

Appendix 22a: 2009 Access and engagement study characteristics tables

Please note that some of the references and the data in this appendix have been incorporated from the previous guideline and have therefore not been updated to reflect current house style.

Full terms of abbreviations are listed at the back of the guideline, except in some instances where they are explained in situ.

An asterisk next to an author's name indicates that their study is the primary study.

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Study characteristics tables: Early intervention services

Early intervention services

Characteristics of included studies (update)

Study ID

CRAIG2004-LEO

General info

Funding source: Non-industry support

Directorate of Health and Social Care London research and development organisation and management programme (grant No Brixton Early Psychosis Project RDC 01657).

Published or unpublished data?: Published

Method

Type of study: Individual randomised trial (effectiveness/pragmatic)

Type of analysis: ITT

ITT analysis was used to compare the outcomes at 18 months and to determine whether patients had relapsed at any point. Patients who had previously relapsed but had recovered by 18 months were included as "well" at that point.

Blindness: Only raters blind

Two of the researchers (TKJC and PG) agreed on the ratings for recovery (full or partial) and relapse, based on operationalised criteria, which were applied to extracts of the clinical case notes from which information pertaining to group allocation had been removed. Group allocation remained concealed until completion of the ratings. To test the success of blinding, assessors guessed the group allocation of each patient. The two raters correctly guessed the allocation of 60% (95% confidence interval 52% to 63%) of the patients (0.20).

Duration: No. weeks of treatment - 78 weeks

Raters: Not stated to be independent of treatment

Design: Single-centre - Lambeth, London, UK

Number of people screened, excluded & reasons:

319 people presented to psychiatric services between January 2000 and October 2001 with symptoms suggestive of a psychotic disorder.

144 met the inclusion criteria and were randomised

175 excluded

- 38 not resident in Lambeth, too old or too young.

- 90 didn't meet diagnostic criteria

- 35 already engaged with services

- 12 lost before confirmed

Study characteristics tables: Early intervention services

Notes about study methods:

Eligible patients were randomised by permuted random blocks of between two and six. Group allocation was concealed in sealed envelopes. The trial statistician independently carried out the randomisation and concealment of results. Patients were informed of the randomisation process, and written consent was sought to collect outcome data from case notes and by interview as soon as feasible after randomisation and at follow up 18 months later.

Participants **Diagnosis:** Schizophrenia [% of sample]- 69% (100/144) schizophrenia

Diagnosis: Other schizophrenia related [%] - 31% (44/144) - individual diagnoses not specified, but inclusion criteria was diagnosis in ICD-10 codes F20-29

Diagnostic tool: ICD-10

Inclusion criteria:

- Aged 16-40
- Living in London Borough of Lambeth
- Presenting to the mental health service for the first time with non-affective psychosis (schizophrenia, schizotypal, and delusional disorders, F20-29)
- People who had presented once but had been disengaged without treatment from routine community services.

Exclusion criteria:

- Organic psychosis or a primary drug or alcohol addiction
- Non-English speakers were not excluded but asylum seekers who were liable to enforced dispersal were excluded.

Total sample size:

No. randomised: 144 randomised

71 to specialised care

73 to standard care

Total sample size: ITT population

Data on number of relapses and readmissions to hospital were obtained for 136 (94%) patients over the 18 months of follow up. We had complete information on clinical status (recovered, unwell or relapsed) for 131 (91%) patients at 18 months.

Gender: % female - 35% female (51/144)

In specialised care group - 45% female (32/71)

In standard care - 26% female (19/73)

Age: Mean

age mean (SD) years

specialised care - 26 (6.0)

Standard care - 26.6(6.4)

Ethnicity: number (%)

Study characteristics tables: Early intervention services

[specialised / Standard]

white - 27 (38) / 18 (25)

Black British 10 (14) / 6(8)

Black Caribbean 9 (13) / 13 (18)

Black African 16 (23) / 25 (34)

Mixed 6 (8) / 6 (8)

Other 3 (4) / 5 (6)

Setting: Outpatient

Setting: Inpatient

Baseline stats: [Specialised care / Standard care] - characteristics No (%)

First episode - 61 (86) / 52 (71)

Single - 50 (71) / 51 (73)

Living situation:

Family - 37 (54) / 40 (55)

Alone - 23 (33) / 18 (25)

Other* - 9 (13) / 15 (20)

Employment:

Full time - 9 (13) / 8 (11)

Part time - 4 (6) / 5 (7)

Unemployed - 45 (63) / 45 (64)

Student - 10 (14) / 10 (14)

Housewife - 3 (4) / 2 (3)

*Shared with friends or living in hostel

DUP - mean (SD) in months - 10.5(17.2) / 7.6(10.7)

not statistically significantly different.

Notes about participants: For most patients, admission to hospital was their first experience of mental health care (43 of 71 patients (61%) in specialised care group, 44 of 73 patients (60%) in control group) two thirds of which were involuntary admissions (specialised care 67%, controls 72%).

Interventions Intervention - group 1.: specialised care (assertive outreach for early psychosis); n=71; duration = 18 months

Intervention - group 2.: standard care; duration = 18 months; n=73

Study characteristics tables: Early intervention services

Notes about the interventions:

Assertive outreach for early psychosis

The Lambeth Early Onset (LEO) Team is a community team comprising 10 members of staff (team leader, part time consultant psychiatrist, trainee psychiatrist, half time clinical psychologist, occupational therapist, four community psychiatric nurses, and two healthcare assistants). It was established on the principles of assertive outreach, providing an extended hours service by including weekends and public holidays.

Evidence based interventions adapted to the needs of people with early psychosis included low dose atypical antipsychotic regimens, cognitive behaviour therapy based on manualised protocols and family counselling and vocational strategies based on established protocols. Adherence to the assertive outreach model and to these treatment protocols was ensured through supervision of cognitive behaviour therapy, medication prescribing, family support, and the assertive outreach model. Whereas medication was prescribed to all patients, the range of psychological interventions varied according to need as assessed by the treating clinicians.

Standard care

Patients in the control group received standard care delivered by the community mental health teams. These teams received no additional training in the management of early psychosis, although they were encouraged to follow available guidelines.

Outcomes**Death:**

Natural causes - 1 patient in control group died - unknown cause

Death:

Suicide - 1 patient in control group died

Other:

Primary outcomes - Rates of relapse and readmission.

Secondary outcomes - number of appointments offered, missed appointments, psychosocial treatments offered, number in recovery at endpoint.

Quality

1.1 The study addresses an appropriate and clearly focused question.: Well covered

1.2 The assignment of subjects to treatment groups is randomised.: Not reported adequately

1.3 An adequate concealment method is used.: Adequately addressed

1.4 Subjects and investigators are kept 'blind' about treatment allocation.: Poorly addressed

1.5 The treatment and control groups are similar at the start of the trial.: Adequately addressed

specialised care group - fewer men, more first episode patients, more white. Not stated if statistically significantly different or not.
specialised care group longer DUP - stated not significantly different.

Stats section states "Subsequent analyses controlled for possible imbalances in characteristics at baseline."

1.6 The only difference between groups is the treatment under investigation.: Well covered

1.7 All relevant outcomes are measured in a standard, valid and reliable way.: Well covered

Study characteristics tables: Early intervention services

1.8 What percentage of the individuals or clusters recruited into each treatment arm of the study dropped out before the study was completed?: <20% complete info available on 131/144 (91%) of patients at 18 month follow up.

1.9 All the subjects are analysed in the groups to which they were randomly allocated (often referred to as intention-to-treat analysis).: Well covered

1.10 Where the study is carried out at more than one site, results are comparable for all sites.: Not applicable

2.1 How well was the study done to minimise bias?: +

Study ID

GRAWE2006-OTP

Funding source: Non-industry support

Published or unpublished data?: Published

Method

Type of study: Individual randomised trial (effectiveness/pragmatic)

Type of analysis: ITT

LOCF used for missing assessments.

Blindness: Only raters blind

Duration: No. weeks of treatment - 104 weeks

Raters: Independent of treatment

Design: Single-centre - New referrals to mental health services in Sor-Trondelag county, Norway

Number of people screened, excluded & reasons:

168 screened of which 96 met criteria for schizophrenia.

46 of those were excluded due to -

-not recent onset (21)

-substance abuse (4)

-lived out of catchment area (4)

-no written consent (4)

-mental retardation (2)

-not recovered from initial episode (11)

50 were left for randomisation.

Study characteristics tables: Early intervention services

Notes about study methods:

Written consent and baseline assessments completed before randomisation which was conducted by an independent assistant with no knowledge of patients. A secretary (not part of clinical service) opened prenumbered envelopes with treatment group assigned according to random numbers provided by the central Optimal Treatment Project administration. Blocks were of variable size (8-12), stratified according to sex with a treatment ratio of 3:2 to ensure majority of cases received experimental treatment.

Participants **Diagnosis:** Schizophrenia [% of sample] 80%

Diagnosis: Other schizophrenia related [%]

schizoaffective - 12%

schizophreniform - 8%

Diagnostic tool: DSM-IV used SCID-IV interviews to give DSM-IV diagnosis

Inclusion criteria:

- age 18-35

- diagnosis DSM-IV schizophrenic disorders

- recent onset (<2 years since first psychotic symptoms)

Exclusion criteria:

- first psychotic symptoms >2 years ago

- primary substance use disorder or mental retardation

- temporary residents not expecting to stay longer than 1 year

Total sample size: ITT population - 50

Total sample size: No. randomised - 50

Gender: % female - 38% female

Age: Mean 25.4(4.6) years

Setting: Outpatient

Setting: Inpatient

Baseline stats:

Integrated / standard

mean (sd) GAF: 52.5(11.2) / 45.7(8.2)

mean (sd) BPRS: 38.5 (7.8) / 42.8 (6.6)

drug dose (CPZ equiv) 208 (91) / 261 (137)

Contact with family

Study characteristics tables: Early intervention services

living with parents/family 16 (53) / 12 (60)
 weekly contact 9 (30) / 5 (25)
 none/little contact 5 (17) / 3 (15)

Hospitalised before study entry
 no 2 (7) / 6 (30)
 yes 28 (93) / 14 (70)
 days in hosp in 12 months before study entry
 mean (sd) 122.4 (105.8) / 125 (105)

Interventions **Intervention - group 1:** integrated treatment, n= 30 participants

Intervention - group 2: standard treatment, n= 20 participants

Notes about the interventions:

Standard treatment

Clinic-based case management with antipsychotics, supportive housing, day care, inpatient treatment, rehab (promoted independent living & work activity), brief psychoeducation, supportive psychotherapy. 80% received standard treatment from hospital outpatient service, the rest from general health services.

Integrated treatment

Treatment by an MDT separate from standard treatment programme. Pharmacotherapy and case management similar to standard care but low case load (approx 1:10). Also received structured family psychoeducation, cognitive-behavioural family communication and problem solving skills training, intensive crisis management at home, individual CBT for residual symptoms and disability.

Treatment sessions were conducted at home, content and frequency tailored to goals and needs of patients and carers (most cases - hour per week for 2 months, then at least once every 3 weeks for first year, then once a month for second year). At times of crisis up to 3 sessions a week at home plus telephone consultation. If patient had less than weekly contact with carer then educational and problem solving training offered in individual sessions.

The lowest effective dose of antipsychotic was used with monotherapy preferred, plasma assays to optimise dose and check adherence. Depots offered to those non-adherent.

Outcomes **Leaving the study early:** Leaving due to any reason (non-adherence to study protocol)

Global state & service outcomes (e.g. CGI): Relapse

Study characteristics tables: Early intervention services

Global state & service outcomes (e.g. CGI): Re-hospitalisation

Mental state (e.g. BPRS, PANSS, BDI): Average score/change in mental state - BPRS

General and psychosocial functioning (e.g. SFS): Average score/change in general functioning - GAF

Engagement with services (e.g. SES): Average score/change in engagement with services - Number of admissions

Non-adherence to study medication: Non-adherence

Other:

Minor/major recurrence

persistent symptoms

adherence to psychosocial

Quality

1.1 The study addresses an appropriate and clearly focused question.: Well covered

1.2 The assignment of subjects to treatment groups is randomised.: Well covered

1.3 An adequate concealment method is used.: Well covered

1.4 Subjects and investigators are kept 'blind' about treatment allocation.: Adequately addressed

1.5 The treatment and control groups are similar at the start of the trial.: Adequately addressed - Significant difference in GAF scores between groups at baseline. This is mentioned in results and statistical analysis with initial scores as covariates included.

