**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 schizophrenia  Inclusion criteria=inpatient OR acute  Interventions=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 participants  Country | **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=86  USA | RCT[[1]](#footnote-1)  (JA)[[2]](#footnote-2) | Non-CBT[[3]](#footnote-3) (Psychodynamic) | Group | Yes | 2. RCT | 0% |
| 2 | **Beutler (1984) (2)**  n=176  USA | RCT  (JA) | CBT | Group | Yes | 2. RCT | 25% |
| 3 | **Cholet (1984) (3)**  n=40  USA | RCT  (Thesis) | Non-CBT  (Humanistic-  Existential) | Individual | Yes | 2. RCT | 50% |
| 4 | **Glick et al (1985) (4)**  n=144  USA | RCT  (JA) | CBT  (Family Intervention) | Family | Yes | 2. RCT | 50% |
| 5 | **Youssef (1987) (5)**  n=30  USA | RCT  (JA) | Non-CBT  (Psychoeducation only) | Family | Yes | 2. RCT | 0% |
| 6 | **Drury et al (1996) (6)**  n=62  UK | RCT  (JA) | CBT | Individual + Group  + Family | Yes | 2. RCT | 0% |
| 7 | **Wahass and Kent (1997) (7)**  n=6  Saudi Arabia | RCT  (JA) | CBT  (Culturally adapted) | Individual | Yes – but failed MMAT screening stage |  | |
| 8 | **Haddock et al (1999) (8)**  n=21  UK | RCT  (JA) | CBT | Individual | Yes | 2. RCT | 25% |
| 9 | **Bach and Hayes (2002)**  **(9)**  n=80  USA | RCT  (JA) | CBT  (Third-wave) | Individual | Yes | 2. RCT | 50% |
| 10 | **Lewis et al (2002) (10)**  n=309  UK | RCT  (JA) | CBT | Individual | Yes | 2. RCT | 100% |
| 11 | **Hall and Tarrier (2003) (11)**  n=25  UK | RCT  (JA) | CBT | Individual | Yes | 2. RCT | 100% |
| 12 | **Bechdolf et al (2004) (12)**  n=88  Germany | RCT  (JA) | CBT | Group | Yes | 2. RCT | 100% |
| 13 | **Startup et al (2004) (13)**  n=90  UK | RCT  (JA) | CBT | Individual | Yes | 2. RCT | 25% |
| 14 | **Gaudiano and Herbert (2006) (14)**  n=40  USA | RCT  (JA) | CBT  (Third-wave) | Individual | Yes | 2. RCT | 50% |
| 15 | **Klingberg et al (2010) (15)**  n=169  Germany | RCT  (JA) | CBT | Individual + Group  + Family | Yes | 2. RCT | 50% |
| 16 | **Moritz et al (2011) (16)**  n=48  Germany | RCT  (JA) | CBT | Individual + Group | Yes | 2. RCT | 100% |
| 17 | **Boden (2013) (17)**  n=18  USA | 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=42  Pakistan | 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=21  Sweden | 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 participants  Country | **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=68  USA | Non-randomised  CT[[5]](#footnote-5)  (JA) | Non-CBT  (Psychodynamic) | Group | Yes | 3. QNR[[6]](#footnote-6) | 50% |
| 2 | **Walker and Kelley (1960) (23)**  n=82  USA | Non-randomised  CT  (JA) | Non-CBT  (Psychodynamic) | Individual | Yes | 3. QNR | 25% |
| 3 | **Bookhammer et al (1966) (24)**  n=51  USA | Non-randomised  CT  (JA) | Non-CBT  (Psychodynamic) | Unclear | Yes | 3. QNR | 0% |
| 4 | **Stern et al (1972) (25)**  n=75  USA | Non-randomised  CT  (JA) | Non-CBT  (Psychodynamic) | Individual | Yes | 3. QNR | 50% |
| 5 | **Gould et al (1975) (26)**  n=17  USA | Non-randomised  CT  (JA) | Non-CBT  (Psychodynamic) | Group | Yes | 3. QNR | 75% |
