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Online Supplementary Material

Search Terms

Category	Database/resource searched	Search Terms
1. Electronic Databases Combination of searches with 3 concepts:- Concept 1 – PSYCHOTHERAPY (includes all sub-types of therapy) <i>AND</i> Concept 2 – SCHIZOPHRENIA (includes psychosis) <i>AND</i> Concept 3 – ACUTE/INPATIENT psychiatric setting	PsychINFO	Keyword searches:- <ul style="list-style-type: none"> • 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:- <ul style="list-style-type: none"> • acute • hospita* • inpatient? • psychosis • psychotic • psychoses • schizo* • therap*
	PubMed	((inpatient) AND psychosis) AND (psychotherapy OR therapy)
2. Theses/Dissertations	EThOS	(any word)=psychosis OR schizophrenia AND (acute OR inpatient)
	ProQuest	
3. Professional Body Publication	Clinical Psychology Forum	Hand-searched
4. 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*)
5. 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	
6. Existing Reviews	Cochrane Library	TOPIC=mental health OR schizophrenia/psychosis AND therapy
7. 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.

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 (JA) ²	Non-CBT 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	RCT (JA)	CBT	Individual	Yes	2. RCT	25%

¹ RCT=Randomised Controlled Trial

² JA=Journal article

³ CBT=Cognitive-Behavioural Therapy

	UK						
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	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)		

⁴ TR=Trials Registry

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%

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 (JA)	Non-CBT (Psychodynamic)	Group	Yes	3. QNR 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)	Non-randomised CT (JA)	Non-CBT (Gestalt)	Group	Yes	3. QNR	75%

⁵ CT=Controlled Trial

⁶ QNR=Quantitative Non-Randomised

	n=31 Israel						
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		
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	Service Evaluation (BC) ⁷	Non-CBT (Psychodynamic)	Group	No		

⁷ BC= Book chapter

	USA						
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	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		
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		

⁸ QD= Quantitative Descriptive

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	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	Case Series (BC)	CBT (Family Intervention)	Family	No		

⁹ MM= Mixed Methods

	USA					
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	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
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¹⁰ CAT= Cognitive-Analytical Therapy

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

		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, Tarrrier (27) UK							Unclear if ITT analysis Small N (N=10 in treatment arm)
9	Bach and Hayes (28) USA							No ITT analysis
10	Lewis, Tarrrier (20) UK							None
11	Hall and Tarrrier (29) UK							No ITT Analysis Small N (N=12 in treatment arm)

12	Bechdorf, Knost (30) Germany							None	
13	Startup, Jackson (31) UK							None	
14	Gaudio 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	Gaudio (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)	

Studies included in review

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