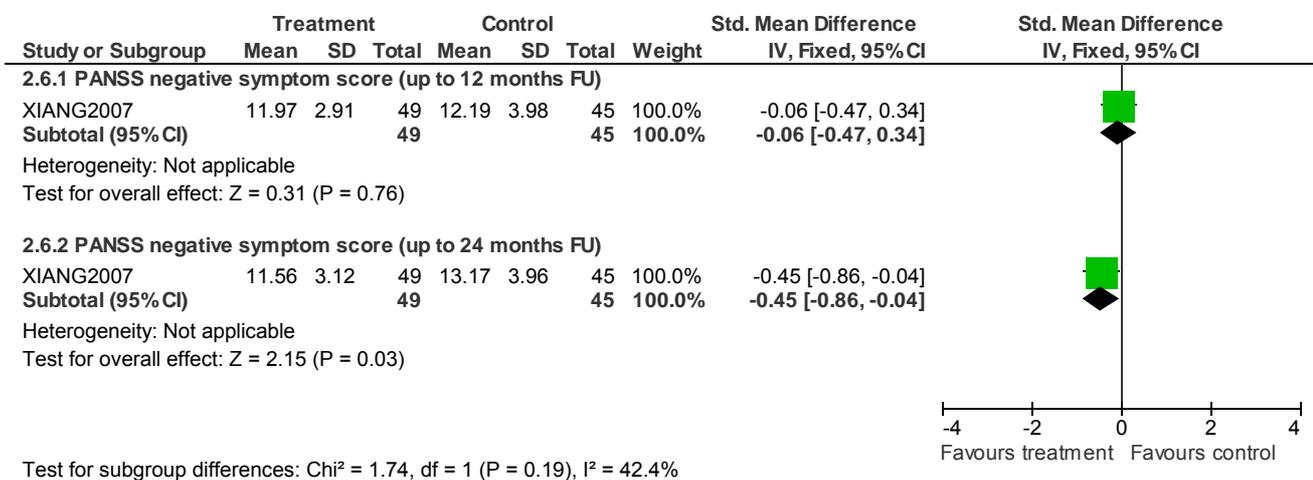
2.4 Mental state: 1. Continuous measures - positive symptoms (at FU)



2.5 Mental state: 2. Continuous measures - negative symptoms (at end of treatment)

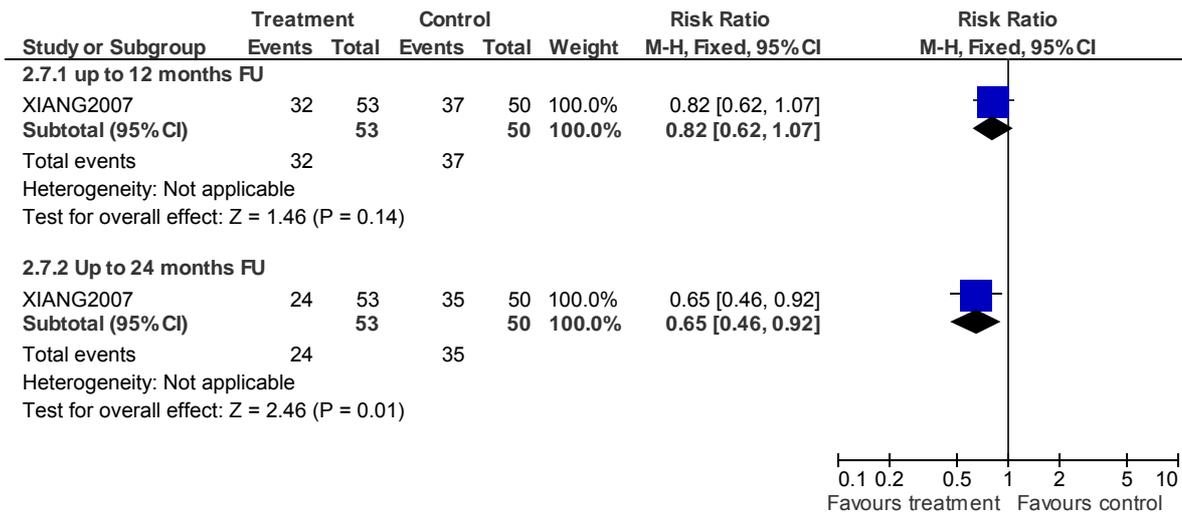


2.6 Mental state: 2. Continuous measures - negative symptoms (at FU)

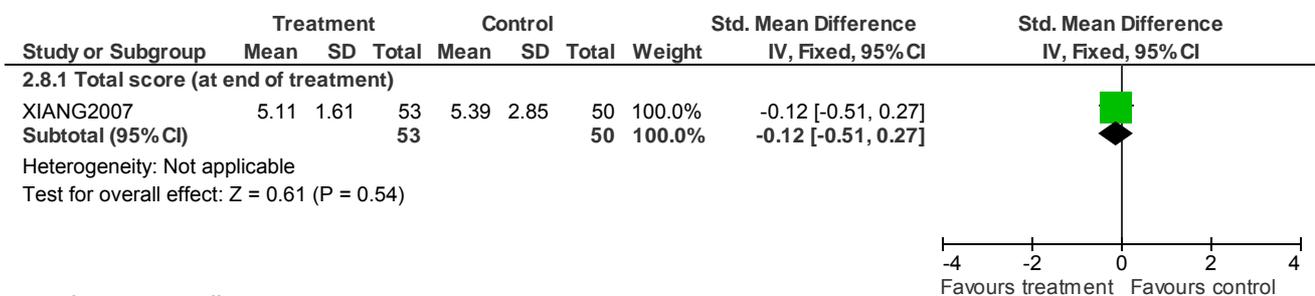


Psychological clinical evidence: Psychoeducation (subgroup analyses)

2.7 Psychosocial functioning: 1. Not gaining re-employment (at FU)

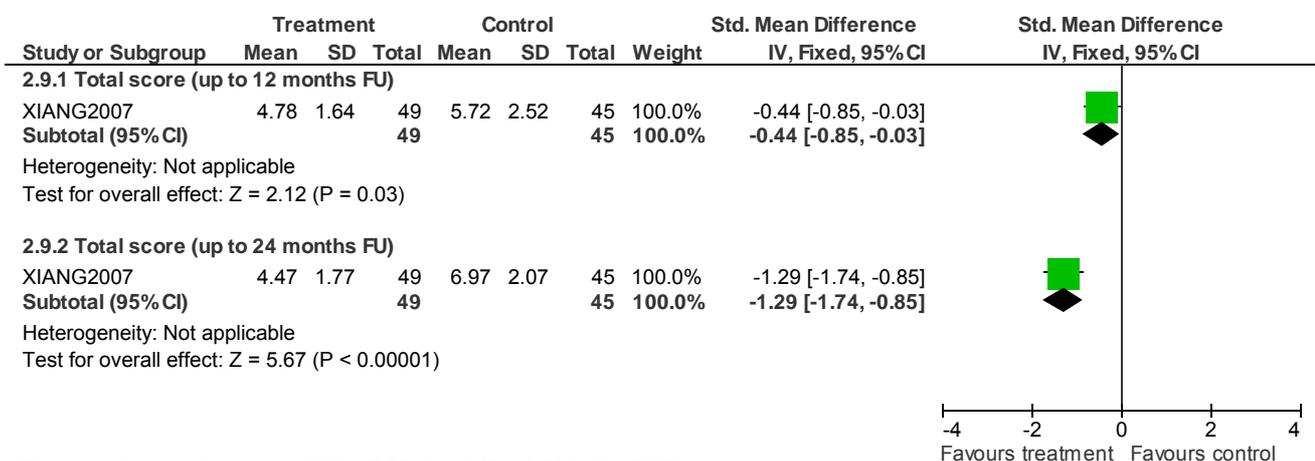


2.8 Psychosocial functioning: 2. Social disability Screening Schedule (at end of treatment)



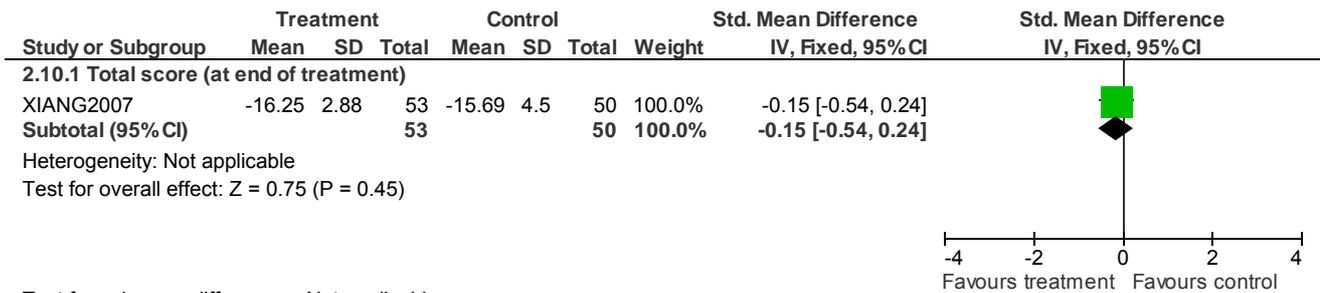
Test for subgroup differences: Not applicable

2.9 Psychosocial functioning: 2. Social disability Screening Schedule (at FU)

Test for subgroup differences: Chi² = 7.55, df = 1 (P = 0.006), I² = 86.7%

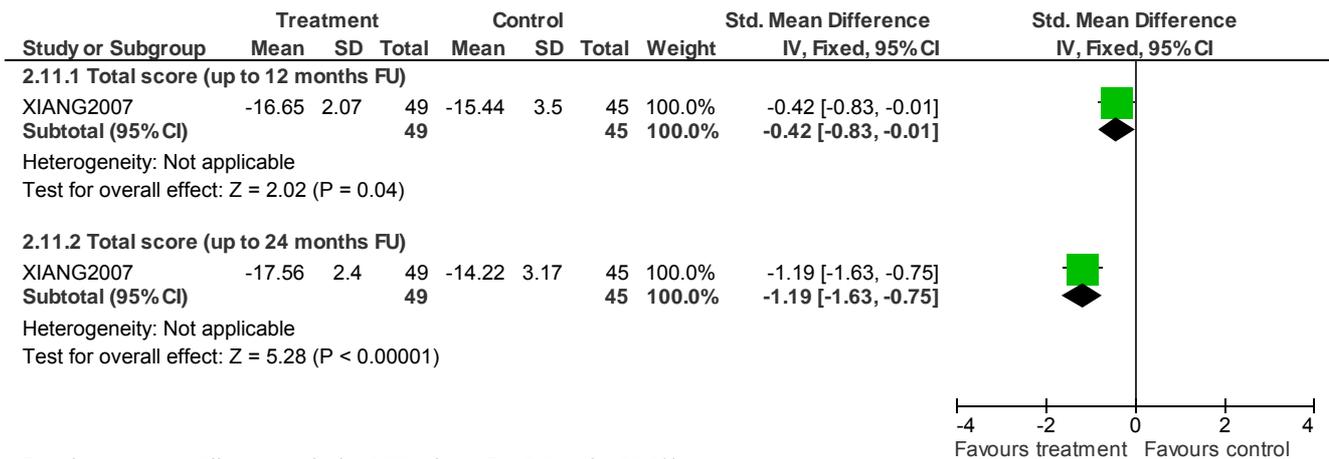
Psychological clinical evidence: Psychoeducation (subgroup analyses)

2.10 Insight: 1. ITAQ total score (signs reversed) (at end of treatment)

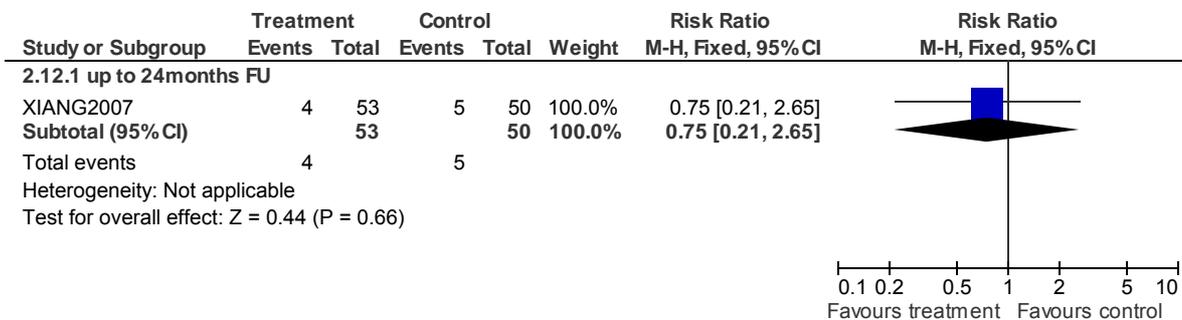


Test for subgroup differences: Not applicable

2.11 Insight: 1. ITAQ total score (signs reversed) (at FU)

Test for subgroup differences: $\text{Chi}^2 = 6.20$, $\text{df} = 1$ ($P = 0.01$), $I^2 = 83.9\%$

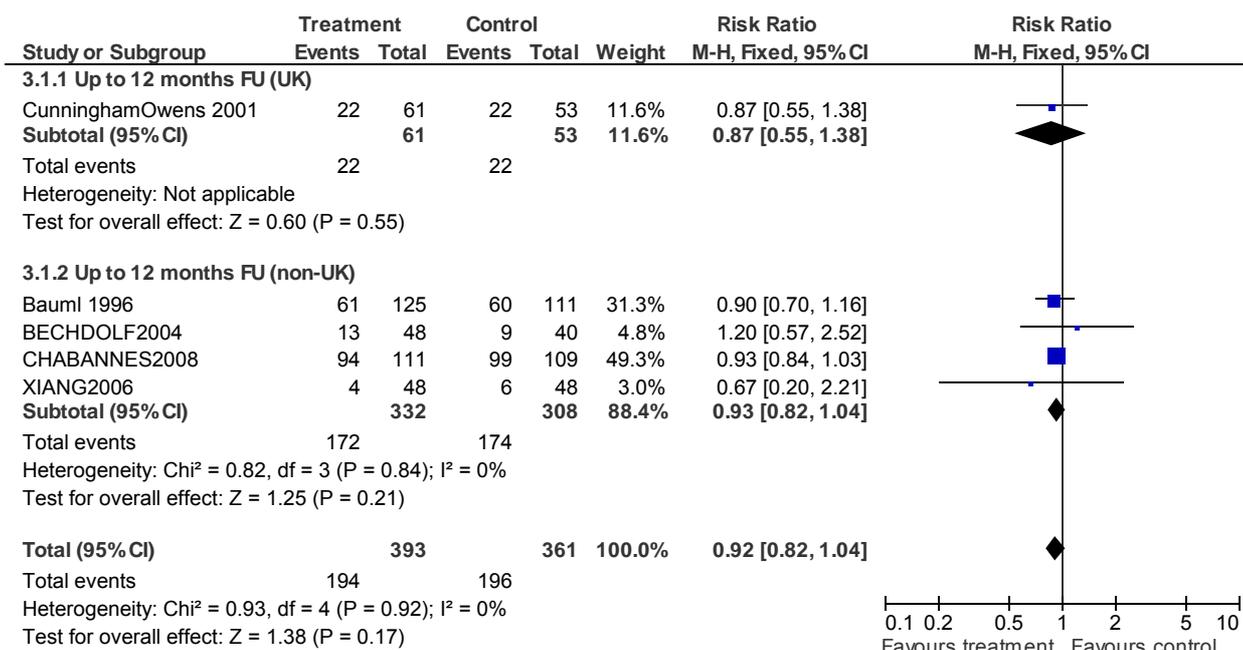
2.12 Leaving the Study early (at FU)



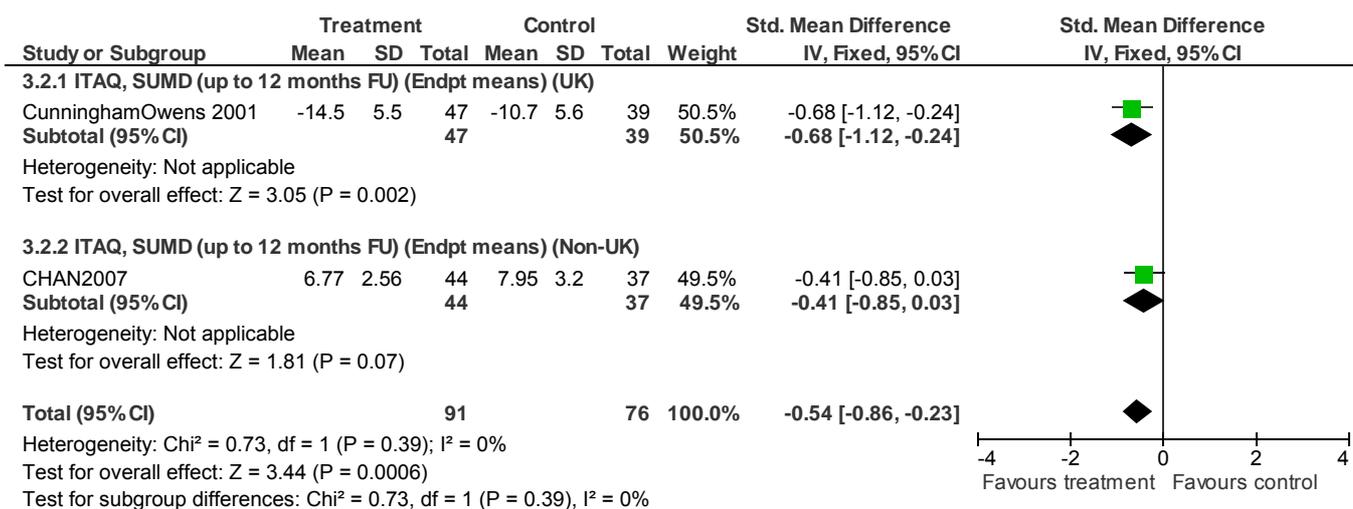
3 Psychoeducation versus any control - subgroup analysis by country

Psychological clinical evidence: Psychoeducation (subgroup analyses)

3.1 Service Outcome: 1. Rehospitalisation (at FU)

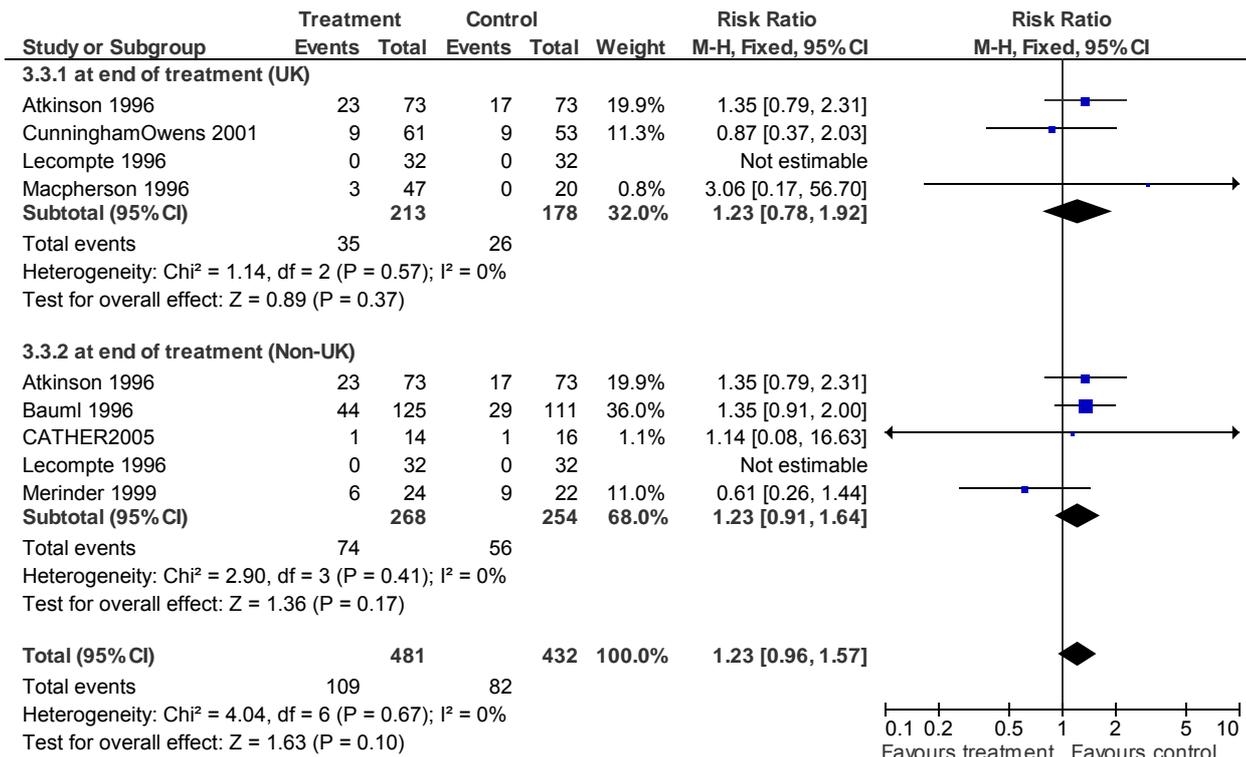


3.2 Insight: 1. Total scores (IS, ITAQ, SUMD) (signs reversed) (At FU)



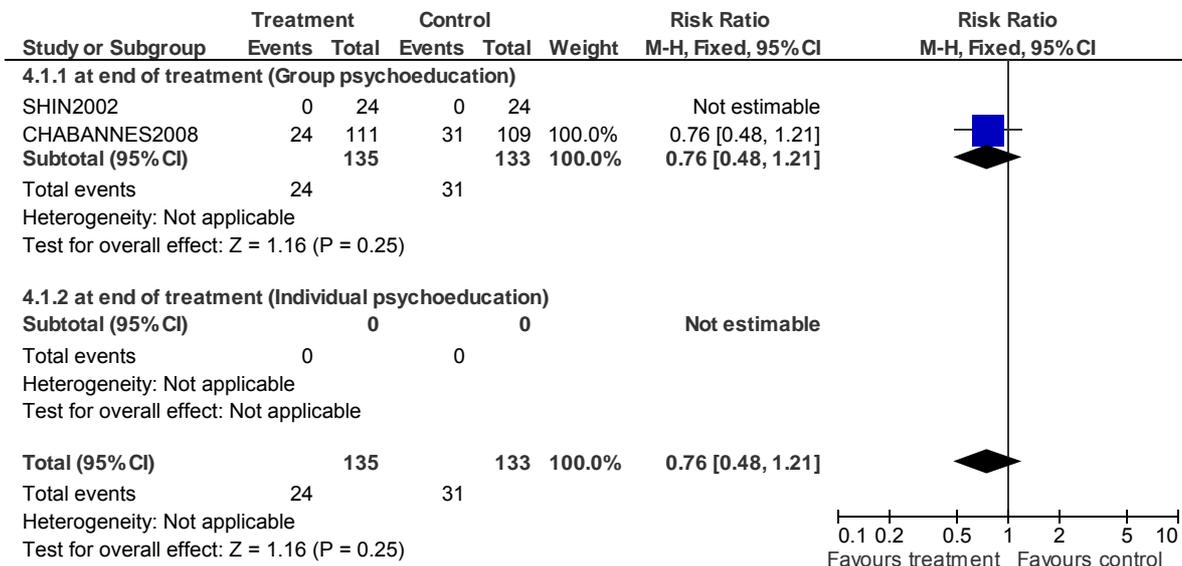
Psychological clinical evidence: Psychoeducation (subgroup analyses)

3.3 Leaving the study early (at end of treatment)



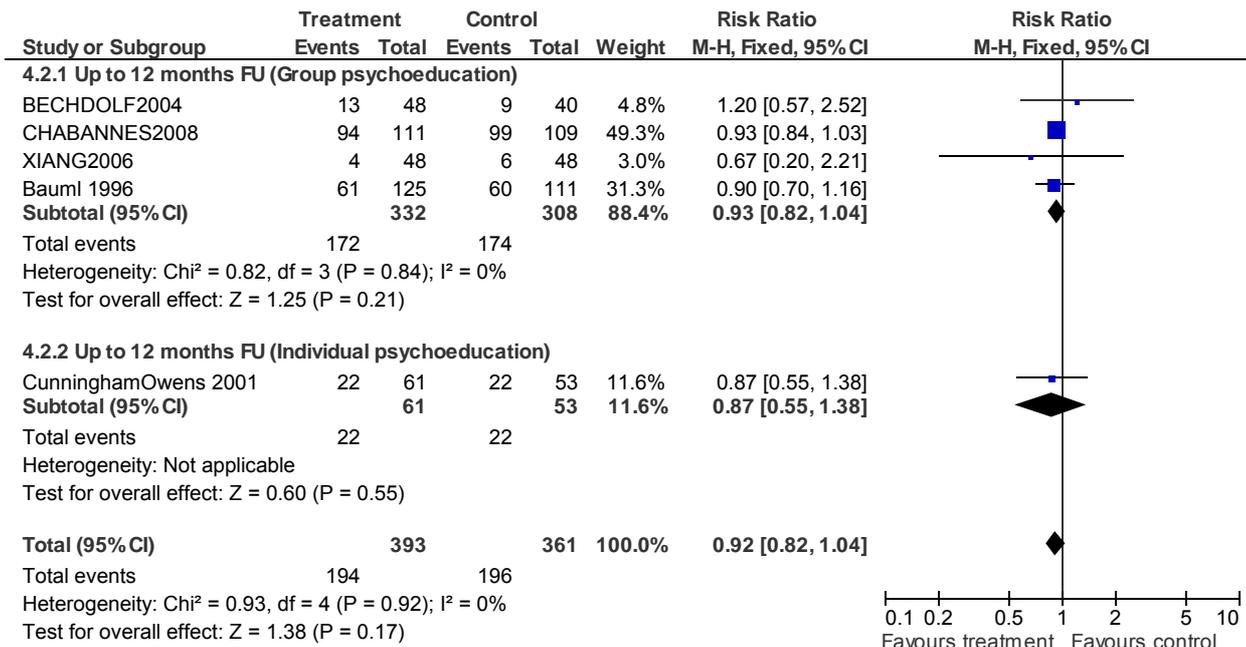
4 Psychoeducation versus any control - subgroup analysis by format

4.1 Service outcome: 1. Rehospitalisation (at end of treatment)

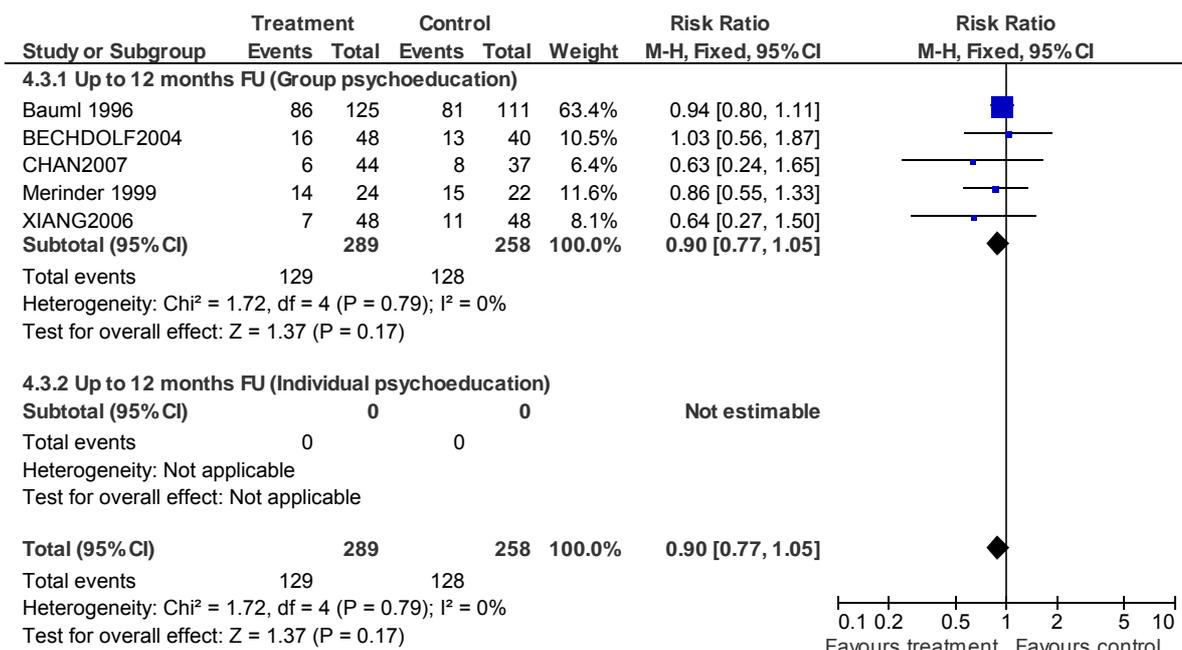


Psychological clinical evidence: Psychoeducation (subgroup analyses)

4.2 Service Outcome: 1. Rehospitalisation (at FU)

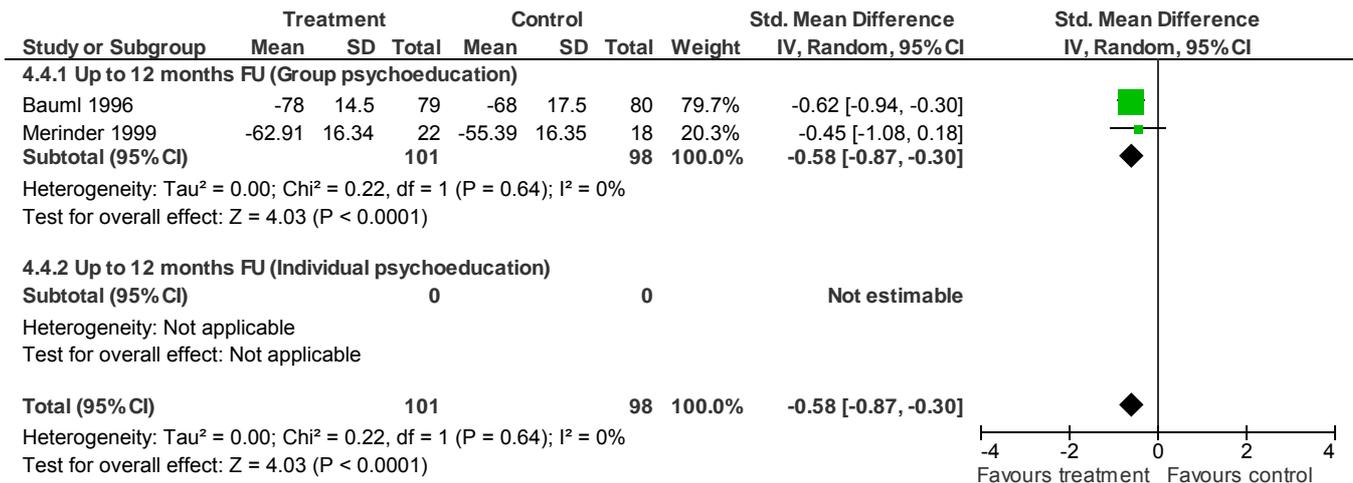


4.3 Global state: 1. Relapse (at FU)

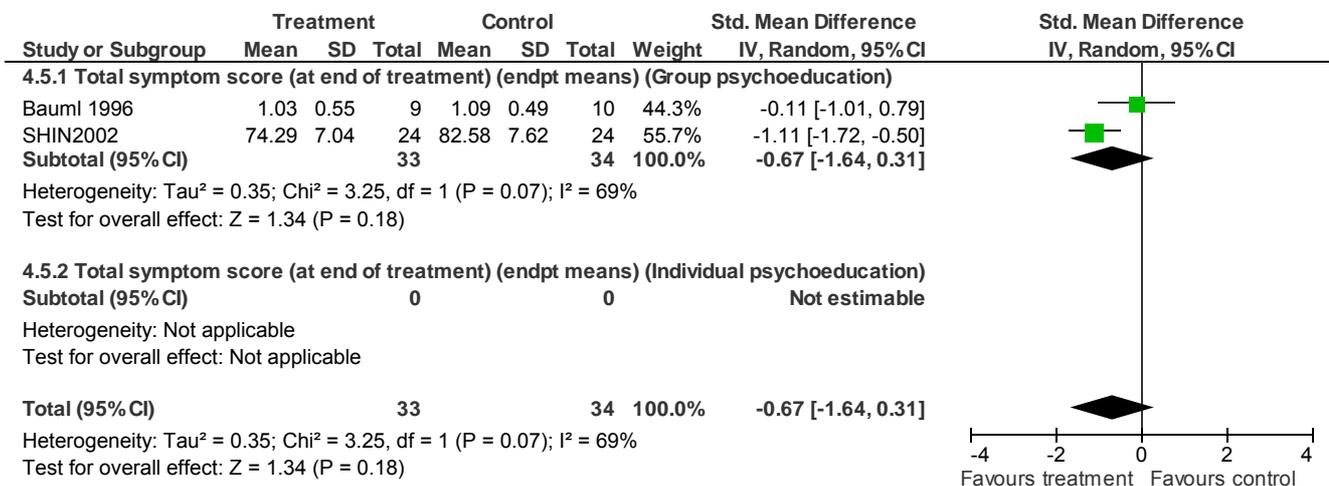


Psychological clinical evidence: Psychoeducation (subgroup analyses)

