Children with behaviour problems

Anger control training versus control	Cognitive problem solving skills training versus control	Family interventions versus control for adolescents at risk of reoffending	Family interventions versus control fo children and adolescents with
BARKLEY2000	•		behaviour problems
DEFFENBACHER1996	KAZDIN1989	ALEXANDER1973	
FEINDLER1984	KENDALL1990	BARNOSKI2004	NICKEL2005
LIPMAN2006	MICHELSON1983	GORDON1995	NICKEL2006
LOCHMAN1984	VAN MANEN2004	MCPHERSON1983	NICKEL2006A
LOCHMAN2002			SANTISTEBAN2003
LOCHMAN2004			SAYGER1988
OMIZO1988			SZAPOCZNIK1989
SHECHTMAN2000			
SNYDER1999			
SUKHODOLSKY2000			
VANDEWIEL2007			
Family therapy versus CBT	Multidimensional foster care versus	Multisystemic therapy versus Control	Other multi-component intervention
AZRIN2001	Control	BORDUIN1995	BARRETT2000
	CHAMBERLAIN1998	BORDUIN2001	CAVELL2000
	CHAMBERLAIN2007	HENGGELER1992	FRASER2004
		HENGGELER1997	
		HENGGELER1999	
		HENGGELER2006	
		LESCHIED2002	
		OGDEN2004	
		ROWLAND2005	
		TIMMONSMITCHELL2006	
Parent training + additional child	Parent training + additional parent	Parent training + problem solving	
intervention versus Parent training	intervention versus Parent training	versus parent training + education	
DISHION1995	DADDS1992	ELIAS2003	
DRUGLI2006	IRELAND2003		
KAZDIN1992	SANDERS2000A		
NOCK2005	SANDERS2000B		
	WEBSTER-STRATTON1994		

Parent training versus Control	Social skills training versus cont
ADAMS2001	DEFFENBACHER1996
BANK1991	DESBIENS2003
BARKLEY2000	ISON2001
BEHAN2001	PEPLER1995
BERNAL1980	
BRADLEY2003	
CONNELL1997	
FEINFIELD2004	
GARDNER2006	
GREENE2004	
HUGHES1988	
HUTCHINGS2007	
IRVINE1999	
JOURILES2001	
KACIR1999	
KAZDIN1987	
LOCHMAN2004	
MAGEN1994	
MARKIE-DADDS2006	
MARTIN2003	
NICHOLSON1999	
NIXON2003	
PATTERSON2007	
SANDERS2000	
SANDERS2000A	
SCOTT2001	
SCOTT2006	
STEWART-BROWN2007	
STOLK2008	
STRAYHORN1989	
SUTTON1995	
TAYLOR1998	
TURNER2006	
TURNER2007	
WEBSTER-STRATTON1984	
WEBSTER-STRATTON1988	
WEBSTER-STRATTON1990	
WEBSTER-STRATTON1992	
WEBSTER-STRATTON1997	

Characteristics of Included Studies Methods

ADAMS2001

Study Type: RCT

Type of Analysis: Completers Blindness: Open Duration (days): Mean 56 n= 74 Age: Mean 10 Range 3-16 Sex: 46 males 28 females

Diagnosis: Behaviour problems by Parent referred

Participants

Antisocial personality disorder: CD Appendix 15

Outcomes

Family Assessment Device

Data Used

Inter

Group 1 N= 39

Interventions

Notes

parent training - Systematic Training for Effective Parenting (STEP) = 8 x 4H weekly sessions. Highly structured group therapy delivered by trained professionals. Parent and child.

Exclusions: None reported.

measures.

Baseline: No significant differences on pretest dependent

Notes: TAKEN AT: pre- and post-assessment. Gro DROP OUTS: 22% (treatment group)

Notes: Details on randomisation not reported; the comparison group was not randomly assigned to the parenting groups.

Info on Screening Process: Details not reported.

Results from this paper:			
1.1 Well covered			
1.2 Not reported			
1.3 Not addressed			
1.4 Not addressed			
1.5 Not reported			
1.6 Not addressed			
1.7 Well covered			
1.8 22% (treatment)			
1.9 Not addressed			
1.10 Not addressed			
2.1 +			

ALEXANDER1973 Study Type: RCT n= 86 Data Used Group 1 N= 46 Recidivism Age: Range 13-16 Family interventions - Short-term Type of Analysis: Completers behavioural family intervention program. Sex: 38 males 48 females Blindness: Open Therapists were first and second year graduate students on a clinical Diagnosis: Duration (days): Mean 35 psychology course. 100% Offending history TAU Setting: US Outpatient Group 2 N= 19 Exclusions: None reported. Notes: Details on randomisation not reported Control - Client-centered family group Baseline: No differences were found between groups. program representative of treatment in Info on Screening Process: 99 families referred many juvenille centers. by the Salt Lake County Juvenille Court to the Group 3 N= 11 family clinic. Follow-up records were only available for 86 families. Parent + anger coping - Church sponsored family counseling program. Average treatment is 12-15 sessions (with considerable variation between families)

Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.5 Well covered 1.6 Not addressed 1.7 Adequately covered 1.8 1.9 Not addressed 1.10 Not applicable 2.1 + AZRIN2001

Study Type: RCT

Blindness: Single blind Duration (days): Mean 180 n= 56 Age: Mean 15 Sex: 46 males 10 females Data Used Arrests CBCL (Parent)

Group 1 N= 29

Family interventions - Family Behaviour Therapy: 15 session multicomponent programme addressing cognitive, verbal, social and familial factors in addition to

Setting: US Antisocial personality disorder: CD Appendix 15 Notes: RANDOMISATION: by coin toss

Diagnosis: 82% Conduct disorder by DSM-IV

18% Oppositional defiant disorder by DSM-IV

- Exclusions: not 12-17 years of age
- not living with a parent

n= 60

Age: Mean 14

Sex: all males

100% Offending history

Diagnosis:

- >16 years

- not living within 30 mins of clinic
- diagnosis of mental retardation or psychosis
- receiving a psychological intervention

Notes: Also all participants met DSM-IV criteria for substance abuse or dependence

Exclusions: - less than 2 offences or no serious offences

- living with family 20 miles from treatment centre

- CPRS hyperactive-impulsive <93rd percentile - scores on behavioural scales not within clinical range

BANK1991

Study Type: RCT

Blindness: Single blind

Duration (days): Mean 180

Followup: 1,2,3 years

Setting: US

Community

bused in)

Notes: no further details provided on method of randomisation

BARKLEY2000

Study Type: RCT n= 158 Age: Mean 5 Study Description: comorbidities: ADHD (66%) Sex: 104 males 54 females Blindness: Open Diagnosis: Duration (days): Mean 224 18% Conduct disorder by DSM-IV Setting: US schools 64% Oppositional defiant disorder by DSM-IV Notes: randomisation violated on 8 occasions (2 sets of siblings had to be assigned to the same condition, 6 participants could not be Exclusions: - can't speak English

Data Used

Data Used

criminal activity

Notes: DROPOUTS: no details?

CBCL (Teacher) Self-control Rating Scale (Teacher) Normative Adaptive Behaviour Checklist School Situations Questionnaire (Teacher) Home Situations Questionnaire (Parent) CBCL (Parent)

factors affecting antisocial behaviours and drug use including: behavioural contracting, communications skills.

Group 2 N= 27

CBT - Individual Cognitive Problem Solving: 15 session cognitive behavioural problem solving skills training for youths with aggressive and defiant behaviours.