1.6 The only difference between groups is the treatment under investigation.: Well covered

1.7 All relevant outcomes are measured in a standard, valid and reliable way.: Well covered

1.8 What percentage of the individuals or clusters recruited into each treatment arm of the study dropped out before the study was completed?: <20%

1.9 All the subjects are analysed in the groups to which they were randomly allocated (often referred to as intention-to-treat analysis). :Well covered

1.10 Where the study is carried out at more than one site, results are comparable for all sites.: Not applicable

2.1 How well was the study done to minimise bias?: ++

Study characteristics tables: Early intervention services

Study ID

KUIPERS2004-COAST

General info**Funding source:** Not mentioned**Published or unpublished data?:** Published**Method****Type of study:** Individual randomised trial**Type of analysis:** Completer

Scale based data used only those available at follow up

Type of analysis: ITT

Hospitalisation data was available for all participants who were randomised.

Blindness: Only raters blind**Duration:** No. weeks of treatment - 52**Raters:** Independent of treatment**Design:** Single-centre - Croydon, UK (single service)**Number of people screened, excluded & reasons:**

Of the 76 people referred, 59 consented to take part in the study

Notes about study methods:

Randomisation based on permuted blocks carried out by an independent administrator using a computer programme.

Participants**Diagnosis:** Schizophrenia [% of sample] - 83% schizophrenia or schizoaffective disorder**Diagnosis:** Other6% *Bipolar affective*

10% Drug induced psychosis/ depression and psychosis

Diagnostic tool: Other method - Operational Criteria Checklist**Inclusion criteria:**

- Part of Croydon adult mental health services

- Aged 18-65

- Documented first contact with services within 5 years.

Exclusion criteria:

- Primary learning disability

- Organic psychosis

Total sample size: No. randomised - 59**Gender:** % female - 24%

Study characteristics tables: Early intervention services

	<p>Age: Mean - 28</p> <p>Ethnicity: Details not reported</p> <p>Setting: Outpatient</p> <p>Setting: Inpatient</p> <p>Setting: Other - Service level intervention</p> <p>History: - Details not reported</p> <p>Baseline stats: [COAST / TAU] GAF: 5.4(1.1) / 5.9(1.6)</p>
Interventions	<p>Intervention - group 1.: COAST - Croydon outreach and assertive support team, N = 32</p> <p>Intervention - group 2.: TAU; N = 27</p> <p>Notes about the interventions: COAST The coast service consisted of a team leader, care co-ordinators, clinical psychologist, consultant psychiatrist and family therapists. A range of interventions including medication review and monitoring, vocational and benefits help, individual CBT, family therapy and information about psychosis were offered on a flexibly basis.</p> <p>TAU Remained within the referring team and offered usual services available from a multidisciplinary team which did not include specialised psychological interventions, nor information tailored to the first episode psychosis.</p>
Outcomes	<p>Global state & service outcomes (e.g. CGI): Average score/change in global state - GAF</p> <p>Global state & service outcomes (e.g. CGI): Days in hospital</p> <p>Mental state (e.g. BPRS, PANSS, BDI): Average score/change in mental state - PANSS positive, negative and general subscales; BDI</p> <p>Quality of Life: Average score/change in quality of life - MANSa</p> <p>Other: Carer outcome -Unmet needs</p>
Quality	<p>1.1 The study addresses an appropriate and clearly focused question.: Well covered</p> <p>1.2 The assignment of subjects to treatment groups is randomised.: Well covered</p> <p>1.3 An adequate concealment method is used.: Well covered</p> <p>1.4 Subjects and investigators are kept 'blind' about treatment allocation.: Poorly addressed</p> <p>1.5 The treatment and control groups are similar at the start of the trial.: Adequately addressed</p>

Study characteristics tables: Early intervention services

- 1.6 The only difference between groups is the treatment under investigation.:** Adequately addressed
- 1.7 All relevant outcomes are measured in a standard, valid and reliable way.:** Adequately addressed
- 1.9 All the subjects are analysed in the groups to which they were randomly allocated (often referred to as intention-to-treat analysis).**
: Poorly addressed
- 1.10 Where the study is carried out at more than one site, results are comparable for all sites.:** Not applicable
- 2.1 How well was the study done to minimise bias?:** +

Study ID

PETERSEN2005A-OPUS

General info**Funding source:** Non-industry support**Published or unpublished data?:** Published**Method****Type of study:** Individual randomised trial (effectiveness/pragmatic)**Type of analysis:** ITT

For participants lost-to-follow-up at 2 years, two assumptions made: either carried forward from baseline, or assumed remission

Blindness: Open**Duration:** Length of follow-up - See secondary papers**Duration:** No. weeks of treatment - 104**Raters:** Independent of treatment**Design:** Multi-centre - All mental health services in Copenhagen and Aarhus county, Denmark**Number of people screened, excluded & reasons:**

547 randomised

Notes about study methods:

The included patients were centrally randomised to integrated treatment or standard treatment. In Copenhagen, randomisation was carried out through centralised telephone randomisation at the Copenhagen Trial Unit. The allocation sequence was computer generated, 1:1, in blocks of six, and stratified for each of five centres. In Aarhus, the researchers contacted a secretary by telephone when they had finished the entry assessment of each patient. The secretary then drew one lot from among five red and five white lots out of a black box. When the block of 10 was used, the lots were redrawn. Block sizes were unknown to the investigators.

Participants**Diagnosis:** Schizophrenia [% of sample] - 66%

Study characteristics tables: Early intervention services

Diagnosis:

Other schizophrenia related [%] - Schizotypal: 14%

Delusional disorder: - 5%

Brief psychosis: - 8%

Schizoaffective: - 5%

Unspecified non-organic psychosis: - 2%

Diagnostic tool: ICD-10**Inclusion criteria:**

- Aged 18-45 years

- ICD-10 schizophrenia spectrum diagnosis

- Had not been given antipsychotic drugs for more than 12 weeks of continuous treatment.

Total sample size: No. randomised - 547**Total sample size:** ITT population - 436 analysed at 2-year follow-up**Gender:** % female - 41%**Age:** Mean - 26**Setting:** Inpatient**Setting:** Outpatient**History:**

[Integrated / Standard]

Median weeks DUP: 46 / 53

Baseline stats:

[Integrated / Standard]

Diagnosis of harm or dependence syndrome: 73 (27) / 73 (27)

Psychopathology scores:

Psychotic: 2.8 (1.4) / 2.6 (1.4)

Negative: 2.2 (1.2) / 2.2 (1.2)

Disorganised: 1.0 (0.9) / 1.0 (1.0)

Social functioning:

Mean (SD) GAF symptoms: 32.7 (10.3) / 34.4 (11.0)

Mean (SD) GAF function: 41.6 (13.6) / 41.0 (13.1)

Living conditions:

Living alone, with partner or child: 208 (76) / 213 (80)

Study characteristics tables: Early intervention services

Living with parents: 49 (18) / 41 (15)

Living in supervised setting: 1 (0) / 2 (1)

Homeless: 14 (5) / 10 (4)

Inpatient at randomisation: 117 (43) / 127 (47)

Notes about participants:

Less than 12 weeks antipsychotic use (as per inclusion criteria)

Interventions **Intervention - group 1.:** Integrated treatment: 2 years; n=275

Intervention - group 2.: Standard treatment: 2 years; n=272

Notes about the interventions:

Integrated treatment

Assertive community treatment enhanced by family involvement and social skills training, delivered to patients individually by multidisciplinary teams with caseloads of about 10. Patients were visited in their homes or other places in their community according to their preference. During hospitalisation, treatment responsibility was transferred to the hospital, but a team member visited the patient once a week. A crisis plan was developed for each patient. If the patient was reluctant about treatment, the team stayed in contact with the patient and tried to motivate the patient to continue treatment. The fidelity of the programme, measured with the index of fidelity of assertive community treatment was 70% in both Copenhagen and Aarhus.

Psychoeducational family treatment was offered, following a manual focused on problem solving and development of skills to cope with the illness. This included 18 months of treatment, 1.5 hours twice monthly, in a multiple family group with two therapists and four to six patients with their families.

Patients with impaired social skills were offered social skills training focusing on medication, coping with symptoms, conversation, and problem solving skills in a group of maximum six patients and two therapists.

Standard treatment

Usually offered the patient treatment at a community mental health centre. Each patient was usually in contact with a physician, a community mental health nurse, and in some cases also a social worker. Home visit was possible, but office visits were the general rule. A staff member's caseload in the community mental health centres varied between 1:20 and 1:30. Outside office hours, patients could refer themselves to the psychiatric emergency room.

Patients in both treatment groups were offered antipsychotic drugs according to guidelines from the Danish Psychiatric Society, which recommend a low dose strategy for patients with a first episode of psychotic illness and use of second generation antipsychotic drugs as first choice.

Outcomes **Death:** Suicide

Study characteristics tables: Early intervention services

Death: Natural causes

Leaving the study early: Leaving due to any reason (non-adherence to study protocol)

Mental state (e.g. BPRS, PANSS, BDI): Average score/change in mental state - SAPS and SANS (summed for the three dimensions), suicidality (thoughts and attempts), diagnoses of depression and dependence

General and psychosocial functioning (e.g. SFS): Average score/change in general functioning - GAF

Engagement with services (e.g. SES): Average score/change in engagement with services - No. days in hospital

Satisfaction with treatment: Service user satisfaction

Quality of Life: Average score/change in quality of life - Living independently, employed, in education, social circle (number of friends and family)

Other:

Adherence to treatment, antipsychotic use (doses and types)

Quality

1.1 The study addresses an appropriate and clearly focused question.: Well covered

1.2 The assignment of subjects to treatment groups is randomised.: Well covered

1.3 An adequate concealment method is used.: Well covered

1.4 Subjects and investigators are kept 'blind' about treatment allocation.: Poorly addressed

1.5 The treatment and control groups are similar at the start of the trial.: Well covered

1.6 The only difference between groups is the treatment under investigation.: Adequately addressed

1.7 All relevant outcomes are measured in a standard, valid and reliable way.: Well covered

1.8 What percentage of the individuals or clusters recruited into each treatment arm of the study dropped out before the study was completed?: 20-50%

1.9 All the subjects are analysed in the groups to which they were randomly allocated (often referred to as intention-to-treat analysis).: Poorly addressed

1.10 Where the study is carried out at more than one site, results are comparable for all sites.: Not addressed

2.1 How well was the study done to minimise bias?: ++

References to included studies (update)**CRAIG2004-LEO**

*Craig,T.K.; Garety,P.; Power,P.; Rahaman,N.; Colbert,S.; Fornells-Ambrojo,M.; Dunn,G. (2004) The Lambeth Early Onset (LEO) Team: randomised controlled trial of the effectiveness of specialised care for early psychosis. *British Medical Journal*. 329(7474): 1067.

Garety,P.A. (2006) Erratum: "Specialised care for early psychosis: Symptoms, social functioning and patient satisfaction: Randomised controlled trial". *British Journal of Psychiatry* 188(3): Mar06.

Garety,P.A.; Craig,T.K.; Dunn,G.; Fornells-Ambrojo,M.; Colbert,S.; Rahaman,N.; Read,J.; Power,P. (2006) Specialised care for early psychosis: symptoms, social functioning and patient satisfaction: randomised controlled trial. *British Journal of Psychiatry*. 188: 37 - 45.

Power,P.; McGuire,P.; Iaconi,E.; Garety,P.; Morris,E.; Valmaggia,L.; Grafton,D.; Craig,T. (2007) Lambeth early onset (LEO) and outreach & support in south London (OASIS) service. *Early Intervention in Psychiatry* 1(1): Feb07 - 103.

GRAWE2006-OTP

*Grawe,R.W.; Falloon,I.R.; Widen,J.H.; Skogvoll,E. (2006) Two years of continued early treatment for recent-onset schizophrenia: a randomised controlled study. *Acta Psychiatrica Scandinavica* 114(5): 328 - 336.

Morken,G.; Grawe,R.W.; Widen,J.H. (2007) Effects of integrated treatment on antipsychotic medication adherence in a randomized trial in recent-onset schizophrenia. *Journal of Clinical Psychiatry*. 68(4): 566 - 571.

KUIPERS2004-COAST

Kuipers E.; Holloway F.; Rabe-Hesketh S.; Tennakoon L. (2004) An RCT of early intervention in psychosis: Croydon Outreach and Assertive Support Team (COAST). *Social Psychiatry and Psychiatric Epidemiology* 39/5(358-363): not found.

PETERSEN2005-OPUS

Jeppesen,P.; Petersen,L.; Thorup,A.; Abel,M.B.; Oehlenschlaeger,J.; Christensen,T.O.; Krarup,G.; Hemmingsen,R.; Jorgensen,P.; Nordentoft,M. (2005) Integrated treatment of first-episode psychosis: effect of treatment on family burden: OPUS trial. *British Journal of Psychiatry - Supplementum* 48: s85 - s90.

