**Online Supplementary Material**

**Search Terms**

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| Category | Database/resource searched | Search Terms |
| 1. Electronic Databases

Combination of searches with 3 concepts:-Concept 1 – PSYCHOTHERAPY (includes all sub-types of therapy)*AND*Concept 2 – SCHIZOPHRENIA (includes psychosis)*AND*Concept 3 – ACUTE/INPATIENT psychiatric setting  | PsychINFO | Keyword searches:-* brief psychotherapy
* hospital admission
* psychiatric hospital admission
* psychiatric hospitalization
* psychiatric hospitals
* psychiatric units
* psychotherapy
* schizophrenia

(.tw.) qualifier used to search following terms in title and/or abstract:-* acute
* hospita\*
* inpatient?
* psychosis
* psychotic
* psychoses
* schizo\*
* therap\*
 |
| PubMed | ((inpatient) AND psychosis) AND (psychotherapy OR therapy) |
| 1. Theses/Dissertations
 | EThOS | (any word)=psychosis OR schizophrenia AND (acute OR inpatient) |
| ProQuest |
| 1. Professional Body Publication
 | Clinical Psychology Forum | Hand-searched |
| 1. Conference abstracts
 | Conference Proceedings Citation Index - Science (CPCI-S) | (Topic Heading=(psychosis OR psychotic OR schizo\*) AND TS=(acute OR hospita\* OR inpatient\*) AND TS=therap\*) |
| 1. Trial Registries
 | ISRCTN registry | Condition=psychosis OR schizophreniaInclusion criteria=inpatient OR acuteInterventions=therapy OR behavioral |
| Clinicaltrials.gov |
| Cochrane Central Register of Controlled Trials  |
| 1. Existing Reviews
 | Cochrane Library | TOPIC=mental health OR schizophrenia/psychosis AND therapy |
| 1. Grey Literature
 | Trip Database | (Area of Clinical Practice = Medicine OR Psychology OR Psychiatry OR Mental Health) AND (Psychotherapy OR Psychological therapies) AND (Inpatient OR Hospital) |
| Open Gray |

**Studies included in review (with quality assessment)**

For ease of interpretation, MMAT scores are colour-coded with low quality scores (0%-25%) in red, a medium score (50%) in orange and high scores (75%-100%) in green.