Group 1 N= 28

parent training - Parents trained to idenitify antisocial, prosocial and at risk behaviours (e.g. class attendance, defiance of teachers/adults, spending time with delinguent friends). Behaviour contracts were made on positive and negative consequence of actions.

Group 2 N= 27

Control - weekly family therapy, weekly drug counselling (for those with drug problems), school attendance and perfomace monitored either by family therapist or probation officer

Group	1	N= 42			
Wai	tlist				
Group	2	N= 39			
pare	ent tra	aining - 10 weekly sessions plus			
5 m	5 monthly booster sessions. Behavioural				
approach: rewarding nondisruptive					
beh	aviou	ir, home token system, improving			

substantial differences between groups in baseline levels of ADHD, ODD, and CD

parental commnad effectiveness understanding causes of disruptive behaviours Group 3 N= 37

> Special treatment classroom -Classrooms containing only high risk children and used a behavioural intervention based on Swanson, Pfifner and McBurnett. Includes: self-control training and group anger control training.

Group 4 N= 40

Anger Control Training - Includes: selfcontrol training and group anger control training and parent training program.

Group 1 N= 387

Family therapy - FFT. Individual, 12 visits over 90 days. Trained therapists.

Group 2 N= 313 Control - TAU

BARNOSKI2004

Study Type: RCT Type of Analysis: Completers Blindness: Duration (days): Mean 90 Followup: 12-months

Age: Range 13-17 Sex: Diagnosis:

n= 700

100% Offending history

Data Used Recidivism

BARRETT2000

BARRETT2000			
Study Type: RCT	n= 57	Data Used	Group 1 N= 22
	Age: Mean 9 Range 7-12	CBCL (Parent)	Family interventions - Reciprocal skills
Blindness: Single blind	Sex: 45 males 12 females		training for 10 weeks: combined elements of family therapy, anger control, and
Duration (days): Mean 70	Diagnosis:		problem solving approaches. Hospital
Setting: Clinic and Hospital settings, Australia	100% Oppositional defiant disorder		setting.
Notes: no further details on randomisation			Group 2 N= 23
	36% ADHD		Family interventions - Reciprocal skills training for 10 weeks: combined elements
			of family therapy, anger control, and
	Exclusions: - intellectual impairments or learning disabilities - English as a second language		problem solving approaches. Clinic
	- children currently on prescribed medication for behaviour		setting. Group 3 N= 12
	problems		Waitlist
			Traillion
BEHAN2001			
Study Type: RCT	n= 40	Data Used	Group 1 N= 26
Type of Analysis: Completers	Age: Mean 8 Range 3-12	Parenting Stress Index (PSI)	parent training - Parenting Plus
Blindness:	Sex:	CBCL (Parent) Strengths and Difficulties Questionnaire (SDQ	Programme. Specific to Irish context. Group therapy. 8 weekly session, 2H
Duration (days): Mean 56	Diagnosis:	Notes: TAKEN AT: pre- and post-treatmentt,	each. Video & manual. Facilitators =
	100% Behaviour problems by Referred by other	follow-up at 5.5 moneths but only for treatment	expriences child mental health professisonals.
Setting: IRELAND, Dublin Outpatient	100/ Conduct disorder by DCM IV/	group. DROP OUTS: 10 in total + 1 in treatment and 1 in control at post-treatment.	Group 2 N= 14
Notes: Details on randomisation not reported.	10% Conduct disorder by DSM-IV		Waitlist
Info on Screening Process: Details not reported.	13% Oppositional defiant disorder by DSM-IV		
into on Scieening Process. Details not reported.			
	5% ADHD		
	Exclusions: - If primary referral to outpatient child psychiatry		
	clinic was not for child misconduct which included noncompliance, oppositional beahviours, aggression or		
	destructiveness.		
	Notes: 2/3 had DSM-IV diagnosis that included: ADHD, ODD, CD, anxiety disorder, specific learning disability.		
	Baseline: Means for SDQ at pre-treatment = 22.60 (4.98) for treatment and 19.86 (6.61) for control. Means for CBCL		
	= 61.61 (24.48) for treatment and 54.25 (30.29) for control.		
Results from this paper:			
1.1 Adequately addressed			
1.2 Not reported 1.3 Not addressed			
1.4 Not addressed			
	there are differences as pre-treatment, appears to be diff	erences in CBCL)	
			cannot deduce whether one group is receiving specifically more
targeted interventions however both group 1.7 Well covered	os are receiving extra service so less likely for there to be	a systematic bias]	
1.7 Well covered 1.8 20% in total			
1.9 Not addressed			
1.10 Not applicable			

2.1 +

BERNAL1980

BERNAL1980				
Study Type: RCT	n= 36	Data Used	Group 1 N= 12	* First 8 children passed th
Study Description: DATA NOT EXTRACTABLE	Age: Mean 8 Range 5-12	Overall Deviant behaviour Tailored Checklist	parent training - 8-week treatment	initial screen & it was noted that 5/8 had observation
Type of Analysis: Completers	Sex: 31 males 5 females	Standard Checklist	including 10 x 1H sessions + x2 weekly telephone reports. Tailored to the child.	Overall Deviant scores
Blindness: Open	Diagnosis:	Notes: TAKEN AT: pre- and post-intervention, 6-	Child attended 2-3 sessions. Homework	below a mean for normal boys; to ensure that
Duration (days): Mean 56	Behaviour problems	month ad 1 year follow-up and a telephone interview at 2-years. DROP OUTS: 5 after	assignment. Therapists = counselling psychology graduates. Clients paid for	subjects were truly in need of treatment baseline inclusion criteria were adopted after the 8th child
Followup: 1 year Notes: Details on randomisation not reported.	Exclusions: Inclusion criteria (Initital screen): - 5-12 y/o	randomisation; details not given on loss to follow up	_{DW} . therapy. Group 2 N= 11 Client-centered counselling - 8-week	
In methods state that waitlist was randomised and in discussion states that it was not randomised!	 no debilitating physical impairment or intellectual deficit receiving no treatment at the time of referral no psychosis or history of psychological referral other than social aggression demonstrated problem behaviours at home 		treatment: 10 x 1H sessions + x2 weekly telephone reports. Emphasized feelings, attitudes & experiences in the family. Children attended 1-2 sessions so they	
Info on Screening Process: Details not reported.	Inclusion criteria (baseline) - Children had to reach reach 2/3 criteria: (a) observered Overall Deviant behaviour rate above the mean for a normal sample of boys, (b) Tailored Checklist mean occurrence score 1SD above the score for the first 8 subjects* and c) Standard Checklist means score of 1.5 SD above the scores for a normal sample of boys		could express feelings. Counselling psychology graduates. Clients paid for therapy.	
	Notes: 58% met criterion on the observation Overall Deviant scale; 92% Tailored Checklist; 100% Standard Checklist (Standard Checklist was devised for the study after initial screening)			
Results from this paper:				
1.1 Well addressed 1.2 Not reported 1.3 Not addressed 1.4 Not addressed				
1.5 Adequarely addressed 1.6 Adequately addressed				