Study characteristics tables: Early intervention services

Nordentoft,M.; Jeppesen,P.; Abel,M.; et al.. (2002) OPUS study: suicidal behaviour, suicidal ideation and hopelessness among patients with first-episode psychosis. One-year follow-up of a randomised controlled trial. *British Journal of Psychiatry*, 181: s98 - 106.

Petersen,L. (2005B) Erratum: A randomised multicentre trial of integrated versus standard treatment for patients with a first episode of psychotic illness (British Medical Journal (September 17, 2005) 331 (602-605)). *British Medical Journal*. 331(7524): 05.

*Petersen,L.; Jeppesen,P.; Thorup,A.; Abel,M.B.; Ohlenschlaeger,J.; Christensen,T.O.; Krarup,G.; Jorgensen,P.; Nordentoft,M. (2005) A randomised multicentre trial of integrated versus standard treatment for patients with a first episode of psychotic illness. *British Medical Journal*. 331: 602.

Petersen,L.; Nordentoft,M.; Jeppesen,P.; Ohlenschlaeger,J.; Thorup,A.; Christensen,T.O.; Krarup,G.; Dahlstrom,J.; Haastrup,B.; Jorgensen,P. (2005B) Improving 1-year outcome in first-episode psychosis: OPUS trial. *British Journal of Psychiatry*. 187 (SUPPL. 48): S98-S103.

Petersen,L.; Jeppesen,P.; Thorup,A.; Ohlenschlaeger,J.; Krarup,G.; Ostergard,T.; Jorgensen,P.; Nordentoft,M. (2007). Substance abuse and first-episode schizophrenia-spectrum disorders. The Danish OPUS trial. *Early Intervention in Psychiatry* 1(1): Feb07 - Feb96.

Thorup,A.; Petersen,L.; Jeppesen,P.; Ohlenschlaeger,J.; Christensen,T.; Krarup,G.; Jorgensen,P.; Nordentoft,M. (2007) Gender differences in young adults with first-episode schizophrenia spectrum disorders at baseline in the Danish OPUS study. *Journal of Nervous & Mental Disease*. 195: 396-405.

Thorup,A.; Petersen,L.; Jeppesen,P.; Ohlenschlaeger,J.; Christensen,T.; Krarup,G.; Jorgensen,P.; Nordentoft,M. (2005B) Integrated treatment ameliorates negative symptoms in first episode psychosis--results from the Danish OPUS trial. *Schizophrenia Research* 79(1): 95 - 105.

Thorup,A.; Petersen,L.; Jeppesen,P.; Ohlenschlaeger,J.; Christensen,T.; Krarup,G.; Jorgensen,P.; Nordentoft,M. (2006) Social network among young adults with first-episode schizophrenia spectrum disorders: results from the Danish OPUS trial. *Social Psychiatry & Psychiatric Epidemiology* 41(10): 761 - 770.

Thorup,A.; Petersen,L.; Jeppesen,P.; Nordentoft,M. (2007) Frequency and predictive values of first rank symptoms at baseline among 362 young adult patients with first-episode schizophrenia. Results from the Danish OPUS study. *Schizophrenia Research*. 97(1-3): 60 - 67.

Services - ACT vs. standard care

Characteristics of included studies (update)

Study ID and country	Interventions and comparisons	Participants	Ethnicity data	Lost to follow-up	Other notes
MORSE1992 St Louis, US	1. Continuous treatment team program including assertive outreach 2. Drop in centre 3. Standard outpatient treatment ACT vs. Standard care	Schizophrenia – 30.1% Major depression – 20.9% Bipolar disorder – 8.5% Other psychotic disorders – 4.5%	52.5% of the participants were non-white. Virtually all of the non-white participants were African American	Continuous treatment team – 15/52 (29%) Drop-in centre – 32/62 (52%) Outpatient treatment – 29/64 (45%)	All participants were currently homeless Participants who left the study early (n=28) were replaced by people randomly assigned to one of the groups. Data in the review was based on sample sizes after the replacement of early drop outs. More participants needed to be replaced in the day centre program and outpatient program than in the continuous treatment condition
AUDINI1994 London, UK	1. continuing home care 2. out/in-patient care (after 30 months of home care) 3. controls (no home care) ACT vs. Standard care	SMI – with 38% of the total sample diagnosed with schizophrenia.	States ethnic background of participants was the same as in south Southwark British/Irish – 65% Afro-Caribbean – 26%	Continuing home-care – 3/33 Out/in-patient care – 4/32 (+1 participant who committed suicide during intervention) Above two groups combined as both received ACT ACT – 7/65 Control – 17/97	Participants were originally randomized into DLP home-care of control. After 20 months of home-based care, (Phase 1) home-care participants were randomised at month 30 into phase II to have either further home-based care or out/in patient care. Study notes that 26 participants originally randomized into home-care could not be re-randomised in phase 2 due to leaving the study for various reasons.

Study characteristics tables: Social skills training

BOND1988 Indiana, US	1. Assertive case management 2. Standard community care ACT vs. Standard care	Schizophrenia – 61%	White – 64% Black – 34% Latino – 2%	Attrition rate by 6 months ACT – 18/84 SC – 25 / 83	
BOND1990 Chicago, US	1. ACT – Stein & test model 2. Drop-in centre providing standard community care ACT vs. Standard care	Schizophrenia 38%	[ACT / Drop-in] Race (n/%) White: 31(69) / 25(58) Black: 14(31) / 13(30) Other: 0(0) / 5(12)	Lost to follow-up for any reason in study: ACT – 11/44 Drop-in 19/43 All people lost to follow up from the study had also dropped out from treatment. In addition to this 21 participants in the drop-in centre group had also dropped out of treatment. Thus in total, after 1 year, 33 (76%) of the ACT participants and only 3(7%) of the Drop-in centre participants were involved in the respective programmes.	
LEHMAN1997 Maryland, US	1. ACT program – modified version of Stein & Test 2. Usual community services	Schizophrenia – 45% Schizo affective - 14% Bipolar – 20.5% Depressive disorder – 8.5%	There was a difference in ethnicity between the ACT and control subjects *indicates a	ACT – 10/ 77 SC – 17/75	Intervention was aimed at homeless people with SMI Those refusing to consent in the study did not differ in terms of ethnicity from those who consented

Study characteristics tables: Social skills training

	ACT vs. Standard care	Other Axis I disorder - 12%	<p>significant different $p < .01$.</p> <p>[ACT / control] African American: 61 / 84 White: 35 / 12</p> <p>Follow-up paper reports mean cost per case with results reported by ethnicity.</p> <p>Patient race interacted with the observed patterns of service utilization - White patients accounted for the significantly lower utilization of in-patient mental health care for ACT, whereas Black patients accounted for the significantly lower utilization of mental health ER visits. Similarly, the observed ACT vs. SC difference in use of out-patient</p>		<p>to participate.</p> <p>Due to the significant differences, ethnicity was included as a covariate in the analysis</p>
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Study characteristics tables: Social skills training

			substance misuse treatment was due primarily to significant increases in the use of these services among Black ACT patients.		
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Study characteristics tables: Social skills training

<p>BUSH1990</p> <p>Atlanta, US</p>	<p>1. Intensive support from case managers in the community</p> <p>2. Control – some of the same services but at a less intense level. These participants received the same case management and rehabilitation services that they had received prior to the study</p> <p>ACT vs. case management*</p>	<p>Schizophrenia – 86%</p> <p>Bipolar disorder – 7%</p> <p>Personality disorders – 7%</p>	<p>Black – 50%</p> <p>White - 50%</p>	<p>No mention of lost to follow up: appears to be a completer analysis.</p> <p>ACT – 0/14</p> <p>Case management – 0/14</p>	<p>In the intensive treatment, case managers provided a range of services to the clients where they lived, which included boarding homes, jails, hospitals and on the streets.</p>
<p>CHANDLER1997</p> <p>California, US</p> <p>Paper was actually published 1999 – may have been unpublished at time of initial Cochrane review</p>	<p>1. ACT – capitated assertive community treatment program. This combined ACT with specialist services in substance abuse, employment and social skills.</p> <p>2. Usual county services – all participants were currently in locked subacute long-term facilities.</p> <p>ACT vs. Hospital-based rehabilitation</p>	<p>Schizophrenia – 61%</p> <p>Schizoaffective – 34%</p> <p>Other psychotic – 5%</p>	<p>[ACT / control]</p> <p>Race (%)</p> <p>African-American: 40.0 / 55.2</p> <p>Caucasian: 40.0 / 27.6</p> <p>Other: 20.0 / 17.2</p>	<p>ACT – 3/29*</p> <p>Control – 2/30</p> <p>1 client in the ACT group died so had been removed from the analysis (e.g. total lost to follow up for any reason = 4/30)</p>	<p>At the time of study group assignment all participants were residents in a long-term locked subacute facility.</p> <p>Trial was cluster randomized.</p> <p>There were significant group differences in terms of the number that had previously been in state institution (ACT – 67%, comparison – 33%)</p>

Study characteristics tables: Social skills training

References to included studies (update)**AUDINI1994** (Published Data Only)

Audini, B., Marks, I. M., Lawrence, R. E., Connolly, J., & Watts, V. (1994). Home-based versus out-patient/in-patient care for people with serious mental illness. Phase II of a controlled study. *British Journal of Psychiatry* 165, 204-210.

BOND1988 (Published Data Only)

Bond, G. R., Miller, L. D., Krumwied, R. D., & Ward, R. S. (1988). Assertive case management in three CMHCs: a controlled study. *Hospital and Community Psychiatry* 39, 411-418.

BOND1990 (Published Data Only)

Bond, G. R., Witheridge, T. F., Dincin, J., Wasmer, D., & Webb, J. D. G.-K. R. (1990). Assertive community treatment for frequent users of psychiatric hospitals in a large city: a controlled study. *American Journal of Community Psychology*; 18:865-91.

BUSH1990 (Published Data Only)

Bush, C. T., Langford, M. W., Rosen, P., & Gott, W. (1990). Operation outreach: intensive case management for severely psychiatrically disabled adults. *Hospital and Community Psychiatry* 41, 647- 649.

CHANDLER1997 (Published Data Only)

Chandler, D., Spicer, G., Wagner, M., & Hargreaves, W. (1997). Cost-effectiveness of a capitated Assertive Community Treatment program. *Psychiatric Rehabilitation Journal* 22 [4], 327-336.

LEHMAN1997 (Unpublished and Published Data)

*Lehman, A. F., Dixon, L. B., Kernan, E., DeForge, B. R., & Postrado, L. T. (1997). A randomized trial of assertive community treatment for homeless persons with severe mental illness. *Archives of General Psychiatry*, 54, 1038-1043.

Lehman, A. F., Dixon, L., Hoch, J. S., Deforge, B., Kernan, E., & Frank, R. (1999). Cost-effectiveness of assertive community treatment for homeless persons with severe mental illness. *The British Journal of Psychiatry* 174, 346-352.

MORSE1992 (Published Data Only)

*Morse, G. A., Calsyn, R. J., Allen, G., Templehoff, B., & Smith, R. (1992). Experimental comparison of the effects of three treatment programs for homeless mentally ill people. *Hospital and Community Psychiatry* 3, 1005-1010.

Calsyn, R. J., Morse, G. A., Klinkenberg, W. D., Trusty, M. L., & Allen, G. (1998). The impact of assertive community treatment on the social relationships of people who are homeless and mentally ill. *Community Mental Health Journal*, 34, 579-593.

Study characteristics tables: Social skills training

Characteristics of excluded studies (update)

ABERG1999 - does not report drop out within an ethnically diverse population

DECANGAS1994 - does not report drop out within an ethnically diverse population

DEKKER2002 - does not report drop out within an ethnically diverse population

DRAKE1998 - does not report drop out within an ethnically diverse population

ESSOCK1995 - does not report drop out within an ethnically diverse population

FEKETE1998 - does not report drop out within an ethnically diverse population

HAMPTON1992 - does not report drop out within an ethnically diverse population

HERINCKX1997 - does not report drop out within an ethnically diverse population

JERRELL1995 - does not report drop out within an ethnically diverse population

LAFAVE1996 - does not report drop out within an ethnically diverse population

MARX1973 - does not report drop out within an ethnically diverse population

MORSE1997 - does not report drop out within an ethnically diverse population

QUINLIVAN1995 - does not report drop out within an ethnically diverse population

ROSENHECK1993 - does not report drop out within an ethnically diverse population

TEST1991 - does not report drop out within an ethnically diverse population

References of excluded studies (update)

ABERG1999 (Published Data Only)

Aberg, A., Cresswell, T., Lidberg, Y., Liljenberg, B., & Osby, U. (1995). Two-year outcome of team-based intensive case management for patients with schizophrenia. *Psychiatric Services*, 46, 1263-1266.