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| RANDOMISED CONTROLLED TRIALS (N=21) |
| No. | **Author****(year)**n=total no. of participantsCountry | **Study Design****(Record** **type)** | **Therapy Model** **(Sub-type)** | **Mode of****Delivery** | **Outcome** **Data****Reported?** | **MMAT****Section assessed under** | **MMAT** **score** |
| 1 | **Kanas et al. (1980) (1)**n=86USA | RCT[[1]](#footnote-1)(JA)[[2]](#footnote-2) | Non-CBT[[3]](#footnote-3) (Psychodynamic) | Group | Yes | 2. RCT | 0% |
| 2 | **Beutler (1984) (2)**n=176USA | RCT(JA) | CBT | Group | Yes | 2. RCT | 25% |
| 3 | **Cholet (1984) (3)**n=40USA | RCT(Thesis) | Non-CBT(Humanistic-Existential) | Individual | Yes | 2. RCT | 50% |
| 4 | **Glick et al (1985) (4)**n=144USA | RCT(JA) | CBT(Family Intervention) | Family  | Yes | 2. RCT | 50% |
| 5 | **Youssef (1987) (5)**n=30USA | RCT(JA) | Non-CBT(Psychoeducation only) | Family | Yes | 2. RCT | 0% |
| 6 | **Drury et al (1996) (6)**n=62UK | RCT(JA) | CBT | Individual + Group + Family | Yes | 2. RCT | 0% |
| 7 | **Wahass and Kent (1997) (7)**n=6Saudi Arabia | RCT(JA) | CBT(Culturally adapted) | Individual | Yes – but failed MMAT screening stage |  |
| 8 | **Haddock et al (1999) (8)**n=21UK | RCT(JA) | CBT | Individual | Yes | 2. RCT | 25% |
| 9 | **Bach and Hayes (2002)** **(9)**n=80USA | RCT(JA) | CBT(Third-wave) | Individual | Yes | 2. RCT | 50% |
| 10 | **Lewis et al (2002) (10)**n=309UK | RCT(JA) | CBT | Individual | Yes | 2. RCT | 100% |
| 11 | **Hall and Tarrier (2003) (11)**n=25UK | RCT(JA) | CBT | Individual | Yes | 2. RCT | 100% |
| 12 | **Bechdolf et al (2004) (12)**n=88Germany | RCT(JA) | CBT | Group | Yes | 2. RCT | 100% |
| 13 | **Startup et al (2004) (13)**n=90UK | RCT(JA) | CBT | Individual | Yes | 2. RCT | 25% |
| 14 | **Gaudiano and Herbert (2006) (14)**n=40USA | RCT(JA) | CBT(Third-wave) | Individual | Yes | 2. RCT | 50% |
| 15 | **Klingberg et al (2010) (15)**n=169Germany | RCT(JA) | CBT | Individual + Group + Family | Yes | 2. RCT | 50% |
| 16 | **Moritz et al (2011) (16)**n=48Germany | RCT(JA) | CBT | Individual + Group  | Yes | 2. RCT | 100% |
| 17 | **Boden (2013) (17)**n=18USA | RCT(TR)[[4]](#footnote-4) | CBT(Third-wave) | Individual | Yes | 2. RCT | 0% |
| 18 | **Gaudiano (2015) (18)**n=60 (target)USA | RCT(TR) | CBT(Third-wave) | Individual | No (trial protocol only) |  |
| 19 |  **Habib et al (2015) (19)**n=42Pakistan | RCT(JA) | CBT(Culturally adapted) | Individual | Yes | 2. RCT | 50% |
| 20 | **Jacobsen et al (2016) (20)**n=60 (target)UK | RCT(JA) | CBT (Third-wave) | Individual | No (trial protocol only) |  |
| 21 | **Tyrberg et al (2016) (21)**n=21Sweden | RCT(JA) | CBT (Third-wave) | Individual | Yes | 2. RCT | 75% |

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| NON-RANDOMISED CONTROLLED TRIALS (N=14) |
| No. | **Author****(year)**n=total no. of participantsCountry | **Study Design****(Record** **type)** | **Therapy Model** **(Sub-type)** | **Mode of****Delivery** | **Outcome** **Data****Reported?** | **MMAT****Section assessed under** | **MMAT** **score** |
| 1 | **Feifel and Schwartz (1953) (22)**n=68USA | Non-randomisedCT[[5]](#footnote-5)(JA) | Non-CBT(Psychodynamic) | Group | Yes | 3. QNR[[6]](#footnote-6) | 50% |
| 2 | **Walker and Kelley (1960) (23)**n=82USA | Non-randomisedCT(JA) | Non-CBT(Psychodynamic) | Individual | Yes | 3. QNR | 25% |
| 3 | **Bookhammer et al (1966) (24)**n=51USA | Non-randomisedCT(JA) | Non-CBT(Psychodynamic) | Unclear | Yes | 3. QNR | 0% |
| 4 | **Stern et al (1972) (25)**n=75USA | Non-randomisedCT(JA) | Non-CBT(Psychodynamic) | Individual | Yes | 3. QNR | 50% |
| 5 | **Gould et al (1975) (26)**n=17USA | Non-randomisedCT(JA) | Non-CBT(Psychodynamic) | Group | Yes | 3. QNR | 75% |
| 6 | **Serok and Zemet (1983) (27)**n=31Israel | Non-randomisedCT(JA) | Non-CBT(Gestalt) | Group | Yes | 3. QNR | 75% |
| 7 | **Levene et al (1989) (28)**n=10Canada | Non-randomisedCT(JA) | Non-CBT(Family Therapy) | Family | Yes | 3. QNR | 25% |
| 8 | **Hodel et al (1998) (29)**n=19Switzerland | Non-randomisedCT(JA) | CBT(Emotional Management Therapy) | Individual | Yes | 3. QNR | 75% |
| 9 | **Hauff et al (2002) (30)**n=96Norway | Non-randomisedCT(JA) | Non-CBT(Psychodynamic) | Individual | Yes | 3. QNR | 50% |
| 10 | **Veltro et al (2006) (31)**n=502Italy | Non-randomisedCT(JA) | CBT | Group | Yes | 3. QNR | 0% |
| 11 | **Schmid and Wanderer (2007) (32)**n=320Switzerland | Non-randomisedCT(JA) | Non-CBT(Phantasy therapy) | Group | Yes – but failed MMAT screening stage |  |
| 12 | **Mortan et al (2011) (33)**n=12Turkey | Non-randomisedCT(JA) | CBT | Group | Yes | 3. QNR | 50% |
| 13 | **Owen et al (2015) (34)**n=112UK | Non-randomisedCT(JA) | CBT(Third-wave) | Group | Yes | 5. MM | 50% |
| 14 | **Witkowska (2015) (35)**n=60Poland | Non-randomisedCT(JA) | Non-CBT(Psychoeducation only) | Individual | Yes – but failed MMAT screening stage |  |