1.7 Adequately addressed 1.8 ? 1.9 Not addressed 1.10 Not applicable

2.1 +

BORDUIN1995

BORDUIN1995			
Study Type: RCT	n= 176	Data Used	Group 1 N= 92
Blindness: No mention Duration (days):	Age: Mean 15 Sex: 123 males 53 females Diagnosis:	peer relations Aggression Revised Behaviour Problem Checklist Notes: DROPOUTS: at follow-up. MST 22/92	Multisystemic therapy - problem focused interventions within the family, peer group, school and other systems of the participants environment
Followup: 4-, 13.5-years	100% Offending history	Standard care 28/84	Group 2 N= 84
Setting: US Referred by the court	Exclusions: - <2 arrests		Standard Continuing Care - Individual therapy was the usual care for juvenile
Notes: RANDOMISATION: no details on method	 not living with at least one parent figure evidence of psychosis or dementia 		offenders in that particular judicial district. Involved electic blend of methods including psychodynamic, client centred, and behavioural. Focused on the individual not on social systems
BORDUIIN2001			

BORDUIN2001

Study Type: RCT	n
Type of Analysis: No mention	А
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S
	1 5

n= 48 Age: Sex: no information Data Used Arrests Group 1 N= 24

Multisystemic therapy - Problem focused interventions within the family, peer

Blindness: No mention Duration (days):	Diagnosis: Offending history	Notes: TAKEN AT: 8-year follow-up for both sexual and non-sexual offences.	group, school and other systems of the participants environment. Group 2 N= 24	
Setting: Community Notes: Details on randomisation not reported. Info on Screening Process: Details not reported.	Exclusions: - no information provided.		Standard Continuing Care - No further information provided.	
BRADLEY2003				
Study Type: RCT	n= 198	Data Used	Group 1 N= 89	No inclusion/exclusion
Type of Analysis: Completors	Age: Range 3-4 Sex: 121 males 77 females	Brief Symptom Inventory (BSI) Preschool Characteristics Questionnaire (PCC		criteria but parents who were experiencing problems managing the behaviour of
Blindness: Open	Diagnosis:	Preschool Behavior Questionnaire (PBQ)	weeks followed by a booster session 4 weeks after the third session. Uses a	their 3- or 4-year-old child
Duration (days): Mean 28	100% Behaviour problems by Parent referred	Parenting Scale (PS)	video 1-2-3 Magic that has not been	who attended orientation
Setting: CANADA Outpatient	Exclusions: No exclusion or inclusion criteria.	Notes: TAKEN AT: pre- and post-intervention (3- months after randomization) and 1-year follow- up. DROP OUTS: At post-assessment:	formally evaluated. Group 2 N= 109	sessions.
Notes: Details on randomisation not reported.		intervention group = 8; Control group = 16. At 1	Control - Waitlist condition	
Info on Screening Process: Details not given.		year follow-up 25/33		

Results from this paper:
1.1 Adequatelty addressed
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Not addressed
1.7 Well covered
1.8 Loss to follow-up at 1-year: 87.3% (intervention group; did not follow-up control)
1.9 Not addressed
1.10 Not applicable

2.1 +

CAVELL2000

Study Type: RCT n= 62 Data Used Group 1 N= 31 CBCL (Parent) Cognitive Problem Solving Skills Age: Mean 8 Range 7-8 Blindness: Notes: CBCL - both parent and teacher outcomes Training - Prime time intervention: 16 Sex: 46 males 16 females months duration. Included problem Duration (days): Mean 485 solving skills training and mentoring from Diagnosis: Followup: 1 year post-treatment undergrad student for child. Parents and 100% Behaviour problems by Teacher referred teachers also received regular visits to Setting: School, US provide support. Exclusions: - not in 2nd or 3rd grade at school Notes: no further details on randomisation Group 2 N= 29 - not rated as aggressive by teachers TAU - received only mentors

CHAMBERLAIN1998

Study Type: RCT

Blindness: Single blind Duration (days):

Followup: 12 months

Setting: US Fostercare

Notes: no further details on method of Antisocial personality disorder: CD Appendix 15

n= 85 Age: Mean 15 Range 12-17 Sex: all males

Diagnosis: 100% Offending history

Exclusions: - <12 years of age and >18 years of age - no history of serious and chronic delinquency Data Used incarceration

criminal activity

Group 1 N= 40

Multidimensional foster care - problem focused interventions within the family, peer group, school and other systems of the participants environment. Included weekly family therapy with biological parents and weekly group meetings for foster parents in addition to 24-hour phone contact

Notes: DROPOUTS: MTFC 11/40 Standard care Group 2 N= 45 16/45

Standard Continuing Care - Positive peer culture approach used most frequently (but other approaches were used). Therapeutic group work seeks to establish prosocial norms, confront each other about negative behaviour, and take part in discipline and decision-making

CHAMBERLAIN2007

Study Type: RCT

Blindness: Single blind Duration (days): Mean 174

Followup: 2 years

Setting: US Notes: RANDOMISATION: no methods reported

Age: Mean 15 Range 13-17 Sex: all females Diagnosis:

100% Offending history

n= 81

Exclusions: - pregnant not in foster care because of chronic delinquency

Data Used incarceration criminal activity

Group 1 N= 37

Multidimensional foster care - problem focused interventions within the family, peer group, school and other systems of the participants environment. Included weekly family therapy with biological parents and weekly group meetings for foster parents in addition to 24-hour phone contact

Group 2 N= 44

Standard Continuing Care - group care interventions either focusing on behavioural (70%), eclectic (26%), family (4%) approaches. On average sessions were once weekly.

CONNELL1997

assessment pacts.

Study Type: RCT Age: Range 2-6 Type of Analysis: Completers Blindness: Open Diagnosis: Duration (days): Mean 70 Followup: 3-months Setting: AUSTRALIA, Queensland 61% Oppositional defiant disorder by DSM-IV Info on Screening Process: 42 structured intake interveiws were completed, 2 ineligible due to absence of clinically elevated behaviour problems on ECBI, 16 did not complete

n= 23 Sex: 10 males 13 females 52% ADHD by DSM-IV

13% Conduct disorder by DSM-IV

100% Behaviour problems by ECBI

Exclusions: Criteria: - families had to reside in rural area - child needed to be between 2-6, no developmental delay or significant health impairment - mothers had to report concern about child's behaviour + rate behaviour within clinical range of ECBI - mothers were asked not to access any other therapy program

Baseline: No significant differences were found for any of the measures of child behaviour, parenting style, or parental adjustment.

- Results from this paper:
- 1.1 Adequately covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Poorly addressed

1.7 Well covered 1.8 8.3% (WL), 0% (Intervention)

Data Used Parenting Sense of Competence (PSOC) Parenting Scale (PS) ECBI Parent Daily Report Checklist consumer satisfaction questionnaire Depression-Anxiety-Stress Scales (DASS) Notes: TAKEN AT: pre- and post-treatment. DROP-OUTS: 8.3% (WL), 0% (Intervention)

Group 1 N= 12

Self-directed behavioural family intervention - Parents were required to read sections of 'Every Parent' (Sanders, 1992) and complete tasks in 'Every Parent's Workbook' (Sanders et al., 1994) each week for 10 weeks + weekly telephone contact initiated by client.