4.4 Global state: 2. Continuous measures - GAF (signs reversed) (at FU)

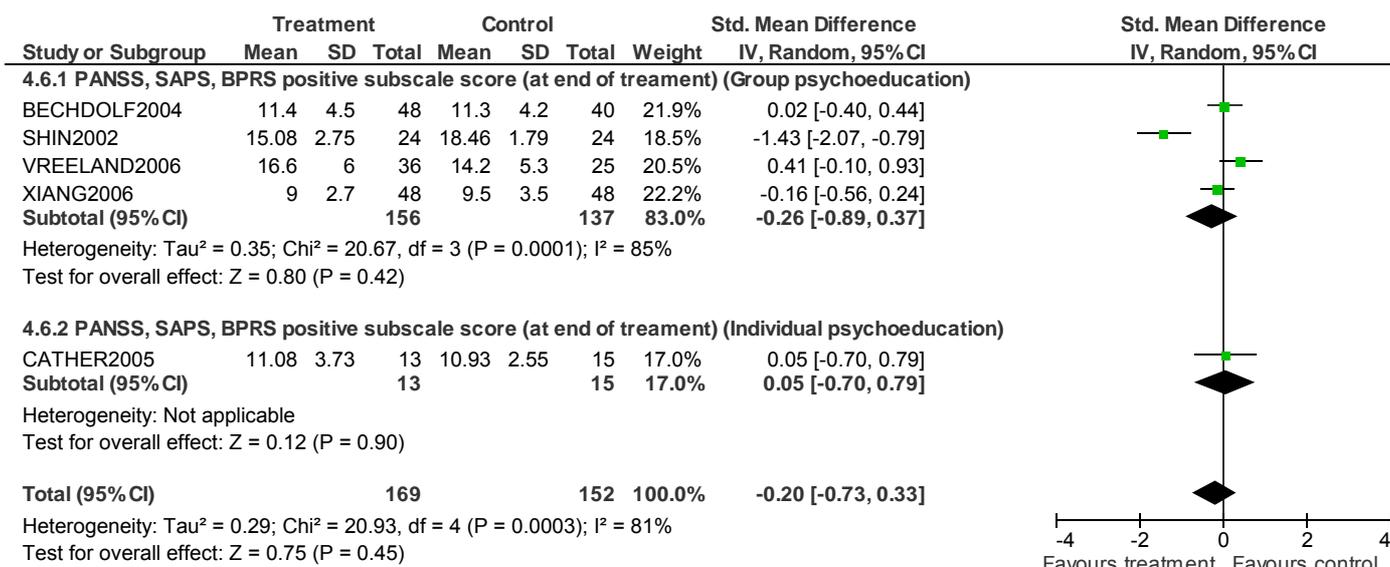


4.5 Mental state: 1. Continuous measures - total symptom score, BPRS, PANSS (lower = better) (at end of treatment)

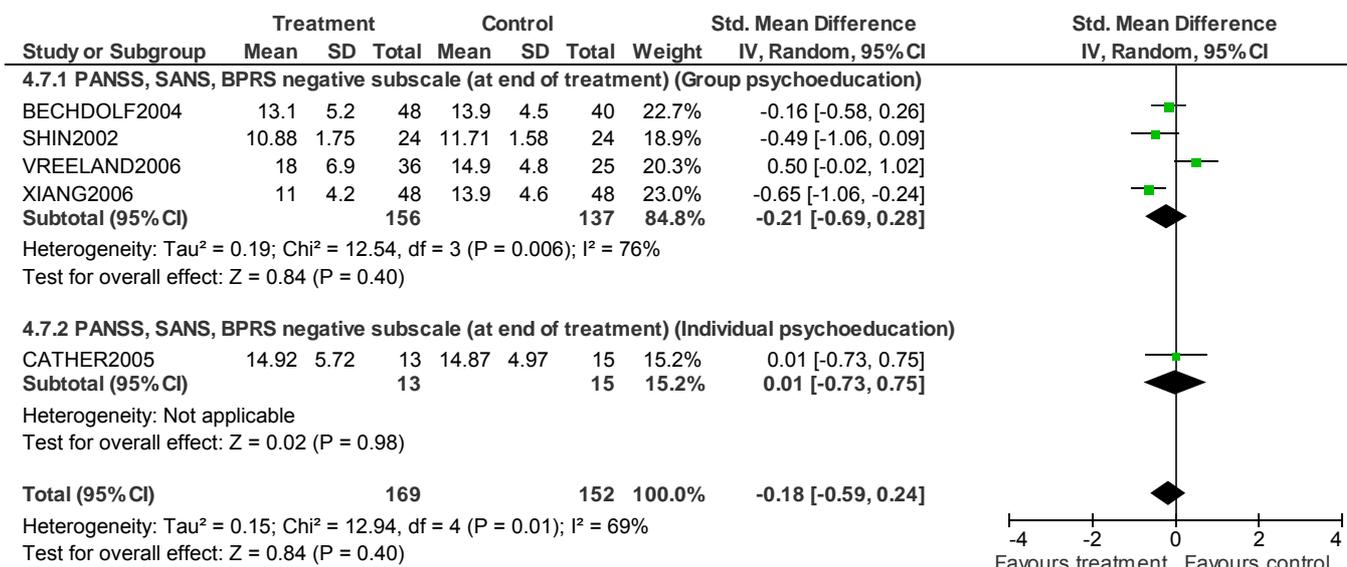


Psychological clinical evidence: Psychoeducation (subgroup analyses)

4.6 Mental state: 2. Continuous measures - positive symptoms (PANSS, SAPS) (at end of treatment)

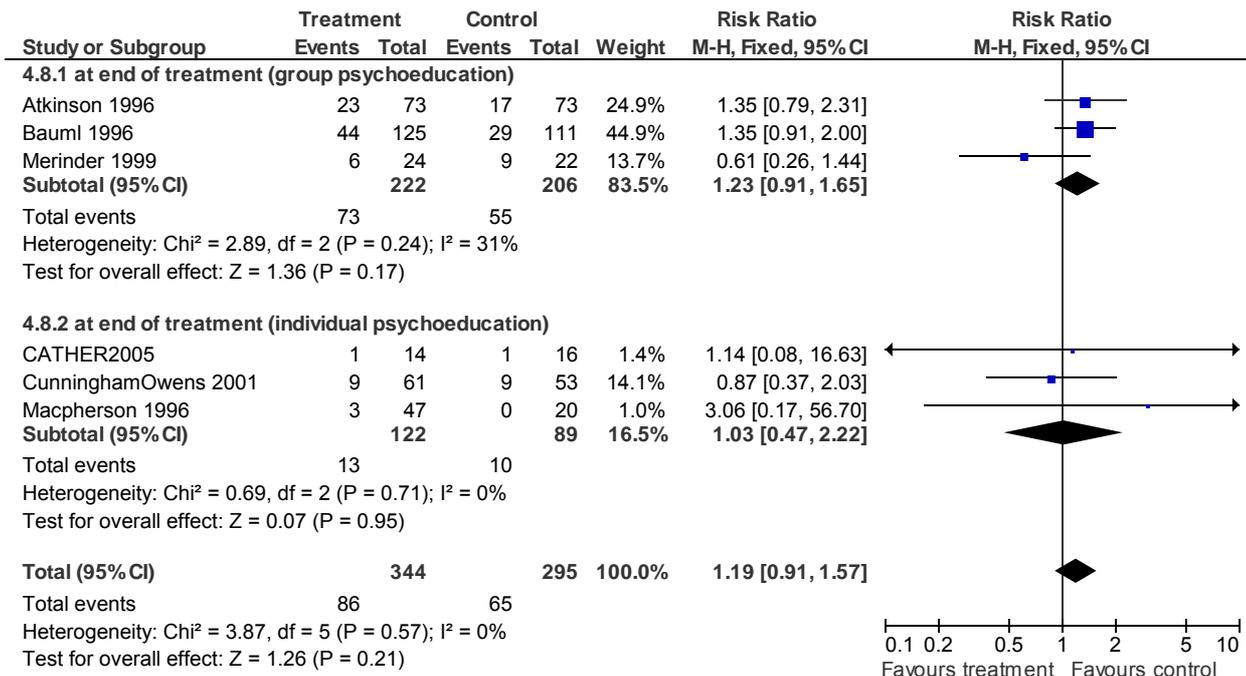


4.7 Mental state: 3. Continuous measures - negative symptoms (PANSS, SANS) (at end of treatment)



Psychological clinical evidence: Psychoeducation (subgroup analyses)

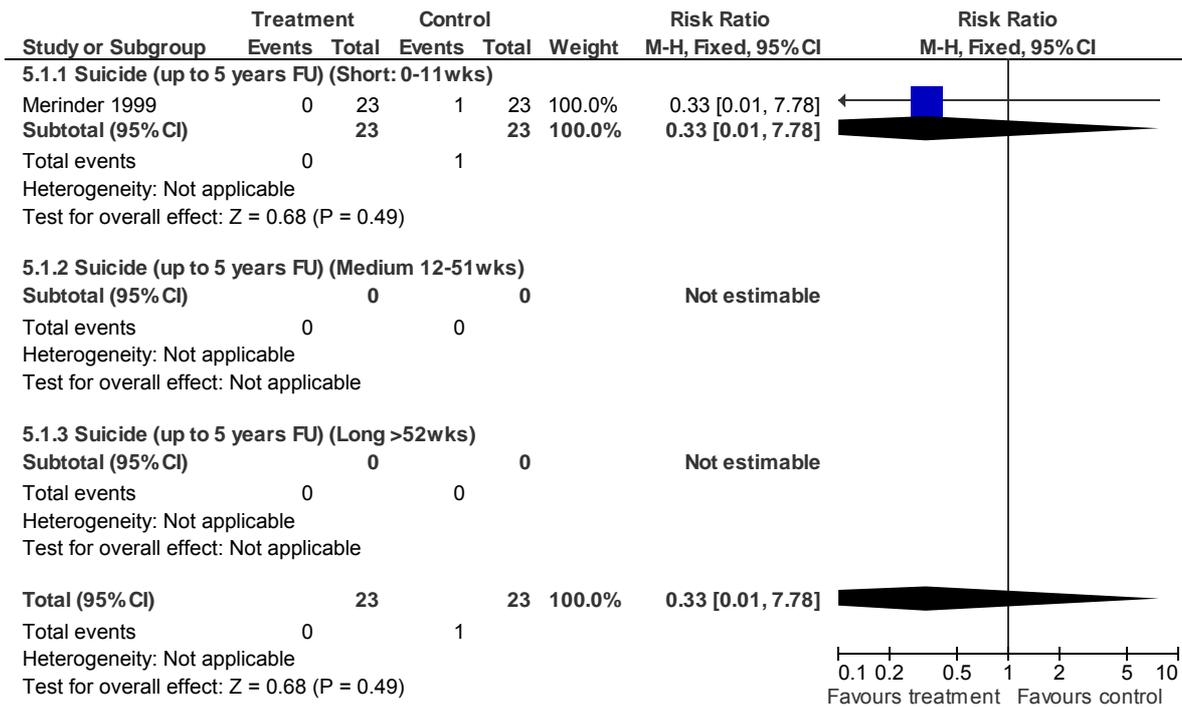
4.8 Leaving the study early (at end of treatment)



5 Psychoeducation versus any control - subgroup analysis by duration

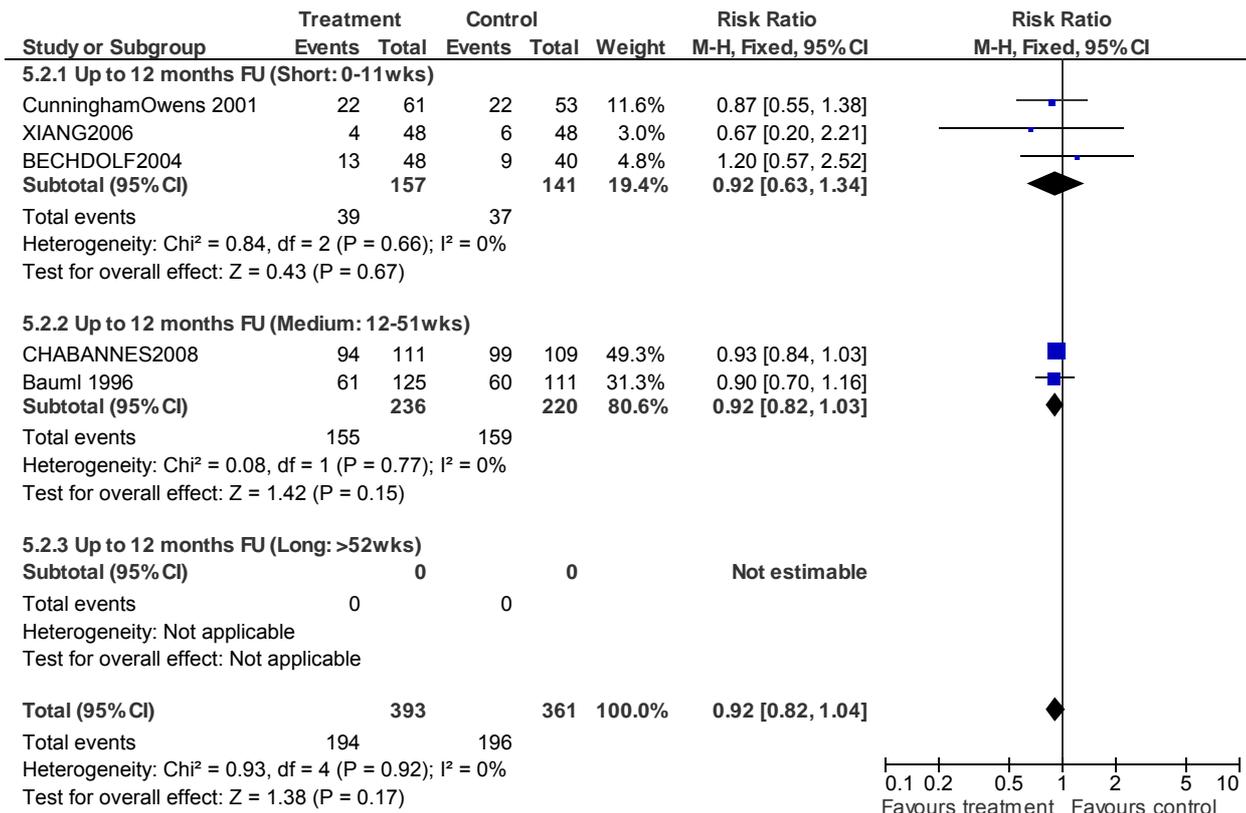
Psychological clinical evidence: Psychoeducation (subgroup analyses)

5.1 Mortality (at FU)



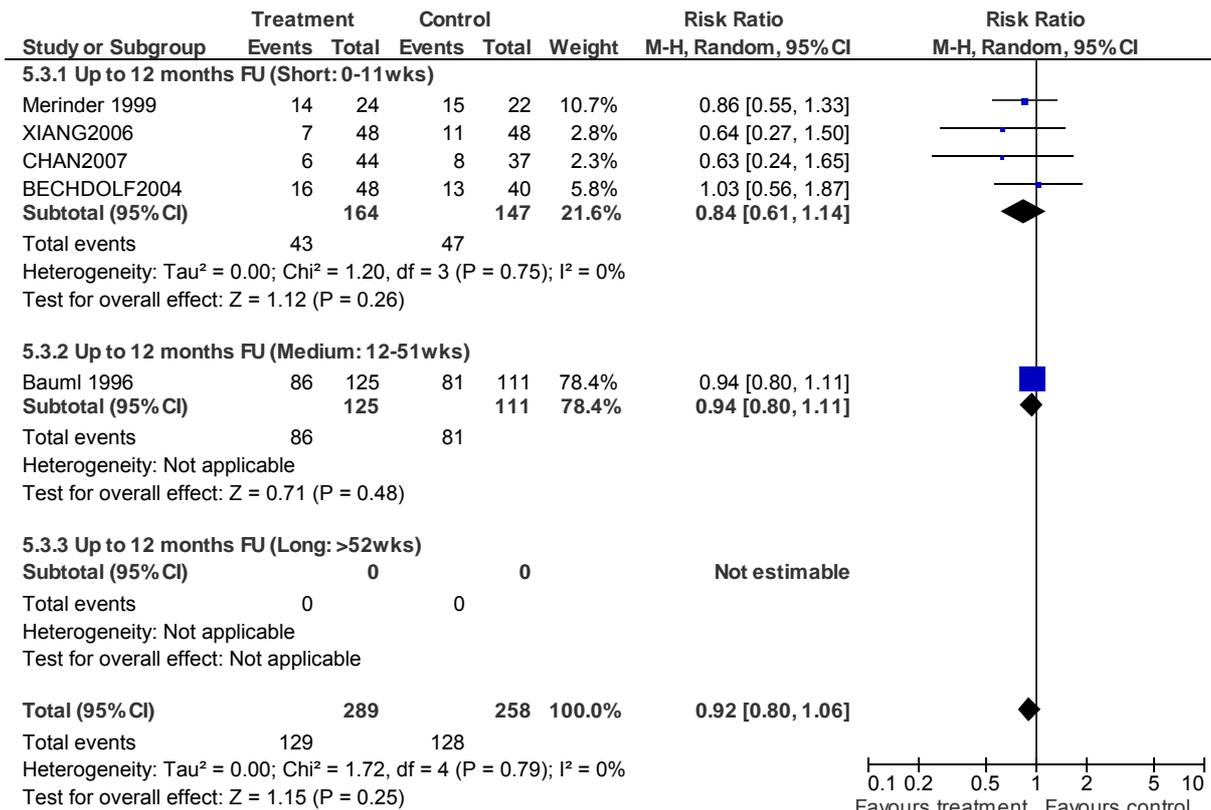
Psychological clinical evidence: Psychoeducation (subgroup analyses)

5.2 Service Outcome: 1. Rehospitalisation (at FU)



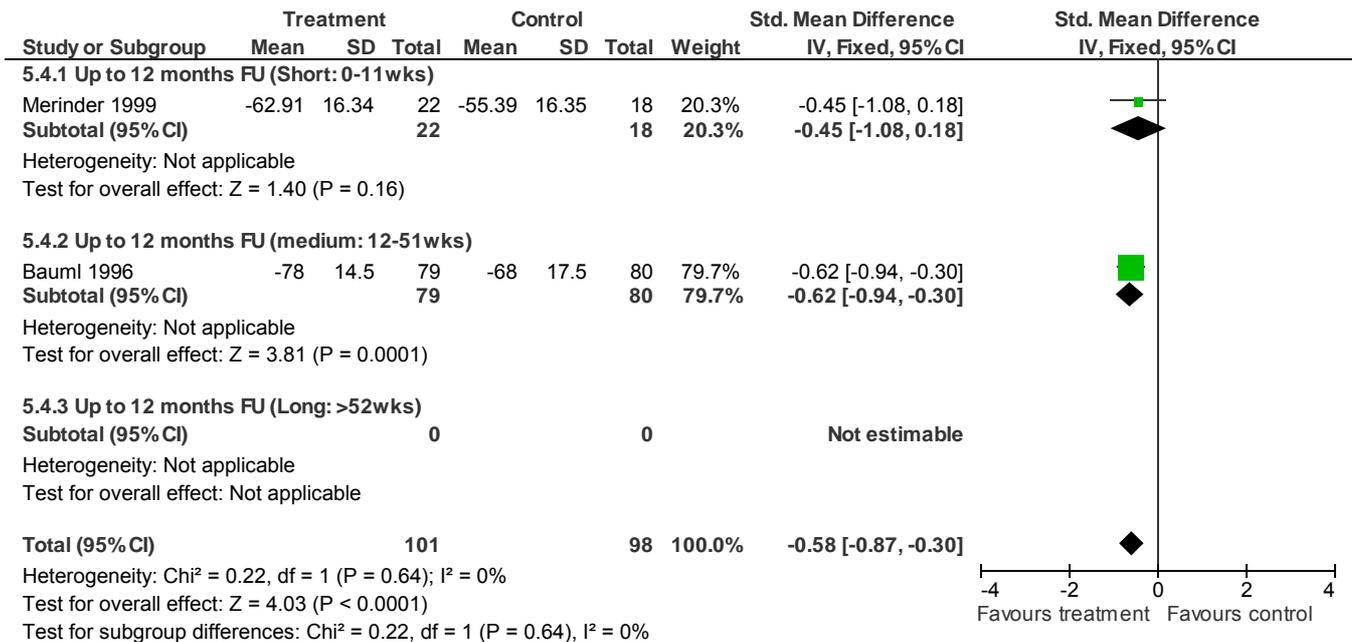
Psychological clinical evidence: Psychoeducation (subgroup analyses)

5.3 Global state: 1. Relapse (at FU)

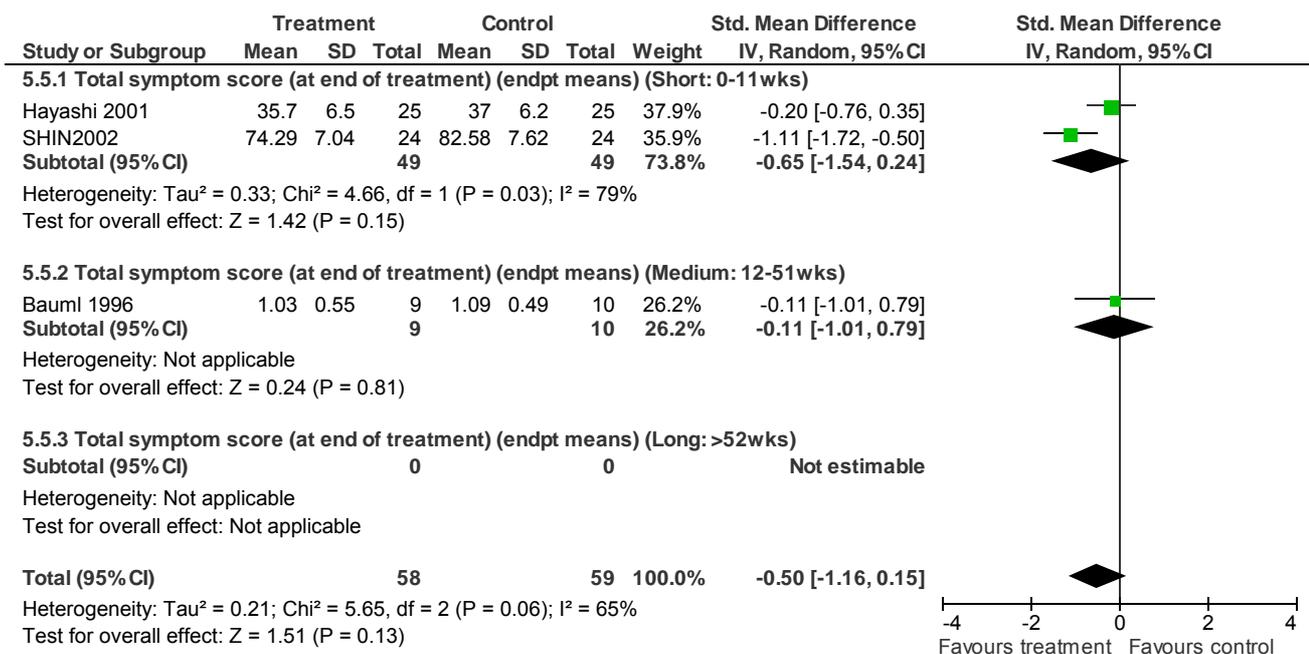


Psychological clinical evidence: Psychoeducation (subgroup analyses)

5.4 Global state: 2. Continuous measures - GAF (signs reversed) (at FU)

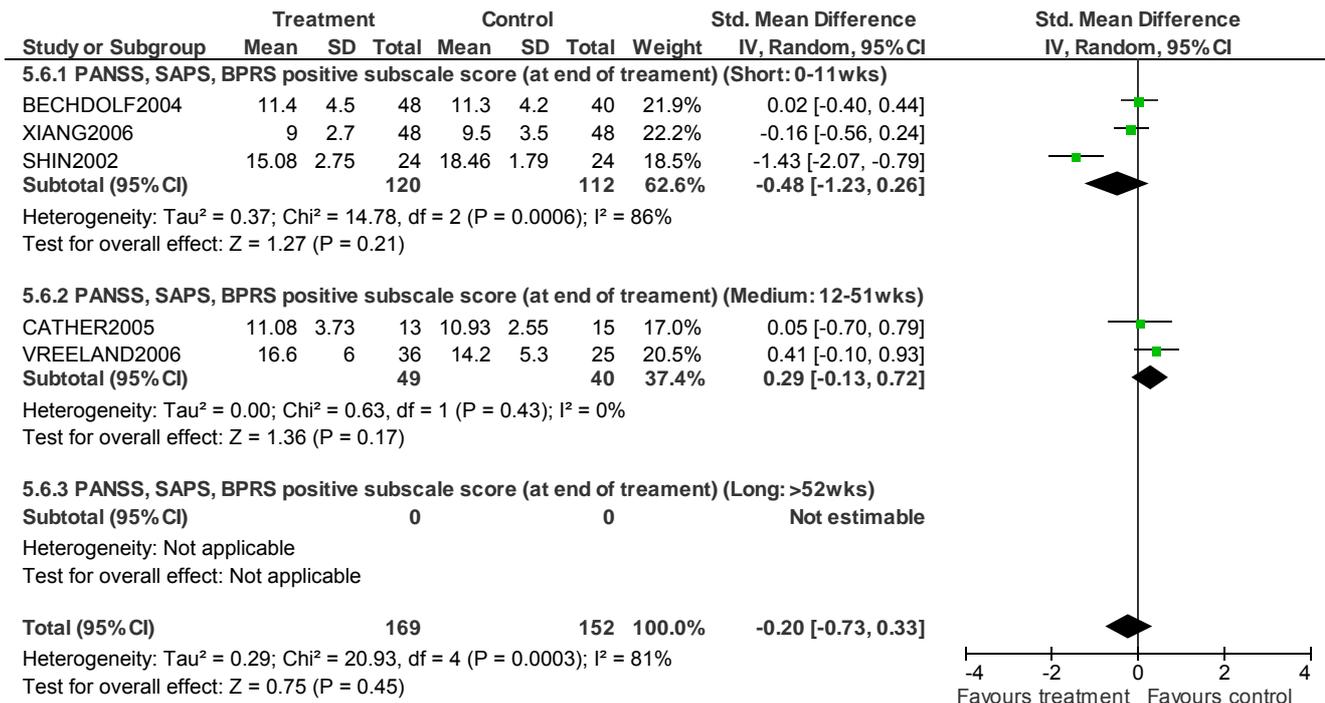


5.5 Mental state: 1. Continuous measures - total symptom score, BPRS, PANSS (lower = better) (at end of treatment)



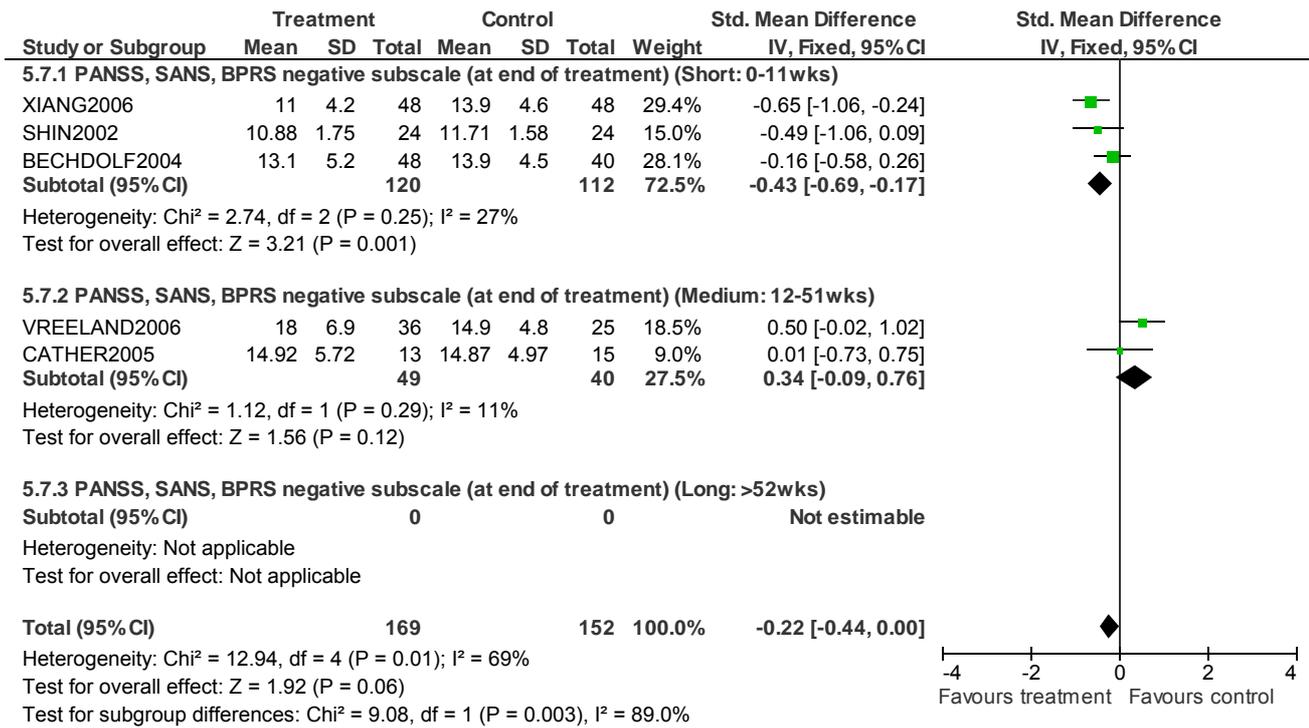
Psychological clinical evidence: Psychoeducation (subgroup analyses)

5.6 Mental state: 2. Continuous measures - positive symptoms (PANSS, SAPS) (at end of treatment)



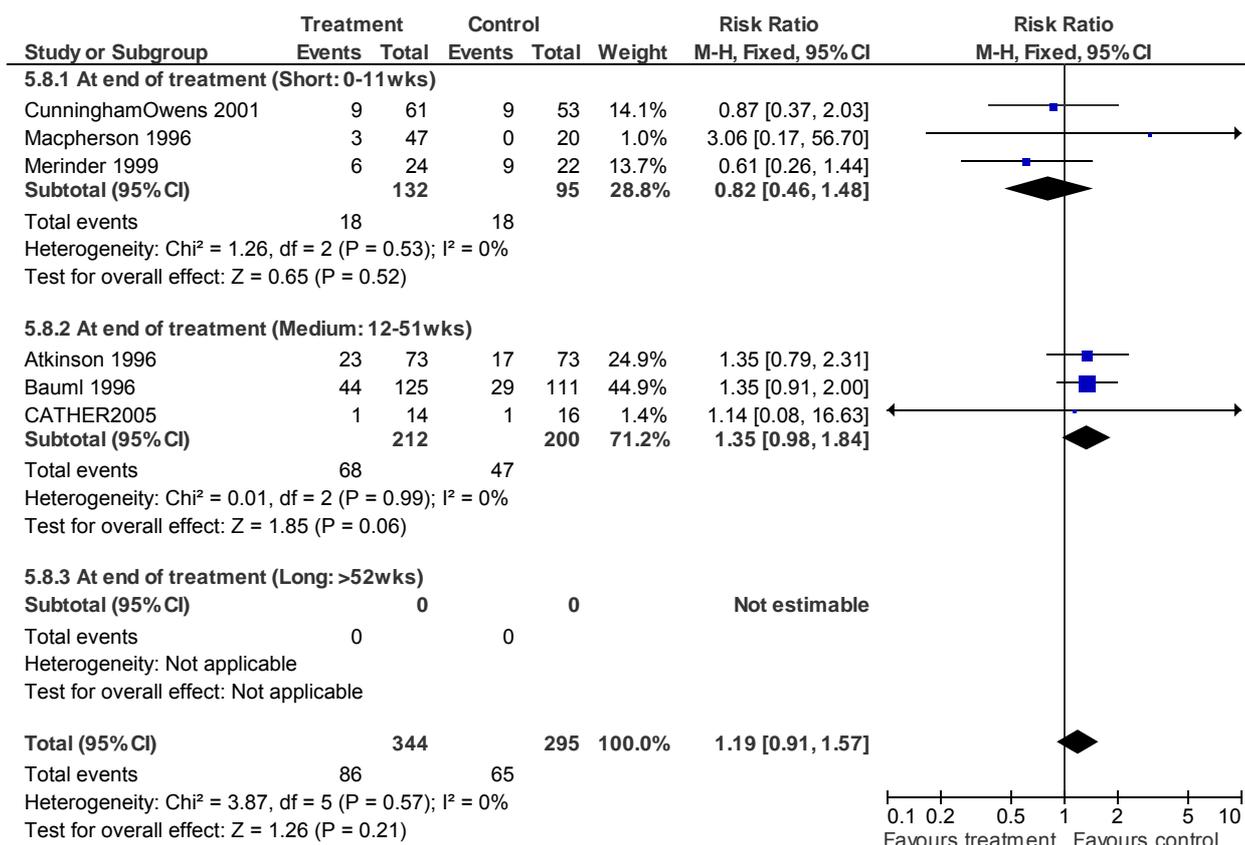
Psychological clinical evidence: Psychoeducation (subgroup analyses)

5.7 Mental state: 3. Continuous measures - negative symptoms (PANSS, SANS) (at end of treatment)



Psychological clinical evidence: Psychoeducation (subgroup analyses)

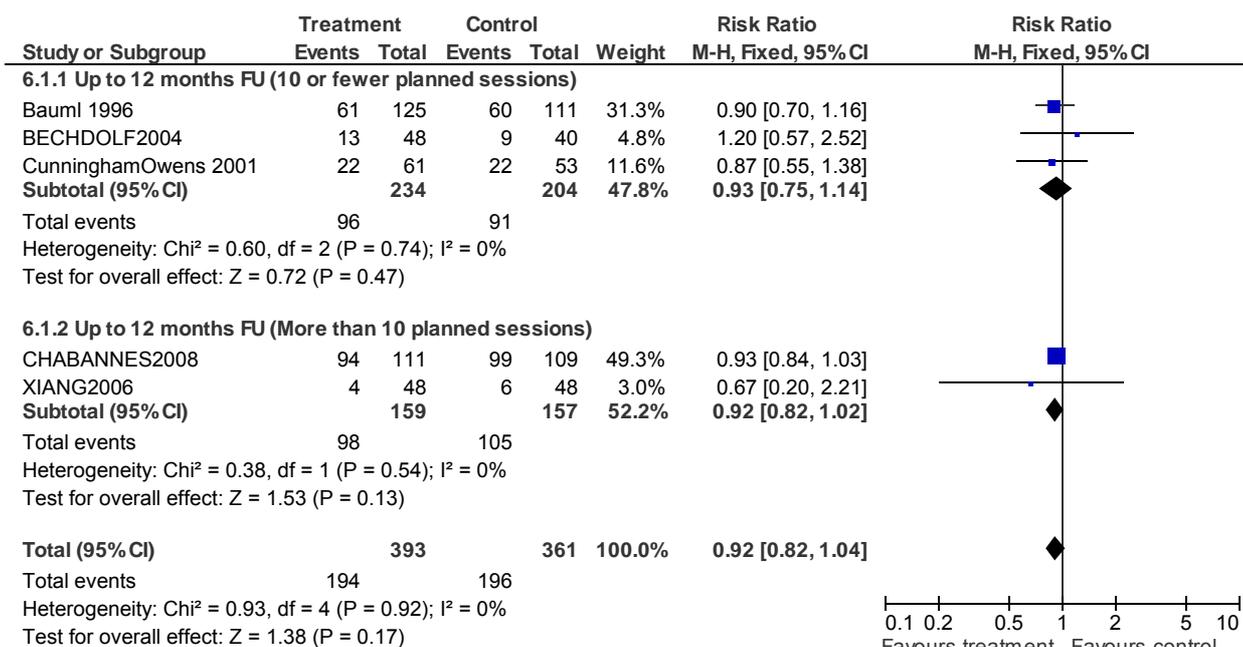
5.8 Leaving the study early (at end of treatment)