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| SERVICE EVALUATION (N=18) |
| No. | **Author****(year)**n=total no. of participantsCountry | **Study Design****(Record** **type)** | **Therapy Model** **(Sub-type)** | **Mode of****Delivery** | **Outcome** **Data****Reported?** | **MMAT****Section assessed under** | **MMAT** **score** |
| 1 | **Coffey (1954) (36)**n=not statedUSA | Service Evaluation (BC)[[7]](#footnote-7) | Non-CBT(Psychodynamic) | Group | No |  |
| 2 | **Goldberg et al (1955) (37)**n=not statedUSA | ServiceEvaluation(JA) | Non-CBT(Psychodynamic) | Group | No |  |
| 3 | **Canter (1956) (38)**n=60USA | ServiceEvaluation(JA) | Non-CBT(Psychodynamic) | Group | No |  |
| 4 | **Chazan (1974) (39)**n=not statedIsrael | ServiceEvaluation(JA) | Non-CBT(Psychodynamic) | Family (Group) | No |  |
| 5 | **Birckhead (1984) (40)**n=not statedUSA | ServiceEvaluation(JA) | Non-CBT(Psychodynamic) | Group | No |  |
| 6 | **Cole and Greene****(1988) (41)**n=20USA | ServiceEvaluation(JA) | Non-CBT(Psychodynamic) | Group | Yes | 4. QD[[8]](#footnote-8) | 0% |
| 7 | **Kelly et al (1990) (42)**n=not statedUK | ServiceEvaluation(JA) | Non-CBT(Supportive Counselling) | Group | No |  |
| 8 | **Aviera (1996) (43)**n=not statedUSA | ServiceEvaluation(JA) | No clear therapy model | Group | No |  |