Group 2 N=

1.9 Not addressed

1.10 Not applicable

2.1 +

DADDS1992			
Study Type: RCT	n= 22	Data Used	Group 1 N= 11
Type of Analysis: Completers Blindness: Open Duration (days): Mean 56	Age: Mean 5 Sex: Diagnosis: Oppositional defiant disorder by DSM-IIIR	Parent Daily Reports (PDR) Revised Behaviour Problem Checklist Notes: TAKEN AT: pre- and post-intervention and 6-month's follow-up. t disorder by DSM-IIIR	Family interventions - Child management training + ally support (included 2 mothers, 2 sisters, 1 brother & 6 female friends). The role of allies was to support the parent rather than assist. Child
Followup: 6-month Setting: AUSTRALIA, Queensland	Conduct disorder by DSM-IIIR		management = 6 training sessions by trainee psychologist.
Notes: Details on randomisation not reported.			Group 2 N= 11
Info on Screening Process: Approximately 50% of people who sought help were included; exclusions wre mainly that the child did not meet criteria for a beahvioural disorder or parent rewensted alternate counsel.	 Exclusions: Inclusion criteria: availability of a person to function as an ally throughout the course of the treatment child met the DSM-III-R criteria for ODD or CD child's behaviour is not associated with organic pathology + no psychiatric pathology apart from conduct problem no family member could be undergoing other psychological treatment participants were to indicate willingness to complete self 		Child training group - Child management = 6 training sessions by trainee psychologist.

report & home observation procedures

n= 120

Diagnosis:

Age: Range 12-14

Sex: 63 males 57 females

100% Behaviour problems

the Trait Anger Scale (TAS > 23)

Exclusions: - If the child did not have an upper quartile on

Results from this paper:

1.1 well covered 1.2 not reported 1.3 not addressed 1.4 not addressed 1.5 Well addressed 1.6 Poorly addressed 1.7 Well covered 1.8 1.9 Not addressed

1.10 Not applicable

2.1 +

DEFFENBACHER1996

Study Type: I	RCT
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Type of Analysis: Completers Blindness: Open

Duration (days): Mean 63

Setting: US Schools

Notes: Details on randomisation not reported.

Info on Screening Process: 694 participants screened; 178 eligible; 11 moved or were unavailable before the project started, 4 moved or could ntot be assessed at follow-up, 8 requested that their child not be inolved, 35 did not return consent form = 120 were completed study.

Results from this paper:

Data Used

Trait Anger (Self) Anger Rating Scale (Child)

Anger Situation Rating (Child)

Anger Expression Inventory (Child) Deviant Behavior Rating (Self)

Notes: TAKEN AT: pre and 8 weeks posttreatment DROP OUTS: 4.8% (cognitiverelaxation coping skills); 2.4% (social skills training); 2.4% (no treatment).

Group 1 N= 39

Anger Control Training - 9 x 45 min in groups of 12-14. List anger-provoking situations and learn cognitive & relaxation techniques to lower arousal. Homework assignments. Therapists = masters level psycholigst & doctoral student.

Group 2 N= 40

Social skills training - 9 x 45 min in groups of 12-14. List major provocations and list ways to handle the situation calmly. Reheased positive behaviours both mentally & in role plays. Homework assignments. Therapists = masters level psycholigst & doctoral student.

Group 3 N= 41

No treatment

1.2 Not reported

1.3 Not addressed 1.4 Not addressed 1.5 Not addressed 1.6 Not addressed 1.7 Well covered 1.8 4.8% (cognitive-relaxation coping skills); 2.4% (social skills training); 2.4% (no treatment) 1.9 Not addressed 1.10 Not applicable

2.1 +

DESBIENS2003

Study Type: RCT		Data Used	Group 1 N= 18
Blindness: No mention Duration (days): Mean 30 Setting: CANADE, Quebec Schools	Age: Mean 9 Sex: 33 males 21 females Diagnosis: Behaviour problems by Teacher referred	Perceived Competence Scale Notes: teacher rated outcomes	Group 1 N= 16 Social skills training - Social skills: 1 hour session, once a week for a month. Reinforcement of socially appropriate behaviour, role playing, and problem solving skills. Group therapy. Group 2 N= 19
Notes: no further details on randomisation Info on Screening Process: 212, 158 excluded	Exclusions: - not identified by the school as having behaviour problems - not identified by a teacher as having behaviour problems		Social skills training - Social skills + cooperative learning: 1 hour session, once a week for a month. Reinforcement of socially appropriate behaviour, role

DISHION1995

Type of Analysis: ITT

Duration (days): Mean 84

Blindness: Open

Study Type: RCT

n= 158 Age: Mean 12 Range 10-14 Sex: 83 males 75 females Diagnosis:

100% Behaviour problems Notes: Details on randomisation not reported.

Info on Screening Process: Details not given

Exclusions: Children had to meet 4/10 risk factors which were: (1) closeness to parents, (2) emotional adjustment, (3) academic engagment, (4) involvement in positive activities, (5) experience seeking, (6) problem behaviors, (7) child's substance use, (8) peer substance use, (9) family substance use history and (10) stressful life events.

Data Used

CBCL (Parent) Notes: TAKEN AT: pre- and post-intervention at 1-year follow-up.

playing, and problem solving skills. Also learned to work cooperatively with prosocial peers. Group therapy

Group 3 N= 17

Control - No further details reported.

Group 1 N= 26

parent training - 12 x 90min group sessons (8 families) per week. Targets parents family management paratices & communication skills.

Group 2 N= 32

Child training group - 12 x 90min group sessons (7-8 teenagers) per week. Aims to enhance the teeneager's regulation of their prosocial & disruptive behaviour in parent & peer environment. Homework assigned & group incentives.

Group 3 N= 31

Child + parent training group

Group 4 N= 29

Self-directed behavioural family intervention - Did not involve weekly group meetings or therapists contact but received all the intervention materials that accompanied the parent focus and teen focus interventions = 6 newsletters + 5brief videotapes.

Results from this paper:

- 1.1 Well covered 1.2 Not reported
- 1.3 Not addressed
- 1.4 Not addressed
- 1.5 Well covered
- 1.6 Not addressed

1.7 Well covered 1.8 ?? 1.9 Not addressed 1.10 Not addressed

2.1 +

DRUGLI2006

Study	Type:	RCT
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Type of Analysis: Completers Blindness: Open Duration (days): Range 70-84

Setting: NORWAY Outpatient Age: Mean 7 Sex: 101 males 26 females

n= 127

Diagnosis: 100% Behaviour problems by ECBI

83% Behaviour problems at school by PBQ and TRF

Exclusions: Children with gross physical impairment, sensory depravation, intellectual deficit or autism.

Data Used

KIDDIE-SADS TRF Preschool Behavior Questionnaire (PBQ) WALLY CBCL (Parent) ECBI Social Competence and Behavior Evaluation (SCBE) INVOLVE-T Student-Teacher Relationship Scale (STRS) Notes: TAKEN AT: pre- and post-intervention assessment and for intervention group at 1-year follow-up. DROP OUTS: Intervention group: 3 (2.4%)

Group 1 N= 47

parent training - Basic Incredible Years Parenting Programme. A total of 10-12 parents met in groups with 2 therapists at the clinic for 12-14 weekly 2H sessions.

Group 2 N= 52

Child + parent training group - Parent training plus child therapy. A total of 6 children and 2 therapists met weekly in 2H sessions for 18 weeks at the clinic for the Incredible Years Dinosaur School Programme. All children received a possible or definited diagnosis of ODD and/or CD according to KIDDIE-SADS. "Possible daignosis" refers to those children who scored one criterion less than the 4 required for a DSM-IV ODD or the 3 items required for CD.