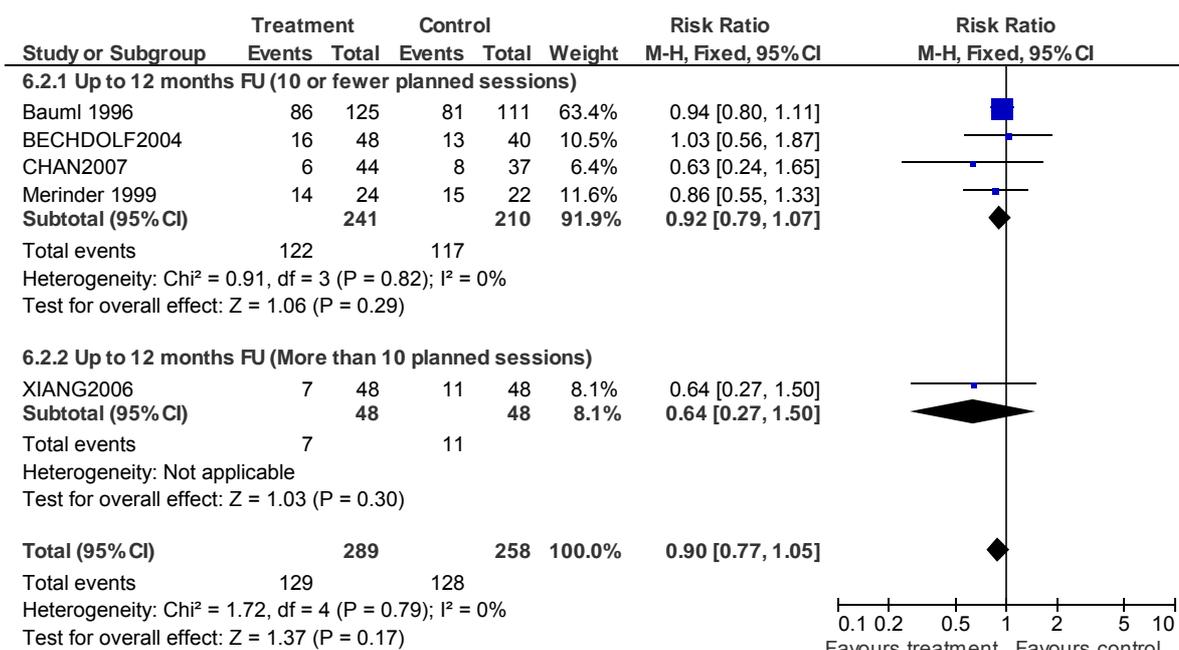
6 Psychoeducation versus any control - subgroup analysis by number of sessions

Psychological clinical evidence: Psychoeducation (subgroup analyses)

6.1 Service outcome: 1. Rehospitalisation (at FU)

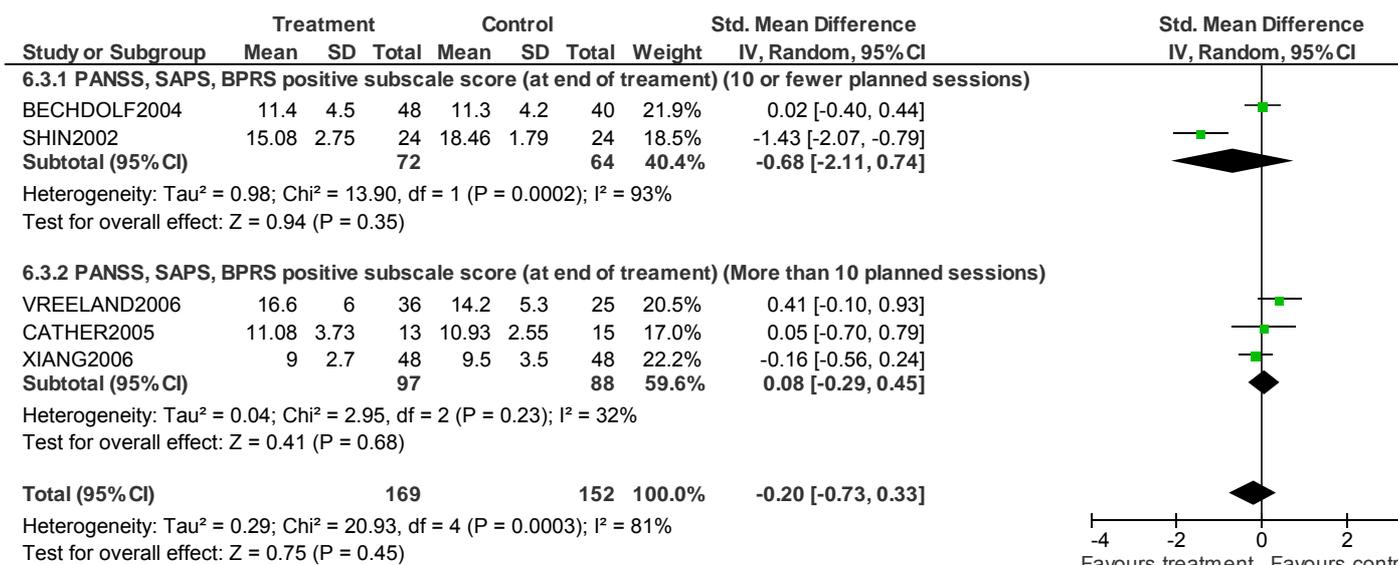


6.2 Global state: 2. Relapse (at FU)

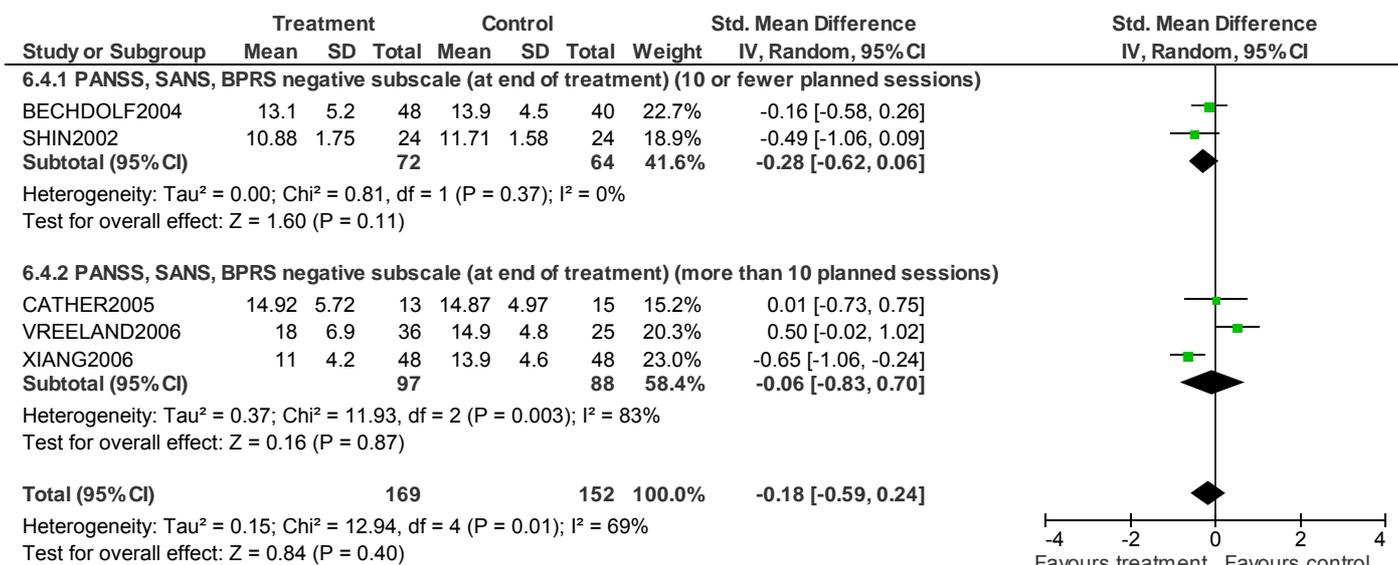


Psychological clinical evidence: Psychoeducation (subgroup analyses)

6.3 Mental state: 1. Continuous measures - positive symptom score (PANSS, SAPS) (at end of treatment)

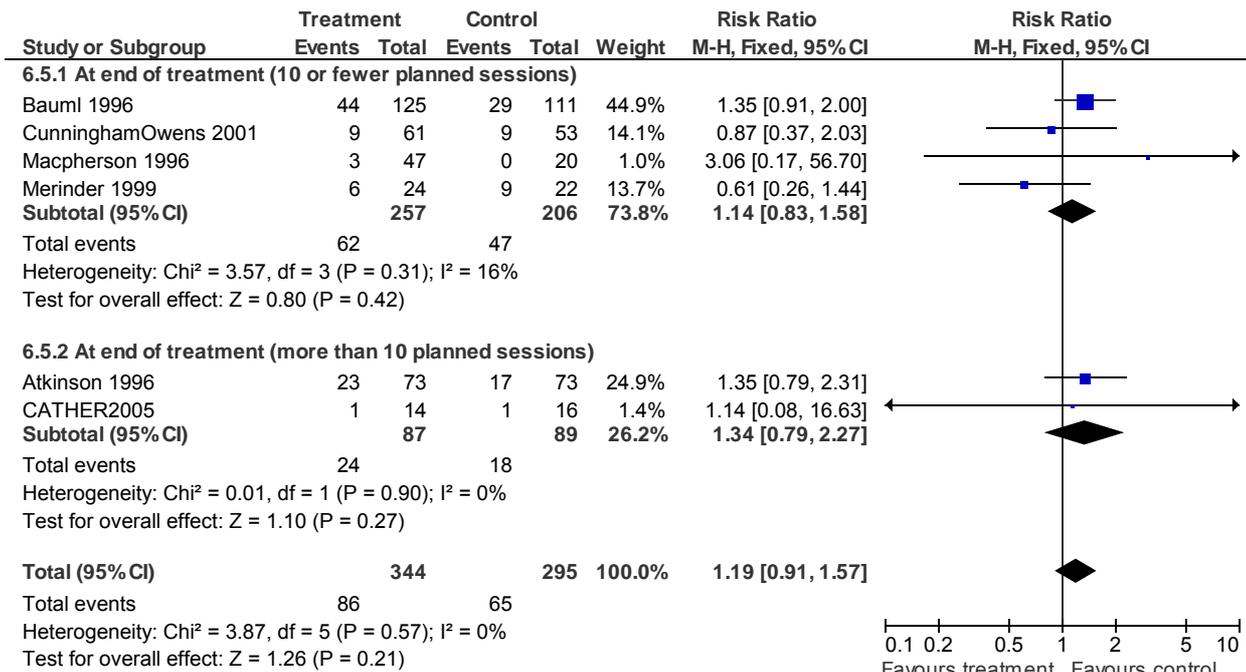


6.4 Mental state: 2. Continuous measures - Negative symptom score (PANSS, SANS) (at end of treatment)



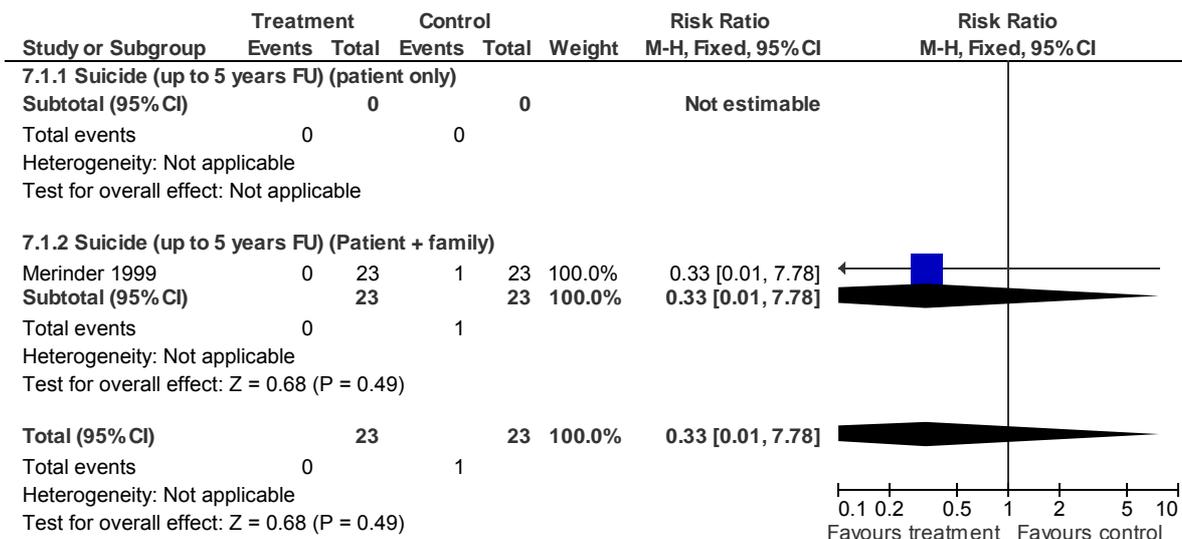
Psychological clinical evidence: Psychoeducation (subgroup analyses)

6.5 Leaving the study early (at end of treatment)



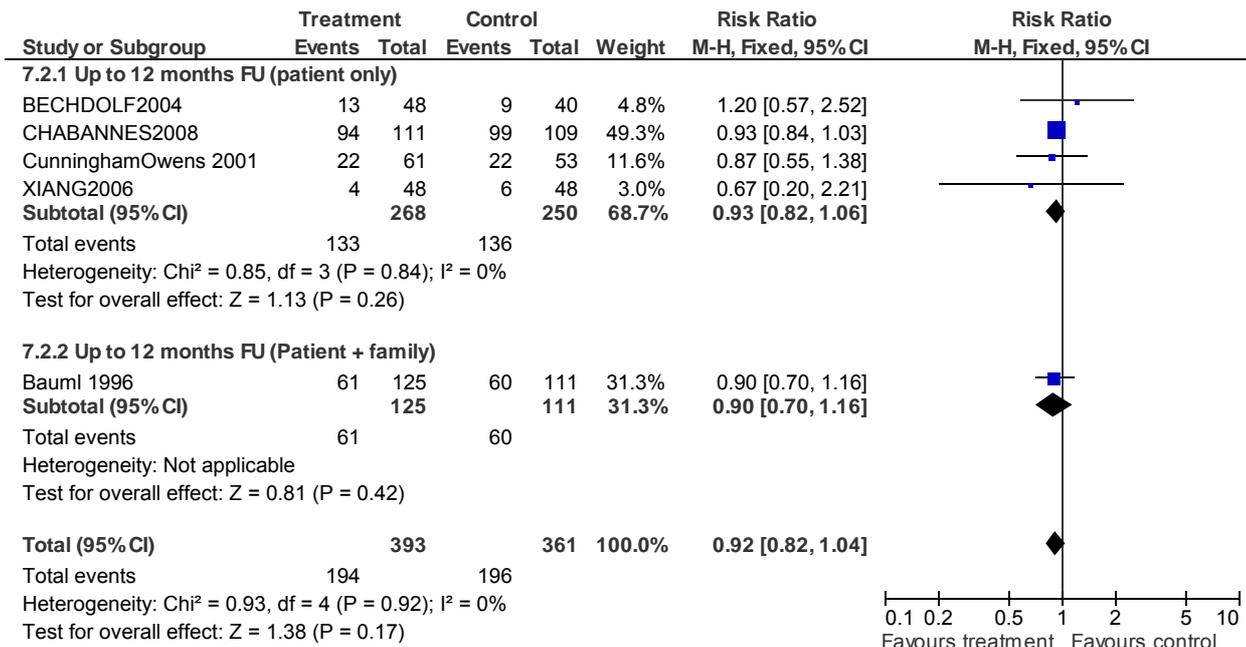
7 Psychoeducation versus any control - subgroup analysis by carer participation

7.1 Mortality (at FU)

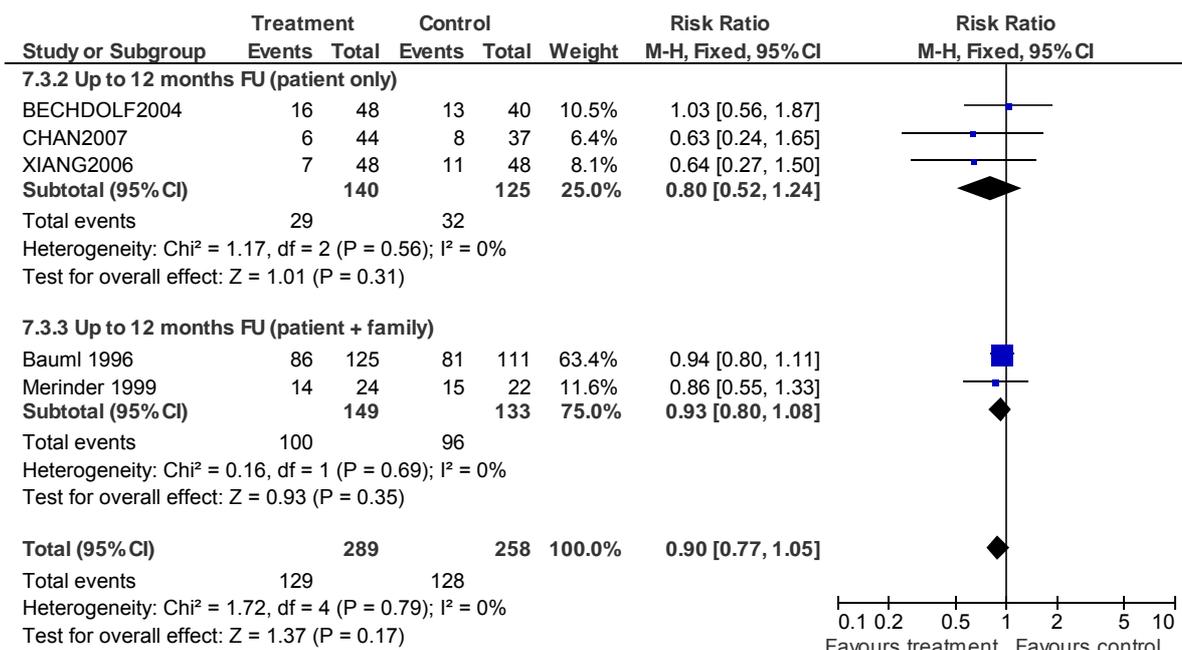


Psychological clinical evidence: Psychoeducation (subgroup analyses)

7.2 Service Outcome: 1. Rehospitalisation (at FU)

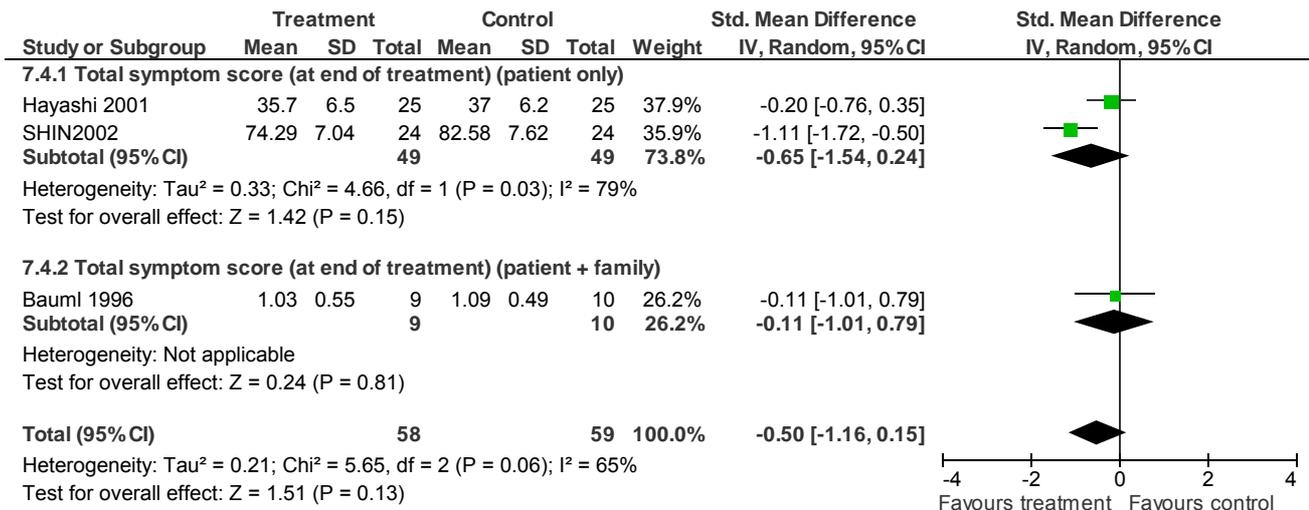


7.3 Global state: 1. Relapse (at FU)



Psychological clinical evidence: Psychoeducation (subgroup analyses)

7.4 Mental state: 1. Continuous measures - total symptom score, BPRS, PANSS (lower = better)



7.5 Leaving the study early (at end of treatment)

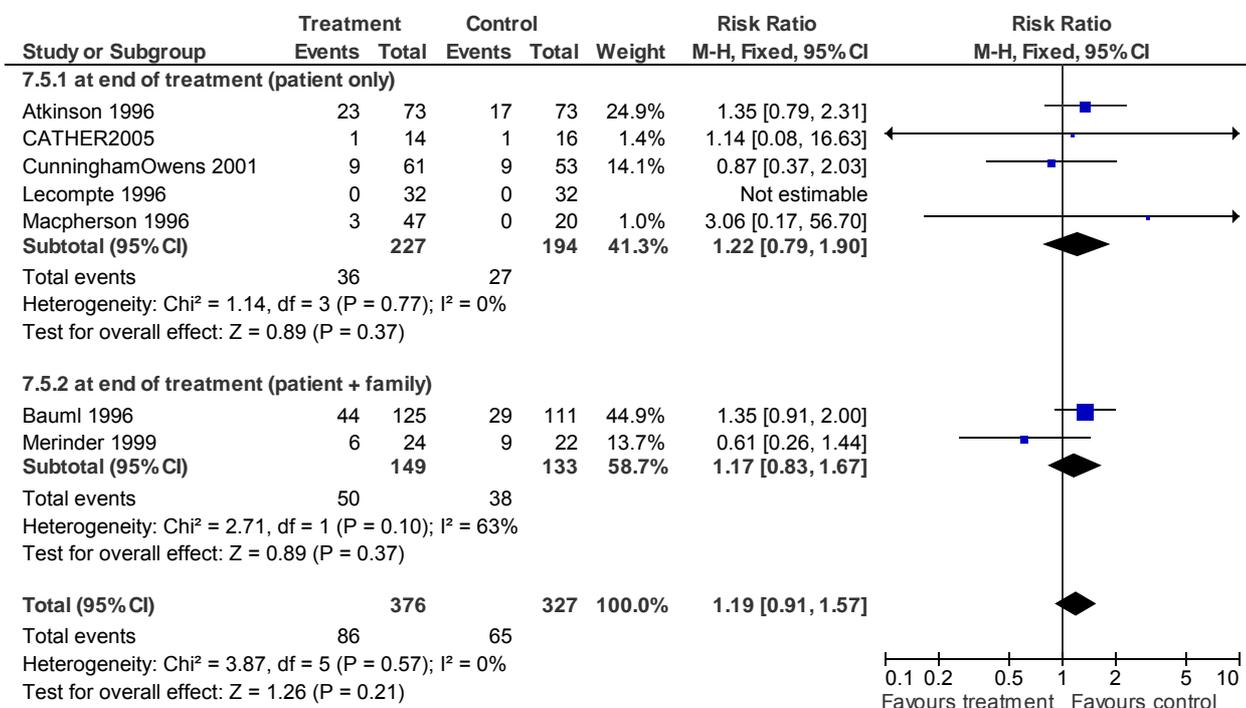


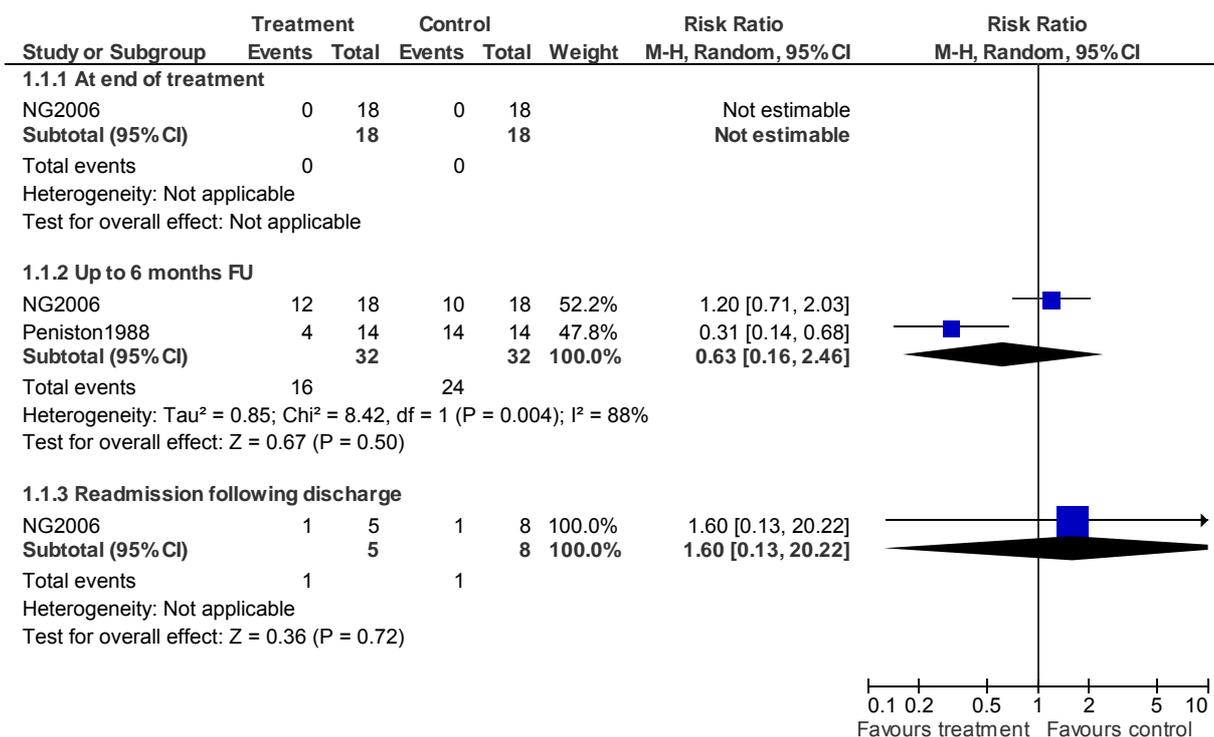
Table 9: Studies included in the Social skills training review

Intervention	versus Comparator
	Any control
Social skills training	Bellack1994 BROWN1983 CHIEN2003 CHOI2006 Daniels1998 Dobson1995 Eckmann1992 GRANHOLM2005 * Hayes1995 Lieberman1998 Lukoff1986 * Marder1996 NG2007 PATTERSON2003 PATTERSON206 PINTO1999 * Peniston1988 RONCONE2004 UCOK2006 VALENCIA2007 *
	Standard care
Social skills training	Bellack1984 CHIEN2003 CHOI2006 Daniels1998 GRANHOLM2005 PATTERSON2003 Peniston1988 RONCONE2004 UCOK2006 VALENCIA2007
	Other active treatments
Social skills training	BROWN1983 Dobson1995 Eckmann1992 Hayes1995 Lieberman1998 Lukoff1986 Marder1996 NG2007 PATTERSON2006 PINTO1999

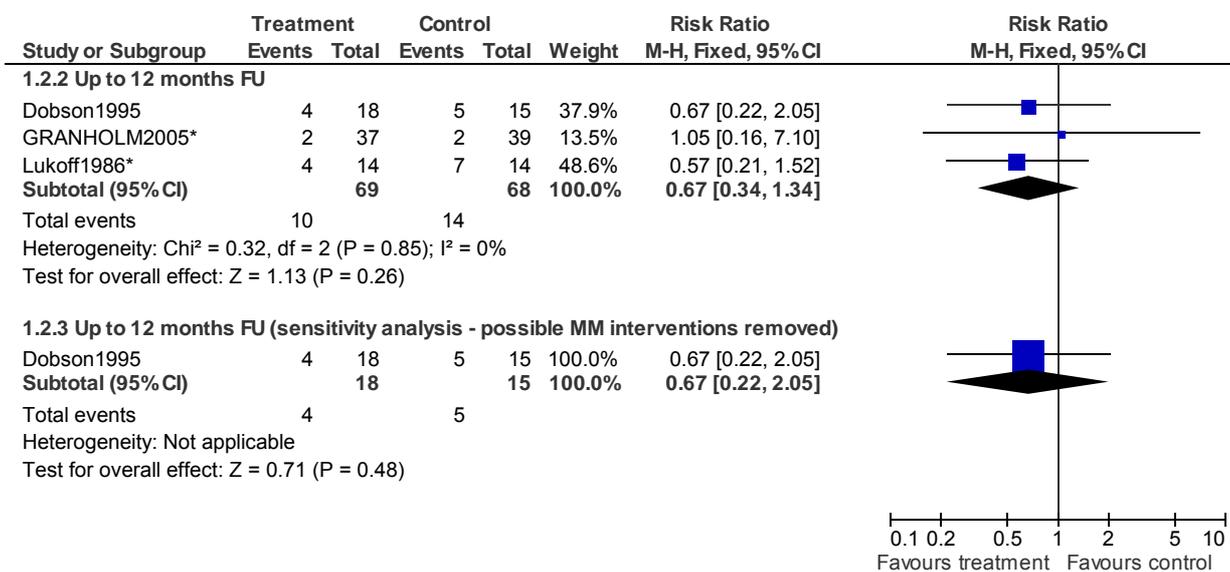
Psychological clinical evidence: Social skills training

1 Social skills training versus any control

1.1 Service Outcome: 1. Unable to be discharged from hospitalisation

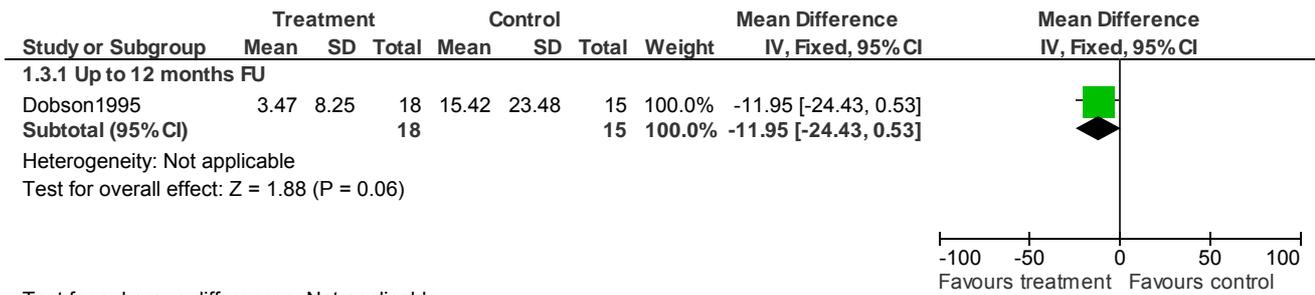


1.2 Service Outcome: 2. Rehospitalisation

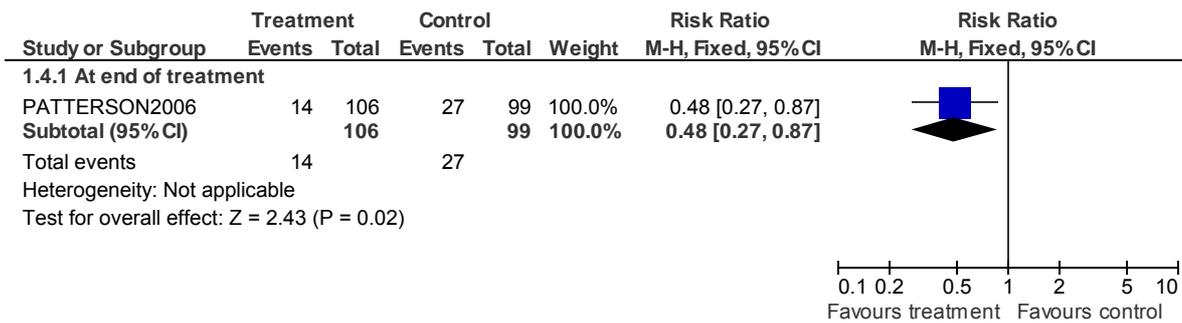


Psychological clinical evidence: Social skills training

1.3 Service Outcome: 3. Mean duration of re-hospitalisation

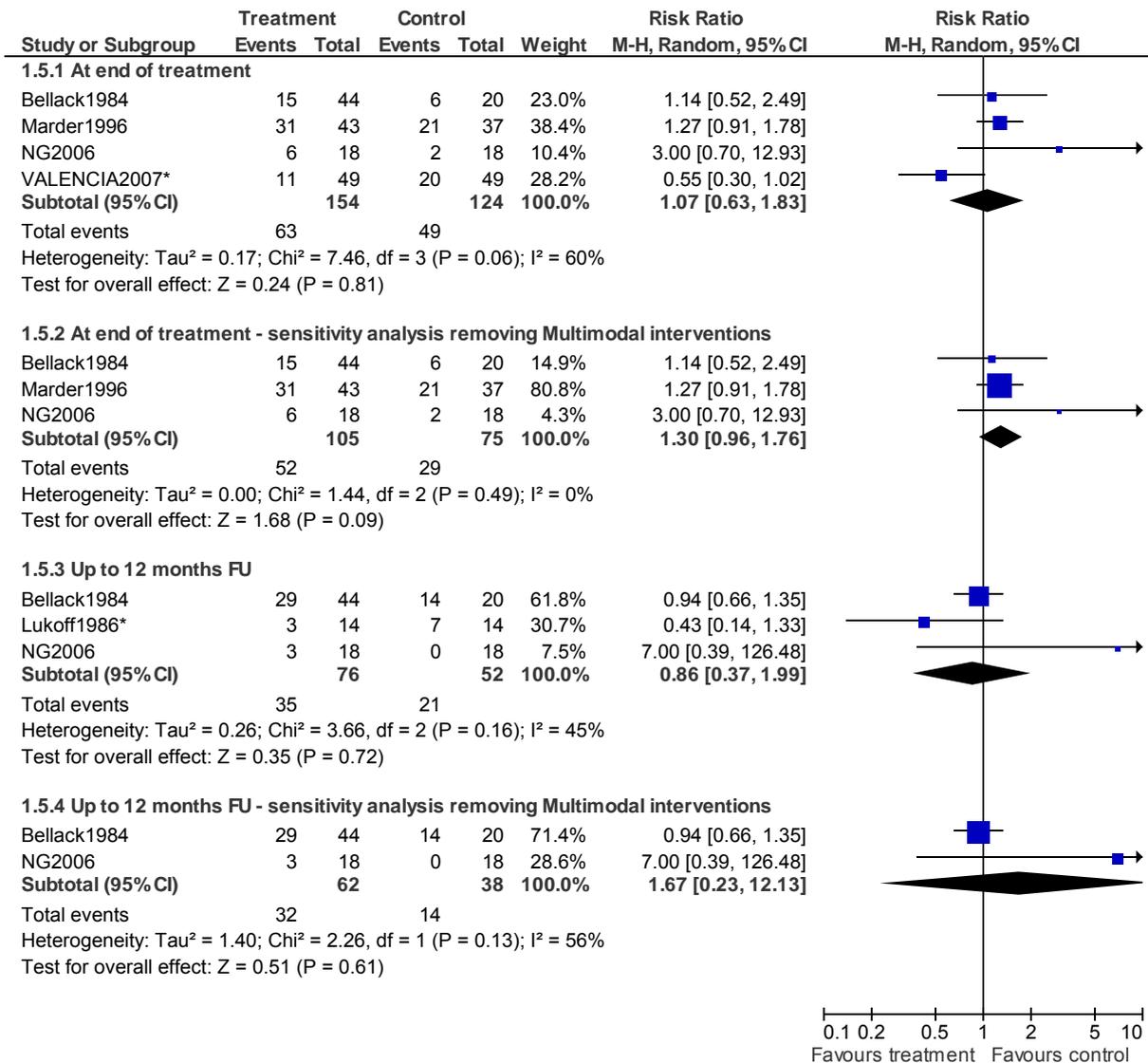


1.4 Service Outcome: 4. Emergency service use



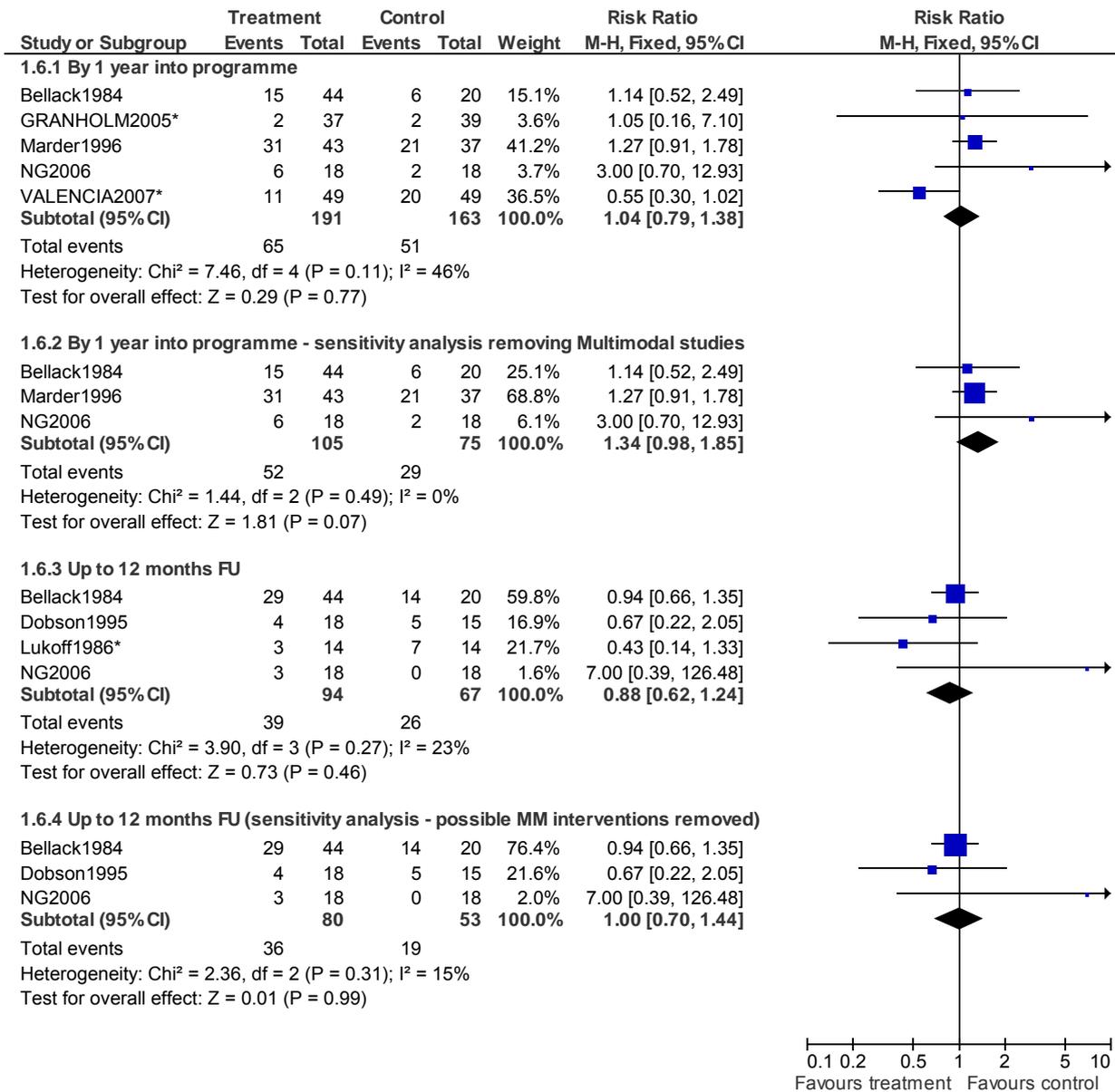
Psychological clinical evidence: Social skills training