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| --- | --- | --- | --- | --- | --- | --- |
| 9 | Linszen et al (1998) (44)n=76Netherlands | ServiceEvaluation(JA) | CBT(Family Intervention) | Family | Yes – but failed MMAT screening stage |  |
| 10 | **Dodd and Wellman (2000) (45)**n=23UK | ServiceEvaluation(JA) | CBT | Group | Yes – but failed MMAT screening stage |  |
| 11 | **Fell and Sams (2004) (46)**n=91UK | ServiceEvaluation(JA) | CBT | Group | Yes – but failed MMAT screening stage |  |
| 12 | **Durrant et al (2007) (47)**n=14UK | ServiceEvaluation(JA) | CBT(Third-wave) | Individual | Yes | 4. QD | 50% |
| 13 | **Tickle et al (2009) (48)**n=not statedUK | ServiceEvaluation(JA) | CBT | Group | Yes – but failed MMAT screening stage |  |
| 14 | **Lynch et al (2011) (49)**n=78USA | ServiceEvaluation(JA) | CBT | Individual+ Group | Yes | 4. QD | 75% |
| 15 | **Raune and Daddi (2011) (50)**n=137UK | ServiceEvaluation(JA) | CBT | Group | Yes | 4. QD | 75% |
| 16 | **Steiner and Harland (2011) (51)**n=not statedUK | ServiceEvaluation(JA) | Non-CBT(Psychodynamic) | Group | No |  |
| 17 | **Heriot-Maitland et al (2014) (52)**n=not statedUK | ServiceEvaluation(JA) | CBT(Third-wave) | Group | Yes | 5. MM[[9]](#footnote-9) | 75% |
| 18 | **Nikolitch et al (2016) (53)**n=40Canada | ServiceEvaluation(JA) | CBT(Third-wave) | Group | Yes | 4. QD | 75% |
| CASE SERIES (N=5) |
| No. | **Author****(year)**n=total no. of participantsCountry | **Study Design****(Record** **type)** | **Therapy Model** **(Sub-type)** | **Mode of****Delivery** | **Outcome** **Data****Reported?** | **MMAT****Section assessed under** | **MMAT** **score** |
| 1 | **Boyd (1979) (54)**n=3USA | Case Series(JA) | Non-CBT(Psychodynamic) | Individual + Group | No |  |
| 2 | **Cole****(1993) (55)**n=3USA | Case Series(BC) | CBT(Family Intervention) | Family | No |  |
| 3 | **Ahmed et al (1997) (56)**n=3USA | Case Series(JA) | No clear therapy model | Individual | Yes – but failed MMAT screening stage |  |
| 4 | **Kerr (2001) (57)**n=4UK | Case Series(JA) | Non-CBT(CAT)[[10]](#footnote-10) | Individual | No |  |
| 5 | **Freemantle and Clarke (2009) (58)**n=2UK | Case Series(BC) | CBT(Third-wave) | Individual | No |  |
| SINGLE CASE STUDIES (N=4) |
| No. | **Author****(year)**n=total no. of participantsCountry | **Study Design****(Record** **type)** | **Therapy Model** **(Sub-type)** | **Mode of****Delivery** | **Outcome** **Data****Reported?** | **MMAT****Section assessed under** | **MMAT** **score** |
| 1 | **Dublin (1973) (59)**n=1 USA | Case Study(JA) | Non-CBT(Gestalt) | Individual | No |  |
| 2 | **Ginsburg (2000) (60)**n=1 USA | Case Study(JA) | Non-CBT(Supportive Counselling) | Individual | No |  |
| 3 | **Mansell and Fadden (2009) (61)**n=1 UK | Case Study(BC) | CBT(Family Intervention) | Family | No |  |
| 4 | **Cooper (2014) (62)**n=1 UK | Case Study(JA) | Non-CBT(Psychodynamic) | Group | Yes – but failed MMAT screening stage |  |
| QUALITATIVE ONLY (N=3) |
| No. | **Author****(year)**n=total no. of participantsCountry | **Study Design****(Record** **type)** | **Therapy Model** **(Sub-type)** | **Mode of****Delivery** | **Outcome** **Data****Reported?** | **MMAT****Section assessed under** | **MMAT** **score** |
| 1 | **Holma and Aaltonen (1997) (63)**n=15Finland | Qualitative(JA) | Non-CBT(Family Therapy) | Family | Qualitative data only | 1. Qual | 50% |
| 2 | **Gonzalez de Chavez et al (2000) (64)**n=32Spain | Qualitative(JA) | Non-CBT(Psychodynamic) | Group | Qualitative data only | 1. Qual | 75% |
| 3 | **York (2007) (65)**n=8UK | Qualitative(JA) | CBT(Third-wave) | Group | Qualitative data only | 1. Qual | 75% |