DECANGAS1994 (Published Data Only)

De Cangas J., P., C., (1994) "Case management " affirmatif: une evaluation complete d'un programme du genre en milieu hospitalier. *Sante Mentale au Quebec*, 19 75-92.

DEKKER2002 (Published Data Only)

Dekker, J., Wijdenes, W., Koning, Y. A., Gardien, R., Hermandes, W. L., & Nusselder, H. (2002). Assertive community treatment in Amsterdam. *Community Mental Health Journal*, 38, 425-434.

Study characteristics tables: Social skills training

DRAKE1998 (Published Data Only)

Drake, R. E., McHugo, G. J., Clark, R. E., Teague, G. B., Xie, H., Miles, K. et al. (1998). Assertive community treatment for patients with co-occurring severe mental illness and substance use disorder: a clinical trial. *American Journal of Orthopsychiatry*, 68, 201-215.

Clark, R. E., Teague, G. B., Ricketts, S. K., Bush, P. W., Xie, H., McGuire, T. G. et al. (1998). Cost-effectiveness of assertive community treatment versus standard case management for persons with co-occurring severe mental illness and substance use disorders. *Health Services Research*, 33, 1285-1308.

McHugo, G. J., Drake, R. E., Teague, G. B., & Xie, H. (1999). Fidelity to assertive community treatment and client outcomes in the New Hampshire dual disorders study. *Psychiatric Services*, 50, 818- 824.

ESSOCK1995 (Published Data Only)

Essock, S. M. & Kontos, N. (1995). Implementing assertive community treatment teams. *Psychiatric Services* 46, 679-683.

FEKETE1998 (Published Data Only)

Fekete, D. M., Bond, G. R., McDonel, E. C., Salyers, M., Chen, A., & Miller, L. (1998). Rural assertive community treatment: a field experiment. *Psychiatric Rehabilitation Journal*, 21, 371-379.

HAMPTON1992 (Published Data Only)

Hampton, B., Korr, W., Mayes, J., Havis P., (1992) *Integration services system approach to avert homelessness, CSP homeless prevention project for HMI adults*. State of Illinois NIMH Demonstration Grant program, Final report.

HERINCKX1997 (Published Data Only)

*Herinckx, H. A., Kinney, R. F., Clarke, G. N., & Paulson, R., I (1997). Assertive community treatment versus usual care in engaging and retaining clients with severe mental illness. *Psychiatric Services*, 48, 1297-1306.

Clarke, G. N. (2000). Psychiatric hospitalizations, arrests, emergency room visits and homelessness of clients with serious and persistent mental illness: Findings from a randomized trial of two ACT programs vs. usual care. *Mental Health Services Research*, 2, 155-164.

JERRELL1995 (Published Data Only)

Jerrell, J. M. (1995). Toward managed care for persons with severe mental illness: Implications from a cost-effective study. *Health Affairs* 14, 197-207.

Jerrell, J. M., Hu, T., & Ridgely, M. S. (1994). Cost-effectiveness of substance disorder interventions for people with severe mental illness. *Journal of Mental Health Administration* 21, 283-297.

Jerrell, J. M. & Ridgely, M. S. (1995). Comparative effectiveness of three approaches to serving people with severe mental illness and substance abuse disorders. *Journal of Nervous and Mental Diseases* 183, 566-576.

Study characteristics tables: Social skills training

LAFAVE1996 (Published Data Only)

Lafave, H. G., deSouza, H. R., & Gerber, G. J. (1996). Assertive Community Treatment of severe mental illness: a Canadian experience. *Psychiatric Services* 47, 757-759.

MARX1973 (Published Data Only)

Marx, A., Stein, L., & Test, M. (1973). Extra hospital management of severe mental illness. Feasibility and effects of social functioning. *Archives of General Psychiatry* 29[4], 505-511.

MORSE1997 (Published Data Only)

*Morse, G. A., Calsyn, R. J., Klinkenberg, W. D., Trusty, M. L., Gerber, F., & Smith, R. (1997). An experimental comparison of three types of case management for homeless mentally ill persons. *Psychiatric Services* 48, 497-503.

Wolff, N., Helminiak, T. W., Morse, G. A., Calsyn, R. J., Klinkenberg, W. D., & Trusty, M. L. (1997). Cost-effectiveness evaluation of three approaches to case management for homeless mentally ill clients. *American Journal of Psychiatry* 154, 341-348.

QUINLIVAN1995 (Published Data Only)

Quinlivan, R., Hough, R., Crowell, A., Beach, C., Hofstetter, R., & Kenworthy, K. (1995). Service utilization and costs of care for severely mentally ill clients in an intensive case management program. *Psychiatric Services* 46, 365-371.

ROSENHECK1993 (Published Data Only)

Rosenheck, R. & Neale, M. (1998). Cost-effectiveness of intensive psychiatric community care for high users of in-patient services. *Archives of General Psychiatry* 55 [5], 459-466.

Rosenheck, R., Neale, M., Leaf, P., Milstein, R., & Frisman, L. (1995). Multisite experimental cost study of intensive psychiatric community care. *Schizophrenia Bulletin* 21, 129-140.

*Rosenheck, R., Neale, M., & Gallup, P. (1993). Community-oriented mental health care: assessing diversity in clinical practice. *Psychosocial Rehabilitation Journal* 16, 39-50.

TEST1991 (Published Data Only)

Kuhlman, T. L. (1992). Unavoidable tragedies in Madison, Wisconsin: a third view. *Hospital and Community Psychiatry* 43, 72-73.

Cohen, L. J., Test, M. A., & Brown, R. L. (1991). Suicide and schizophrenia: data from a prospective community treatment study. *American Journal of Psychiatry* 147, 602-607.

Study characteristics tables: Social skills training

*Test, M. A., Knoedler, W. H., Allness, D. J., Burke, S. S., Brown, R. L., & Wallisch, L. S. (1991). Long term community care through an assertive continuous treatment team. In Tamminga, C. A. and Schulz, S. C., eds. *Advances in Neuropsychiatry and Psychopharmacology. Volume 1: Schizophrenia Research*. New York, Raven.

Characteristics of excluded studies (Bipolar guideline review)

BIGELOW1991 Not a RCT

BOND1989 Not a RCT (housing interventions)

BOND1991 Not a RCT

BORLAND1989 Not a RCT (Intensive case management)

BURNS1991 Home treatment team, not ACT

CHAMPNEY1992 Case management, no ACT

DEAN1990 Not a RCT

DEAN1993 Not a RCT

DHARWANDKAR1994 Not a RCT

FENTON1979 Intensive community support vs. standard care, not ACT

GOERING1988 Not a RCT

HERZ1977 Brief hospitalisation vs. standard hospital care, not ACT

HORNSTRA1993 Not a RCT

HOULT1983 ACT vs. acute admission (focus of another review)

KNIGHT1990 Not a RCT

KULDAU1977 Rapid discharge vs. hospital care, not ACT

LANGSLEY1971 Family crisis case management vs. hospital admission, not ACT

LEHMAN1993 Case management vs. case management

MACIAS1994 Case management vs. psychological rehabilitation programme, not ACT

MARSHALL1995 Case management vs. standard care, not ACT

MARTIN1993 Unclear if randomised

MCFARLANE1992 Unclear if randomised, ACT vs. FACT

MCGOWAN1995 Unclear if randomised,

MCGREW1994 Not a RCT

MERSON1992 home treatment vs. emergency assessment, no standard care group

MODCRIN1988 Not a RCT (Case management vs. case management)

MOSHER1975 Not a RCT

MUIJEN1992 ACT vs. acute admission (focus of another review)

PAI1982 Not a RCT

Study characteristics tables: Social skills training

POLAK1976 Community based therapeutic environment vs. standard hospital care
REIBEL1976 Brief hospital admission, not ACT
ROSSLER1992 Not a RCT
ROSSLER1995 Not a RCT
SANTIAGO1985 Case management vs. standard care, not ACT
SLEDGE1996A Both treatments were hospital based (partial hospitalisation vs. standard hospitalisation)
SOLOMON1994 Case management vs. case management
SOLOMON1995B Not RCT (ACT vs. forensic intensive case management vs. standard care)
STEIN1980 ACT vs. hospital admission (focus of another review)
SUSSER1997 Critical time intervention, not ACT
TEAGUE1995 Not a RCT
THORNICROFT1991 Not a RCT
TORO1997 Only 20% had SMI
TYRER1995 Case management vs. standard care, not ACT
TYRER2003 Review
VINCENT1977 Not a RCT
WOOD1994 Not a RCT

References of excluded studies (Bipolar guideline review)**BIGELOW1991**

Bigelow, D. A. & Young, D. J. (1991). Effectiveness of a case management program. *Community Mental Health Journal* 27, 115-123.

BOND1989

Bond, G. R., Witheridge, T. F., Wasmer, D., Dincin, J., McRae, S. A., Mayes, J. et al. (1989). A comparison of two crisis housing alternatives to psychiatric hospitalization. *Hospital and Community Psychiatry* 40, 177-183.

BOND1991

Bond, G. R., McDonel, E. C., Miller, L. D., & Pensec, M. (1991). Assertive community treatment and reference groups: an evaluation of their effectiveness for young adults with serious mental illness and substance abuse problems. Special issue: serving persons with dual disorders of mental illness and substance use. *Psychosocial Rehabilitation Journal* 15, 31-43.

BORLAND1989

Borland, A., McRae, J., & Lycan, C. (1989). Outcomes of five years of continuous intensive case management. *Hospital and Community Psychiatry* 40, 369-376.

Study characteristics tables: Social skills training

BURNS1991

Burns, T., Beadsmoore, A., Ashok, V. B., Oliver, A., & Mathers, C. (1993). A controlled trial of home-based acute psychiatric services. I: Clinical and social outcome. *British Journal of Psychiatry* 163, 49-54.

Burns, T., Raftery, J., Beadsmore, A., McGuigan, S., & Dickson, M. (1991). A controlled trial of home-based acute psychiatric services. II: Treatment patterns and costs. *British Journal of Psychiatry* 163, 55-61.

*Burns, T. & Raftery, J. (1991). Cost of schizophrenia in a randomized trial of home-based treatment. *Schizophrenia Bulletin* 17, 407-410.

CHAMPNEY1992

Champney, T. F. & Dzurec, L. C. (1992). Involvement in productive activities and satisfaction with living situation among severely mentally disabled adults. *Hospital and Community Psychiatry* 43, 899-903.

DEAN1990

Dean, C. & Gadd, E. M. (1990). Home treatment for acute psychiatric illness. *British Medical Journal*, 301, 1021-1023.

DEAN1993

Dean, C., Phillips, J., Gadd, E. M., Joseph, M., & England, S. (1993). Comparison of community based services with hospital based service for people with acute, severe psychiatric illness. *British Medical Journal* 307, 473-476.

DHARWANDKAR1994

Dharwandkar, N. (1994). Effectiveness of an assertive outreach community treatment program. *Australian and New Zealand Journal of Psychiatry* 28, 244-249.

FENTON1979

Fenton, W. S., Tessier, L., Struening, E. L., Smith, F. A., Benoit, C., & Contandriopoulos, A. P. (1984). A two-year follow-up of a comparative trial of the cost-effectiveness of home and hospital psychiatric treatment. *Canadian Journal of Psychiatry* 29, 205-211.

Fenton, W. S., Tessier, L., Contandriopoulos, A. P., Nguyen, H., & Stuenkel, E. L. (1982). A comparative trial of home and hospital psychiatric treatment: financial costs. *Canadian Journal of Psychiatry* 27, 177-185.

*Fenton, W. S., Tessier, L., & Stuenkel, E. L. (1979). A comparative trial of home and hospital psychiatric care: one-year follow-up. *Archives of General Psychiatry* 36, 1073-1079.

GOERING1988

Goering, P. N., Wasylenk, D. A., Farkas, M., Lancee, W. J., & Ballantyne, R. (1988). What difference does case management make? *Hospital and Community Psychiatry* 39, 272-276.

Study characteristics tables: Social skills training

HERZ1977

Herz, M. I., Endicott, J., & Spitzer, R. L. (1977). Brief hospitalization: a two-year follow-up. *American Journal of Psychiatry* 134, 502-507.

HORNSTRA1993

Hornstra, R. K., Bruce-Wolfe, V., Sagduyu, K., & Riffle, D. W. (1993). The effect of intensive case management on hospitalization of patients with schizophrenia. *Hospital and Community Psychiatry* 44, 844-847.