1.5 Global state: 1. Relapse

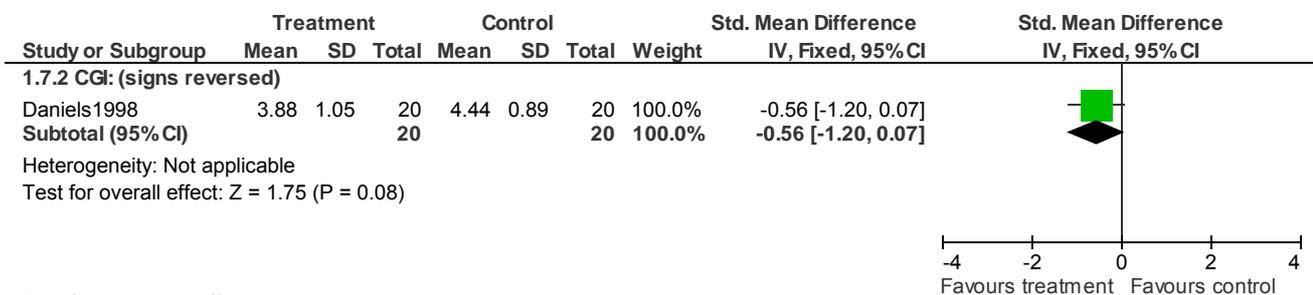


Psychological clinical evidence: Social skills training

1.6 Global state: 2. Relapse and Readmission (combined)

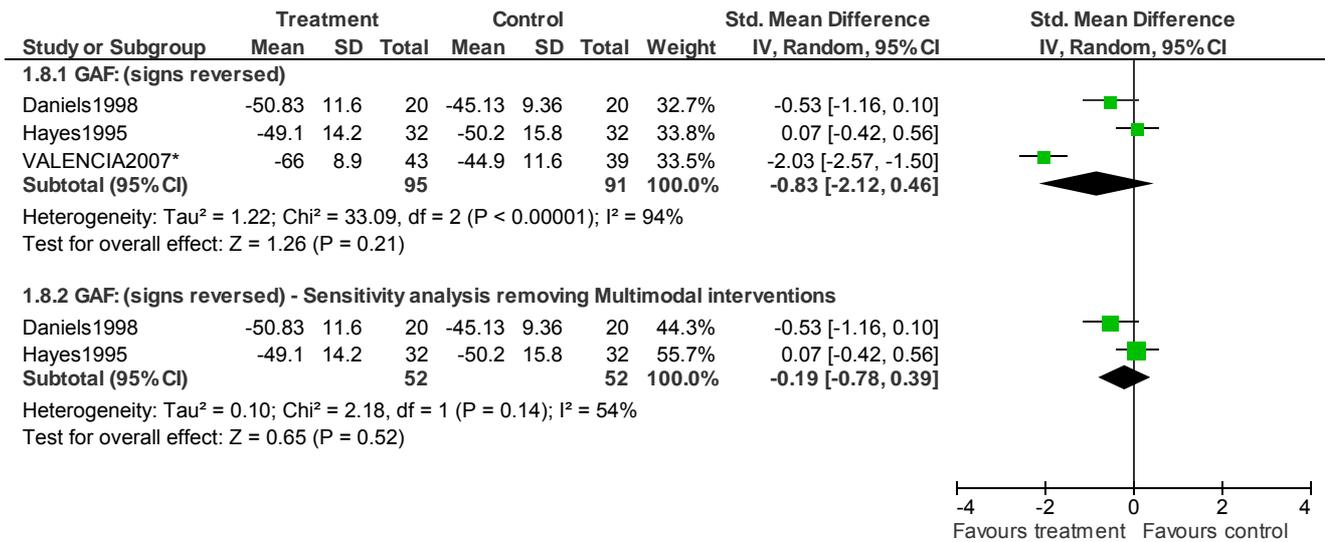


1.7 Global state: 3. CGI - at end of treatment (8 weeks)



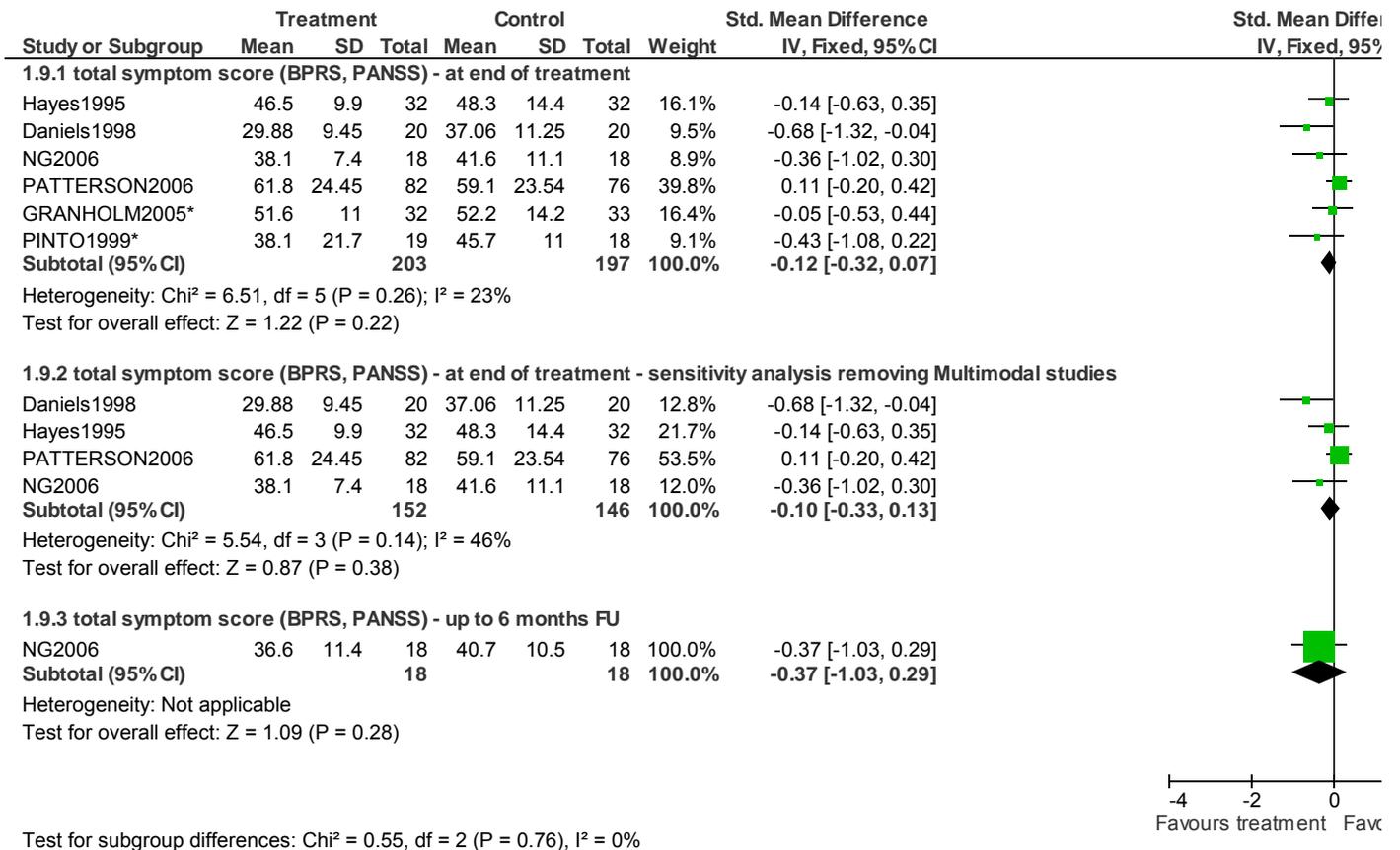
Psychological clinical evidence: Social skills training

1.8 Global state: 4. GAF - at end of treatment (8 weeks)



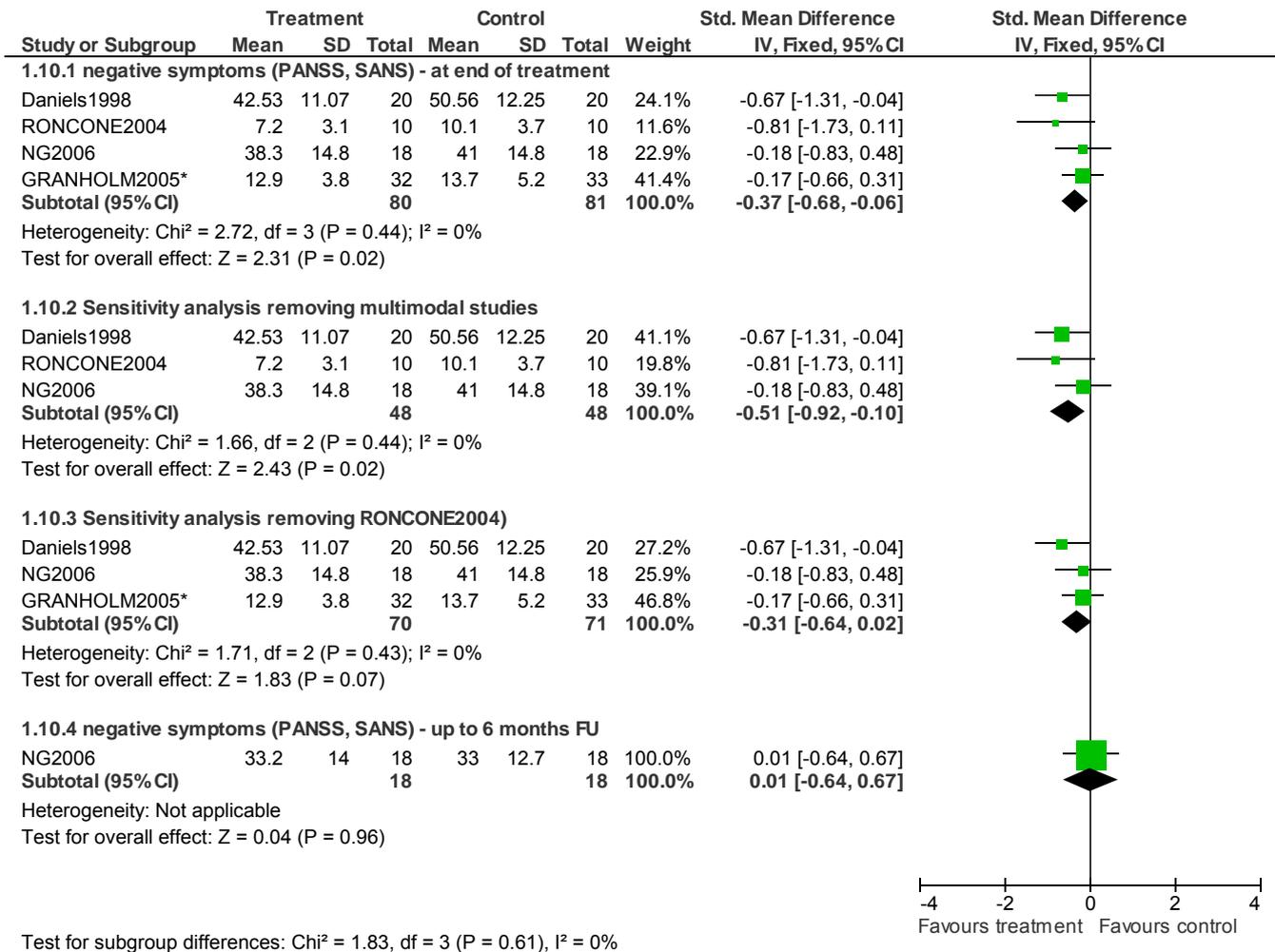
Psychological clinical evidence: Social skills training

1.9 Mental state: 1. Continuous measures - total symptom score (lower = better)



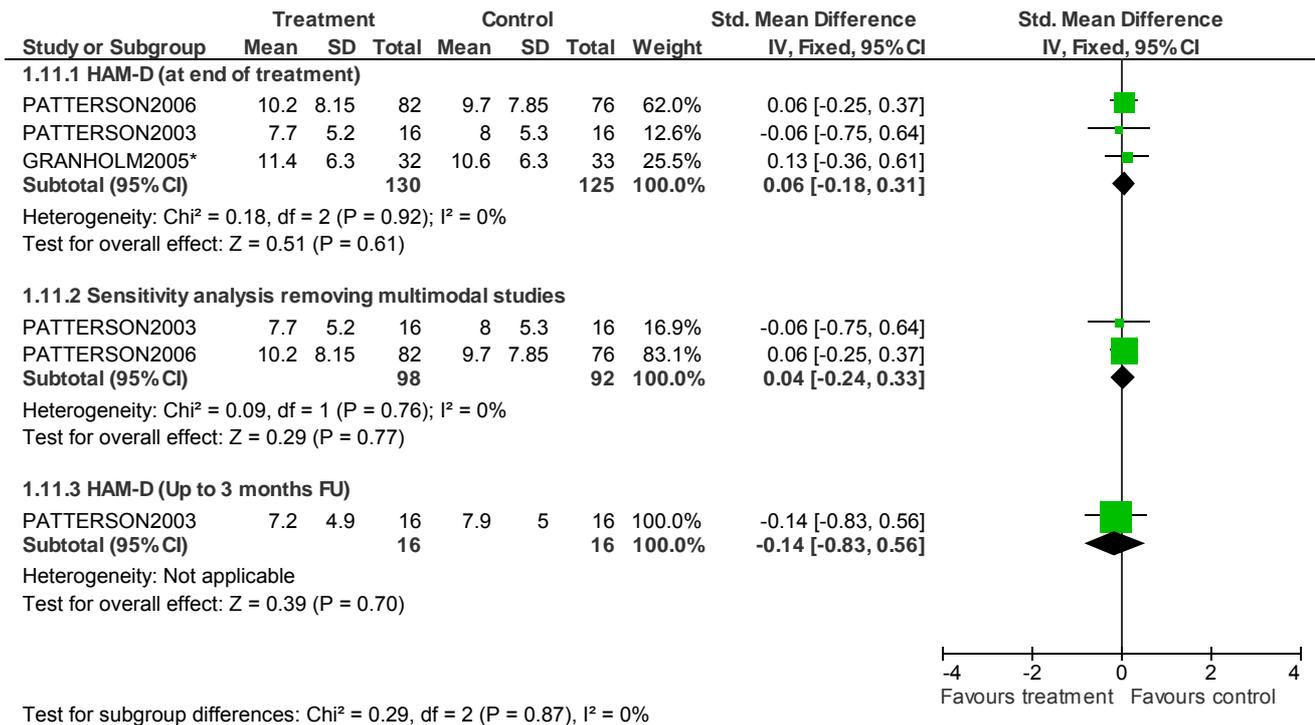
Psychological clinical evidence: Social skills training

1.10 Mental state: 2. Continuous measures - negative symptoms (lower = better)

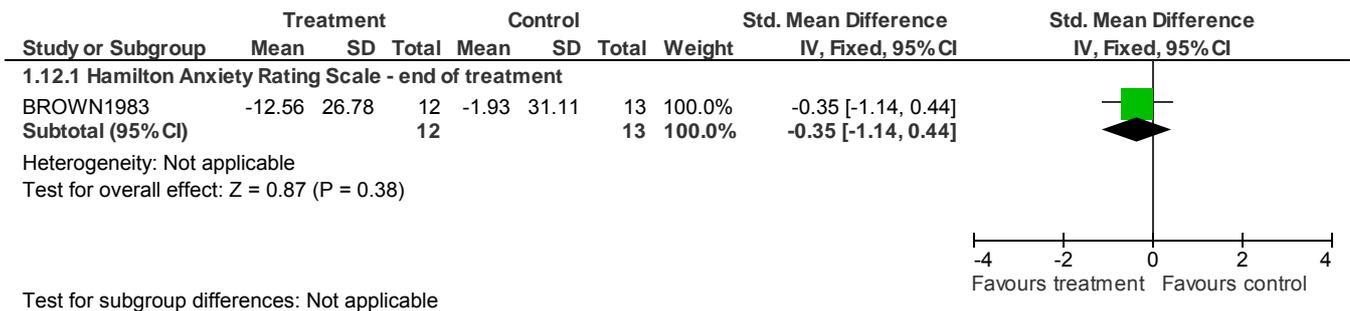


Psychological clinical evidence: Social skills training

1.11 Mental state: 3. Depression - Hamilton Depression Rating scale (lower = better)

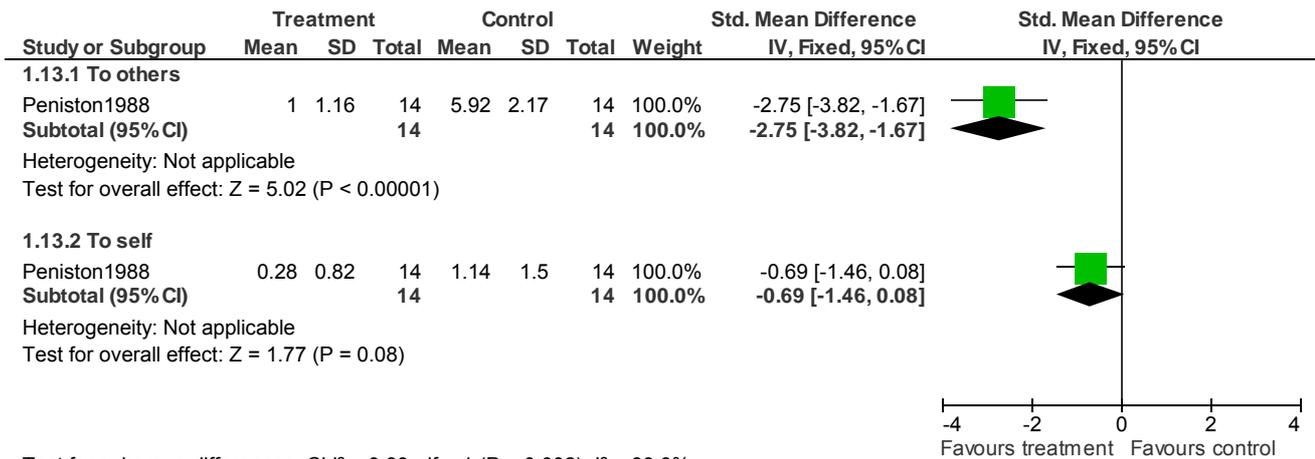


1.12 Mental state: 4: Anxiety - Social anxiety rating scale

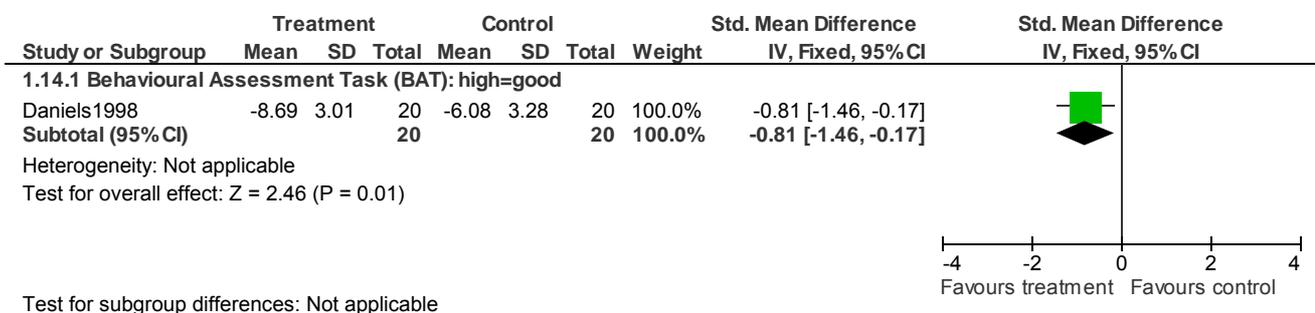


Psychological clinical evidence: Social skills training

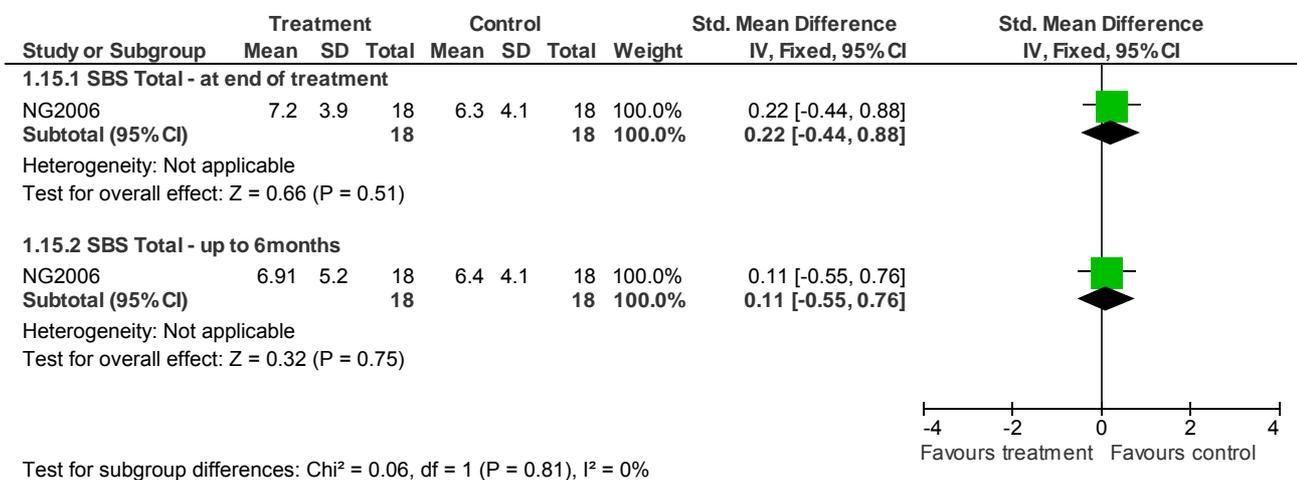
1.13 Psychosocial functioning: 1. Harm



1.14 Psychosocial functioning: 2. BAT

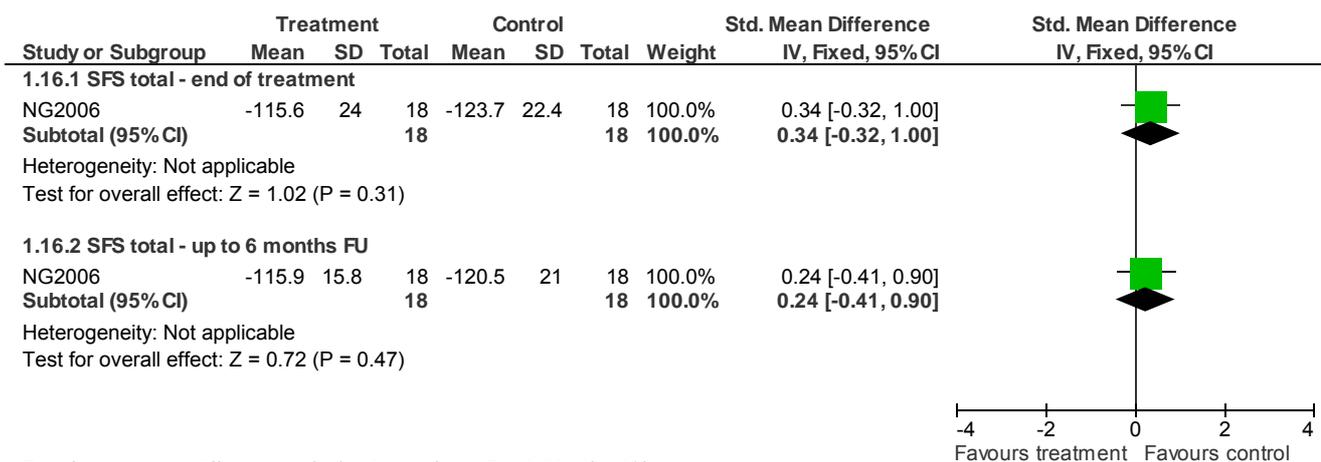


1.15 Psychosocial functioning: 3. Social Behaviour Schedule (lower = better)

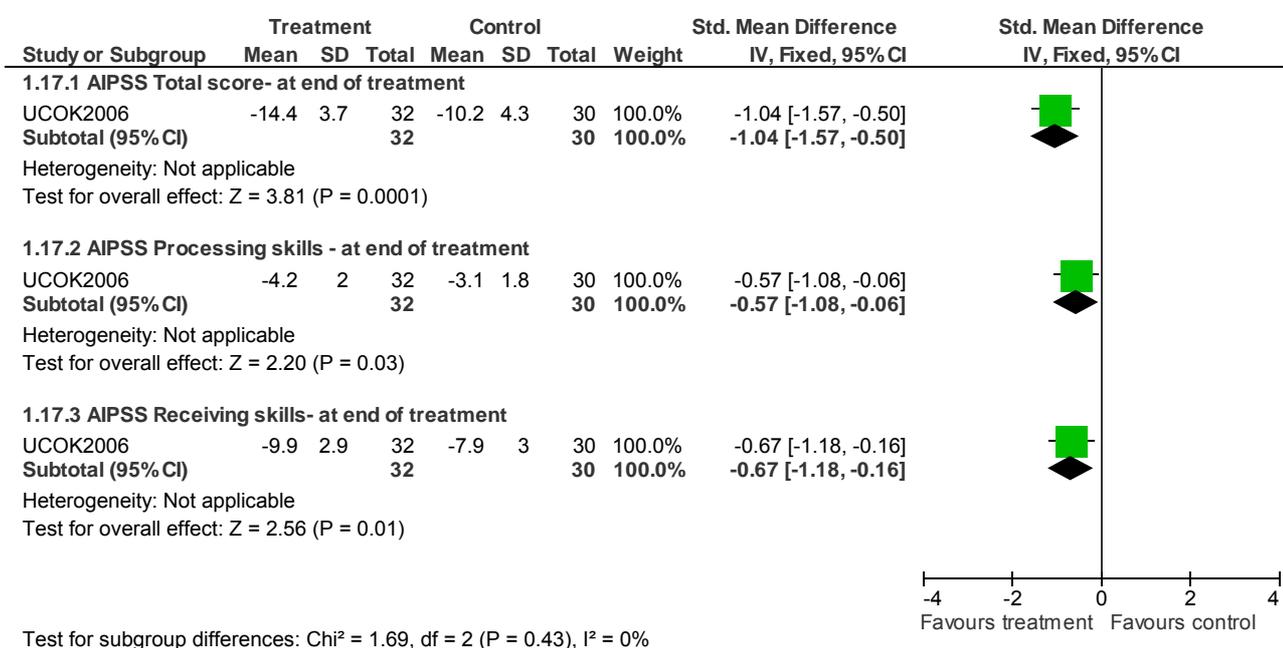


Psychological clinical evidence: Social skills training

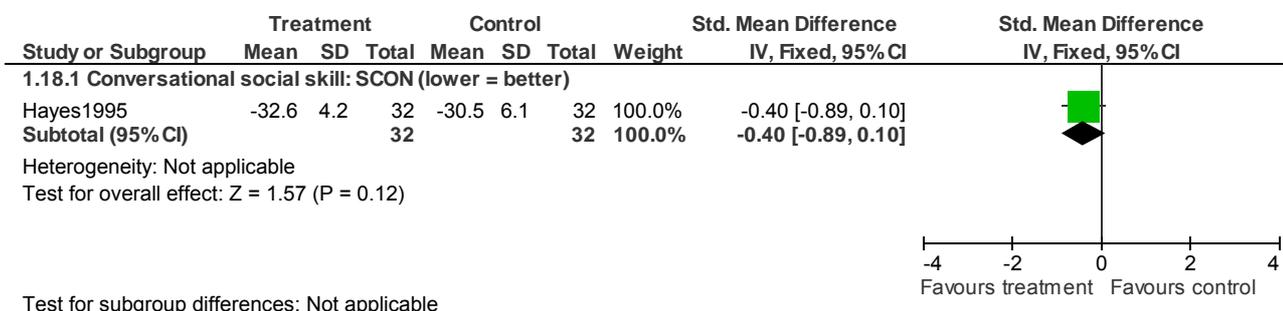
1.16 Psychosocial functioning: 4. Social Functioning Scale (SFS) (signs reversed)