| 6 | **Serok and Zemet (1983) (27)**  n=31  Israel | Non-randomised  CT  (JA) | Non-CBT  (Gestalt) | Group | Yes | 3. QNR | 75% |
| 7 | **Levene et al (1989) (28)**  n=10  Canada | Non-randomised  CT  (JA) | Non-CBT  (Family Therapy) | Family | Yes | 3. QNR | 25% |
| 8 | **Hodel et al (1998) (29)**  n=19  Switzerland | Non-randomised  CT  (JA) | CBT  (Emotional Management Therapy) | Individual | Yes | 3. QNR | 75% |
| 9 | **Hauff et al (2002) (30)**  n=96  Norway | Non-randomised  CT  (JA) | Non-CBT  (Psychodynamic) | Individual | Yes | 3. QNR | 50% |
| 10 | **Veltro et al (2006) (31)**  n=502  Italy | Non-randomised  CT  (JA) | CBT | Group | Yes | 3. QNR | 0% |
| 11 | **Schmid and Wanderer (2007) (32)**  n=320  Switzerland | Non-randomised  CT  (JA) | Non-CBT  (Phantasy therapy) | Group | Yes – but failed MMAT screening stage |  | |
| 12 | **Mortan et al (2011) (33)**  n=12  Turkey | Non-randomised  CT  (JA) | CBT | Group | Yes | 3. QNR | 50% |
| 13 | **Owen et al (2015) (34)**  n=112  UK | Non-randomised  CT  (JA) | CBT  (Third-wave) | Group | Yes | 5. MM | 50% |
| 14 | **Witkowska (2015) (35)**  n=60  Poland | Non-randomised  CT  (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 participants  Country | **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 stated  USA | Service Evaluation (BC)[[7]](#footnote-7) | Non-CBT  (Psychodynamic) | Group | No |  | |
| 2 | **Goldberg et al (1955) (37)**  n=not stated  USA | Service  Evaluation  (JA) | Non-CBT  (Psychodynamic) | Group | No |  | |
| 3 | **Canter (1956) (38)**  n=60  USA | Service  Evaluation  (JA) | Non-CBT  (Psychodynamic) | Group | No |  | |
| 4 | **Chazan (1974) (39)**  n=not stated  Israel | Service  Evaluation  (JA) | Non-CBT  (Psychodynamic) | Family (Group) | No |  | |
| 5 | **Birckhead (1984) (40)**  n=not stated  USA | Service  Evaluation  (JA) | Non-CBT  (Psychodynamic) | Group | No |  | |
| 6 | **Cole and Greene**  **(1988) (41)**  n=20  USA | Service  Evaluation  (JA) | Non-CBT  (Psychodynamic) | Group | Yes | 4. QD[[8]](#footnote-8) | 0% |
| 7 | **Kelly et al (1990) (42)**  n=not stated  UK | Service  Evaluation  (JA) | Non-CBT  (Supportive Counselling) | Group | No |  | |
| 8 | **Aviera (1996) (43)**  n=not stated  USA | Service  Evaluation  (JA) | No clear therapy model | Group | No |  | |

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| 9 | Linszen et al (1998) (44)  n=76  Netherlands | Service  Evaluation  (JA) | CBT  (Family Intervention) | Family | Yes – but failed MMAT screening stage |  | |
| 10 | **Dodd and Wellman (2000) (45)**  n=23  UK | Service  Evaluation  (JA) | CBT | Group | Yes – but failed MMAT screening stage |  | |
| 11 | **Fell and Sams (2004) (46)**  n=91  UK | Service  Evaluation  (JA) | CBT | Group | Yes – but failed MMAT screening stage |  | |
| 12 | **Durrant et al (2007) (47)**  n=14  UK | Service  Evaluation  (JA) | CBT  (Third-wave) | Individual | Yes | 4. QD | 50% |
| 13 | **Tickle et al (2009) (48)**  n=not stated  UK | Service  Evaluation  (JA) | CBT | Group | Yes – but failed MMAT screening stage |  | |