Results from this paper:

1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Not addressed 1.7 Well covered 1.8 Intervention group: 2.4% 1.9 Not addressed 1.10 Not applicable

2.1 +

ELIAS2003

Study Type: RCT n= 39 Age: Mean 9 Range 8-11 Blindness: Open Sex: all males Duration (days): Mean 126 Diagnosis: 100% Behaviour problems Setting: BRAZIL Notes: Details on randomisation not reported. Exclusions: Inclusion criteria: Info on Screening Process: Details not given - child between 8 & 11 v/o - no physical impairment, intellectual deficit, history of psychosis - not receiving any sort of psychological or psychiatric treatment at the time of referral - primary referral problem was low performance at school associated with behaviour problems

Data Used

Interpersonal problem solving

School achievement

Child Behaviour (Rutter Scale)

Notes: TAKEN AT: pre- and post-intervention (long term follow-up is planned as well). DROP OUTS: Problem solving (5.3%, N = 1); Langauge workshop (15%, N = 3)

Group 1 N= 19

Problem Solving - Intervention = modified version of "I can Problem Solve" (Shure, 1992) + parent training. 18 x 2H group session (3-4 children) per week; mean no. of sessions = 15.7. Adult guides the child in applying problem-solving concepts to solve a real-life problem.

Group 2 N= 20

Language Workshop - 18 x 2H group session of 3-4 children per week; mean number of sessions = 15.2 + parent training. Main goal is to help school-age children improve motivation for school learning. Children develop research + projects on themes that meet theit interests.

Results from this paper.

1.1 Well covered
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Adequately covered
1.7 Well covered
1.7 Well covered
1.8 5.3% (Problem solving); Language workshop (15%)
1.9 Not addressed
1.10 Not applicable

n= 36

Sex:

Diagnosis:

school records.

Age: Mean 14 Range 12-16

baseline data were reported.

100% Behaviour problems by Teacher referred

classroom and/or community disruption as recorded on

Baseline: Baseline data was reported; no test that

examined differences between the conditions in the

Exclusions: If the adolescent did not have the highest rate of

2.1+

FEINDLER1984

udy Type: RCT
udy Type: RCT

Type of Analysis: Completers

Blindness: Open

Duration (days): Mean 49

Setting: US School

Notes: Details on randomisation not reported.

Info on Screening Process: 36/100 disruptive students from an existing specialized program. 100 students chosen for the programs as they had been suspended for offenses (other than smoking or truancy) at least twice during the previous school year.

Results from this paper:

1.1 Adequately covered 1.2 Not reported 1.3 Not addressed 1.4 Poorly addressed 1.5 Not reported 1.6 Not addressed

1.7 Adequately addressed 1.8 0%

1.9 Not applicable

1.10 Not applicable

2.1 +

FEINFIELD2004

FEINFIELD2004			
Study Type: RCT	n= 47	Data Used	Group 1 N= 24
Type of Analysis: Completers Blindness: Open Duration (days): Mean 77	Age: Mean 7 Range 4-8 Sex: Diagnosis:	Walker-McConnell Scale of Social Competence ECBI Homes Situations Questionnaire (Parent)	parent training - Parent and child together groups for the first 30 min of every group meeting plus, parent groups (whilst children are in child groups) that
Notes: Details on randomisation not reported.	100% Behaviour problems by ECBI	School Situations Questionnaire (Teacher) Parenting Sense of Competence (PSOC)	consisted of nine 1H 30min group sessions and three 40min individual
Info on Screening Process: Details not reported.	Exclusions: If the child was not between the ages of 4 and 8 years of age, developmentally delayed and if the primary referral problem was not persistent and significant disruptive behaviour problems. If the child did not have a significant disruptive behaviour problems according to the primary caregiver's CBCL externalizing domain (T score of 60 or greater) or the ECBI (problem domain score of 12 or greater).	Parenting Stress Index (PSI) CBCL (Parent) TRF Parent Satisfaction Questionnaire Alabama Parenting Questionnaire (APQ) Parent-Child Relationshop Questionnaire (PCRQ)	sessions. Minimal fee for service. Group 2 N= 23 Waitlist - Involved in post-delayed treatment.

Data Used

Self-control Rating Scale (Teacher) Notes: TAKEN AT: pre- and 5-weeks postintervention

Group 1 N= 18

Anger Control Training - 10 x 50 min biweekly training sessions over 7 week treatment period. Trained therapist. Behavioural and cognitive controls were taught i.e. relaxation sequence and problem solving. Homework assigned. Group therapy.

Group 2 N= 18

Control - No treatment

Baseline: Waitlist condition had significantly higher TRF aggressions-scores, higher SSQ severity scores and lower Walker-McConnell total scores than the treatment condition at the initial assessment.

Consistency question Index of Parental Attitudes (IPA) Behavioral Vignettes Test-Hyperactivity Leader evaluation Behavior Global Change Rating Notes: TAKEN AT: pre- and post-intervention (waitlist also assessed at post-delaved intervention) and at a 5-month follow-up. DROP OUTS: 4 (treatment condition) and 5 (waitlist); 8 waitlist declined participation in delayed-

treatment group.

Results from this paper: 1.1 Adequately addressed

1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Poorly adressed 1.6 Not addressed 1.7 Well covered 1.8 9.6% (treatment condition); 11.5% (waitlist) 1.9 Not addressed 1.10 Not applicable

2.1 +

FRASER2004

Study Type: RCT n= 115 Data Used Group 1 N= 45 Carolina Child Checklist-Teacher Form Age: Mean 9 Range 6-12 Multidimensional intervention - Families Blindness: No mention Notes: Dropouts: Treatment 17/62 Control 12/53 received on average 26h of training, Sex: 72 males 43 females children received 28h of training. Family Duration (days): intervention delivered in the home Diagnosis: drawing from parent training, MST etc. Setting: During school/After school, in 6 sites in Child intervention included social skills Exclusions: - infrequent aggressive behaviour (hitting, USA (3 urban, 3 town/rural) training and interacting with prosocial arguing, defiance, anger) Notes: no further details on randomisation peers - not rejected by prosocial peers (liked by or not isolated from classmates) Group 2 N= 41 Control

GARDNER2006

Study Type: RCT

Type of Analysis: ITT Blindness: Unclear

Duration (days): Mean 98

Setting: UK Outpatient (5 sites)

Info on Screening Process: Of the 158 referrals, 37 did not meet inclusion criteria, 24 were unwilling to participate and 11 were assigned to a 3rd arm of the trial that was dropped.

Data Used

Observation settings Beck Depression Inventory Parenting Scale (PS) Parenting Sense of Competence (PSOC) ECBI Notes: TAKEN AT: pre- and post- intervention (6 Group 2 N= 32 months later) and for intervention group at 12-

month follow-up. DROP OUTS: Post-intervention = 11.4% (intervention) and 0% (control); at follow up = 13.7% (intervention).

Group 1 N= 44

parent training - Parent training (Webster-Stratton, 1998) consisted of a 14-week intervention delivered weekly to groups of 10-12 parents in 2H session. Children did not participate but were offered supervised child care.

Control - Waitlist

n= 76

Diagnosis:

- child aged 2-9

Exclusion criteria: - child severely disabled - child in temporary care - parent drud addict

Age: Mean 6 Range 2-9

Sex: 56 males 20 females

Exclusions: Inclusion criteria:

100% Behaviour problems by ECBI

- referred for help with conduct problems

- parent able to attend group and communicate in English

- score >10 on ECBI problem scale

- previous attendance at Family Nurturing Network

Baseline: Significant difference between groups on the outcome measure, observed child independent play where the intervention group scored: M=11.3 (SD = 9.9) and control group scored: M= 18.6 (SD + 10.9).