1.17 Psychosocial functioning: 5. Assessment of interpersonal problem solving skills (signs reversed)

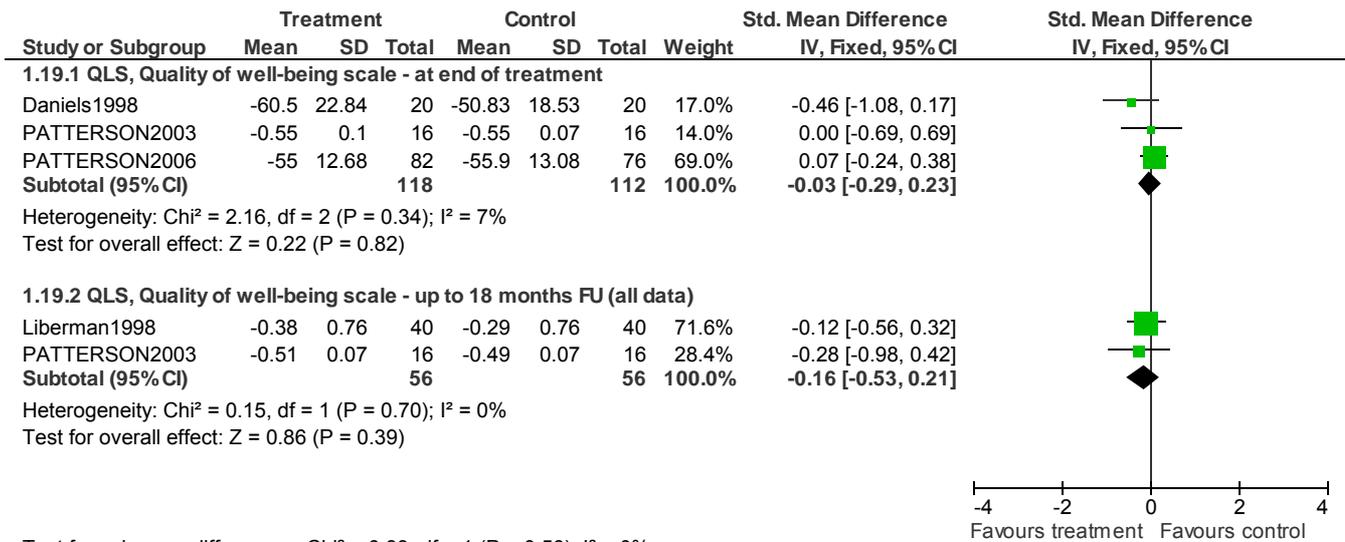


1.18 Psychosocial functioning: 6. Conversational social skill (lower = better)

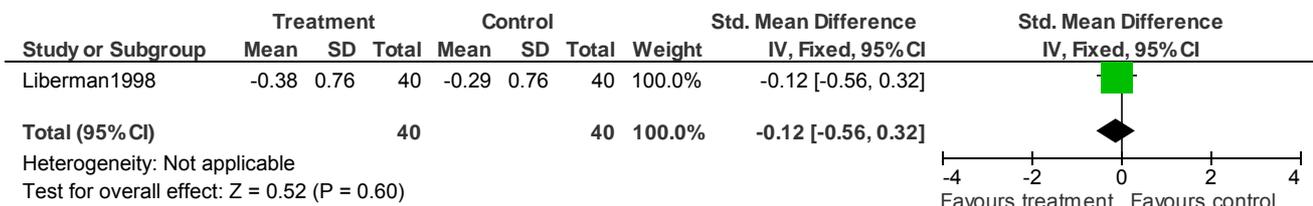


Psychological clinical evidence: Social skills training

1.19 Quality of life: 1. QLS, QWB, LQLS (signs reversed)

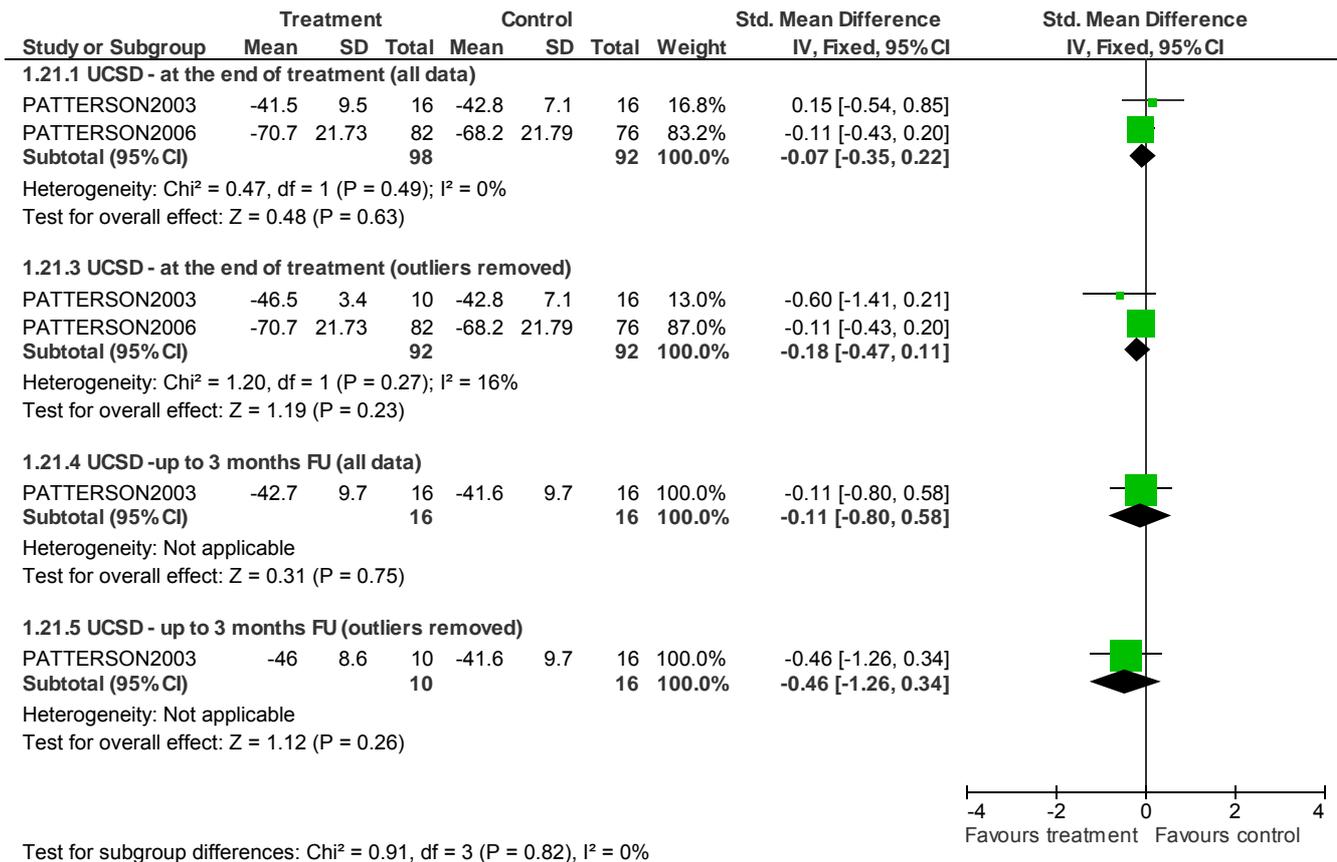


1.20 Quality of life: 2. LQLS change score (lower = better)

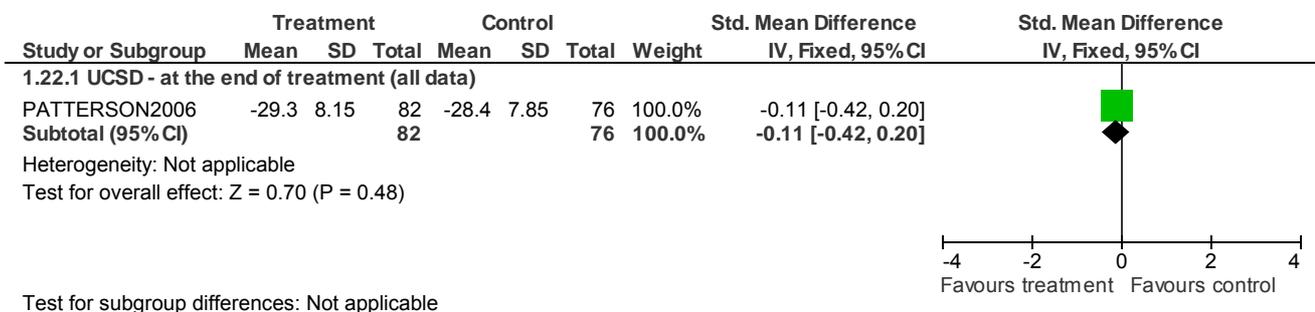


Psychological clinical evidence: Social skills training

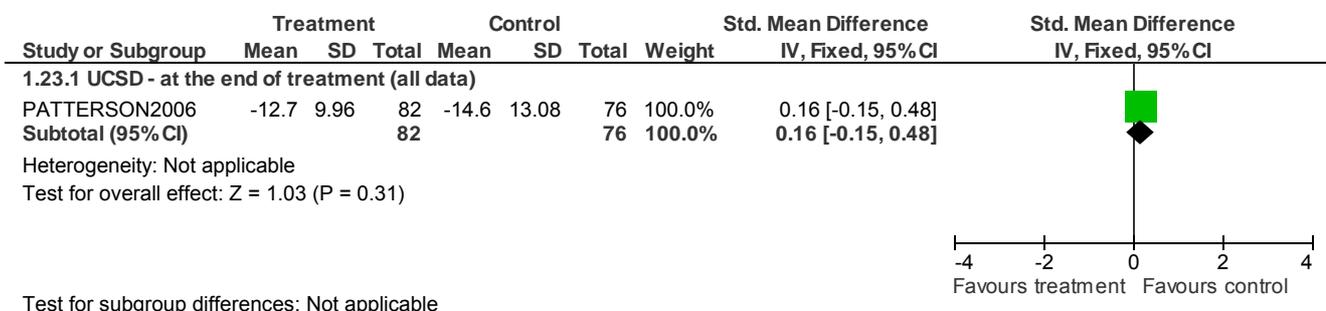
1.21 Other: 1. UCSD performance based skills assessment (signs reversed)



1.22 Other: 2. SSPA social skills performance assessment (signs reversed)

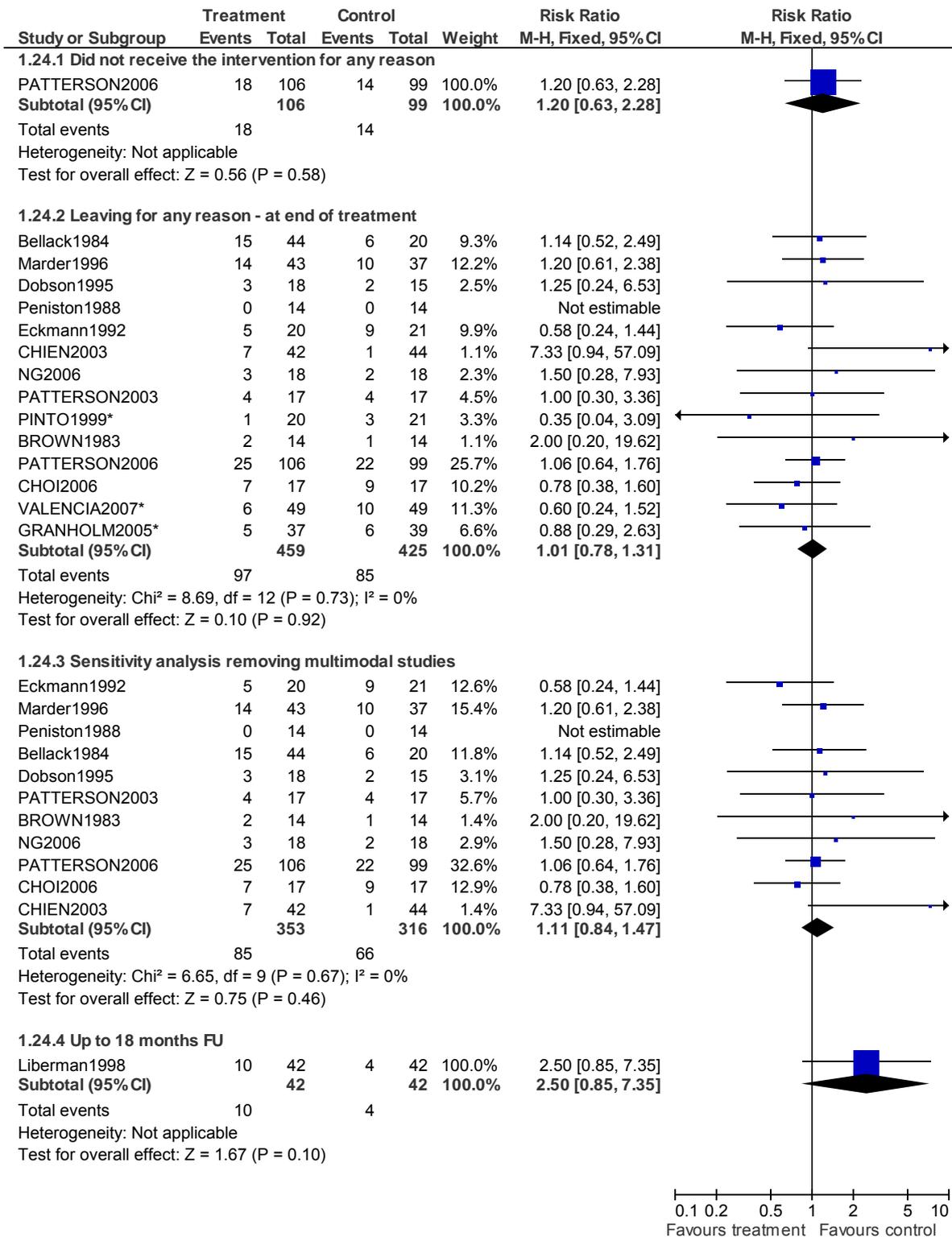


1.23 Other: 3. MMAA Medication management abilities(signs reversed)



Psychological clinical evidence: Social skills training

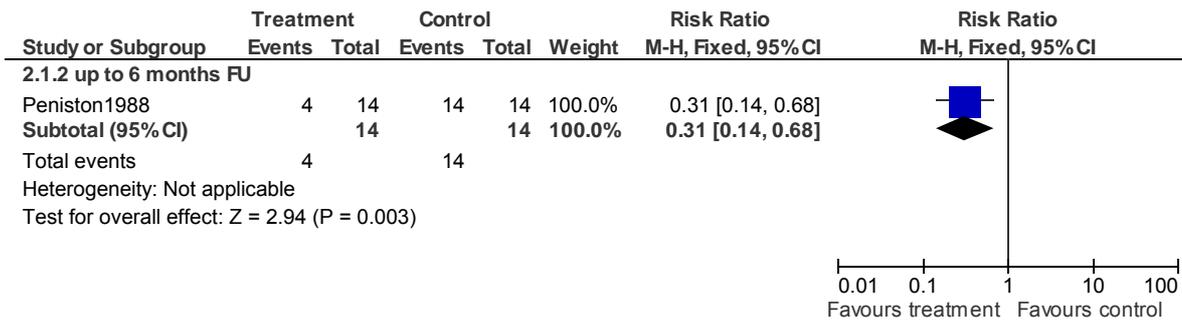
1.24 Treatment Acceptability: 1. Leaving for any reason



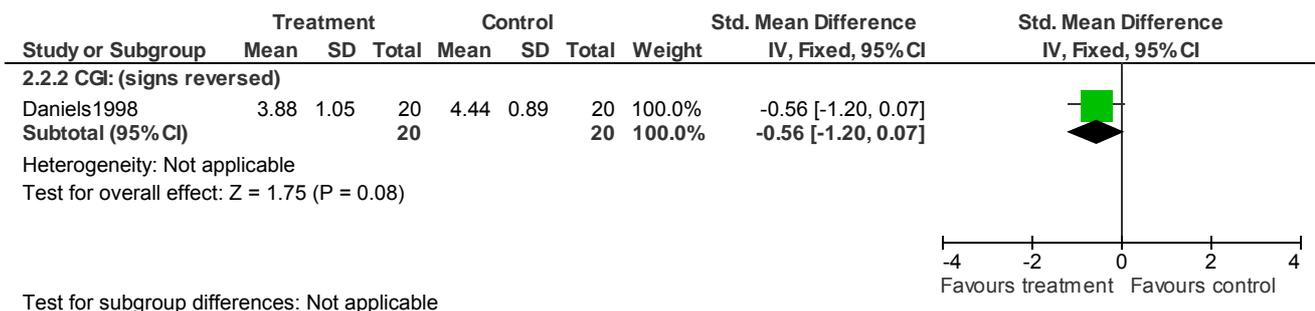
2 Social skills training versus standard care

Psychological clinical evidence: Social skills training

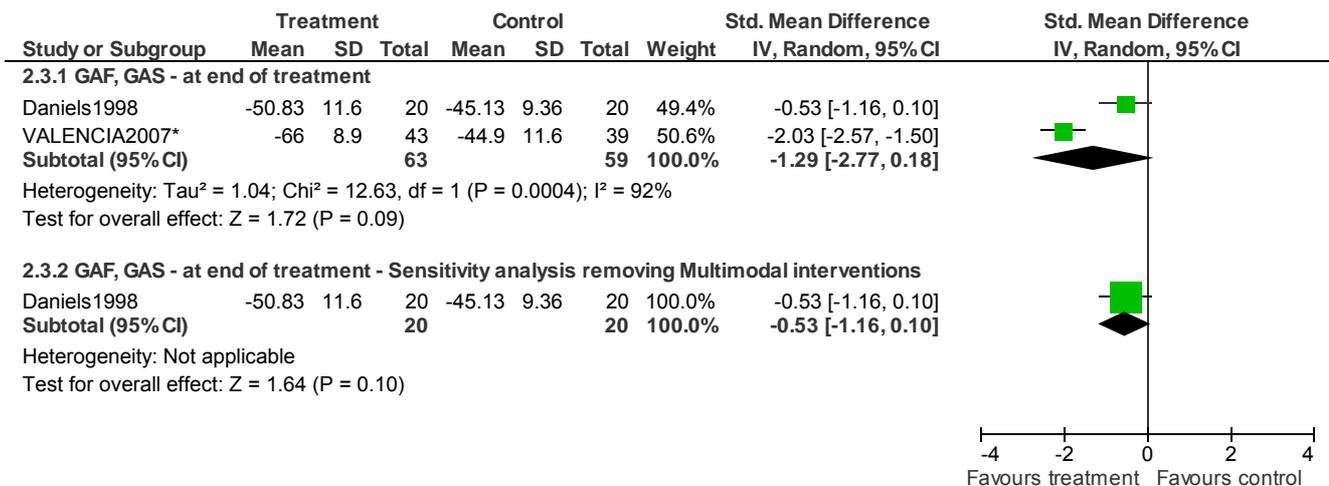
2.1 Service Outcome: 1. Unable to be discharged from hospitalisation



2.2 Global state: 1. CGI - At end of treatment (8 weeks)

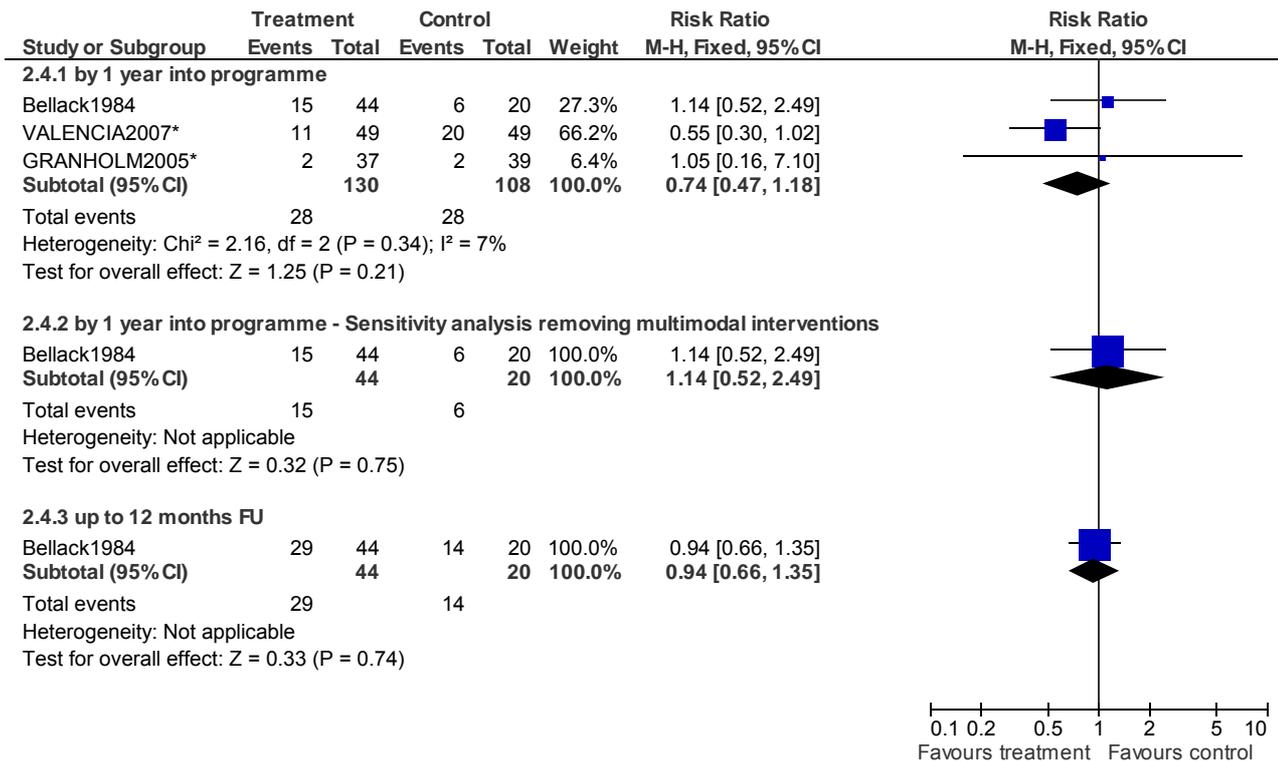


2.3 Global state: 2. GAF - At end of treatment (8 weeks)

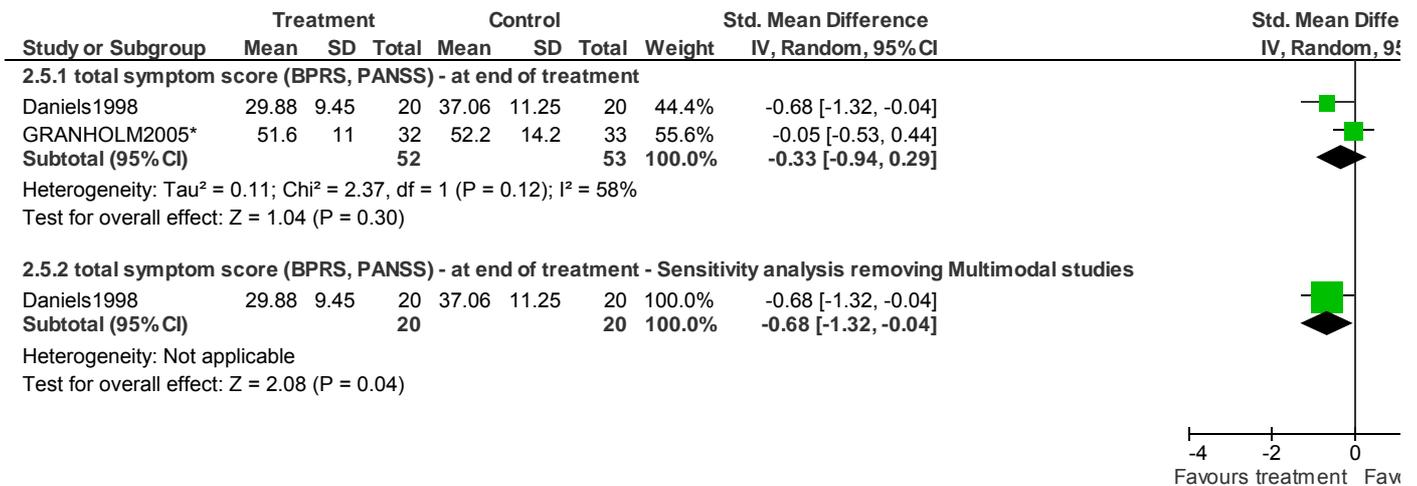


Psychological clinical evidence: Social skills training

2.4 Global state: 3. Relapse and Readmission (combined)

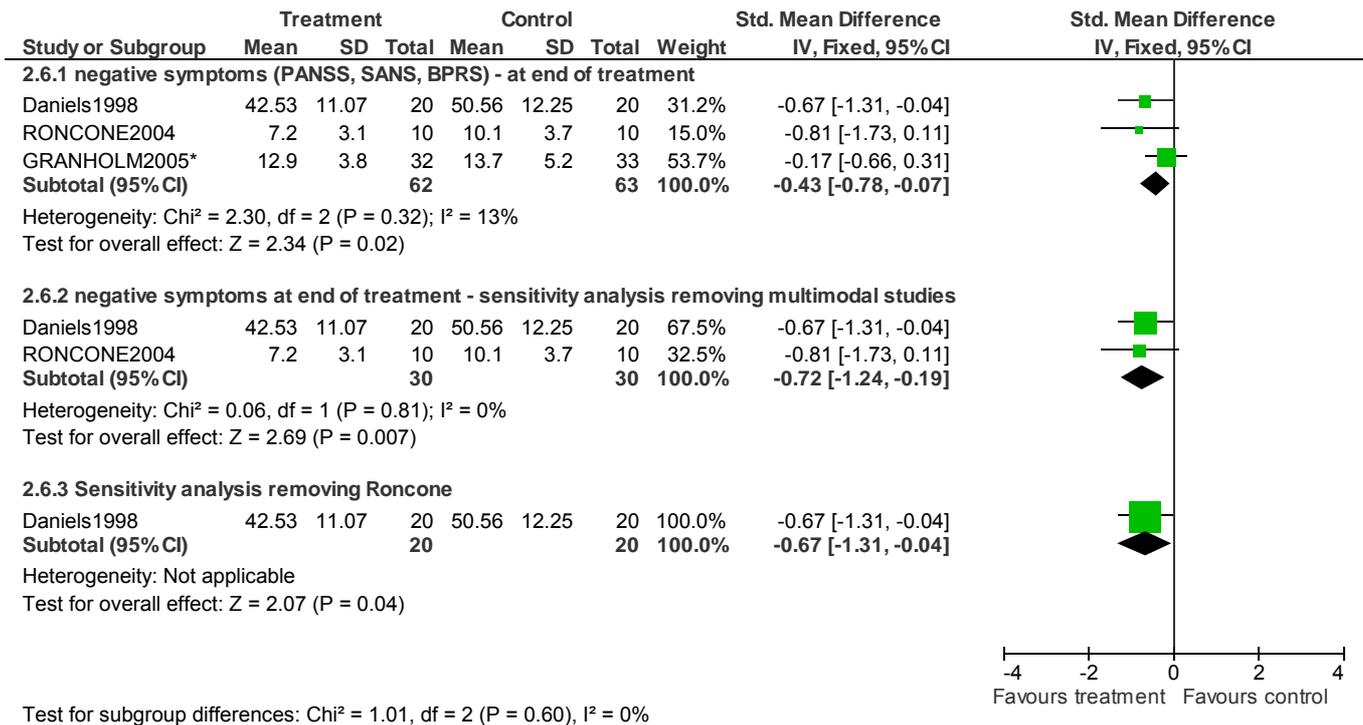


2.5 Mental state: 1. Continuous measures - total symptom score (lower = better)



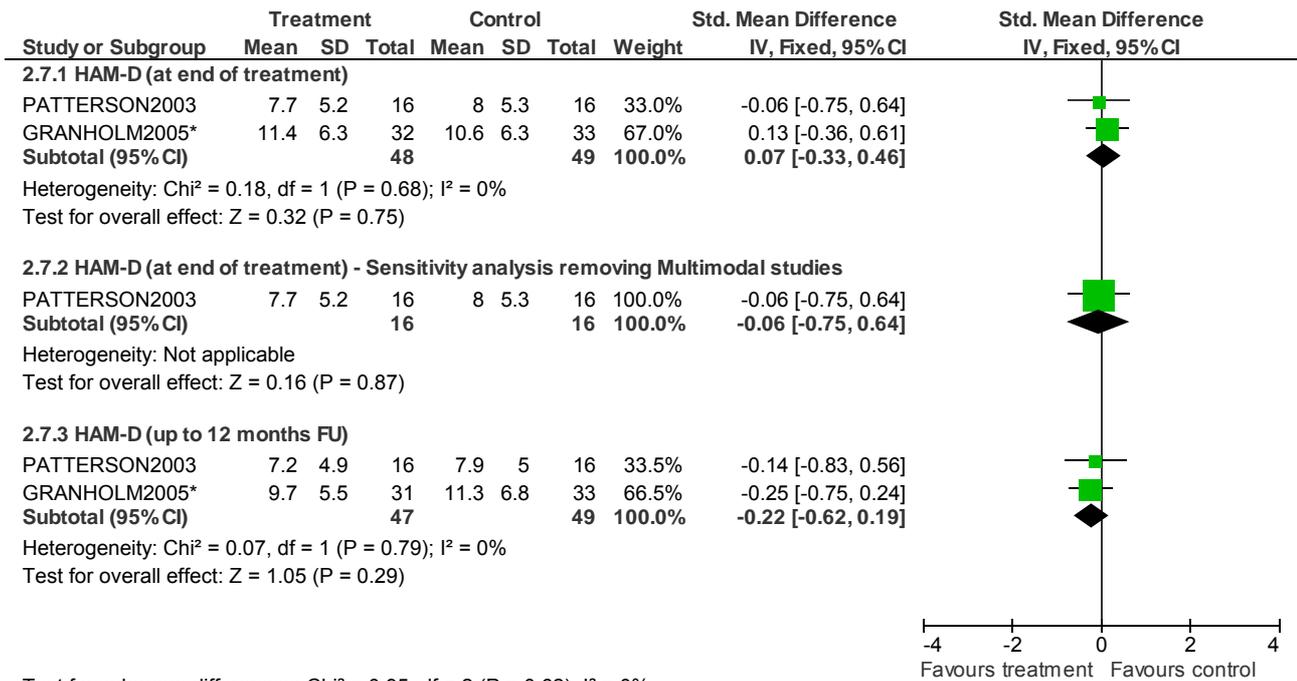
Psychological clinical evidence: Social skills training

2.6 Mental state: 2. Continuous measures - negative symptoms (lower = better)

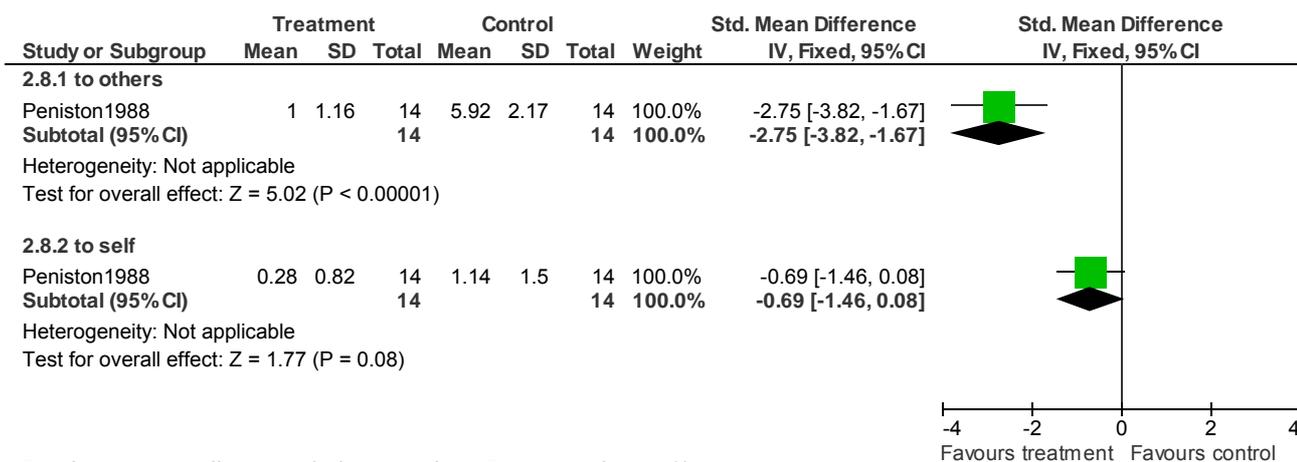


Psychological clinical evidence: Social skills training

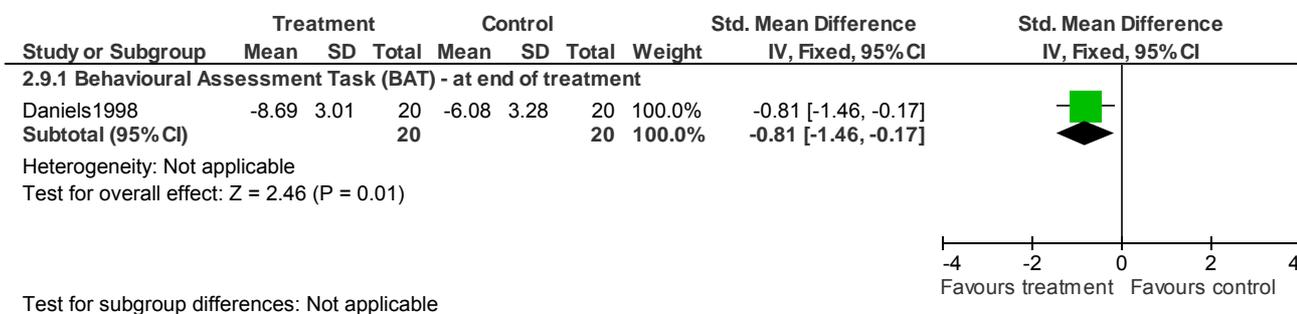
2.7 Mental state: 3. Depression - Hamilton Depression Rating scale (lower = better)