**Risk of bias summary for RCTs only using Cochrane Tool**

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|  | **Selection Bias** | **Performance Bias** | **Detection****Bias** | **Attrition Bias** | **Reporting Bias** | **Other Bias** |
| **Random sequence generation** | **Allocation concealment** | **Blinding (participants and personnel)** | **Blinding of outcome assessment** | **Incomplete outcome data** | **Selective reporting** |
| 1 | **Kanas et al.(21)**USA |  |  |  |  |  |  | No ITTanalysis |
| 2 | **Beutler (22)**USA |  |  |  |  |  |  | No ITTanalysis |
| 3 | **Cholet (14)**USA |  |  |  |  |  |  | Unclear if ITT analysisSmall N (N=20 in treatment arm) |
| 4 | **Glick, Clarkin (23)**USA |  |  |  |  |  |  | Unclear if ITT analysis |
| 5 | **Youssef (24)**USA |  |  |  |  |  |  | No ITTAnalysisSmall N (N=15 in treatment arm) |
| 6 | **Drury, Birchwood (25)**UK |  |  |  |  |  |  | No ITTanalysis |
| 7 | **Wahass and Kent (26)**Saudi Arabia |  |  |  |  |  |  | Small N (N=3 in treatment arm) |
| 8 | **Haddock, Tarrier (27)**UK |  |  |  |  |  |  | Unclear if ITT analysisSmall N (N=10 in treatment arm) |
| 9 | **Bach and Hayes (28)**USA |  |  |  |  |  |  | No ITTanalysis |
| 10 | **Lewis, Tarrier (20)**UK |  |  |  |  |  |  | None |
| 11 | **Hall and Tarrier (29)**UK |  |  |  |  |  |  | No ITTAnalysisSmall N (N=12 in treatment arm) |
| 12 | **Bechdolf, Knost (30)**Germany |  |  |  |  |  |  | None |
| 13 | **Startup, Jackson (31)****UK** |  |  |  |  |  |  | None |
| 14 | **Gaudiano and Herbert (32)**USA |  |  |  |  |  |  | Small N (N=19 in treatment arm) |
| 15 | **Klingberg, Wittorf (33)**Germany |  |  |  |  |  |  | Unclear if ITT analysis |
| 16 | **Moritz, Veckenstedt (34)**Germany |  |  |  |  |  |  | Small N (N=24 in treatment arm) |
| 17 | **Boden (16)**USA |  |  |  |  |  |  | Unclear if ITT analysis Small N (N=12 in treatment arm) |
| 18 | **Gaudiano (15)**USA | **NOT ASSESSED – TRIAL PROTOCOL ONLY** |
| 19 | **Habib, Dawood (35)**Pakistan |  |  |  |  |  |  | No ITTanalysisSmall N (N=21 in treatment arm) |
| 20 | **Jacobsen, Peters (36)**UK | **NOT ASSESSED – TRIAL PROTOCOL ONLY** |
| 21 | **Tyrberg, Carlbring (37)**Sweden |  |  |  |  |  |  | Small N (N=11 in treatment arm) |

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1. RCT=Randomised Controlled Trial [↑](#footnote-ref-1)
2. JA=Journal article [↑](#footnote-ref-2)
3. CBT=Cognitive-Behavioural Therapy [↑](#footnote-ref-3)
4. TR=Trial Registry [↑](#footnote-ref-4)
5. CT=Controlled Trial [↑](#footnote-ref-5)
6. QNR=Quantitative Non-Randomised [↑](#footnote-ref-6)
7. BC= Book chapter [↑](#footnote-ref-7)
8. QD= Quantitative Descriptive [↑](#footnote-ref-8)
9. MM= Mixed Methods [↑](#footnote-ref-9)
10. CAT= Cognitive-Analytical Therapy [↑](#footnote-ref-10)