HOULT1983

Reynolds, I. & Hoult, J. E. (1984). The relatives of the mentally ill: a comparative trial of community-oriented and hospital oriented psychiatric care. *Journal of Nervous and Mental Disease* 172, 480- 489.

Hoult, J. & Reynolds, I. (1984). Schizophrenia: a comparative trial of community oriented and hospital oriented psychiatric care. *Acta Psychiatrica Scandinavica* 69, 359-372.

*Hoult, J., Reynolds, I., Charbonneau-Powis, M., Weekes, P., & Briggs, J. (1983). Psychiatric hospital versus community treatment: the results of a randomized trial. *Australian and New Zealand Journal of Psychiatry* 101, 160-167.

KNIGHT1990

Knight, R. G. & Carter, P. M. (1990). Reduction of psychiatric inpatient stay for older adults by intensive case management. *The Gerontologist* 30, 510-515.

KULDAU1977 (Published Data Only)

Kuldau, J. M. & Dirks, S. J. (1977). Controlled evaluation of a hospital-originated community transitional system. *Archives of General Psychiatry* 34, 1331-1340.

LANGSLEY1971

Langsley, D. G., Machotka, P., & Flomenshaft, K. (1971). Avoiding mental hospital admissions: a follow up study. *American Journal of Psychiatry* 127, 1391-1394.

LEHMAN1993

Lehman, A. F., Herron, J. D., Schwartz, R. P., Myers, C.P. (1993) Rehabilitation for adults with severe mental illness and substance misuse disorders: A clinical trial. *Journal of Nervous and Mental Disease*, 181, 86-90.

MACIAS1994 (Published Data Only)

Macias, C., Kinney, R., Farley, O. W., Jackson, R., & Vos, B. (1994). The role of case management within a community support system: partnership with psychosocial rehabilitation. *Community Mental Health Journal* 30, 323-339.

Study characteristics tables: Social skills training

MARSHALL1995

Conway, M. (1995). Care-management for mental illness. *Lancet* 345, 926-927.

*Marshall, M., Lockwood, A., & Gath, D. (1995). Social services case-management for long-term mental disorders: a randomised controlled trial. *Lancet* 345, 409-415.

MARTIN1993

Martin, S. M. & Scarpitti, F. R. (1993). An intensive case management approach for paroled IV drug users. *Journal of Drug Issues* 23, 43-59.

MCFARLANE1992

McFarlane, W. R., Stastny, P., & Deakins, S. (1992). Family-aided assertive community treatment: a comprehensive rehabilitation and intensive case management approach for persons with schizophrenic disorders. *New Directions for Mental Health Services* 53, 43-54.

MCGOWAN1995

McGowan, M., Madison, K., Meisel, J., & Chandler, D. (1995). *Final Report: The Integrated Service Agencies. Report to California Department of Mental Health* (Rep. No. AB3777). Sacramento: Lewin-VHI, Inc.

MCGREW1994

McGrew, J. H., Bond, G. R., Dietzen, L., & Salyers, M. (1994). Measuring the fidelity of implementation of a mental health program model. *Journal of Consulting and Clinical Psychology* 62, 670- 678.

MERSON1992 (Unpublished and Published Data)

Tyrer, P., Merson, S., Onyett, S., & Johnson, T. (1994). The effect of personality disorder on clinical outcome, social networks and adjustment: a controlled clinical trial of psychiatric emergencies. *Psychological Medicine* 24, 731-740.

Merson, S., Tyrer, P., Carlen, D., & Johnson, T. (1996). The cost of treatment of psychiatric emergencies: a comparison of hospital and community services. *Psychological Medicine*, 26, 734.

*Merson, S., Tyrer, P., Onyett, S., Lack, S., Birkett, P. L. S., & Johnson, T. (1992). Early intervention in psychiatric emergencies: a controlled clinical trial. *Lancet* 339, 1311-1314.

MODCRIN1988 (Published Data Only)

Modcrin, M., Rapp, C. A., & Poertner, J. (1988). The evaluation of case management services with the chronically mentally ill. *Evaluation and Program Planning* 11, 307-314.

Study characteristics tables: Social skills training

MOSHER1975

Mosher, L. R. & Menn, A. Z. (1978). Community residential treatment for schizophrenia: two-year follow-up. *Hospital and Community Psychiatry* 29, 715-723.

*Mosher, L. R., Menn, A., & Matthew, S. M. (1975). Soteria: evaluation of a home-based treatment for schizophrenia. *American Journal of Orthopsychiatry* 45, 455-467.

MUIJEN1992 (Published Data Only)

Knapp, M., Beecham, J., Koutsgeorgiopoulou, V., Hallam, A., Fenyo, A., & Marks, I. M. (1994). Service use and costs of home-based versus hospital-based care for people with serious mental illness. *British Journal of Psychiatry* 165, 195-203.

Marks, I. M., Connolly, J., Muijen, M., Audini, B., McNamee, G., & Lawrence, R. E. (1994). Home-based versus hospital-based care for people with serious mental illness. *British Journal of Psychiatry* 165, 179-194.

Muijen, M., Marks, I. M., Connolly, J., Audini, B., & McNamee, G. (1992). The daily Living Programme. Preliminary comparison of community versus hospital-based treatment for the seriously mentally ill facing emergency admission. *British Journal of Psychiatry* 160, 379-384.

*Muijen, M., Marks, I. M., Connolly, J., & Audini, B. (1992). Home based care and standard hospital care for patients with severe mental illness: a randomised controlled trial. *British Medical Journal* 304, 749-754.

Knapp, M., Marks, I. M., Wolstenholme, J., Beecham, J., Astin, J., Audini, B. et al. (1998). Home-based versus hospital-based care for serious mental illness. *British Journal of Psychiatry* 172, 506- 512.

PAI1982

Pai, S. & Nagarajaiah. (1982). Treatment of schizophrenic patients in their homes through a visiting nurse. *International Journal of Nursing Studies* 19, 167-172.

Pai, S. & Roberts, E. J. (1983). Follow-up study of schizophrenic patients initially treated with home care. *British Journal of Psychiatry* 143, 447-450.

Pai, S. & Kapur, R. L. (1983). Evaluation of home care treatment for schizophrenic patients. *Acta Psychiatrica Scandinavica* 67, 80-88.

*Pai, S. & Kapur, R. L. (1982). Impact of treatment intervention on the relationship between dimensions of clinical psychopathology, social dysfunction and burden on the family of psychiatric patients. *Psychological Medicine* 12, 651-658.

POLAK1976 (Published Data Only)

Polak, P. R. & Kirkby, M. W. (1976). A model to replace psychiatric hospitals. *Journal of Nervous and Mental Disease* 162, 13-22.

REIBEL1976

Reibel, S. & Herz, M. I. (1976). Limitations of brief hospital treatment. *American Journal of Psychiatry* 133, 518-521.

Study characteristics tables: Social skills training

ROSSLER1992

Rossler, W., Loffler, W., Fatkenheuer, B., & Reicher-Rossler, A. (1992). Does case management reduce the rehospitalization rate? *Acta Psychiatrica Scandinavica* 86, 445-449.

ROSSLER1995

Rossler, W., Loffler, B., Fatkenheuer, B., & Reicher-Rossler, A. (1995). Case management for schizophrenic patients at risk of rehospitalization - a case control study. *European Archives of Psychiatry and Clinical Neuroscience* 246, 29-36.

SANTIAGO1985

Santiago, J. M., McCall-Perez, F., & Bachrach, L. J. (1985). Integrated services for chronic mental patients: theoretical perspective and experimental results. *General Hospital Psychiatry* 7, 309-315.

SLEDGE1996A (Published Data Only)

Sledge, W. H., Tebes, J., Wolff, N., & Helminiak, T. W. (1996). Day hospital crisis respite care versus inpatient care .2. Service utilization and costs. *American Journal of Psychiatry*, 153, 1074-1083.

*Sledge, W. H., Tebes, J., Rakfeldt, J., Davidson, L., Lyons, L., & Druss, B. (1996). Day hospital/crisis respite care versus inpatient care. Part I. Clinical outcomes. *American Journal of Psychiatry*, 153, 1065-1073.

SOLOMON1994 (Published Data Only)

Solomon, P. & Draine, J. (1995). Consumer case management and attitudes concerning family relations among persons with mental illness. *Psychiatric Quarterly* 66, 249-261.

Solomon, P. & Draine, J. (1994). Family perceptions of consumers as case managers. *Community Mental Health Journal* 30, 165-176.

*Solomon, P., Draine, J., & Meyerson, A. (1994). Jail recidivism and receipt of community mental health services. *Hospital and Community Psychiatry* 45, 793-797.

SOLOMON1995B (Published Data Only)

Solomon, P. & Draine, J. (1995). One-year outcomes of a randomized trial of case management with seriously mentally ill clients leaving jail. *Evaluation Review* 19, 256-273.

STEIN1980 (Published Data Only)

Test, M., Knoedler, W., Allness, D., Burke, S., Brown, R., & Wallisch, L. (1989). Community care of schizophrenia: two-year findings. *Schizophrenia Research: Advances in Neuropsychiatry and Psychopharmacology* 3, 1-16.

Study characteristics tables: Social skills training

Test, M. & Stein, L. (1978). Training in community living: research design and results. *Alternatives to Mental Hospital Treatment*, pp. 57-74. New York: Plenum.

Test, M. & Stein, L. (1976). Training in community living: a follow-up look at a Gold-Award program. *Hospital and Community Psychiatry* 27, 193-194.

Stein, L. & Test, M. (1980). Alternative to mental hospital treatment. I. Conceptual model, treatment program, and clinical evaluation. *Archives of General Psychiatry* 37, 392-397.

Weisbrod, B. A., Test, M. A., & Stein, L. I. (1980). Alternative to mental hospital treatment. II: Economic benefit-cost analysis. *Archives of General Psychiatry* 37, 400-405.

Test, M. A. & Stein, L. I. (1980). Alternative to hospital treatment. III: Social Cost. *Archives of General Psychiatry* 37, 409-412.

Stein, L. I., Test, M. A., & Marx, A. J. (1975). Alternative to the hospital: a controlled study. *American Journal of Psychiatry* 132, 517-522.

SUSSER1997

Susser, E., Valencia, E., Conover, S., Felix, A., Tsai, W. Y., & Wyatt, R. J. (1997). Preventing recurrent homelessness among mentally ill men: a "critical time" intervention after discharge from a shelter. *American Journal of Public Health* 87, 256-262.

TEAGUE1995

Teague, G. B., Drake, R. E., & Ackerson, T. H. (1995). Evaluating the use of continuous treatment teams for persons with mental illness and substance abuse. *Psychiatric Services* 46, 689-695.

THORNICROFT1991

Thornicroft, G. & Breakey, W. R. (1991). The COSTAR programme 1: Improving social networks of the long-term mentally ill. *British Journal of Psychiatry* 159, 245-249.

TORO1997

Toro, P. A., Bellavia, C. W., Wall, D. D., Passero-Rabideau, J. M., Daeschler, C. V., & Thomas, D. M. (1997). Evaluating an intervention for homeless persons: results of a field experiment. *Clinical Psychology* 65, 476-484.

TYRER1995 (Published Data Only)

Tyrer, P., Morgan, J., Van Horn, E., Jayakody, M., Evans, K., & Brummell, R. (1995). A randomized controlled study of close monitoring of vulnerable psychiatric patients. *Lancet* 345, 756-759.

TYRER2003 (Published Data Only)

Tyrer, P. (2003). Treatment models for those with severe mental illness and comorbid personality disorder. *British Journal of Psychiatry*, 182, s15-s18.

Study characteristics tables: Social skills training

VINCENT1977

Vincent, P. & Price, J. R. (1977). Evaluation of a VNA Mental Health Project. *Nursing Research* 26, 361-367.

WOOD1994

Wood, K. & Anderson, J. (1994). The effect on hospital admission of psychiatric case management involving general practitioners: preliminary results. *Australian and New Zealand Journal of Psychiatry* 28, 223-229.