Results from this paper:

1.1 Well covered
1.2 Well covered
1.3 Well covered
1.4 Not addressed
1.5 Poorly addressed
1.6 Not addressed
1.7 Well covered
1.8 Post-intervention: 11.4% (intervention) and 0% (control); at follow-up = 13.7% (intervention)
1.9 Not addressed
1.10 Not addressed

2.1 +

GARRISON1983

1.5 Not addressed
 1.6 Poorly addressed
 1.7 Well covered
 1.8 Details not given
 1.9 Not addressed
 1.10 Not reported

2.1 +

Study Type: RCT	n= 30	Data Used	Group 1 N= 10
Blindness: Open Duration (days): Mean 7 Followup: 2-week Setting: Schools	Age: Range 8-11 Sex: all males Diagnosis: Exclusions: Exclusion criteria:	Behaviour problem checklist Notes: TAKEN AT: pre- and post-intervention and 2-week follow-up.	Affective Imagery Training - 3 x 30 - 40 min sessions in the same week. Situations which elicit specific affective states for the child were identified, physiological correlates were listed and affective imagery training was done.
Notes: Details on randomisation not reported.	 children known to be receiving psychological services or remediation for academic difficulties or had repeared a grade 		Group therapy. Group 2 N= 10
Info on Screening Process: 73 children assessed using teacher ratings of the Aggression Scale of the CBCL; the 30 obtaining the highest scores were included.	Baseline: Pre-treatment scores on fear scale of Affect Questionnaire was 105.0 for control intervention and 82.4 and 88.0 respectively for intervention and no treatment group.		Control - Attention control group received attention by playing a game i.e. "Battleship" Group 3 N= 10
	gioup.		TAU - No treatment
Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed			

Data Used

Recidivism

Group 1 N= 27

Family interventions - Functional Family

family cohesion through social learning

training and family living skills were also

taught to families (e.g. communication skills, problem solving etc).

and behavioural techniques. Parent

Therapy: reducing conflict and promoting

 GORDON1995

 Study Type: Non-Randomised Control Trial

 Blindness: Single blind

 Duration (days): Mean 150

 Setting: US

 100% Offending history

Exclusions: - not court referred juveniles

Antisocial personality disorder: CD Appendix 15

include as not RCT?

Group 2 N= 27

TAU - Standard probation services

GREENE2004

Study Type: RCT	n= 47	Data Used	Group 1 N= 28 Problem solving condition
Study Description: DATA NOT EXTRACTABLE	Age: Range 4-12	Clinical Global Impression	Problem Solving - Collaborative problem had significantly more adjustements to their
Type of Analysis: Completers	Sex: 32 males 15 females	ODD rating scale (ODDRS) parent-child relationship inventory (PCRI)	16 weeks, primarily for parents only.
Blindness: Open	Diagnosis:	Parenting Stress Index (PSI)	Treatment is manualized but session active treatment compared with children in parent
Duration (days): Mean 11 Range 7-16	100% Oppositional defiant disorder by DSM-IV	Notes: TAKEN AT: pre- and post-intervention	content and duration are not training condition.
Followup: 4-months	Exclusions: Inclusion criteria:	and 4-month follow-up (for completers). DROP OUTS: Of the children who completed treatment	individual needs of the children/parents.
Setting: Outpatient	- Children with ODD between the ages of 4-12 who were	loss to follow-up 15.8% (PT) and 10.8% (problem	
Notes: Details on randomisation not reported.	clinically referrred.	solving).	parent training - Barkely's (1997) 10-week behaviour management programme.
Info on Screening Process: Details not given.	Exclusion criteria: - IQ below 80 - actively suicidal or homicidal		primarily for parents only. Manualized with specified weekly session content. Therapists are doctorate-level clincal
	Notes: All children had at least subthreshold features of either juvenille bipolar disorder or major depression.		psychologists.
	Baseline: Groups did not differ significantly on measures on treatment outcome.		
Results from this paper:			
1.1 Poorly addressed			

Not addressed
 4 Not addressed
 5 Not addressed
 6 Poorly addressed
 7 Adequately covered
 8 20% problem solving; 20% parent training
 9 Not addressed
 1.10 Not applicable

2.1 +

HENGGELER1992

Study Type: RCT

1.2 Not reported

Blindness: Single blind Duration (days): Mean 94

Followup: 59-weeks; 2,4 years

Notes: RANDOMISATION: no information on method of randomisation and allocation concealment

primary outcomes on crime and recidivism were blinded

Info on Screening Process: 96 screened, 12 excluded (2 did not have a felony arrest, 6 refused to participate or moved house, 2 randomisation was violated, 2 recidivism data was not available)

HENGGELER1997

Study Type: RCT

n= 84 Age: Mean 15

Sex: 65 males 19 females

Diagnosis: 100% Conduct disorder/behaviour problems by Juvenile offenders

Exclusions: - not a juvenile offender - not at imminent risk for out-of-home placement because of serious criminal activity (e.g. crimes against the person, arson, other felonies) - recidivism data from state computer system not available

Data Used

Recidivism Arrests Revised Behaviour Problem Checklist Behaviour problems Aggression Notes: DROP OUTS: MST (10/43); CONTROL (18/41)

Group 1 N= 43

Multisystemic therapy - Problem focused interventions within the family, peer group, school and other systems of the participants environment

Group 2 N= 41

Standard Continuing Care - Received court orders including one or more stipulations (e.g. curfew, school attendance, participation with other agencies). Adherence was monitored by probation officers. If stipulations not met could be placed in a DYS institution.

Age: Mean 15 Range 10-18 Sex: 127 males 28 females

n= 155

Data Used peer relations criminal activity Group 1 N= 82

Multisystemic therapy - problem focused interventions within the family, peer

Antisocial personality disorder: CD Appendix 15

Blindness:	No	mention
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Duration (days): Mean 122

Followup: 1.7 years

Setting: US Referred from Criminal Justice System

Notes: RANDOMISATION: no details on method of randomisation

Notes: RANDOMISATION: method not reported

Info on Screening Process: 423 screened

incarceration outcome blinded

HENGGELER1999

Duration (days): Mean 130

Study Type: RCT

Blindness: Open

Followup: 6-month

Setting: US

100% Offending history Exclusions: - <11 years and >17 years

Diagnosis:

n= 118

Sex:

Diagnosis:

- not committed a serious crime or <3 prior criminal offences - not at imminent risk of being placed outside the home because of criminal involvement

emotional behavioural functioning Notes: DROPOUTS: MST 7/82 Standard care 8/73

group, school and other systems of the participants environment

Group 2 N= 73

Standard Continuing Care - placed on probation for 6 months. During probation, typically seen by probation officer once a month, school attendance monitored, and refrred to other social services agencies.

Data Used Group 1 N= 58 Arrests Age: Mean 15 Range 12-17 Self-Report Delinguency scale (SRD) Notes: DROP OUTS: 1/58 other systems of the participants 35% Conduct disorder by DSM-IIIR environment Group 2 N= 60 12% Oppositional defiant disorder by DSM-IIIR step groups 100% Offending history Exclusions: - Not 12-17 years of age - not abusing or dependent on substances - not on probation - not resident with at least one parent Baseline: greater alcohol and drug misuse in the standard care group

Multisystemic therapy. Mean dose 130 days - problem focused interventions within the family, peer group, school and

Standard Continuing Care - mainly 12

Results from this paper:

1.1 Adequately addressed 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Poorly addressed

1.6 Adequately addressed 1.7 Poorly addressed 1.8

1.9 Not addressed

1.10 Not addressed

2.1 +

HENGGELER2006

Study Type: RCT n= 161 Data Used Group 1 N= 38 CBCL (Parent) Age: Mean 15 Range 12-17 Waitlist Blindness: Open Arrests Sex: 134 males 27 females Drug Court - court met once a week -Self-Report Delinquency scale (SRD) Duration (days): Mean 84 provided incentives for negative urine and Diagnosis: Notes: DROP OUTS: MST + drug court (9/28); sanctions for positive urine samples Followup: 12-months MST + family court (6/43); drug court (9/38; famil: Group 2 N= 38 36% Conduct disorder by DSM-IV court (9/42) Settina: US Multisystemic therapy - problem focused Drug courts 24% Oppositional defiant disorder by DSM-IV interventions within the family, peer Notes: RANDOMISATION: no details on the group, school and other systems of the method participants environment over a 4 month 100% Offending history + drug court.