2.8 Psychosocial functioning: 1. Harm

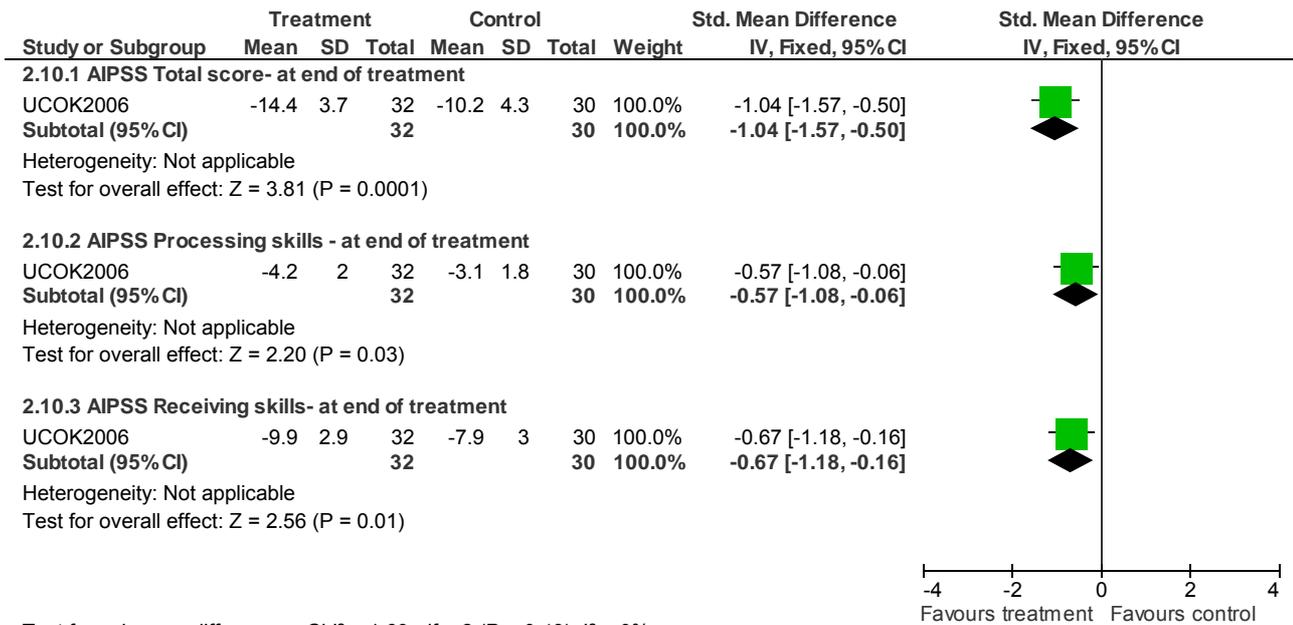


2.9 Psychosocial functioning: 2. BAT (signs reversed)

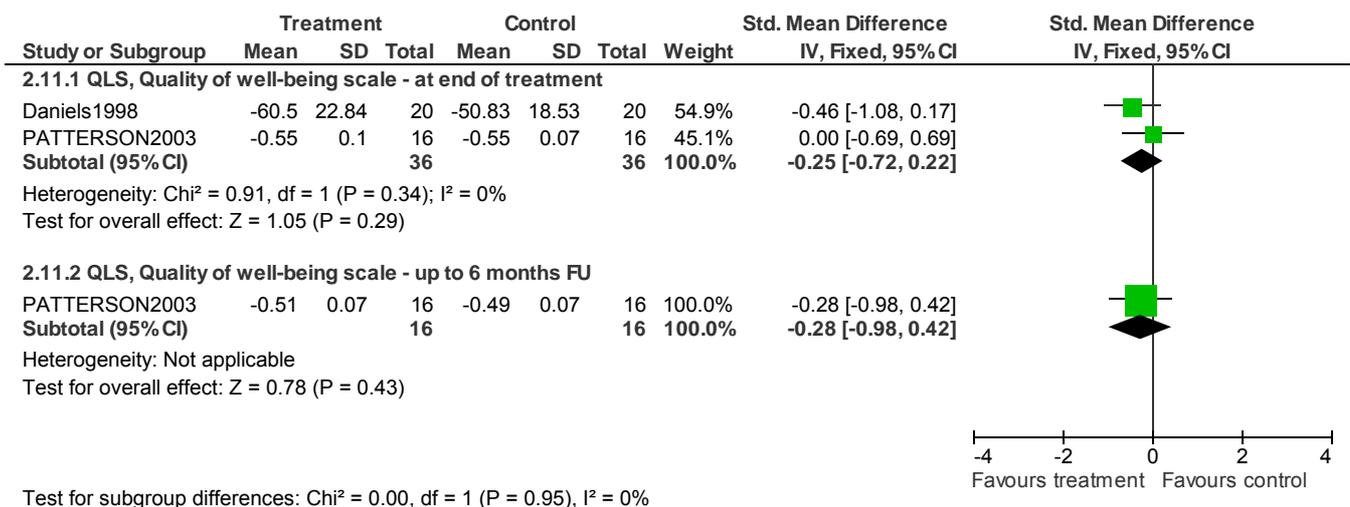


Psychological clinical evidence: Social skills training

2.10 Psychosocial functioning: 3. Assessment of interpersonal problem solving skills (signs reversed)

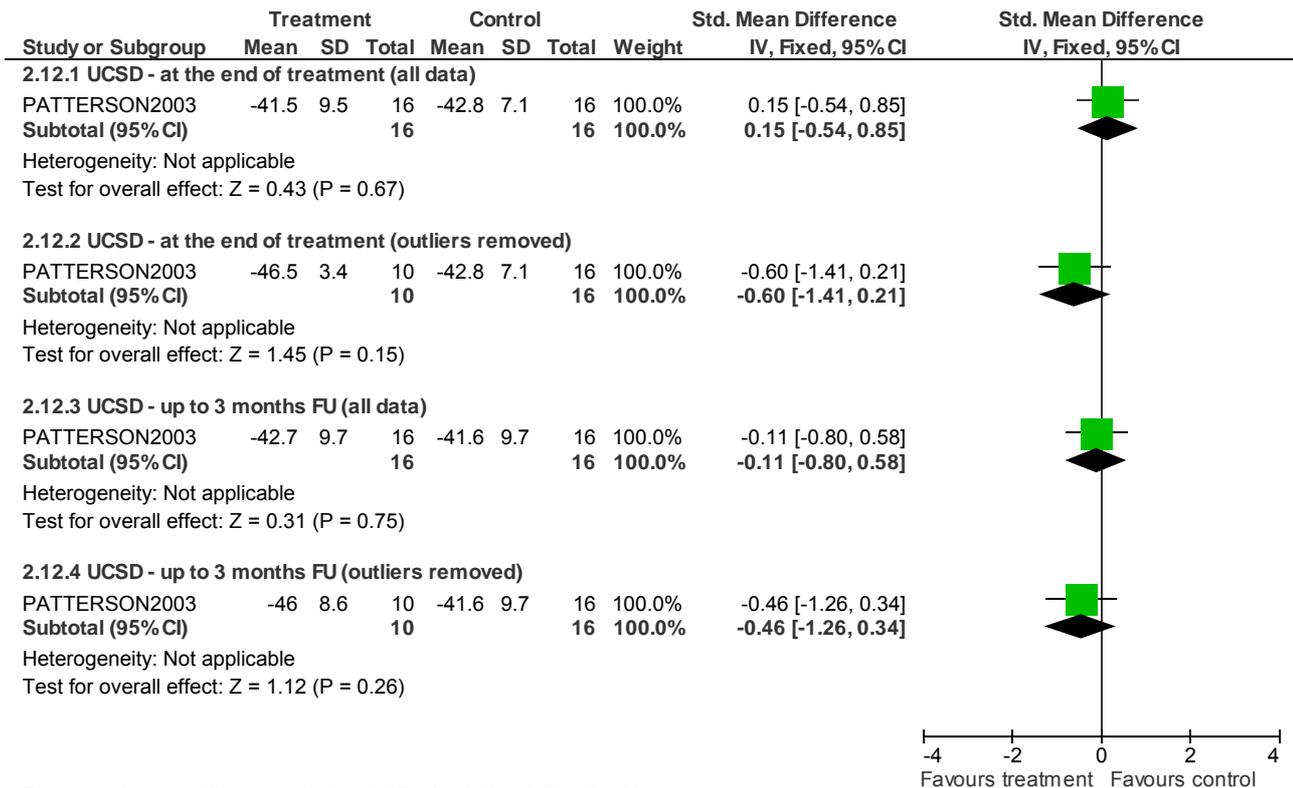


2.11 Quality of life: 1. QLS, QWB (signs reversed)



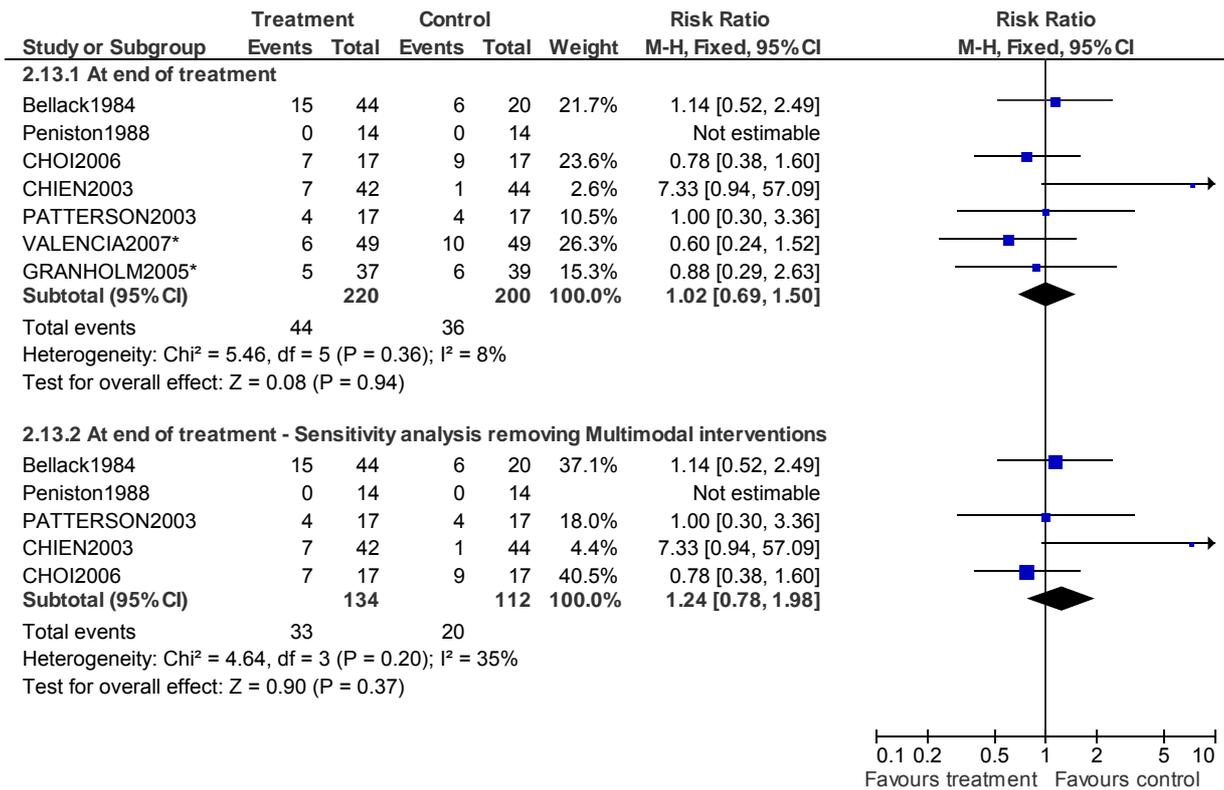
Psychological clinical evidence: Social skills training

2.12 Other: 1. UCSD performance based skills assessment (signs reversed)



Psychological clinical evidence: Social skills training

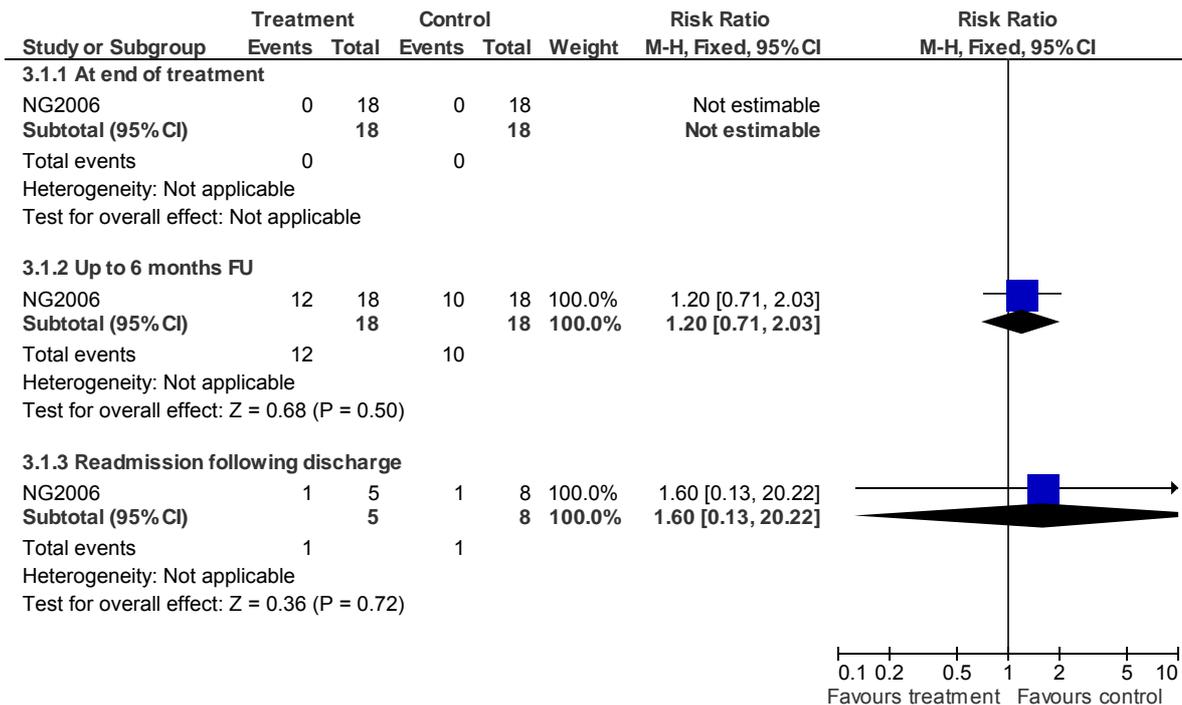
2.13 Treatment acceptability: 1. Leaving for any reason (SC)



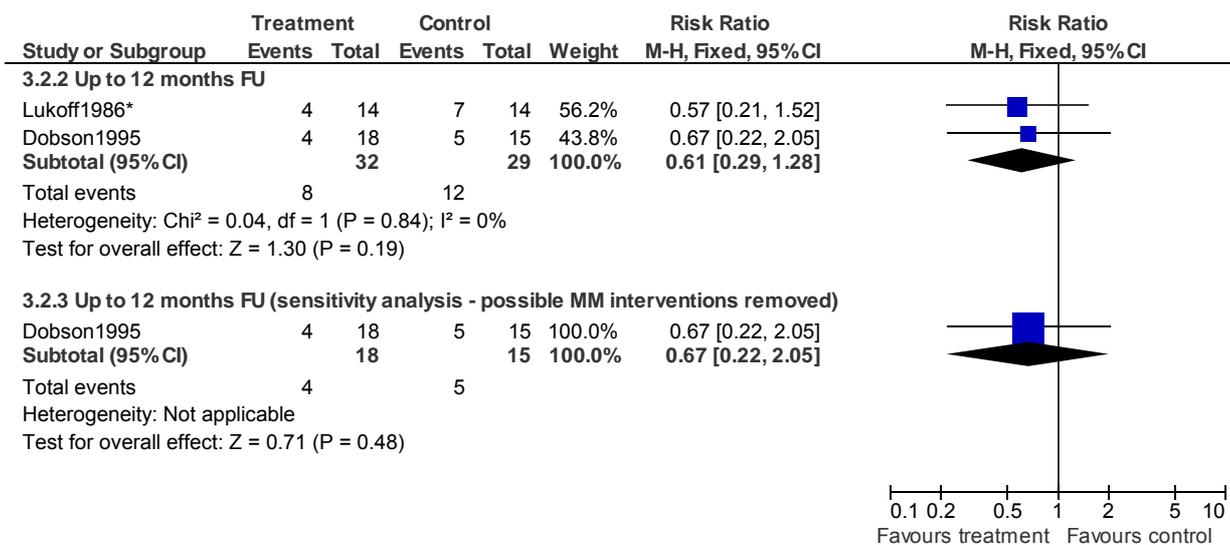
3 Social skills training versus other active treatments

Psychological clinical evidence: Social skills training

3.1 Service Outcome: 1. Unable to be discharged from hospitalisation

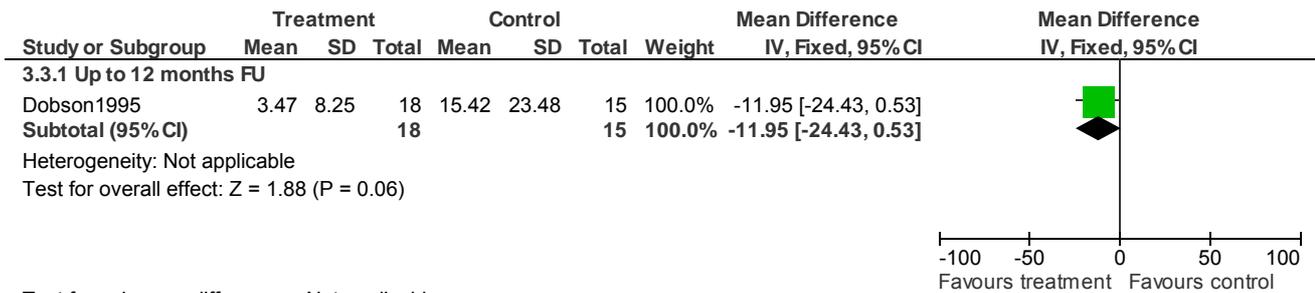


3.2 Service Outcome: 2. Rehospitalisation

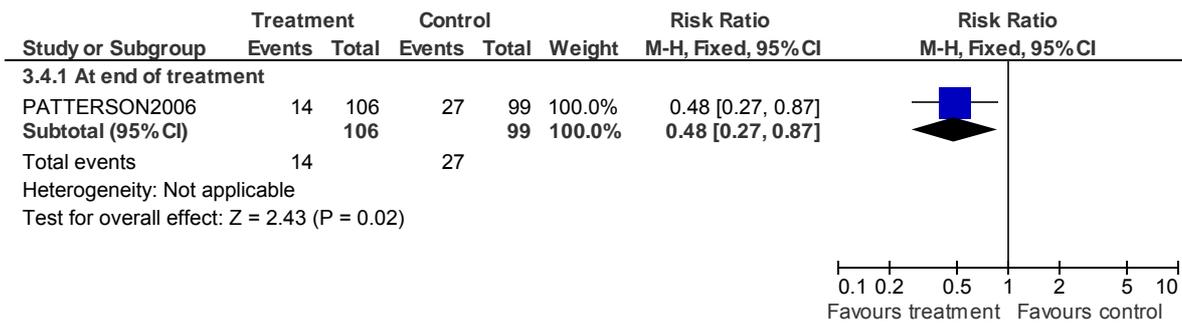


Psychological clinical evidence: Social skills training

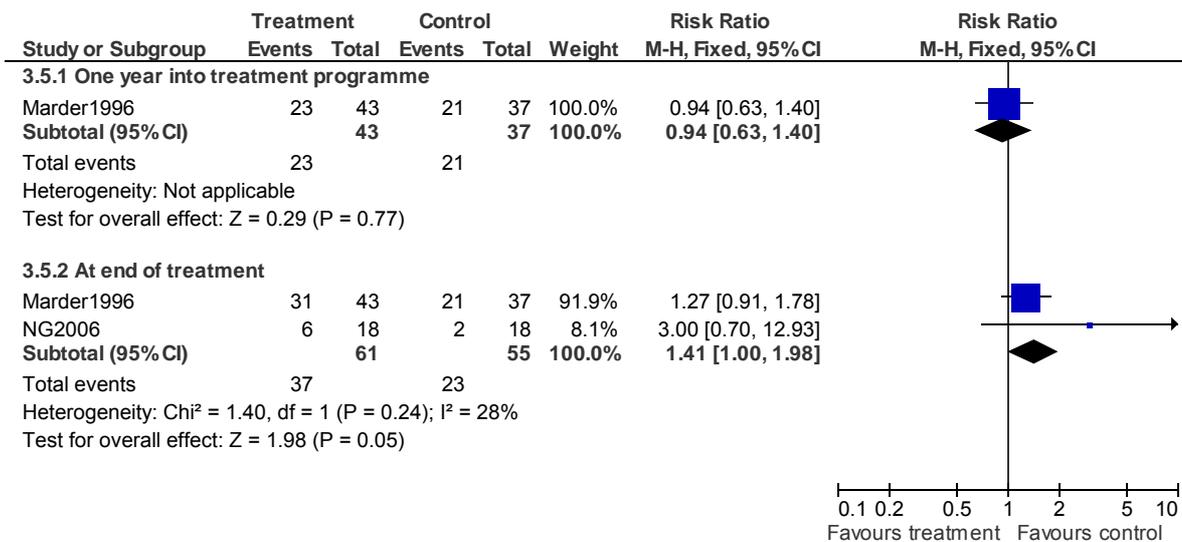
3.3 Service Outcome: 3. Mean duration of re-hospitalisation



3.4 Service Outcome: 4. Emergency service use

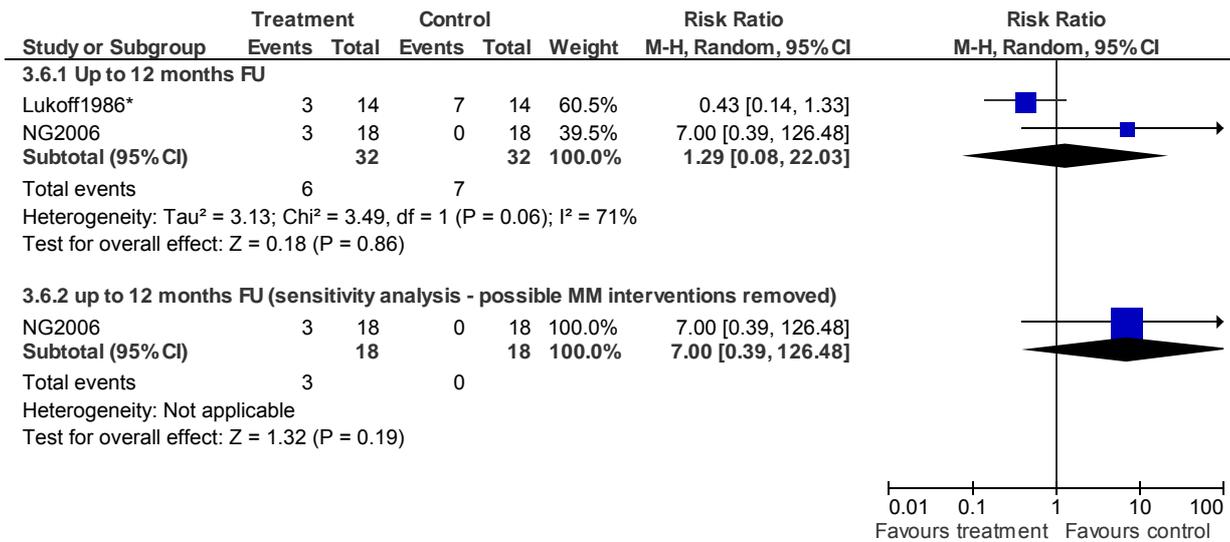


3.5 Global state: 1. Relapse (at end of treatment)

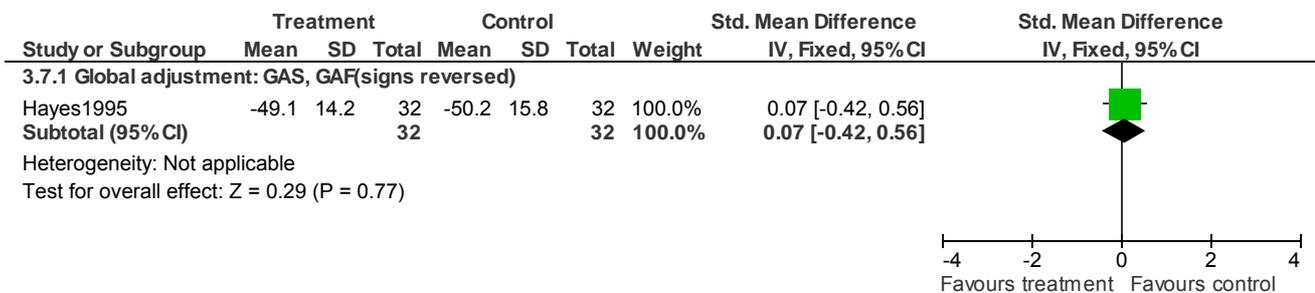


Psychological clinical evidence: Social skills training

3.6 Global state: 1. Relapse (at Follow up)



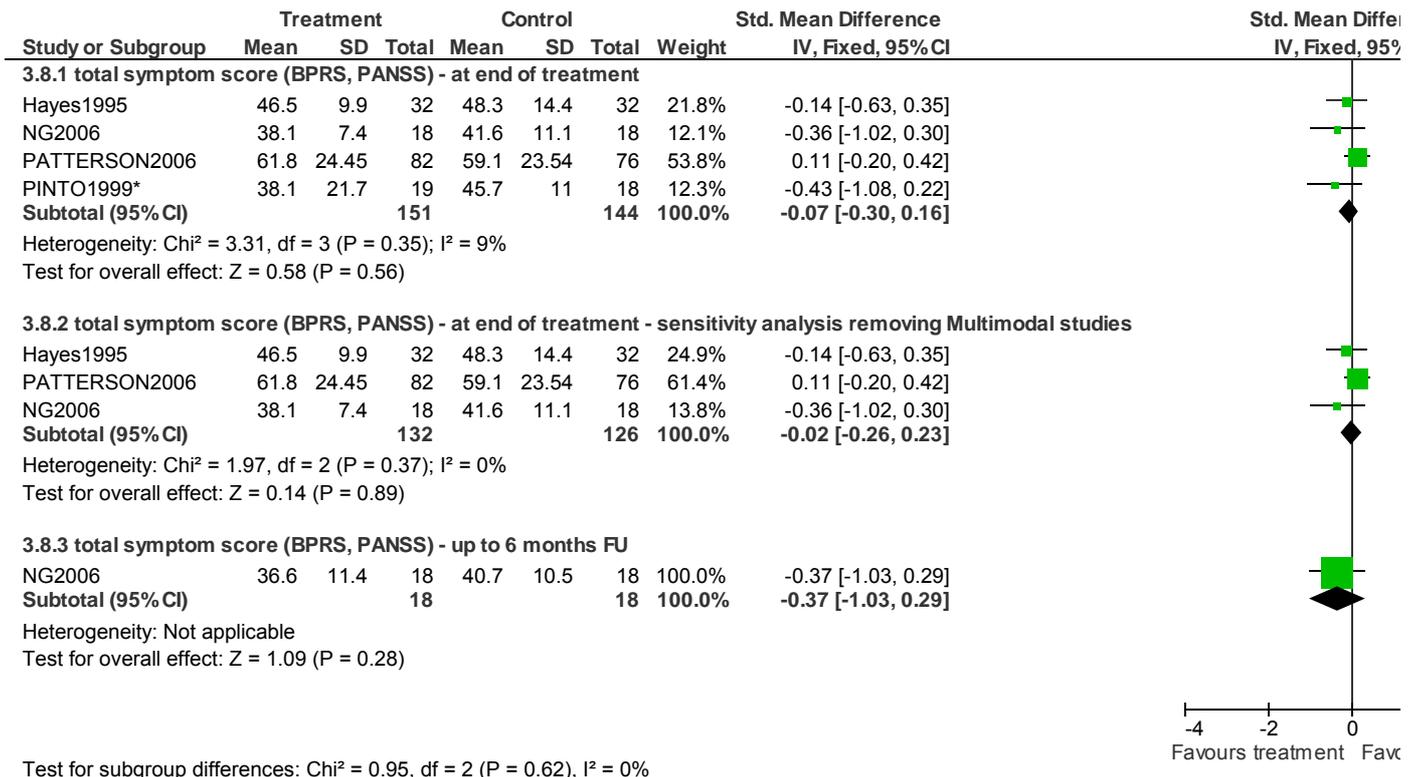
3.7 Global state: 2. GAS, GAF (signs reversed)



Test for subgroup differences: Not applicable

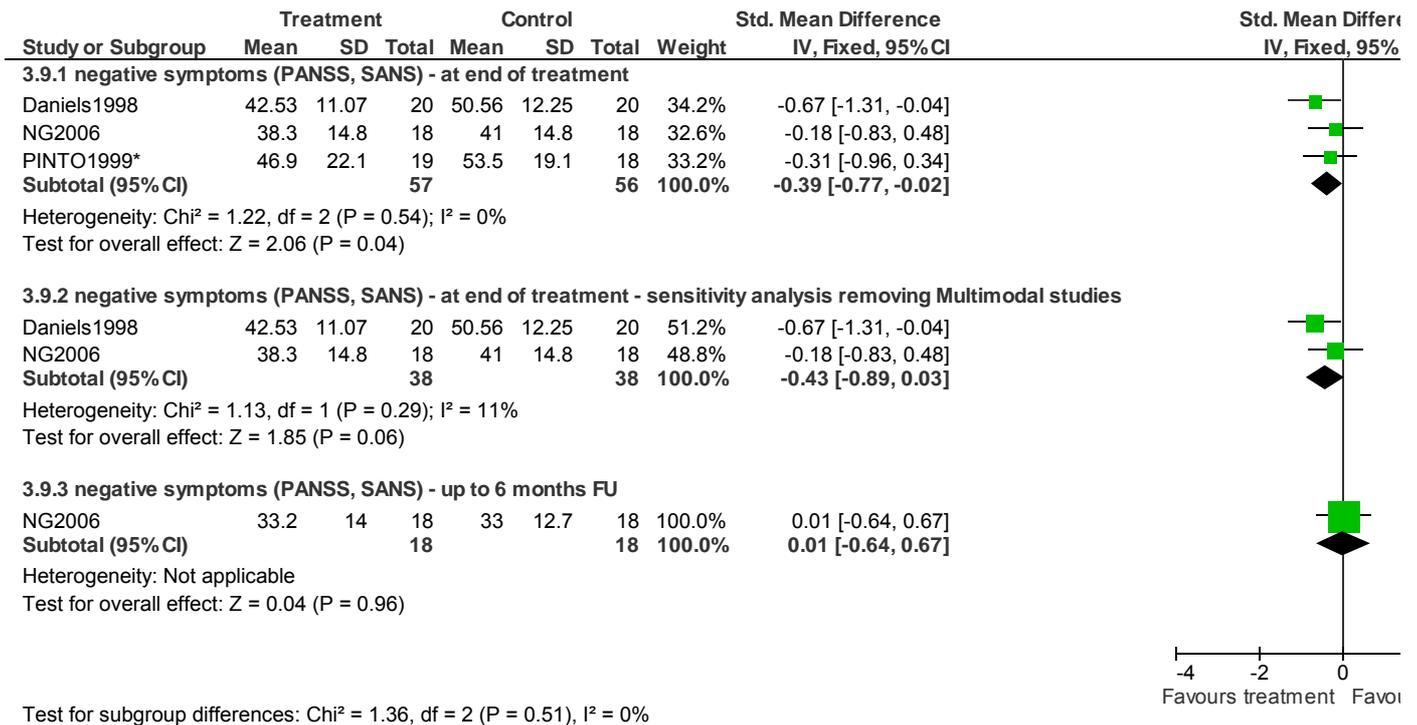
Psychological clinical evidence: Social skills training

3.8 Mental state: 1. Continuous measures - total symptom score (lower = better)

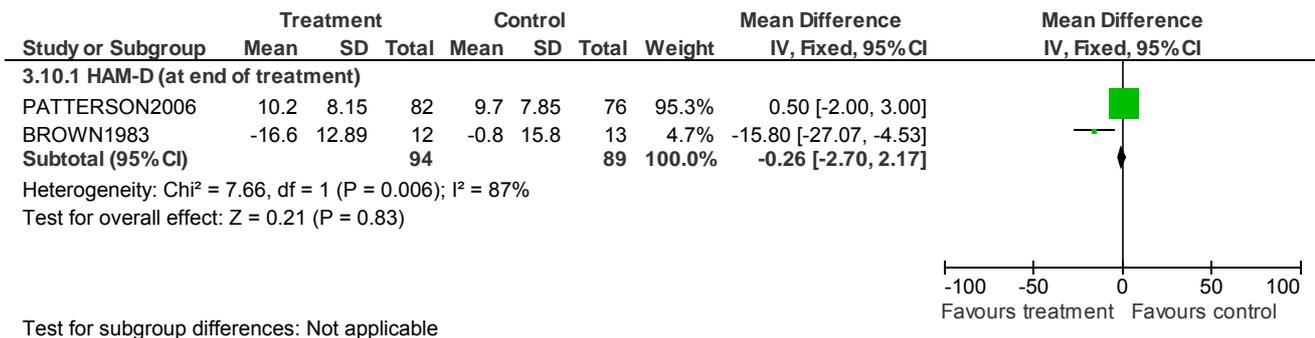


Psychological clinical evidence: Social skills training

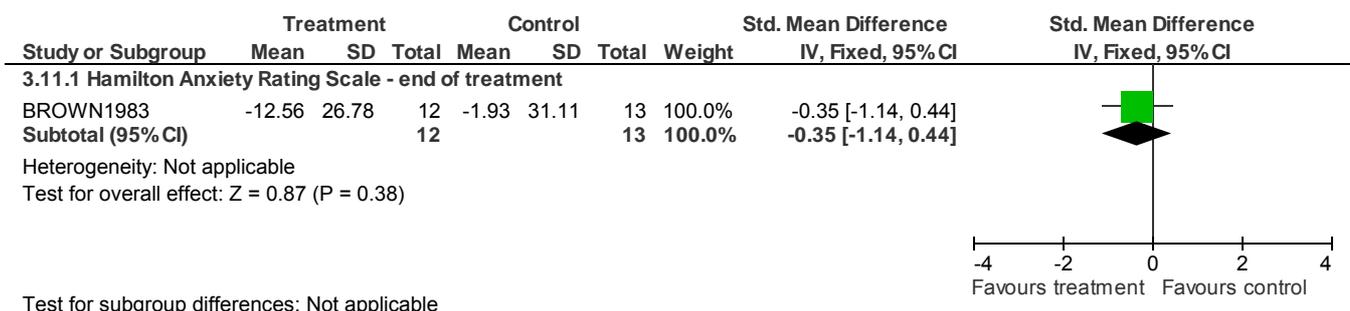
3.9 Mental state: 2. Continuous measures - negative symptoms (lower = better)