Services - CRHTT vs. standard care**Characteristics of included studies (update)**

Study ID and country	Interventions and comparisons	Participants	Ethnicity data	Lost to follow-up	Other notes
FENTON1998 Montgomery County, US	<p>1. Community residential alternative – eight bed crisis alternative staffed 24 hours a day. The service is based on Soteria and Crossing Place with continuous participation in ongoing community-based treatment, rehabilitation, school, work or other activities supported.</p> <p>2. Standard inpatient care</p> <p>CRHTT vs. Standard care</p>	Schizophrenia, schizoaffective disorder, other psychoses – 56%	[CRHTT / SC] Ethnicity, % Caucasian: 74 / 64 Black: 14 / 28 Other: 6 / 6	CRHTT – 28 / 93 SC – 44 / 92	<p>14% of the randomized participants declined admission after receiving assignment.</p> <p>In total 66 individuals (36%) did not successfully enter the study. The 66 unsuccessful admissions did not differ from the successful admission on any of the 27 variables tested including ethnicity.</p>
PASAMANICK1964 Louisville, US	<p>1. Drug home care group</p> <p>2. Placebo home care group – not used in BP review analysis</p> <p>In both home care groups, visits are</p>	All had schizophrenia	<p>With reference to the 152 patients who completed the study as reported by Pasamanick1967</p> <p>White – 67.1% “negro” – 32.9%</p>	<p>Lost to follow up for those admitted to the programme in the first 18 months</p> <p>Home care (combined) – 9/143 SC – 0/50</p>	<p>Inclusion criteria for the study stated that family members all must express willingness to supervise the patient in the home.</p> <p>The paper states that “many of the patients are drawn from “hard core” or</p>

Study characteristics tables: Social skills training

	<p>made to the home; all patients have access to a 24hr telephone answering service. Practical support and assistance are offered to the family and patient in the home.</p> <p>3. Hospital control group</p> <p>CRHTT vs. Standard care</p>		<p>Pasamanick1967 states: "The study population composed of 102 white and 50 negro patients or a 67 to 33 percentage split. White ITC patients constituted 68.4 percent of the drug, 68.3 percent of the placebo, and 64.8 percent of the hospital control cases. There was a larger percentage of white schizophrenic patients in Central State Hospital (78.4 percent) than in the study population probably because of insistence on returning the patient to a supervised family setting. In general, Negro families even though frequently disorganized, are probably more likely to accept patients for home care since it has been repeatedly demonstrated that the lower the social class position, the greater the tolerance for deviant behaviour."</p>	<p>These are the figures reported in the Pasamanick 1964 paper. They differ from Pasamanick 1967 which reports data for only 163 patients of which lost to follow up rates were:</p> <p>Home care (combined) - 11/109 SC - 0/54</p> <p>This paper notes that these 163 cases represent approx 30% of patients admitted to the hospital and 87% of those who passed the initial hospital screening and were referred to the treatment centre.</p> <p>The analysis is then conducted on the 152 participants who remained in the study</p>	<p>multiproblem families. They tend to represent the lowest socioeconomic stratum of the population and come from disorganized family settings" Paper notes that the patients typify schizophrenia populations in most US state hospitals.</p> <p>With regards to successes e.g. remaining in the home as opposed to re-admission to hospital, the paper states: "Nor were the findings significant with regard to race. Of the 30 white drug cases, about 80 percent succeeded as did 72 percent of the Negro drug patients. As for the placebo patients, race was an equally unimportant variable in the case outcome. This finding negates one of our subsidiary hypotheses about the differential willingness of white and Negro families to tolerate deviant persons and behaviour."</p>
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<p>MUIJEN1992</p> <p>London, UK</p> <p>Reports lost to follow up by ethnicity</p>	<p>1. Home-based care – daily living programme which involved a multidisciplinary team, crisis clinics, 24 hour answering service, home visits and relative support</p> <p>2. Standard hospital care</p> <p>CRHTT vs. Standard care</p>	<p>Schizophrenia – 49% Mania – 17% Depression – 19% Neurosis – 12% Unclassified – 3%</p>	<p>[CRHTT / SC] Ethnic origin. N (%): British or Irish: 57(62) / 63(65) Afro-Caribbean: 23(25) / 20(21) Other: 12(13) / 14(14)</p>	<p>Total lost to follow up CRHTT – 24/92 SC – 36/97</p> <p>[CRHTT / SC] Lost to follow up by ethnicity, number dropped out(total number in sample): British or Irish: 16(62) / 24(63) African-Caribbean: 9(23) / 7(20) Other: 3(12) / 5(14)</p> <p>For the CRHTT the proportion of African-Caribbean individuals lost to follow up is greater than the percentage of British and Irish individuals lost to follow up (39% vs. 21% respectively), For standard care the percentage lost to follow up is equivalent across groups with 38% of British or Irish and 35% of African-Caribbean individuals being</p>	<p>The paper notes that “ethnicity was similar to that of south Southwark population with a slight excess of patients from Afro-Caribbean background.”</p> <p>The reasons for missing data / lost to follow up differed between the two treatment groups with 88% of the CRHTT refusing, whereas hospital patients either refused (42%) or were untraceable (50%) which the authors state is “probably a consequence of lack of clinical follow up in hospital care”</p>
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Study characteristics tables: Social skills training

				lost to follow up. A follow up cost effectiveness study reports service utilization for the two groups but does not provide any information grouped by ethnicity.	
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References of included studies (update)**FENTON1998** (Published Data Only)

Fenton, W. S., Mosher, L. R., Herrell, J. M., & Blyer, C. R. (1998). Randomized trial of general hospital and residential alternative care for patients with severe and persistent mental illness. *American Journal of Psychiatry* 155 [4], 516-522.

MUIJEN1992 (Published Data Only)

Knapp, M., Beecham, J., Koutsgeorgiopoulou, V., Hallam, A., Fenyo, A., & Marks, I. M. (1994). Service use and costs of home-based versus hospital-based care for people with serious mental illness. *British Journal of Psychiatry* 165, 195-203.

Marks, I. M., Connolly, J., Muijen, M., Audini, B., McNamee, G., & Lawrence, R. E. (1994). Home-based versus hospital-based care for people with serious mental illness. *British Journal of Psychiatry* 165, 179-194.

Muijen, M., Marks, I. M., Connolly, J., Audini, B., & McNamee, G. (1992). The daily Living Programme. Preliminary comparison of community versus hospital-based treatment for the seriously mentally ill facing emergency admission. *British Journal of Psychiatry* 160, 379-384.

*Muijen, M., Marks, I. M., Connolly, J., & Audini, B. (1992). Home based care and standard hospital care for patients with severe mental illness: a randomised controlled trial. *British Medical Journal* 304, 749-754.

Knapp, M., Marks, I. M., Wolstenholme, J., Beecham, J., Astin, J., Audini, B. et al. (1998). Home-based versus hospital-based care for serious mental illness. *British Journal of Psychiatry* 172, 506- 512.

Study characteristics tables: Social skills training

PASAMANICK1964 (Published Data Only)

Davis, A. E., Dinitz, S., & Pasamanick, B. (1972). The prevention of hospitalization in schizophrenia: five years after an experimental program. *American Journal of Orthopsychiatry* 42, 375-388.

Pasamanick, B., Scarpitti, F. R., Lefton, M., Dinitz, S., Wernert, J. J., & McPheeters, H. (1967). *Schizophrenics in the community: an experimental study in the prevention of hospitalization*. New York.

*Pasamanick, B., Scarpitti, F. R., Lefton, M., Dinitz, S., Wernert, J. J., & McPheeters, H. (1984). Home versus hospital care for schizophrenics. *Journal of the American Medical Association* 187, 177-181.

Characteristics of excluded studies (update)

FENTON1979 - does not report drop out within an ethnically diverse population

HOULT1981 - does not report drop out within an ethnically diverse population

JOHNSON2005 - does not report drop out (paper used in secondary sub-group analysis)

STEIN1980 - does not report drop out within an ethnically diverse population

References of excluded studies (update)

FENTON1979

Fenton, W. S., Tessier, L., Stuenkel, E. L., Smith, F. A., Benoit, C., & Contandriopoulos, A. P. (1984). A two-year follow-up of a comparative trial of the cost-effectiveness of home and hospital psychiatric treatment. *Canadian Journal of Psychiatry* 29, 205-21

Fenton, W. S., Tessier, L., Contandriopoulos, A. P., Nguyen, H., & Stuenkel, E. L. (1982). A comparative trial of home and hospital psychiatric treatment: financial costs. *Canadian Journal of Psychiatry* 27, 177-185.

*Fenton, W. S., Tessier, L., & Stuenkel, E. L. (1979). A comparative trial of home and hospital psychiatric care: one-year follow-up. *Archives of General Psychiatry* 36, 1073-1079.

HOULT1981 (Published Data Only)

Hoult, J. (1986). Community care of the acutely mentally ill. *British Journal of Psychiatry* 149, 137-144.

*Hoult, J., Reynolds, I., Charbonneau, P. M., Cole, P., & Briggs, J. (1981). A controlled study of psychiatric hospital versus community treatment: the effect on relatives. *Australian and New Zealand Journal of Psychiatry* 15, 323-328.

Study characteristics tables: Social skills training

Hoult, J., Rosen, A., & Reynolds, I. (1984). Community orientated treatment compared to psychiatric hospital orientated treatment. *Social Science and Medicine* 18, 1005-1010.

JOHNSON2005 (Unpublished and Published Data)

Johnson, S., Nolan, F., Pilling, S., Snador, A., Hoult, J., McKenzie, N., White, I. R., Thompson, M., Bebbington, P. (2005) Randomised controlled trial of acute mental health care by a crisis resolution team the north Islington crisis study. *British Medical Journal*, 17, 331 (7517), 586-7.

STEIN1980 (Published Data Only)

Test, M., Knoedler, W., Allness, D., Burke, S., Brown, R., & Wallisch, L. (1989). Community care of schizophrenia: two-year findings. *Schizophrenia Research: Advances in Neuropsychiatry and Psychopharmacology* 3, 1-16.

Test, M. & Stein, L. (1978). Training in community living: research design and results. *Alternatives to Mental Hospital Treatment*, pp. 57-74. New York: Plenum.

Test, M. & Stein, L. (1976). Training in community living: a follow-up look at a Gold-Award program. *Hospital and Community Psychiatry* 27, 193-194.

Stein, L. & Test, M. (1980). Alternative to mental hospital treatment. I. Conceptual model, treatment program, and clinical evaluation. *Archives of General Psychiatry* 37, 392-397.

Weisbrod, B. A., Test, M. A., & Stein, L. I. (1980). Alternative to mental hospital treatment. II: Economic benefit-cost analysis. *Archives of General Psychiatry* 37[4], 400-405.

Test, M. A. & Stein, L. I. (1980). Alternative to hospital treatment. III: Social Cost. *Archives of General Psychiatry* 37, 409-412.

Stein, L. I., Test, M. A., & Marx, A. J. (1975). Alternative to the hospital: a controlled study. *American Journal of Psychiatry* 132, 517-522.

Characteristics of excluded studies (Bipolar guideline review)

BURNS1991 332 randomised, but only 162 entered trial. Majority were not severely ill, only 35% 'psychotic' (CRHTT)

BUSH1990 Participants were not in need of CRHTT, not in acute crisis (Community intensive outreach vs. hospital care)

HENDERSON2004 RCT, looking at joint crisis plans

LEVENSON1977 Treatment not delivered by multidisciplinary team, no 24hr crisis support (Admission vs. hospital care)

MOSHER1975 Not a RCT (CRHTT)

PAI1982 Not a RCT (home vs. hospital care) (CRHTT)

Study characteristics tables: Social skills training

References of excluded studies (Bipolar guideline review)

BURNS1991

Burns, T., Beadsmoore, A., Ashok, V. B., Oliver, A., & Mathers, C. (1993). A controlled trial of home-based acute psychiatric services. I: Clinical and social outcome. *British Journal of Psychiatry* 163, 49-54.

Burns, T., Raftery, J., Beadsmoore, A., McGuigan, S., & Dickson, M. (1991). A controlled trial of home-based acute psychiatric services. II: Treatment patterns and costs. *British Journal of Psychiatry* 163, 55-61.

*Burns, T. & Raftery, J. (1991). Cost of schizophrenia in a randomized trial of home-based treatment. *Schizophrenia Bulletin* 17, 407-410.

BUSH1990 (Published Data Only)

Bush, C. T., Langford, M. W., Rosen, P., & Gott, W. (1990). Operation outreach: intensive case management for severely psychiatrically disabled adults. *Hospital and Community Psychiatry* 41, 647- 649.

HENDERSON2004 (Published Data Only)

Henderson, C., Flood, C., Leese, M., Thornicroft, G., Sutherby, K., Szmikler, G. (2004) Effect of joint crisis plans on use of compulsory treatment in psychiatry: single blind randomised controlled trial. *British Medical Journal*, 329 (7458), 122-123.

LEVENSON1977

Levenson, A. J., Lord, C. J., Sermas, C. E., Thornby, J. I., Sullender, W., & Comstock, B. S. (1977). Acute schizophrenia: an efficacious outpatient treatment approach as an alternative to full-time hospitalization. *Diseases of the Nervous System* 38, 242-245.

Levenson, A. J. (1977). Acute schizophrenia: an efficacious outpatient treatment approach as an alternative to full-time hospitalization. *Diseases of the Nervous System* 38, 242-245.