> Exclusions: - not aged 12-17 years of age - not abusing or dependent on psychoactive substances - not on probation

Group 3 N= 42

Family Court - Met on average once or twice per year. Youths were directed to receive group treatment for 12 weeks including risk reduction, peer influence, conflict resolution, and anger management. Also concurrently received family group therapy for 12 weeks.

Group 4 N= 43

Multisystemic therapy - MST + family court + contingency management.

1 N-20

-60 min ents (4 'e oys not to ve social l origin.

focused ills such llowing

HUDLEY1993

Study Type: RCT Type of Analysis: Completers Blindness: Open Duration (days): Mean 42 Setting: US, Los Angeles Schools Info on Screening Process: 3rd - 5th graders who had parental consent N = 529; only African- American boys were eligible (N=271); N=78 met criteria for aggressiveness; N=42 met criteria for nonaggressiveness; 72 aggressives and 36 nonaggressives were randomly assigned to groups.	 n= 108 Age: Mean 10 Sex: all males Diagnosis: Exclusions: Inclusion criteria for aggressiveness: above the teacher median on perceived aggressiveness as rated by the Teacher Checklist (Coie, 1990) have a social preference score less than 0 as rated by peers have at least twice as many aggressive as prosocial nominations as rated by peers 	Data Used Teacher Rating Scale Notes: TAKEN AT: pre- and post-assessment. DROP OUTS: (treatment condition) 16.6%; (active intervention) 8.3%; (control) 0%	 Group 1 N= 20 Attributional Intervention - 2 x 40-6 sessions for 6 weeks with 6 studer aggressives + 2 nonaggresives). Therapists = educators. Cognitive intervention designed to teach boy infer hostile peer intent in negative encounters of ambiguous causal or Group 2 N= 22 Control - Building Thinking Skills for on nonsocial problem solving skills as classifying information and follo directions. Group 3 N= 24 No treatment
Results from this paper: 1.1 Poorly addressed 1.2 Not reported 1.3 Not addressed			

2.1 +

HUGHES1988

1.4 Not addressed 1.5 Not reported 1.6 Not addressed 1.7 Well covered

1.9 Not addressed 1.10 Not reported

Study Type: RCT	n= 42	Data Used	Group 1 N= 0 Did not report the number of
Study Description: DATA NOT EXTRACTABLE	Age: Mean 12	Piers-Harris children's self-concept scale	parent training - 7 x weekly 1.5H sessions participants in each arm of the trial.
Type of Analysis: Completers	Sex: 34 males 8 females	Parent attitude survey (PAS) Daily Report Diaries	conducted on an individual basis with the trial. each family. Half had child present at
Blindness: Open	Diagnosis:	Becker Adjective Checklist	therapy (measured this effect on
Duration (days): Mean 49	Evelusiones hadraica estacio	Behaviour problem checklist	outcome).
Setting: AUSTRALIA	Exclusions: Inclusion criteria: - major problems such as disobedience, temper tantrums, irritability, fighting, destructiveness, rudeness, lying or	Notes: TAKEN AT: pre- and post-intervention. DROP OUTS: 8 in total.	Group 2 N= 0 Communication skills/problem-solving
Notes: Details on randomisation not reported	staying out late.		training - 7 x weekly 1.5H sessions conducted on an individual basis with
Info on Screening Process: Screened 61 families, 11 did not meet selection criteria and 8 did not cpmplete the full course of treatment. Final sample = 42.	 at least 4 problems on the Conduct Problem subscale of the Behavior Problem Checklist age of child between 6-15 absence of other major disorders absence of acute rsk factors child presently residing at home expression of willingness to co-operate on the part of the child 		each family. Components: (1) teaching basic communiation skills (2) training in problem solving (3) modification of unhelpful self-talk. Half had child present at therapy (measured effects).

1.8 treatment condition (16.6%); active intervention (8.3%); control (0%)

absence of major pathology or mental retardation on the part of the parent
parent's expressed commitment to keeping the child at home

- fluency of parent + child in English language

Notes: No formal diagnosis or tool used; patents were screened with a subscale of Behavior Problem Checklist

Baseline: No significant differences between groups at preassessment

Results from this paper:

1.1 Well covered 1.2 Not reported

1.3 Not addressed

1.4 Not addressed

1.5 Well covered

1.6 Not addressed 1.7 Well covered

1.8

1.9 Not addressed 1.10 Not applicable

2.1 +

HUTCHINGS2007

1010111002007						
Study Type: RCT	n= 153	Data Used	Group 1	N= 104		
Study Description: Pragmatic (effectiveness)	Age: Range 3-4	DPICS		parent training - Maximum of 12 parents		
trial	Sex: no information	Strengths and Difficulties Questionnaire (SDQ		d wach weely sessions which - 2.5 hours over a period of 12		
Type of Analysis: I.T.T	Diagnosis:	ECBI Notes: TAKEN AT: pre- and post-assessment	weeks.			
Blindness: Open	100% Behaviour problems by ECBI	DROP OUTS: 17.3% (intervention)	Group 2	N= 49		
Duration (days): Mean 84			Control	- Waitlist condition	ondition	
Notes: The fourth author blindly and randomly allocated patricipants after stratification by age and sex, using a random number generator. Info on Screening Process: 153 families were eligible and consented; 104 were allocated to intervention and 49 to control.	Exclusions: Inclusion criteria: - Child aged between 36 and 48 months - ECBI: Intensity score = 127; Problem score = 11 - SDQ: Hyperactivity = 7					
Results from this paper:						
1.1 Adequately covered						
1.2 Not reported						
1.3 Not addressed 1.4 Not addressed						
1.5 Not addressed						
1.5 NOL AUDIESSEU						

1.7 Well covered
 1.8 17.3% (intervention)
 1.9 Well covered
 1.10 Not addressed

1.6 Not addressed

2.1 +

IRELAND2003

Study Type: RCT

Type of Analysis: Completers Blindness: Open Duration (days): Mean 54 n= 37 Age: Range 2-5 Sex: 24 males 13 females

100% Behaviour problems by Parent referred

Diagnosis:

Data Used

Parent problem checklist (PPC) Marital communication inventory ENRICH Marital Satisfaction Scale Abbreviated Dyadic Adjustment Scale (ADAS)

Group 1 N= 19

Standard Group Triple-P - Group triple-p: 4 x 2H group sessions + 4 x 15-30min follow-up telephone consultations. For both parents.