3.10 Mental state: 3. Depression - Hamilton Depression Rating scale (lower = better)

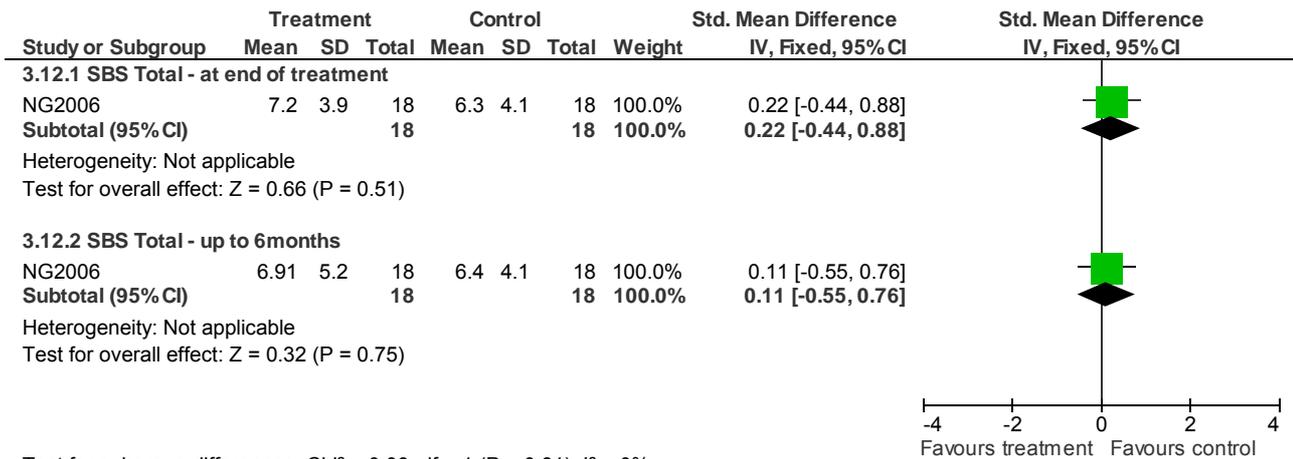


3.11 Mental state: 4: Anxiety - Social anxiety rating scale

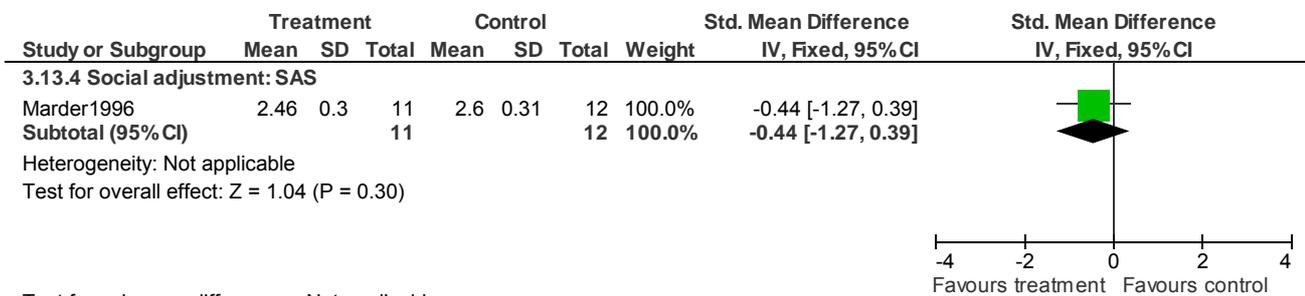


Psychological clinical evidence: Social skills training

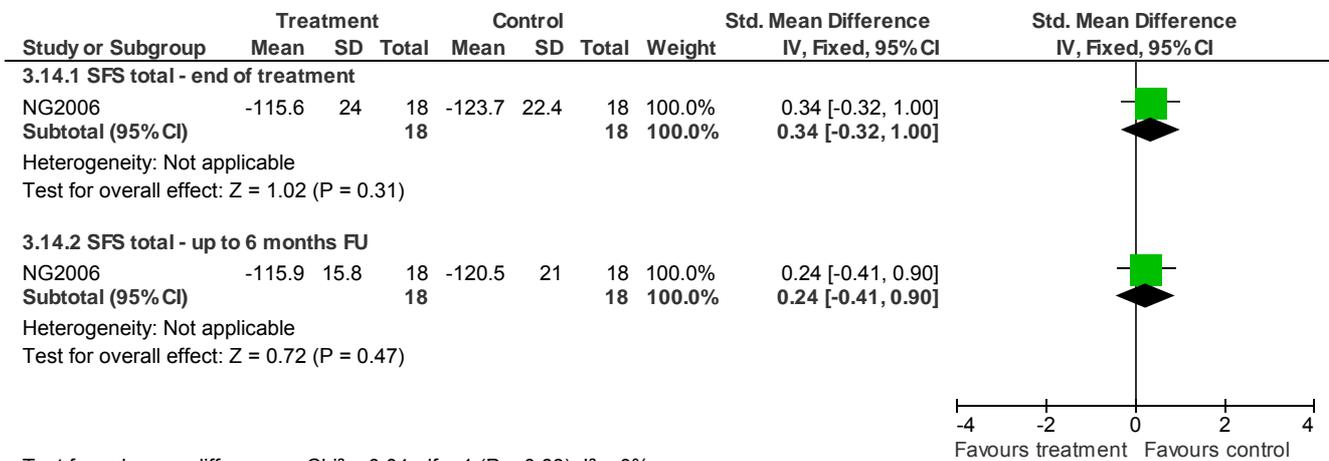
3.12 Psychosocial functioning: 1. Social Behaviour Schedule (lower = better)



3.13 Psychosocial functioning: 2. SAS (lower = better)

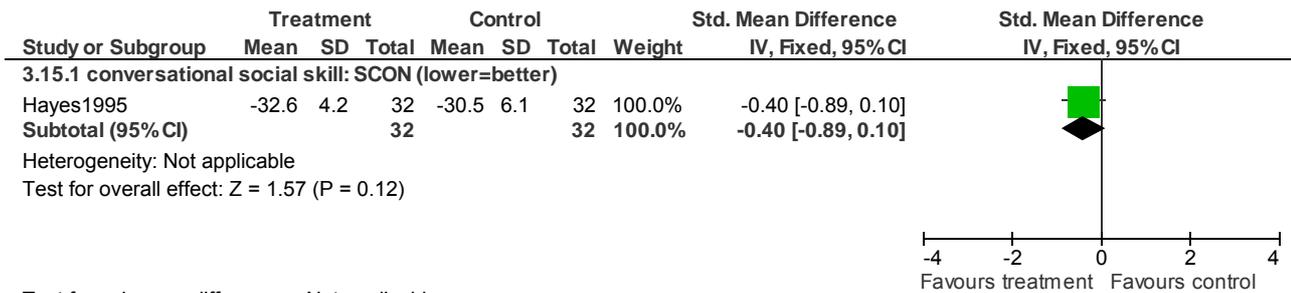


3.14 Psychosocial functioning: 3. Social Functioning Scale (SFS) (signs reversed)

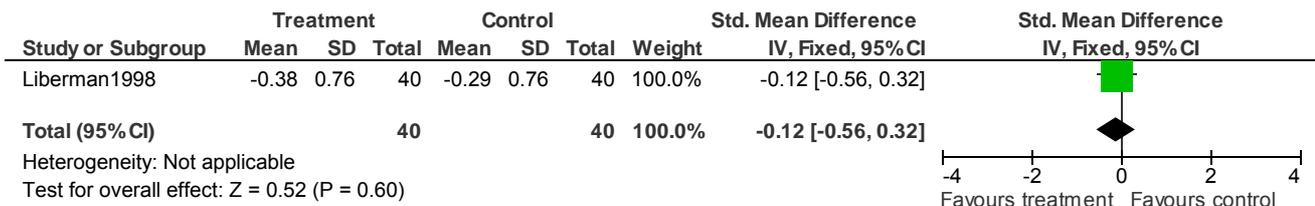


Psychological clinical evidence: Social skills training

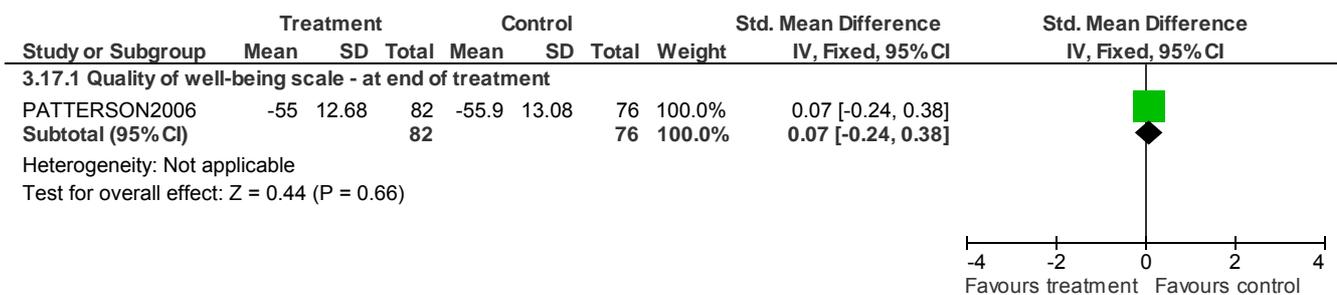
3.15 Psychosocial functioning: 4. Conversational social skill (lower = better)



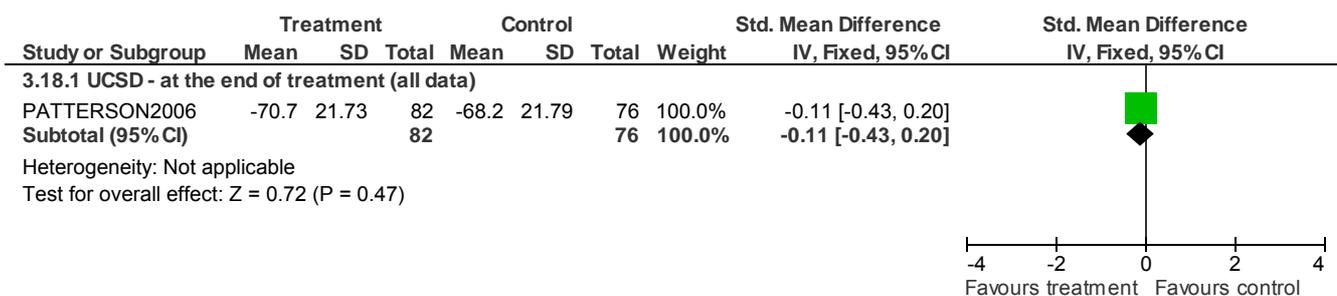
3.16 Quality of life: 1. LQLS change score (lower=better)



3.17 Quality of life: 2. QWB (signs reversed)

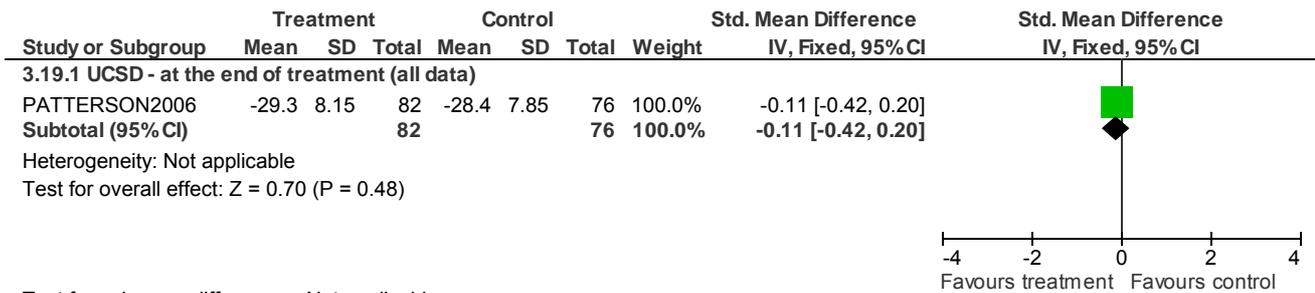


3.18 Other: 1. UCSD performance based skills assessment (signs reversed)

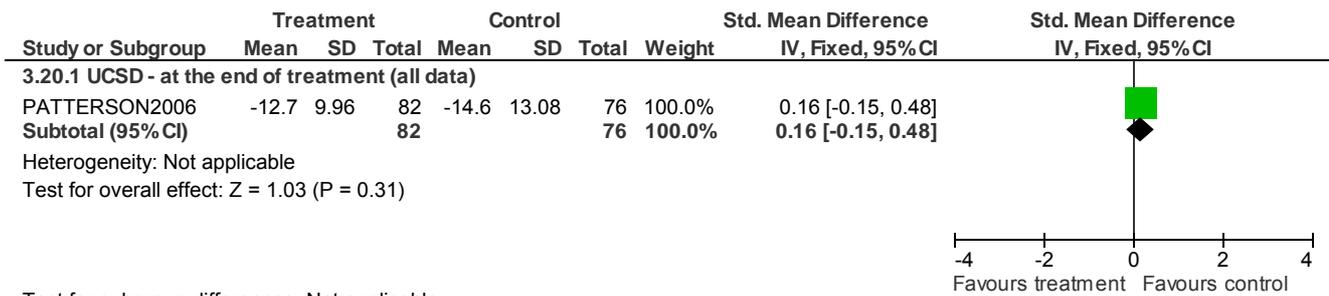


Psychological clinical evidence: Social skills training

3.19 Other: 2. SSPA social skills performance assessment (signs reversed)

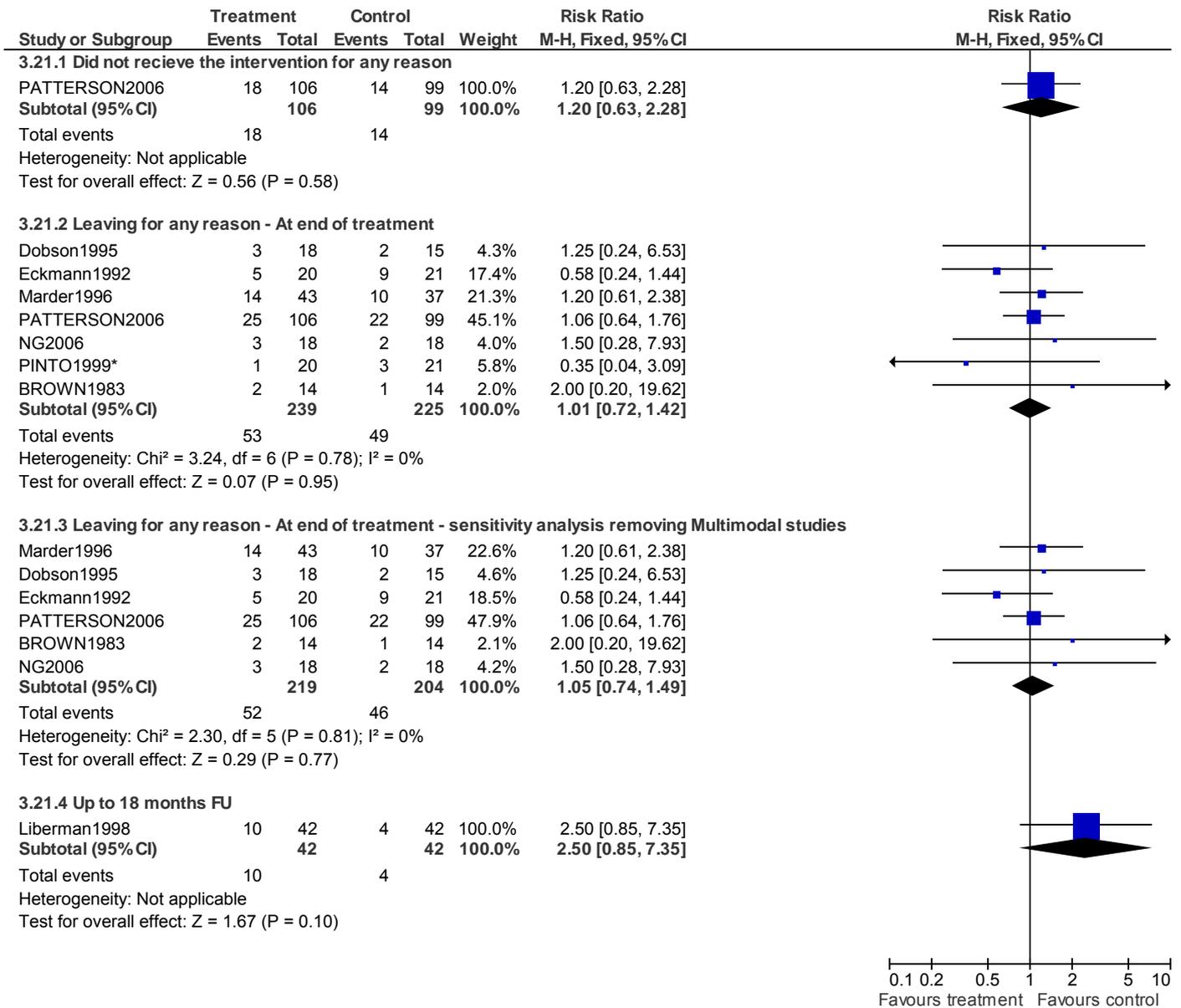


3.20 Other: 3. MMAA Medication management abilities(signs reversed)



Psychological clinical evidence: Social skills training

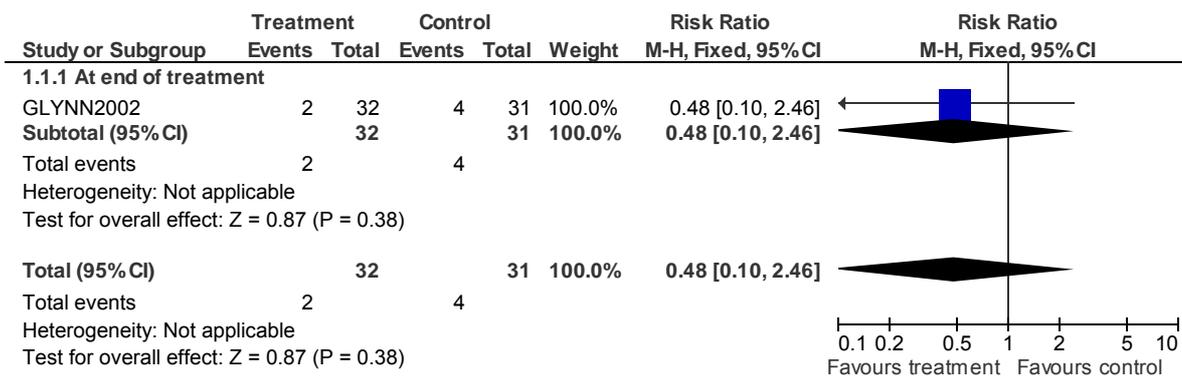
3.21 Treatment acceptability: 1. Leaving for any reason (OAT)



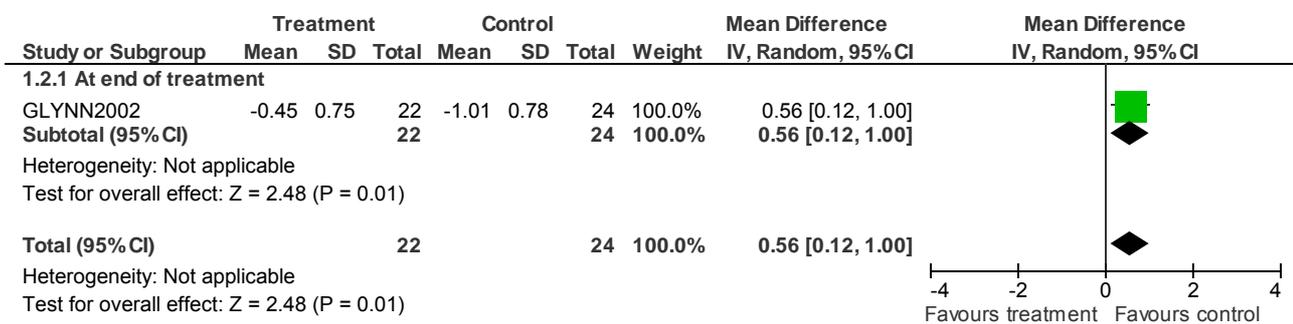
Psychological clinical evidence: Social skills training (subgroup analyses)

1 Clinic based social skills training versus clinic based social skills training and *in vivo* skills training

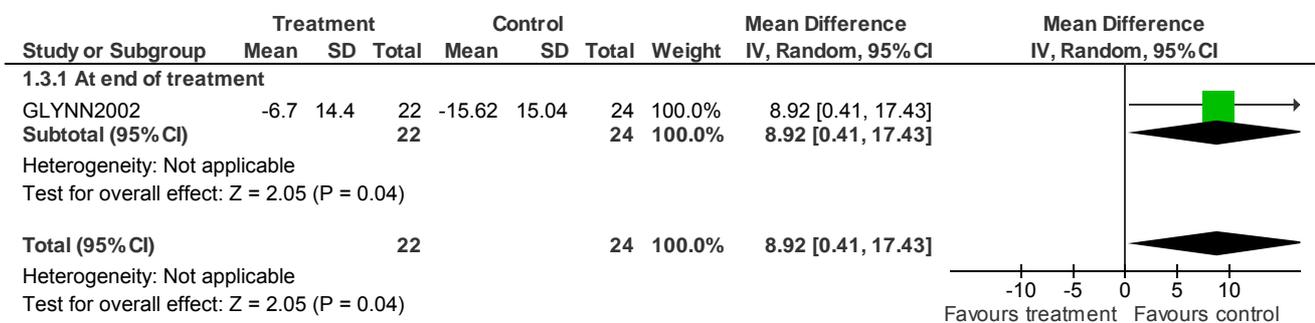
1.1 Global state: 1. Relapse



1.2 Psychosocial functioning - Social adjustment scale

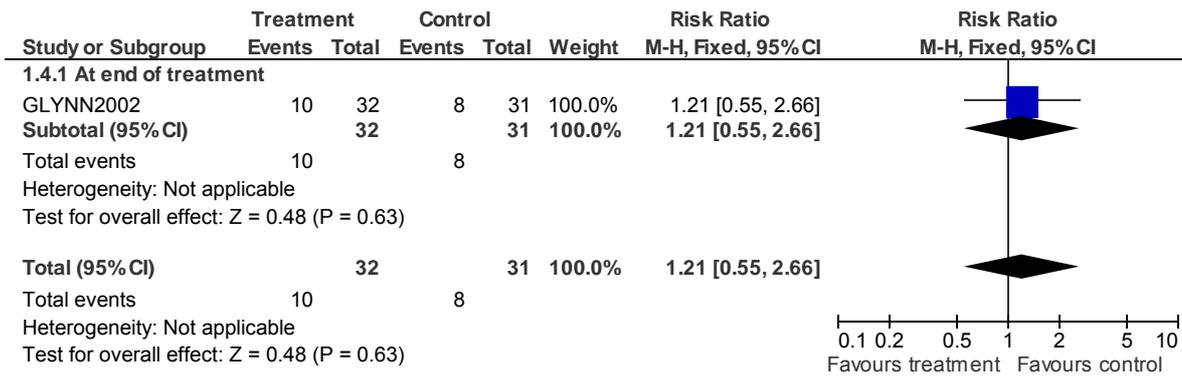


1.3 Quality of life - total score



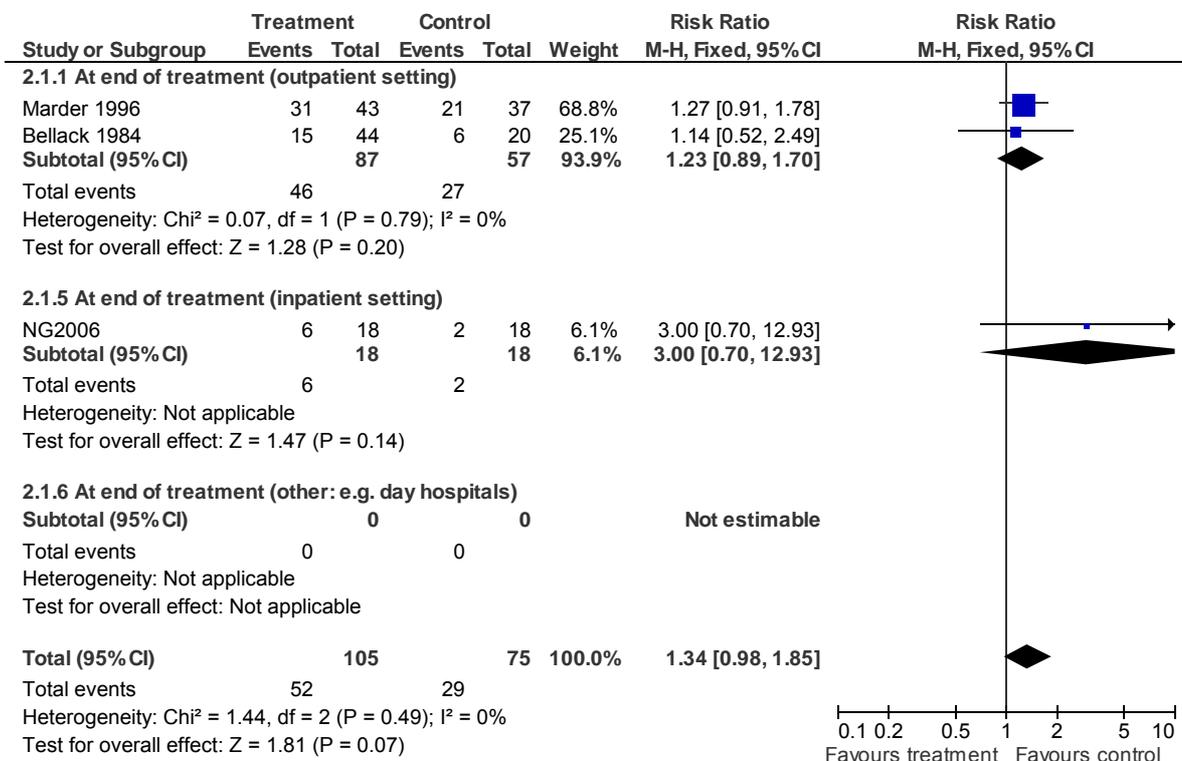
Psychological clinical evidence: Social skills training (subgroup analyses)

1.4 Treatment acceptability - leaving the study early for any reason



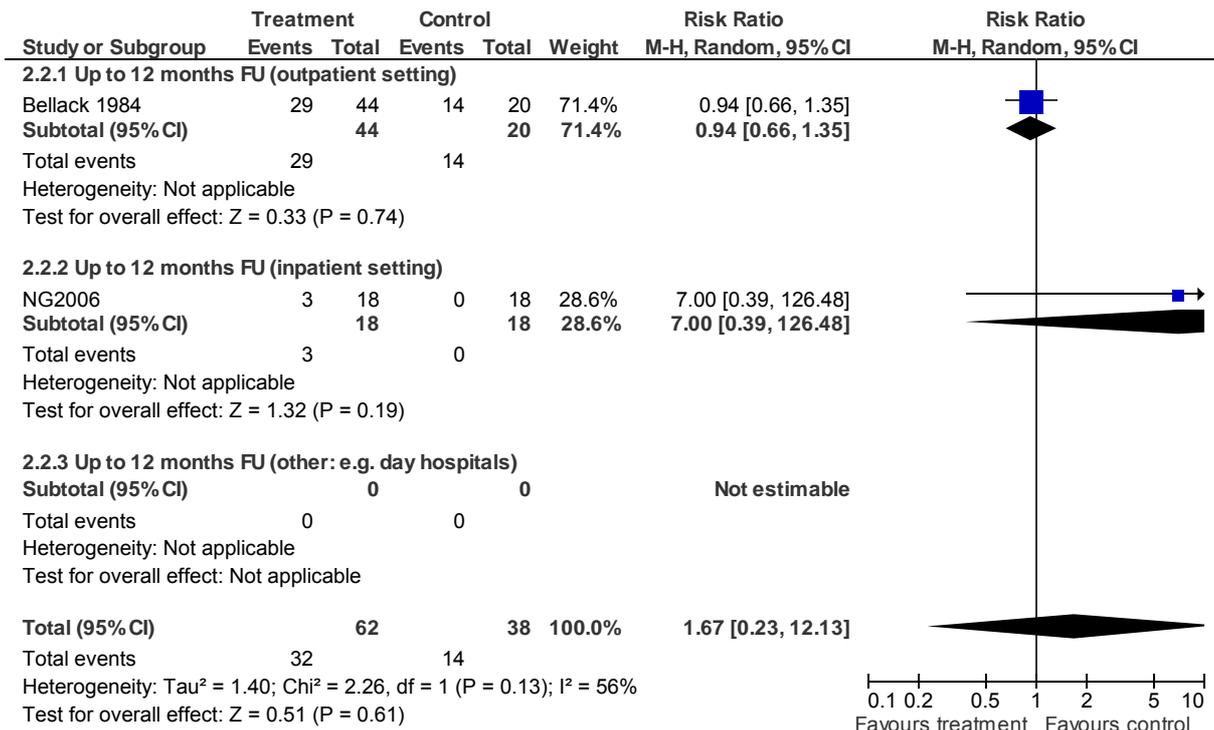
2 Social skills training versus any control - subgroup analysis by setting

2.1 Global State: 1. Relapse (at end of treatment)



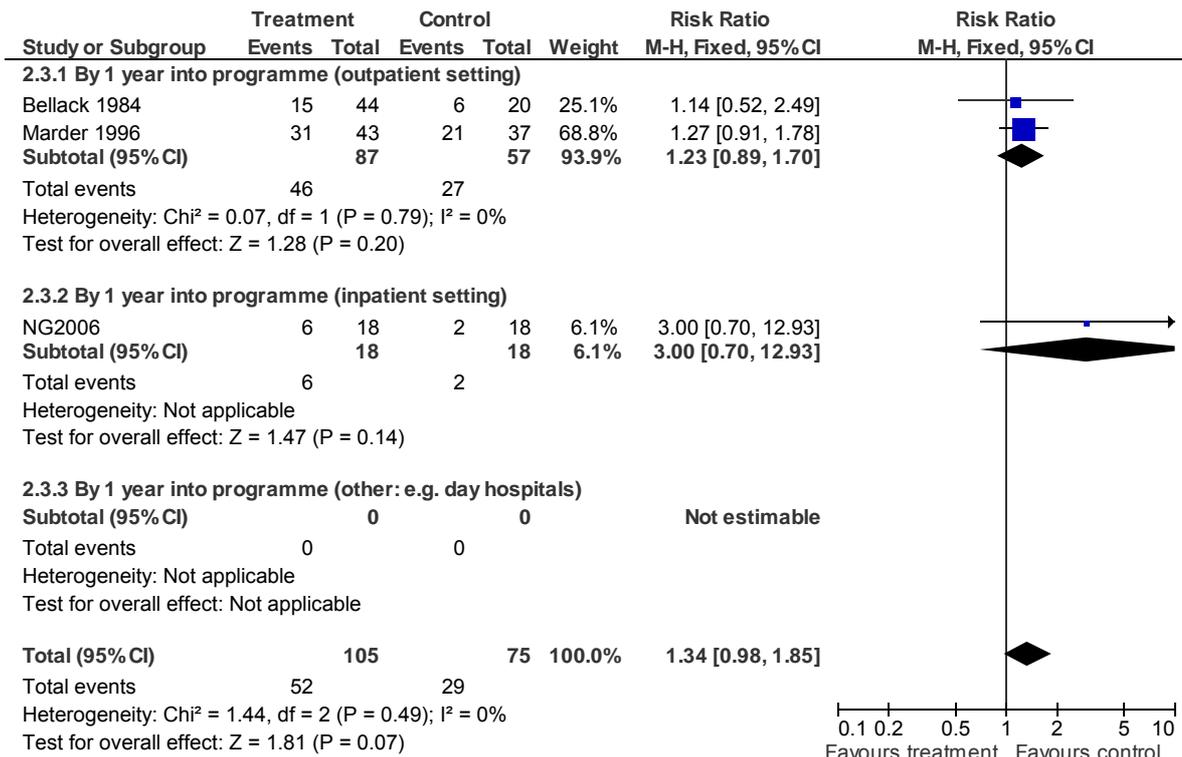
Psychological clinical evidence: Social skills training (subgroup analyses)

2.2 Global State: 1. Relapse (up to 12 months FU)



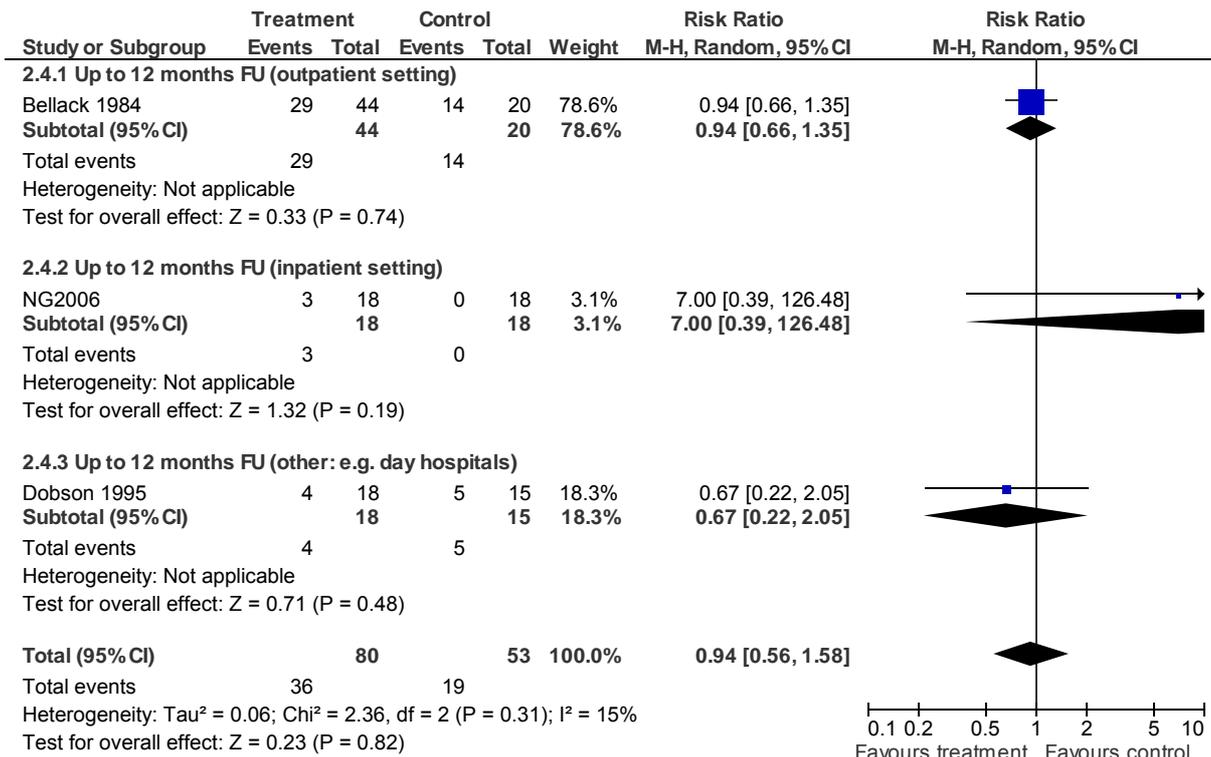
Psychological clinical evidence: Social skills training (subgroup analyses)

2.3 Global State: 2. Relapse and readmission (combined) (By 1 yr into treatment/ end of treatment)



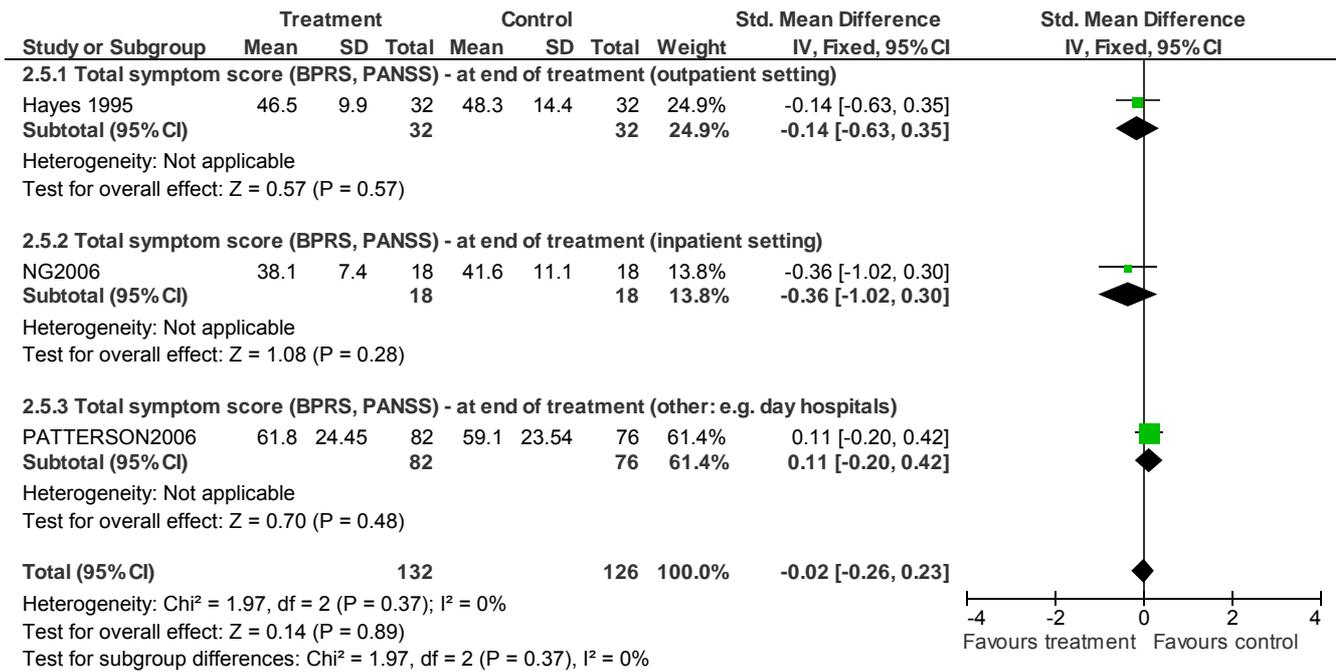
Psychological clinical evidence: Social skills training (subgroup analyses)