MOSHER1975

Mosher, L. R. & Menn, A. Z. (1978). Community residential treatment for schizophrenia: two-year follow-up. *Hospital and Community Psychiatry* 29, 715-723.

*Mosher, L. R., Menn, A., & Matthew, S. M. (1975). Soteria: evaluation of a home-based treatment for schizophrenia. *American Journal of Orthopsychiatry* 45, 455-467.

PAI1982

Pai, S. & Nagarajaiah. (1982). Treatment of schizophrenic patients in their homes through a visiting nurse. *International Journal of Nursing Studies* 19, 167-172.

Pai, S. & Roberts, E. J. (1983). Follow-up study of schizophrenic patients initially treated with home care. *British Journal of Psychiatry* 143, 447-450.

Study characteristics tables: Social skills training

Pai, S. & Kapur, R. L. (1983). Evaluation of home care treatment for schizophrenic patients. *Acta Psychiatrica Scandinavica* 67, 80-88.

*Pai, S. & Kapur, R. L. (1982). Impact of treatment intervention on the relationship between dimensions of clinical psychopathology, social dysfunction and burden on the family of psychiatric patients. *Psychological Medicine* 12, 651-658.

Study characteristics tables: Social skills training

Services - Case management vs. standard care

Characteristics of included studies (update)

Study ID and country	Interventions and comparisons	Participants	Ethnicity data	Drop out	Other notes
Franklin1987 Texas, US	<p>1. Case management; the team included one supervisor and 7 cases managers with graduate and undergraduate degrees in related fields and experience working with people with SMI. The team was responsible for non-clinical services, brokerage and other activities such as travel. Ratio: Case manager 1: Client 30.</p> <p>2. Standard care: Routine hospital aftercare</p> <p>Case Management vs. Standard care</p>	56% schizophrenia	[Case Management / Standard care] Ethnicity, n (%): White: 154(72) / 104(70) Hispanic: 4(2) / 12(6) Black: 54(25) / 48(24) Other: 1(1) / 0(0)	Total Lost to FU: Case management: 76/213 Standard care: 78/204 Lost to FU by ethnic subgroup Case management: White: 55/154 Black: 19/54 Standard care White: 51/141 Black: 19/48	
Ford1995 London, UK	<p>1. Intensive case Management: The case management team involved 4 nurses and 1 OT with advice from a consultant psychiatrist. The case manager was described as the "single accountable point of contact". The emphasis was on care co-ordination, advocacy and direct care delivery. Case managers worked 9-5 without any 24 hr cover. Ration: Case manager</p>	82% schizophrenia	[Intensive case management / Standard care] Ethnicity, n (%): Minority ethnic groups: 9(23) / 14(37)	Lost Contact with services Intensive case management: 1/39 Standard care: 9/38	<p>The paper also reports on the number in contacts with services in the two groups:</p> <p>[ICM / SC] Service, n (%): GP: 31(79) / 25(66) Other primary care: 11(28) / 4(11) Psychiatrist outpatient:</p>

Study characteristics tables: Social skills training

	<p>1: client 10</p> <p>2. Standard care: routine care from psychiatric services.</p> <p>Intensive case management vs. Standard care</p>				<p>29(74) / 18(13)</p> <p>Although there was no statistically significant effect on the number in contact with GPs, the intensive case management group was significantly more likely to be in contact with the other two services when compared to those in the standard care group.</p>
<p>Holloway1998</p> <p>London, UK</p>	<p>1. Case management – consisted of a core team of four nurses and an OT with part-time involvement of two psychiatrists and a clinical psychologist. The staff provided direct interventions and acted as advocates, when linking clients with other services. The teams did not offer 24 hour service or aim to avoid hospitalization at all costs Ratio: Case manager 1: Clients 8</p> <p>2. Standard care – local consultant teams receiving services as deemed appropriate from CPN, social workers, in and out-patient teams, depot clinics and community care workers. Ratio: CPNs 1: clients 30</p> <p>Intensive case management vs. Standard care</p>	<p>66% schizophrenia or schizoaffective disorder</p>	<p>[ICM / SC] Ethnicity, n (%): White: 17(49) / 15(43) Non-white: 18(51) / 20(57)</p>	<p>Lost to FU: ICM: 8/34 Standard care: 8/33 Lost to FU (including deaths): ICM: 9/35 Standard care: 10/35</p> <p>Dropping out of contact with services (excluding deaths and those moved abroad) ICM: 0/34 Standard care: 6/32)</p>	

Study characteristics tables: Social skills training

<p>Muijen1994</p> <p>London, UK</p>	<p>1. Intensive case management: acting as advocates offering practical advice and assistance with welfare benefits, housing and maintaining client input. None of the clients were discharged from the caseloads. Instead if they refused CPN contact they were placed on an 'inactive' list and offered services at a later date. Ratio: Case manager1: client 8</p> <p>2. Standard care: care from CPNs in primary care</p> <p>Intensive case management vs. Standard care</p>	<p>83% schizophrenia</p>	<p>[ICM / SC]</p> <p>Ethnicity, n (%)</p> <p>UK/Irish: 27(66) / 31(76)</p> <p>African / African-Caribbean: 12(29) / 7(17)</p> <p>Asian: 1(2) / 2(5)</p> <p>Other: 1(2) / 1(2)</p>	<p>Lost to FU: Case management: 10/41 Standard care: 14/41</p> <p>Lost to FU by ethnic sub-group:</p> <p>Case management: UK/Irish: 8/27 African / African-Caribbean: 2/12</p> <p>Standard care: UK/Irish: 10/31 African/ African-Caribbean: 4/7</p>	<p>The paper notes that a slightly higher proportion of Afro-Caribbean participants were randomized to the case management group.</p> <p>The paper reports on the number of contacts with different services, however it does not break this information down by ethnic sub-group.</p> <p>Sub-group: The paper notes that there were differences between the ethnic sub-groups in terms of outcome. In the standard care group, UK/Irish patients functioned significantly better at 6 months, but these differences disappeared at 8 months. In the Intensive case management group there was a trend for outcomes to favour African-Caribbean participants at 18 months.</p>
<p>Solomon1994</p> <p>Philadelphia, US</p>	<p>1. Intensive case management: provided by a forensic case manager who worked with a community mental health centre. Ratio: case manager 1: clients 4</p>	<p>% schizophrenia not stated but all participants were due to be released from</p>	<p>Ethnicity for the sample as a whole, n (%):</p> <p>White: 27 (14.2)</p>	<p>Not reported</p>	<p>The paper notes that" the majority of participants were young black males, a profile which reflects the current population in</p>

Study characteristics tables: Social skills training

	<p>2. ACT – this included 4 case managers working on a ratio of 10 clients per manager.</p> <p>3. Standard care referral to local community mental health centre.</p> <p>Intensive case management vs. Standard care</p> <p>Intensive case management vs. ACT</p>	<p>prison, had SMI and were homeless</p>	<p>Black: 157 (82.6) Hispanic: 6 (3.2)</p>		<p>jails.”</p> <p>The intervention was effective in preventing reincarceration of clients within 6 months of discharge. A discriminate function analysis determining variables that distinguished clients who did and did not return to jail looked at the effect of ethnicity. The results indicated that ethnicity was not a significant predictor with only “identified service needs not met” being the only significant predictor of reincarceration at 6 months.</p>
<p>Burn1999 UK700 London and Manchester, UK</p>	<p>Case management involved mental health professionals being responsible for the direct care of the patient and coordinating a wide range of health and social inputs that are required by the individual. Two forms of case management were compared in the present study:</p> <p>Intensive Case Management (ICM) – Small caseloads of 10-15 per case manager)</p> <p>Standard Case Management</p>	<p>[ICM / SCM] Diagnosis, n (%): Major depression: 11(3.1) / 5(1.4) Mania or bipolar: 15(4.2) / 19(5.4) Schizoaffective: 184(52.10) / 161(45.4) Schizophrenia: 124(35.1) / 146(41.4) Unspecified or functional: 18(5.1)</p>	<p>Participants were stratified based on ethnicity prior to randomization.</p> <p>[ICM / SCM] Ethnicity, n (%) African-Caribbean: 103(29.2) / 94(26.5) White: 180(51.0) / 187(25.7) Other: 70(19.8) / 74(20.8)</p> <p>One of the main</p>	<p>More patients in the ICM group lost contact with their case manager during the study: 46 vs. 27. 10 ICM and 7 ICM patients refused contact, 7 ICM and 1 SCM patient were admitted to prison or secure hospital facilities.</p> <p>- Lost to follow-up ICM = 8 (+7 died and 20 refused follow-up interview) SCM = 6 (+8 died and 49</p>	

Study characteristics tables: Social skills training

	(SCM) – larger caseloads, less intensive service 30-35 cases per manager. Intensive vs. Standard case management	/ 24(6.8)	hypotheses under investigation was “The differences in outcome between intensive and standard case management are greater in African-Caribbean patients than other ethnic groups (mainly Caucasians)”	refused follow-up interview)	
McKenzie2001 Secondary analysis of UK700	As above	As above	The paper reports on a subset of those included in the UK700 study. This paper focused on African-Caribbean and British White participants. Follow-up information was available for 199 African-Caribbean and 234 White British participants.	Paper reports that in total 26(13%) of African-Caribbean patients and 35(15%) of British White patients were not interviewed. There were no differences between the groups in the proportion who refused or their reasons for refusal. Intensive case management Deaths by end of study 2.2% white (4 of 180) 1.5% African-Caribbean (2 of 135) Refused interview/lost to follow up 10.0% white (18 of 180)	

Study characteristics tables: Social skills training

				<p>12.6% African-Caribbean (17 of 135)</p> <p>Standard case management</p> <p>Deaths by end of study</p> <p>2.7% white (5 of 187) 1.5% African-Caribbean (2 of 135)</p> <p>Refused interview/lost to follow up</p> <p>10.7% white (20 of 187) 12.6% African-Caribbean (17 of 135)</p> <p>The paper does note that “patients could be included in the sample only if they agreed to take part in a case management study. African-Caribbeans could have been more likely to refuse study entry and this could have lead to selection bias”</p> <p>The major difference between the African-Caribbean participants and British white participants was that the former were</p>	
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Study characteristics tables: Social skills training

				less likely to receive psychotherapy and antidepressants.	
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References of included studies (update)**BURNS1999 (UK700)** (Published Data Only)

Walsh, E., Harvey, K., White, I., Higgitt, A., Fraser, J., Murray, R. (2001) Suicidal behaviour in psychosis: Prevalence and predictors from a randomised controlled trial of case management: Report from the UK700 trial. *British Journal of Psychiatry*, 178, 355-260.

Burns, T., Fiander, M., Kent, A., Ukoumunne, O. C., Byford, S., Fahy, T., Kumar, K. (2000) Effects of case load size on the process of care of patients with severe psychotic illness: Report from the UK700 trial. *British Journal of Psychiatry*, 177, 427-433.

UK700 GROUP (2000) Cost effectiveness of intensive v. standard case management for severe psychotic illness. *British Journal of Psychiatry*, 176,537-543.

*Burns, T., Creed, F., Fahy, T., Thompson, S., Tyrer, P., White, I., for the UK700 Group (1999) Intensive versus standard case management for severe psychotic illness: A randomised trial. *Lancet*, 353, 2185-89.

Walsh, E., Filvarry, C., Samele, C., et al (2001) Reducing violence in severe mental illness: Randomised controlled trial of intensive case management compared with standard care. *British Medical Journal*, 323, 1-5.

Huxley, P., Evans, S., Burns, T., Fahy, T., Green, J., (2001) Quality of life outcome in a randomized controlled trial of case management. *Society of Psychiatry and Psychiatric Epidemiology*, 36, 249-255.

Harvey, K., Burns, K., Fiander, M., Huxley, C., Manley, C., Fahy, T. (2002) The effect of intensive case management on the relatives of patients with severe mental illness. *Psychiatric Services*, 53, 12, 1580-1585.

Tyrer, P., Hassiotis, A., Piachaud, J., Harvey, K., UK700 group (1999) Intensive case management for psychotics patients with borderline intelligence. *Lancet*, 354, 999-1000.

Tyrer, P., Manley, C., Van Horn, E., Leddy, D., Ukoumunne, O. C. (2000) Personality abnormality in severe mental illness and its influence on outcome of intensive and standard case management: A randomised controlled trial. *European Psychiatry*, 15 (Suppl 1) 7-10.

Study characteristics tables: Social skills training

FORD1995 (Published Data Only)

Ford, R., Ryan, P., Beadsmoore, A., Craig, T., & Muijen, M. (1997). Intensive case management for people with serious mental illness - site 2: clinical and social outcome. *Journal of Mental Health* 6, 181-190.