| 14 | **Lynch et al (2011) (49)**  n=78  USA | Service  Evaluation  (JA) | CBT | Individual  + Group | Yes | 4. QD | 75% |
| 15 | **Raune and Daddi (2011) (50)**  n=137  UK | Service  Evaluation  (JA) | CBT | Group | Yes | 4. QD | 75% |
| 16 | **Steiner and Harland (2011) (51)**  n=not stated  UK | Service  Evaluation  (JA) | Non-CBT  (Psychodynamic) | Group | No |  | |
| 17 | **Heriot-Maitland et al (2014) (52)**  n=not stated  UK | Service  Evaluation  (JA) | CBT  (Third-wave) | Group | Yes | 5. MM[[9]](#footnote-9) | 75% |
| 18 | **Nikolitch et al (2016) (53)**  n=40  Canada | Service  Evaluation  (JA) | CBT  (Third-wave) | Group | Yes | 4. QD | 75% |
| CASE SERIES (N=5) | | | | | | | |
| No. | **Author**  **(year)**  n=total no. of participants  Country | **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=3  USA | Case Series  (JA) | Non-CBT  (Psychodynamic) | Individual + Group | No |  | |
| 2 | **Cole**  **(1993) (55)**  n=3  USA | Case Series  (BC) | CBT  (Family Intervention) | Family | No |  | |
| 3 | **Ahmed et al (1997) (56)**  n=3  USA | Case Series  (JA) | No clear therapy model | Individual | Yes – but failed MMAT screening stage |  | |
| 4 | **Kerr (2001) (57)**  n=4  UK | Case Series  (JA) | Non-CBT  (CAT)[[10]](#footnote-10) | Individual | No |  | |
| 5 | **Freemantle and Clarke (2009) (58)**  n=2  UK | Case Series  (BC) | CBT  (Third-wave) | Individual | No |  | |
| SINGLE CASE STUDIES (N=4) | | | | | | | |
| No. | **Author**  **(year)**  n=total no. of participants  Country | **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 participants  Country | **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=15  Finland | Qualitative  (JA) | Non-CBT  (Family Therapy) | Family | Qualitative data only | 1. Qual | 50% |
| 2 | **Gonzalez de Chavez et al (2000) (64)**  n=32  Spain | Qualitative  (JA) | Non-CBT  (Psychodynamic) | Group | Qualitative data only | 1. Qual | 75% |
| 3 | **York (2007) (65)**  n=8  UK | 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 ITT  analysis |
| 2 | **Beutler (22)**  USA |  |  |  |  |  |  | No ITT  analysis |
| 3 | **Cholet (14)**  USA |  |  |  |  |  |  | Unclear if ITT analysis  Small N (N=20 in treatment arm) |
| 4 | **Glick, Clarkin (23)**  USA |  |  |  |  |  |  | Unclear if ITT analysis |
| 5 | **Youssef (24)**  USA |  |  |  |  |  |  | No ITT  Analysis  Small N (N=15 in treatment arm) |
| 6 | **Drury, Birchwood (25)**  UK |  |  |  |  |  |  | No ITT  analysis |
| 7 | **Wahass and Kent (26)**  Saudi Arabia |  |  |  |  |  |  | Small N (N=3 in treatment arm) |
| 8 | **Haddock, Tarrier (27)**  UK |  |  |  |  |  |  | Unclear if ITT analysis  Small N (N=10 in treatment arm) |
| 9 | **Bach and Hayes (28)**  USA |  |  |  |  |  |  | No ITT  analysis |
| 10 | **Lewis, Tarrier (20)**  UK |  |  |  |  |  |  | None |
| 11 | **Hall and Tarrier (29)**  UK |  |  |  |  |  |  | No ITT  Analysis  Small 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 ITT  analysis  Small 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)