2.4 Global State: 2. Relapse and readmission (combined) (up to 12 months FU)

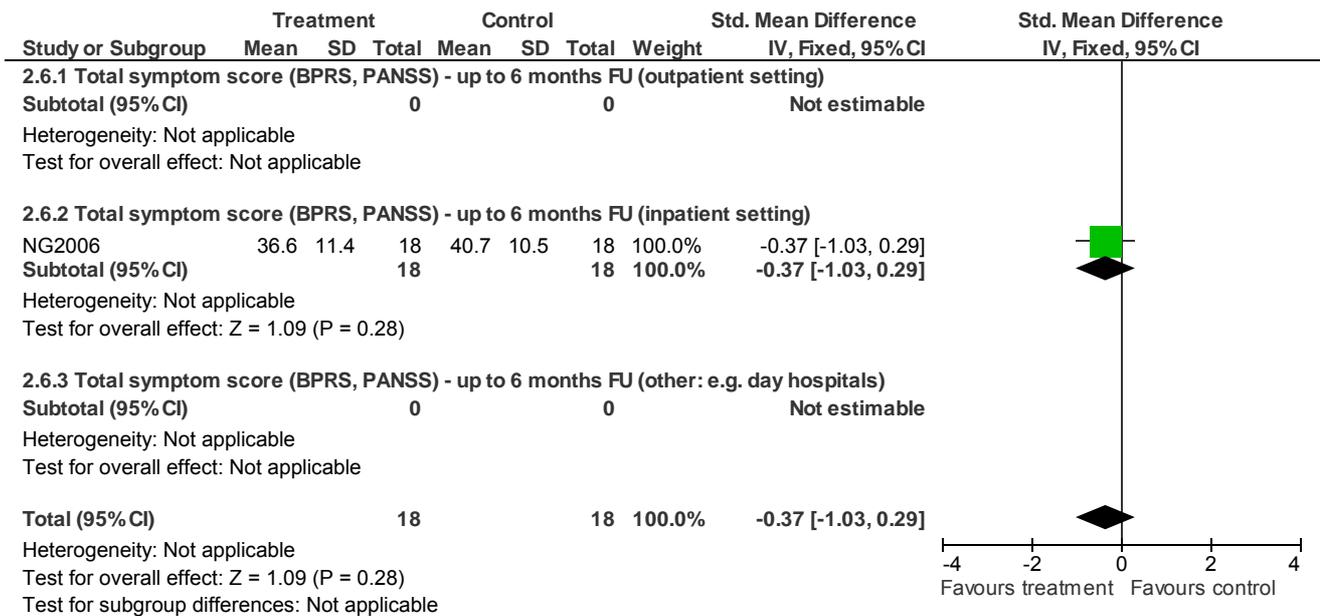


Psychological clinical evidence: Social skills training (subgroup analyses)

2.5 Mental State: 1. Continuous measures - Total symptom score (Lower = better) (at end of treatment)

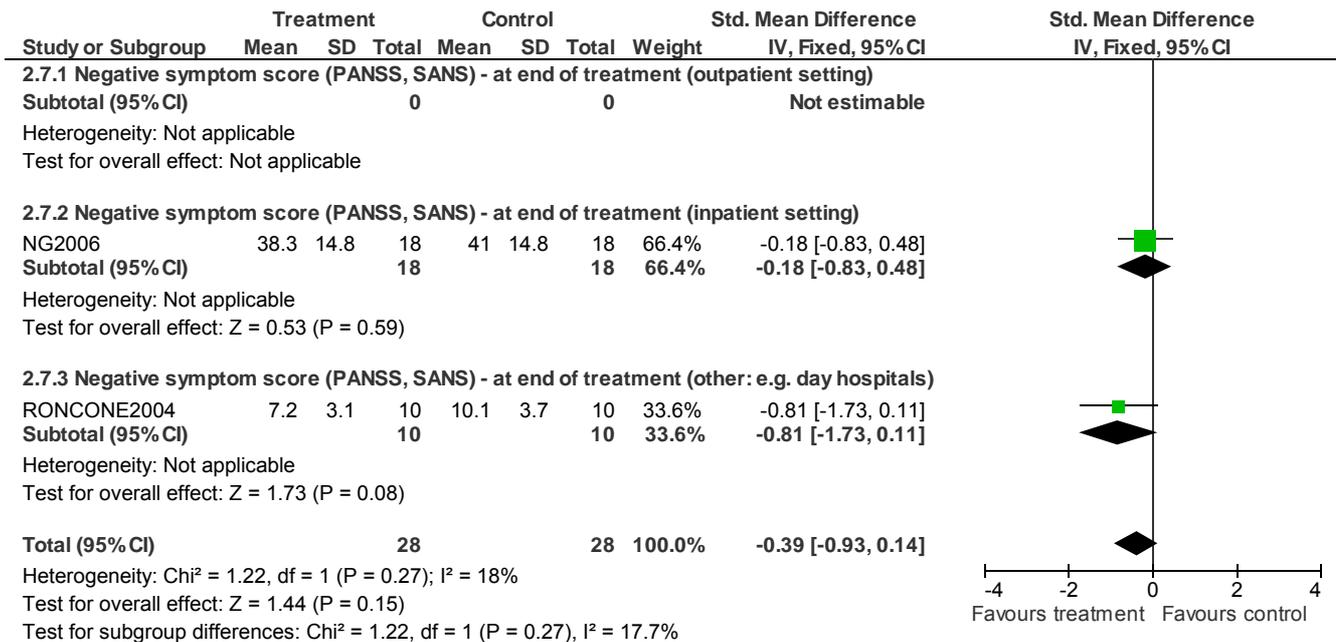


2.6 Mental State: 1. Continuous measures - Total symptom score (Lower = better) (at FU)

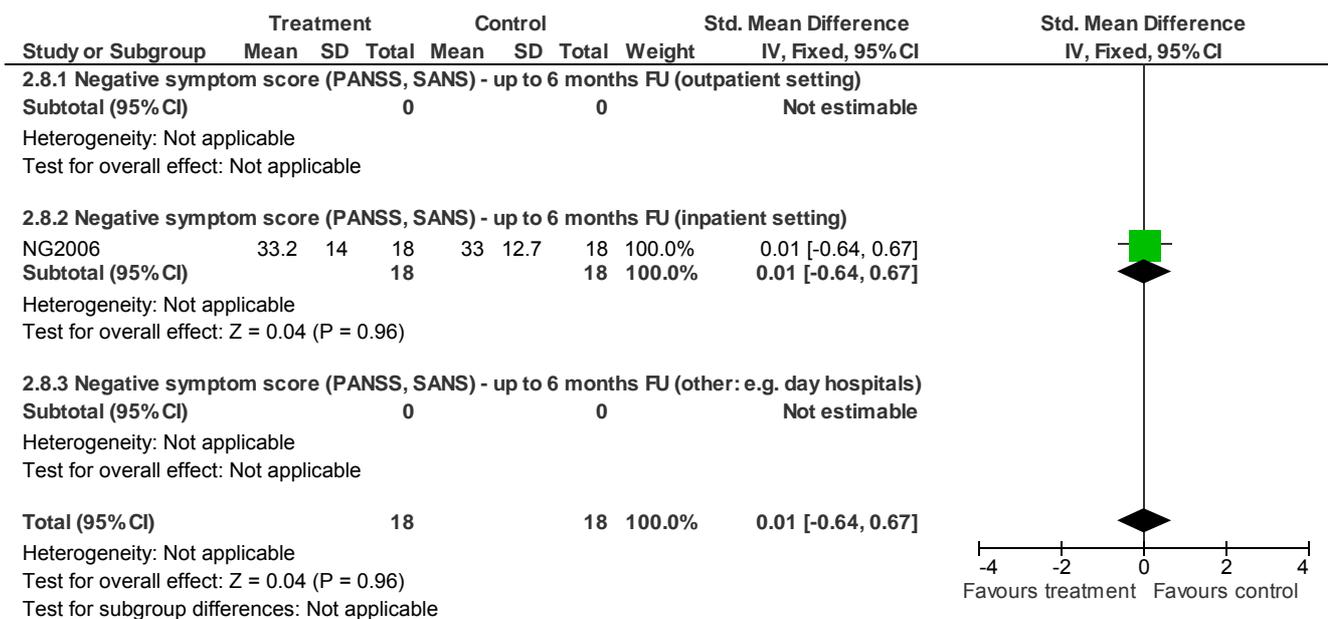


Psychological clinical evidence: Social skills training (subgroup analyses)

2.7 Mental State: 2. Continuous measures - Negative symptom score (Lower = better) (at end of treatment)

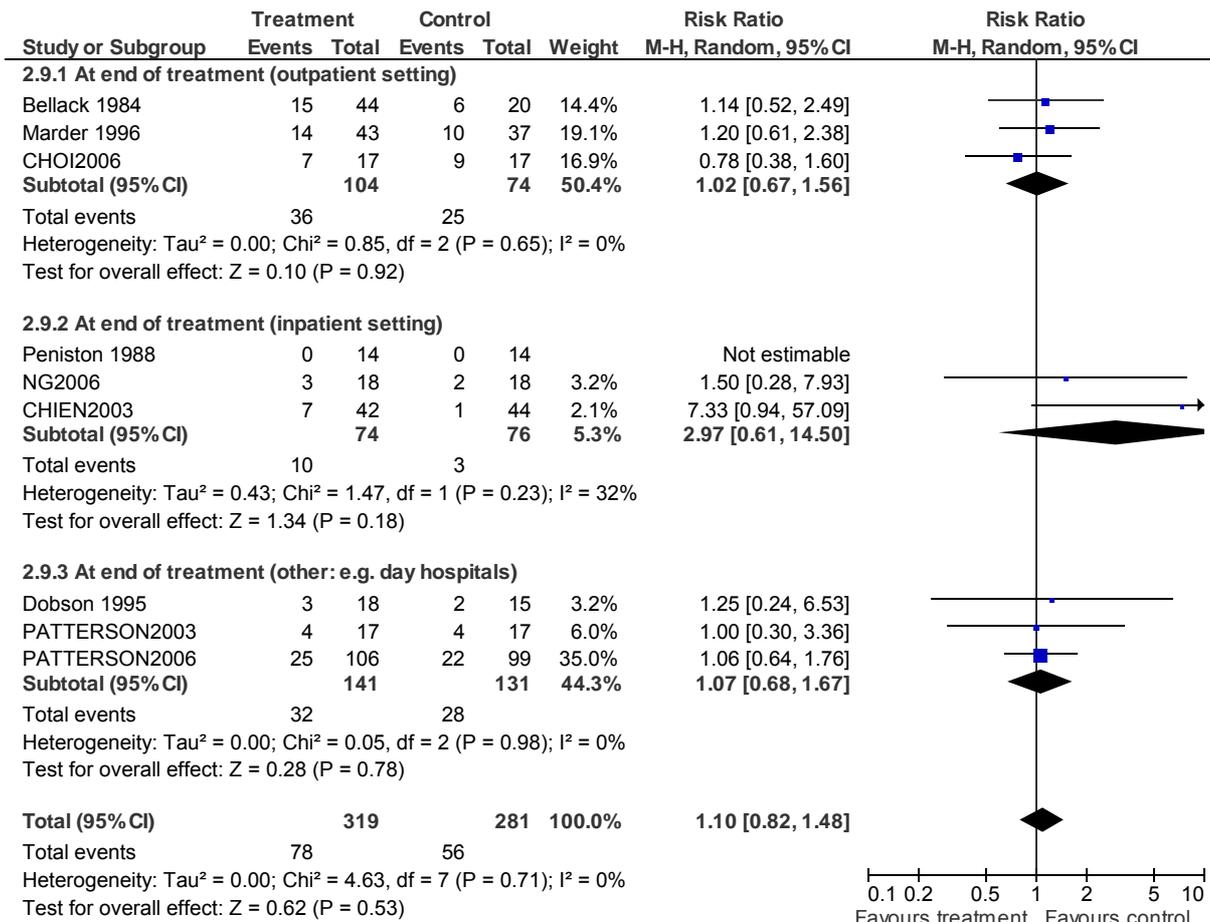


2.8 Mental State: 2. Continuous measures - Negative symptom score (Lower = better) (at FU)



Psychological clinical evidence: Social skills training (subgroup analyses)

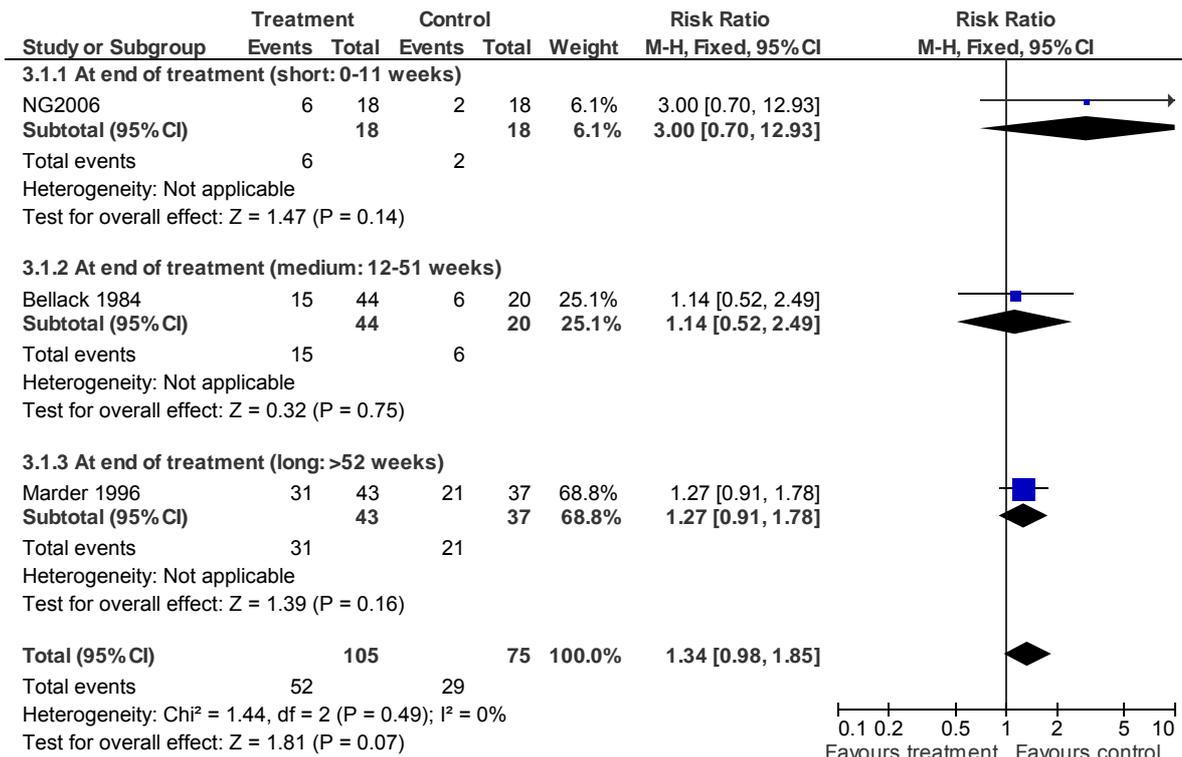
2.9 Treatment Acceptability: 1. Leaving for any reason (at end of treatment)



3 Social skills training versus any control - subgroup analysis by duration

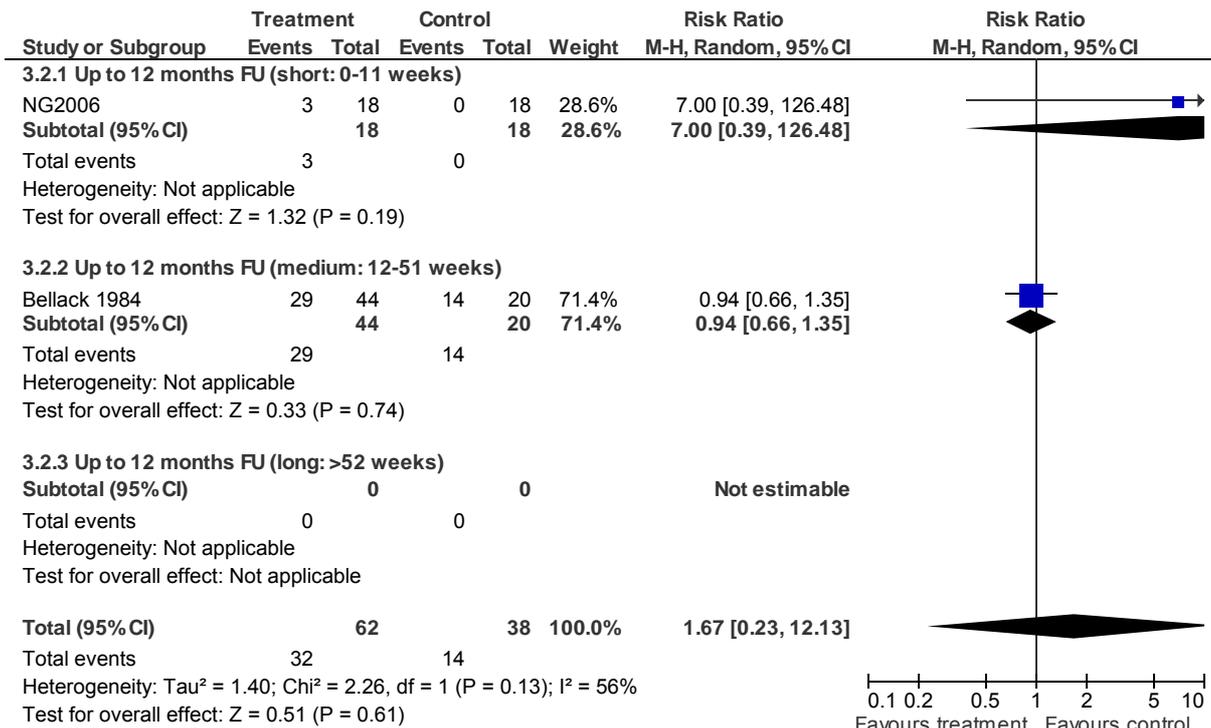
Psychological clinical evidence: Social skills training (subgroup analyses)

3.1 Global State: 1. Relapse (at end of treatment)



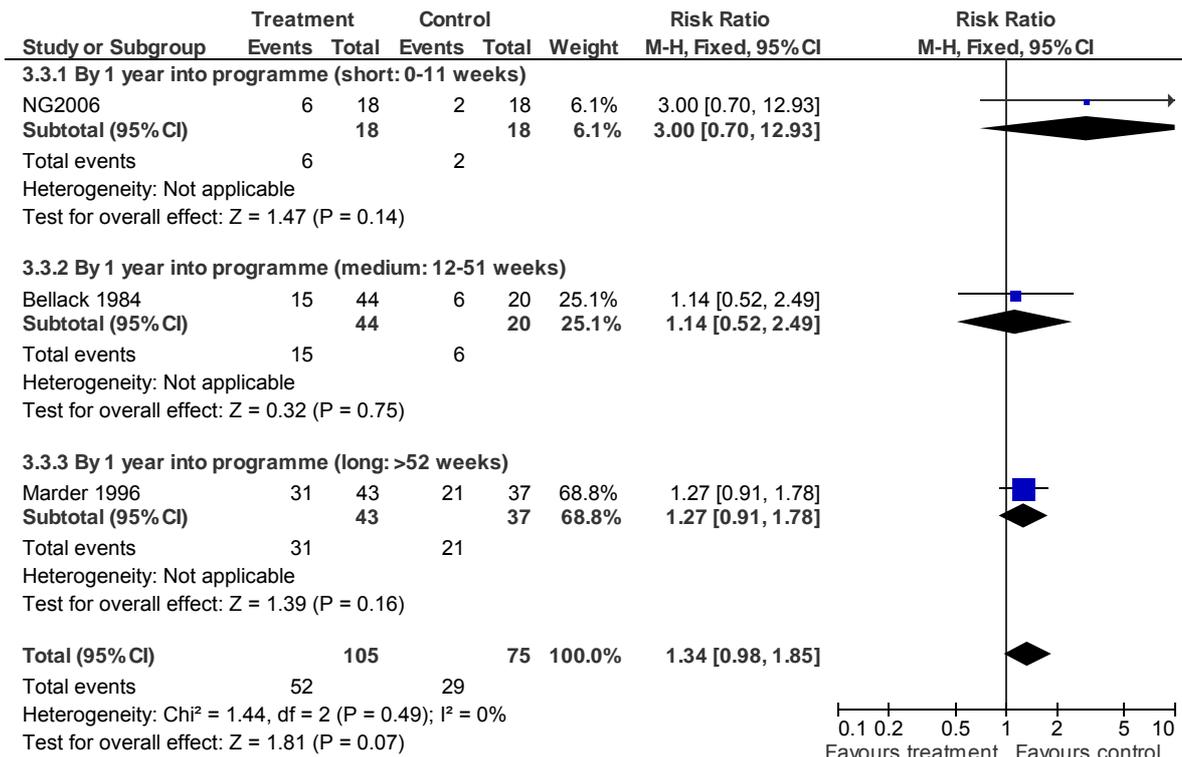
Psychological clinical evidence: Social skills training (subgroup analyses)

3.2 Global State: 1. Relapse (up to 12 months FU)



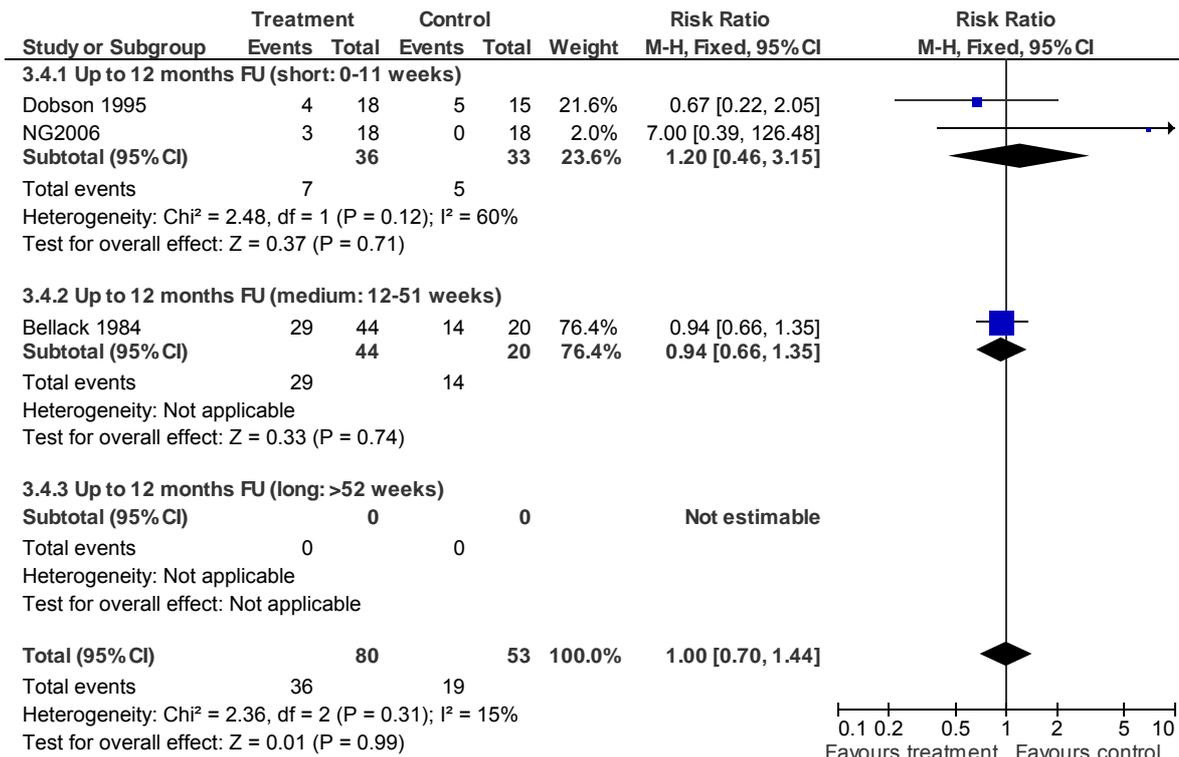
Psychological clinical evidence: Social skills training (subgroup analyses)

3.3 Global State: 2. Relapse and Readmission (combined) (By 1 year into programme/ end of treatment)



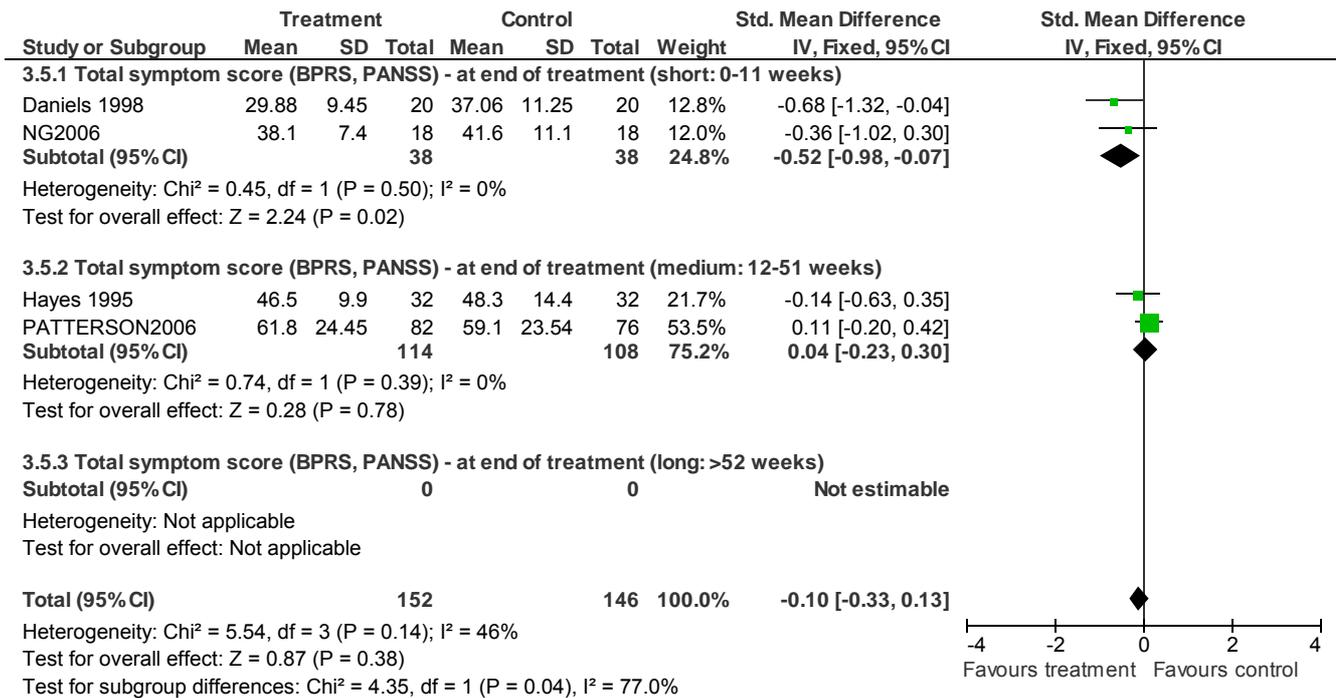
Psychological clinical evidence: Social skills training (subgroup analyses)

3.4 Global State: 2. Relapse and Readmission (combined) (up to 12 months FU)

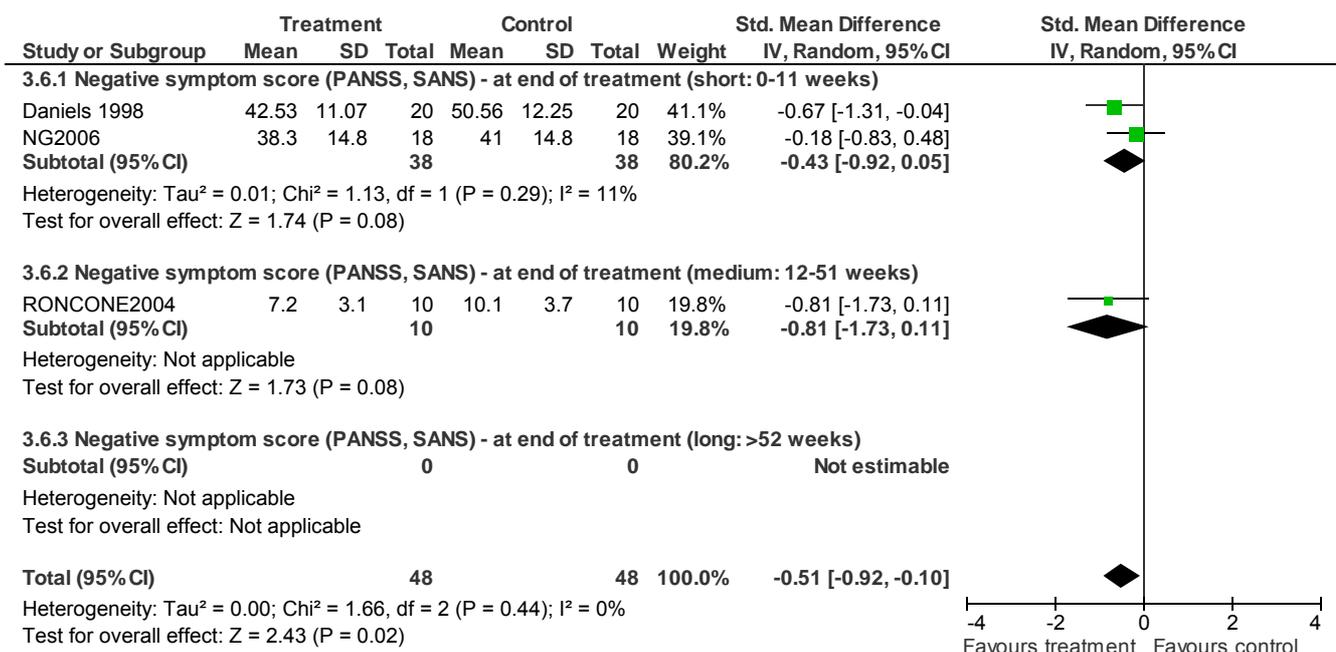


Psychological clinical evidence: Social skills training (subgroup analyses)

3.5 Mental State: 1. Continuous measures - Total symptom score (lower = better) (at end of treatment)

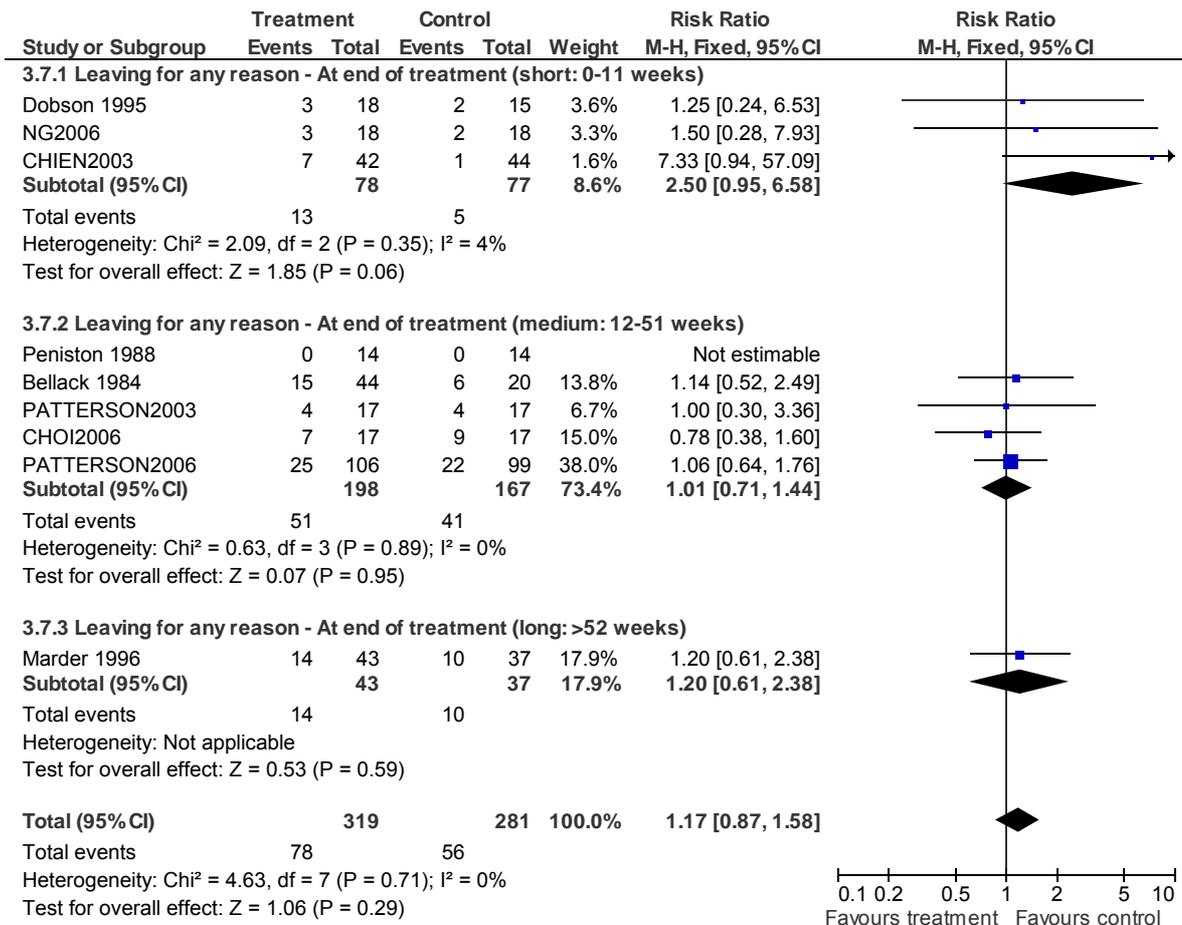


3.6 Mental State: 2. Continuous measures - Negative symptom score (lower = better)



Psychological clinical evidence: Social skills training (subgroup analyses)

3.7 Treatment Acceptability: 1. Leaving for any reason



0.1 0.2 0.5 1 2 5 10
Favours treatment Favours control