Lear, G. (1993). Managing care at home. *Nursing Times* 89[5], 26-27.

Ford, R., Raftery, J., Ryan, P., Beadsmoore, A., & Craig, T. (1997). Intensive case management for people with serious mental illness - site 2: cost effectiveness. *Journal of Mental Health* 6, 191-199.

*Ford, R., Beadsmoore, A., Ryan, P., Repper, J., Craig, T., & Muijen, M. (1995). Providing the safety net: case management for people with a serious mental illness. *Journal of Mental Health* 4, 91- 97.

HOLLOWAY1998 (Published Data Only)

Holloway, F. & Carson, J. (1998). Intensive case management for the severely mentally ill. Controlled trial. *British Journal of Psychiatry* 172, 19-22.

MUIJEN1994

McCrone, P., Beecham, J., & Knapp, M. (1994). Community psychiatric nurse teams: cost-effectiveness of intensive support versus generic care. *British Journal of Psychiatry* 165, 218-221.

*Muijen, M., Rooney, M., Strathdee, G., Bell, R., & Hudson, A. (1994). Community Psychiatric Nurse Teams: Intensive support versus generic care. *British Journal of Psychiatry* 165, 211-217.

SOLOMON1994 (Published Data Only)

Solomon, P. & Draine, J. (1995). Consumer case management and attitudes concerning family relations among persons with mental illness. *Psychiatric Quarterly* 66, 249-261.

Solomon, P. & Draine, J. (1994). Family perceptions of consumers as case managers. *Community Mental Health Journal* 30, 165-176.

*Solomon, P., Draine, J., & Meyerson, A. (1994). Jail recidivism and receipt of community mental health services. *Hospital and Community Psychiatry* 45, 793-797.

Characteristics of excluded studies (update)

BJORKMAN2002 - does not report drop out within an ethnically diverse population

BRUCE2004 - does not report drop out within an ethnically diverse population

CURTIS1992 - does not report drop out within an ethnically diverse population

Study characteristics tables: Social skills training

FRANKLIN1987 - does not report drop out within an ethnically diverse population

ISSAKIDIS1999 - does not report drop out within an ethnically diverse population

JERRELL1995 - does not report drop out within an ethnically diverse population

MACIAS1994 - does not report drop out within an ethnically diverse population

MARSHALL1995 - does not report drop out within an ethnically diverse population

ODONNELL1999 - does not report drop out within an ethnically diverse population

QUINLIVAN1995 - does not report drop out within an ethnically diverse population

RUTTER2004 - does not report drop out within an ethnically diverse population

TYRER1995 - does not report drop out within an ethnically diverse population

References of excluded studies (update)**BJORKMAN2002** (Published Data Only)

Bjorkman, T., Hannsson, I., Sandlund, M. (2002) Outcome of case management based on the strengths model compared to standard care: A randomised controlled trial. *Society of Psychiatry and Psychiatric Epidemiology*, 37, 147-152.

BRUCE2004 (Published Data Only)

Alexopoulos, G.S., Katz, I.R., Bruce, M., (2005) Remission in depressed geriatric primary care patients: A report from the PROSPECT study. *American Journal of Psychiatry*, 162, 718-724.

*Bruce, M.L., Ten Have, T., Reynolds, C. F., (2004) Reducing suicidal ideation and depressive symptoms in depressed older primary care patients: A randomised controlled trial. *Journal of the American Medical Association*, 291, 1081-1091.

CURTIS1992 (Published Data Only)

D'Ercole, A., Struening, E., Curtis, J. L., Millman, E. J., & Morris, A. (1997). Effects of diagnosis, demographic characteristics and case management on rehospitalization. *Psychiatric Services* 48, 682-688.

Curtis, J. L., Millman, E. J., Struening, E., & D'Ercole, A. (1996). Deaths among former psychiatric inpatients in an outreach case management program. *Psychiatric Services* 47, 398-402.

*Curtis, J. L., Millman, E. J., Struening, E., & D'Ercole, A. (1992). Effect of case management on rehospitalisation and utilisation of ambulatory care services.

Hospital and Community Psychiatry 43, 895-899.

FRANKLIN1987 (Published Data Only)

Franklin, J., Solovitz, B., Mason, M., Clemons, J., & Miller, G. (1987). An evaluation of case management. *American Journal of Public Health* 77, 674-678.

Study characteristics tables: Social skills training

ISSAKIDIS1999 (Published Data Only)

Johnston, S., Salkeld, G., Sanderson, K., Issakidis, C. et al (1998) Intensive case management: A cost effectiveness analysis. *Australian and New Zealand Journal of Psychiatry*, 32, 551-559.

*Issakidis, C., Sanderson, K., Teesson, M., Johnston, S., Buhrich, N. (1999) Intensive case management in Australia: a randomised controlled trial. *Acta Psychiatrica Scandinavica*, 99, 360-67.

JERRELL1995 (Published Data Only)

Jerrell, J. M. (1995). Toward managed care for persons with severe mental illness: Implications from a cost-effective study. *Health Affairs* 14, 197-207.

Jerrell, J. M., Hu, T., & Ridgely, M. S. (1994). Cost-effectiveness of substance disorder interventions for people with severe mental illness. *Journal of Mental Health Administration* 21, 283-297.

Jerrell, J. M. & Ridgely, M. S. (1995). Comparative effectiveness of three approaches to serving people with severe mental illness and substance abuse disorders. *Journal of Nervous and Mental Diseases* 183, 566-576.

MACIAS1994 (Published Data Only)

Macias, C., Kinney, R., Farley, O. W., Jackson, R., & Vos, B. (1994). The role of case management within a community support system: partnership with psychosocial rehabilitation. *Community Mental Health Journal* 30, 323-339.

MARSHALL1995

Conway, M. (1995). Care-management for mental illness. *Lancet* 345, 926-927.

*Marshall, M., Lockwood, A., & Gath, D. (1995). Social services case-management for long-term mental disorders: a randomised controlled trial. *Lancet* 345, 409-415.

ODONNELL1999 (Published Data Only)

O'Donnell, M., Parker, G., Proberts, M. Matthews, R., Fisher, D., Johnson, B., Hadzi-Pavlovic, D. (1999) A study of client-focused case management and consumer advocacy: the community and consumer service project. *Australian and New Zealand Journal of Psychiatry*, 33, 684-693.

QUINLIVAN1995 (Published Data Only)

Quinlivan, R., Hough, R., Crowell, A., Beach, C., Hofstetter, R., & Kenworthy, K. (1995). Service utilization and costs of care for severely mentally ill clients in an intensive case management program. *Psychiatric Services* 46, 365-371.

Study characteristics tables: Social skills training

RUTTER2004 (Published Data Only)

Rutter, D., Tyrer, P., Emmanuel, J., Weaver, T., Byford, S., Hallam, A., et al. (2004). Internal vs. external care management in severe mental illness: Randomized controlled trial and qualitative study. *Journal of Mental Health*, 13, 453-466.

TYRER1995 (Published Data Only)

Tyrer, P., Morgan, J., Van Horn, E., Jayakody, M., Evans, K., & Brummell, R. (1995). A randomized controlled study of close monitoring of vulnerable psychiatric patients. *Lancet* 345, 756-759

Characteristics of excluded studies (Bipolar guideline review)

BOND1989 Not a RCT (housing interventions)

BORLAND1989 Not a RCT (Intensive case management)

CHAMPNEY1992 All four comparisons received a form of case management, no control group

DEAN1990 Not a RCT

DEAN1993 Not RCT

GOERING1988 Not RCT, used historical controls

HORNSTRA1993 Not a RCT, historical controls

KNIGHT1990 Not RCT

LEHMAN1993 Both group received the same case management

MCGOWAN1995 Not RCT

MIRANDA2003B Not case management (CBT vs. TAU)

MODCRIN1988 Not a RCT

ROSSLER1992 Not a RCT

ROSSLER1995 Not a RCT

SANDS1994 Not RCT (Case management)

SHERN2000 Psychiatric Rehabilitation, not case management

SOLOMON1995B Not RCT (ACT vs. forensic intensive case management vs. standard care)

SOLOMON1995C Not RCT, pre/post intervention (case management)

WOOD1995 Not RCT (Case management)

Study characteristics tables: Social skills training

References of excluded studies (Bipolar review)**BOND1989**

Bond, G. R., Witheridge, T. F., Wasmer, D., Dincin, J., McRae, S. A., Mayes, J. et al. (1989). A comparison of two crisis housing alternatives to psychiatric hospitalization. *Hospital and Community Psychiatry* 40, 177-183.

BORLAND1989

Borland, A., McRae, J., & Lycan, C. (1989). Outcomes of five years of continuous intensive case management. *Hospital and Community Psychiatry* 40, 369-376.

CHAMPNEY1992

Champney, T. F. & Dzurec, L. C. (1992). Involvement in productive activities and satisfaction with living situation among severely mentally disabled adults. *Hospital and Community Psychiatry* 43, 899-903.

DEAN1990

Dean, C. & Gadd, E. M. (1990). Home treatment for acute psychiatric illness. *British Medical Journal*, 301, 1021-1023.

DEAN1993

Dean, C., Phillips, J., Gadd, E. M., Joseph, M., & England, S. (1993). Comparison of community based services with hospital based service for people with acute, severe psychiatric illness. *British Medical Journal* 307, 473-476.

GOERING1988

Goering, P. N., Wasylenk, D. A., Farkas, M., Lancee, W. J., & Ballantyne, R. (1988). What difference does case management make? *Hospital and Community Psychiatry* 39, 272-276.

HORNSTRA1993

Hornstra, R. K., Bruce-Wolfe, V., Sagduyu, K., & Riffle, D. W. (1993). The effect of intensive case management on hospitalization of patients with schizophrenia. *Hospital and Community Psychiatry* 44, 844-847.

KNIGHT1990

Knight, R. G. & Carter, P. M. (1990). Reduction of psychiatric inpatient stay for older adults by intensive case management. *The Gerontologist* 30, 510-515.

Study characteristics tables: Social skills training

LEHMAN1993

Lehman, A. F., Herron, J. D., Schwartz, R. P., Myers, C.P. (1993) Rehabilitation for adults with severe mental illness and substance misuse disorders: A clinical trial. *Journal of Nervous and Mental Disease*, 181, 86-90.

MCGOWAN1995

McGowan, M., Madison, K., Meisel, J., & Chandler, D. (1995). *Final Report: The Integrated Service Agencies. Report to California Department of Mental Health* (Rep. No. AB3777). Sacramento: Lewin-VHI, Inc.

MIRANDA2003B (Published Data Only)

Miranda, J., Azocar, F., Organista, K. C., Dwyer, E., & Areane, P. (2003). Treatment of depression among impoverished primary care patients from ethnic minority groups. *Psychiatric Services*, 54, 219-225.

MODCRIN1988 (Published Data Only)

Modcrin, M., Rapp, C. A., & Poertner, J. (1988). The evaluation of case management services with the chronically mentally ill. *Evaluation and Program Planning* 11, 307-314.

ROSSLER1992

Rosslor, W., Loffler, W., Fatkenheuer, B., & Reicher-Rosslor, A. (1992). Does case management reduce the rehospitalization rate? *Acta Psychiatrica Scandinavica* 86, 445-449.

ROSSLER1995

Rosslor, W., Loffler, B., Fatkenheuer, B., & Reicher-Rosslor, A. (1995). Case management for schizophrenic patients at risk of rehospitalization - a case control study. *European Archives of Psychiatry and Clinical Neuroscience* 246, 29-36.

SANDS1994 (Published Data Only)

Sands, R. G. & Cnaan, R. A. (1994). Two modes of case management: assessing their impact. *Community Mental Health Journal* 30, 441-457.

SHERN2000 (Published Data Only)

Shern, D., Tsemberis, S., Anthony, W., Lovell, A. M., et al (2000) Serving street dwelling individuals with psychiatric disabilities: Outcomes of a psychiatric rehabilitation clinical trial. *American Journal of Public Health*, 90, 1873-1878.

SOLOMON1995B (Published Data Only)

Solomon, P. & Draine, J. (1995). One-year outcomes of a randomized trial of case management with seriously mentally ill clients leaving jail. *Evaluation Review* 19, 256-273.

Study characteristics tables: Social skills training

SOLOMON1995C (Published Data Only)

Solomon, P. & Draine, J. (1995). One-year outcomes of a randomized trial of consumer case management. *Evaluation and Program Planning* 18, 117-127.

WOOD1995 (Published Data Only)

Wood, K. & Anderson, J. (1995). The effect on hospital admissions of psychiatric case management involving general practitioners: preliminary results. *Australia and New Zealand Journal of Psychiatry* 29, 223-229.