Antisocial personality disorder: CD Appendix 15

Exclusions: Inclusion criteria for two-parent couples: - have a child between 2-5 - exhibit clinically significat levels of marital conflict overparents (Parent Problem Checklist) - report qualitative concerns about the management of their child's disruptive or oppositional behaviour - be married or in cohabiting relationship for at least 12-months - both agree to attend all group sessions

Exclusion criteria: - both parents failed to attend at least 3/4 group sessions of standard triple-p or 5/6 group sessions for enhances triple-p

Baseline: Parenting Scale (PS) a signifiant difference between condition for fathers such that the total score on this measure was significant higher in the enhanced triple-p than the standard triple p. Depression-Anxiety-Stress Scales (DASS) Group 2 N= 18

Enhanced Group Triple-P - Group Triple P + 2 Group Partner Support (GPS) 90minute sessions that aimed to improve marital communiation + offer support for each other's parent efforts. For both parents; telephone consultations for one parent.

Results from this paper: 1.1 Well covered 1.2 Not reported

1.3 Not addressed 1.4 Not addressed 1.5 Adequately addressed 1.6 Not addressed 1.7 Well covered 1.8 Standard (23.8%); enhanced (30.4%). 1.9 Not addressed 1.10 Not applicable

2.1 +

IRVINE1999

Followup: 3months

Setting: US middle schools

Notes: no further details on method of randomisation

ISON2001

Study Type: RCT

Blindness: Duration (days): Mean 49

Setting: ARGENTINA Schools

Notes: no further details on randomisation

n= 303 Age: Mean 12 Sex: 185 males 119 females

n= 164

Age: Range 8-12

Child Behavior Report

disorder but analysed separately

Sex: all males

Diagnosis:

Diagnosis: 100% Behaviour problems by Teacher Risk Screening Instrument

Exclusions: - not exhibiting risk behaviours according to Teacher Risk Screening Insturment - not middle school children

100% Conduct disorder/behaviour problems by

Notes: also included a 151 children without conduct

Exclusions: - not of low socio-economic status

Data Used

Data Used

Child Behavior Report

PDR CBCL (Parent) Notes: DROPOUTS: no info?

Parenting Scale (PS)

(23.8%): enhanced (30.4%).

Notes: TAKEN AT: pre- and post-intervention

and 3-month follow-up. DROP OUTS: Standard

ECBI

Group 1 N= 151

parent training - 12 weekly sessions of group parent training lasting 90mins-2hr. Parent monitoring, positive reinforcement, parent-child communication, problem solving skills. Each week expected to practice skills and discuss with group.Parents were given money to attend

Group 2 N= 152

Control - Waitlist condition

Group 1 N= 90

Social skills training - Social skills training: 14 sessions twice weekly. Units included learning appropriate ways to make a complaint, learning how to say no, asking others to change inadequate behaviors, empathy, listening etc.

Group 2 N= 74 Control - No treatment

JOURILES2001 Antisocial personality disorder: CD Appendix 15

Study Type: RCT	n= 36	Data Used	Gro
Blindness: Duration (days): Mean 240	Age: Mean 6 Range 4-9 Sex: 26 males 10 females	CBCL (Parent)	
Followup: 16 months	Diagnosis: 72% Oppositional defiant disorder		
Setting: US, shelter for battered women Notes: no further details on randomisation	28% Conduct disorder		Gro
	Exclusions: - mother not in shelter for battered womer	n	

KACIR1999

Study Type: RCT Type of Analysis: Unclear

Blindness: Open

Duration (days): Mean 14

Followup: 3-5 months

Setting: USA Appalachian Southern Ohio

Notes: Random number generator: mothers who received an even number were assigned to the experimental group.

Info on Screening Process: Details not reported. Note: there are no exclusion criteria adopted in the study.

Results from this paper: 1.1 Well covered 1.2 Well covered 1.3 Not addressed 1.4 Not addressed

1.5 Adequately addressed
 1.6 Adequately addressed
 1.7 Well covered
 1.8 Not reported
 1.9 Not reported
 1.10 Not applicable

2.1 +

KAZDIN1987

KAZDIN 1907			
Study Type: RCT	n= 40	Data Used	Group 1 N= 24
Type of Analysis: Completers Blindness: Open Duration (days): Mean 140 Setting: Inpatient	Age: Range 7-12 Sex: 31 males 9 females Diagnosis: 58% Conduct disorder by DSM-III 8% ADHD by DSM-III	(control) - at follow-up: 17.6% (treatment); 20.6%	parent training - Parent management training plus problem solving training (for child). Parent training = 13 x 2H weekly sessions. Child training = 20 x 50 minute sessions. Therapists = postgraduate mental health workers. Group 2 N=16 Control - Contact-control condition.
Notes: Details on randomisation not reported Info on Screening Process: Details not given	10% Major depressive disorder by DSM-III Anxiety disorder by DSM-III		Control - Contact-control condition.

Data Used

ECBI

Parenting knowledge test

a median of a 4-month follow-up.

Parent behaviour questionnaire

Notes: TAKEN AT: Pre- and post-intervenion with

Exclusions: - mother not in shelter for battered wome - child did not have CD or ODD - children not 4-9 years old

n= 38

Diagnosis:

Age: Mean 14 Range 12-18

Sex: 19 males 19 females

58% Behaviour problems by ECBI

Exclusions: No inclusion/exclusion criteria.

significant amount (M=11.68, SD= 8.1)

3 outcome measures at pre-intervention.

Notes: ECBI scores ranged from no problem behaviour (1

Baseline: No significant differences between groups on the

in treatment group, 1 in control) to 27 - a clinically

Group 1 N= 18

parent training - Parent and child intervention for up to 8 months: Providing social and instrumental support for mother and child. Additionally, training mothers with problem solving and child management skills.

Group 2 N= 18

Control - Monthly telephone conversations and visits

Group 1 N= 19

parent training - Parenting Adolescent Wisely (PAW) program consisting of 9 specific problems i.e. children not completing chores where the user is asked to pick 1 of 3 solutions based on how they would act in the situation. Parent receives feedback on-screen.

Group 2 N= 19

Control - No treatment

Exclusions: Inclusion:

children referred for treatment for their antisocial behavior inluding aggressive acts, fighting, unmanageability at home or at school, stealing, running away, truancy or related antisocial behaviours as identified at intake assessment
rated by their parent at the 98th percentile on either the aggressuib or delinquency scale of the CBCL
between 7 and 13 y/o
ISC-R IQ of 70+
to show no evidence of neurological or organiz impairment, seaizures, psychoses or pervasive development disorder
to not be receiving psychotropic medication

Baseline: No significant differences.

Results from this paper:

1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Adequately addressed 1.7 Well covered 1.8 17.6% (treatment); 20.6% (control 1.9 Not addressed 1.10 Not applicable

2.1 +

KAZDIN1989

Study Type: RCT Type of Analysis: Completers Blindness: Open Duration (days): Mean 175 Followup: 1 year Setting: US Inpatient/outpatient

Notes: No further details on randomisation

Info on Screening Process: Details not reported.

Sex: 87 males 25 females Diagnosis: 100% Behaviour problems by CBCL Exclusions: - not referred for treatment of antisocial behaviour (e.g. fighting, stealing, unmanageability) - below 90th percentile on aggression or delinquency sucbscales of CBCL

n= 112

Age: Range 7-13

WISC-R IQ score <70
 receiving psychotropic medication

Baseline: No differences between groups at preintervention.

Data Used

Parent Daily Report Checklist CBCL (Parent) School Behavior Checklist (SBCL-Form A2) Notes: DROP OUTS: problem solving 3/37; problem solving+ practice 6/38; relationship therapy 6/37

Group 1 N= 37

Cognitive Problem Solving Skills Training - Problem soving skills training for 25 sessions. Combined cognitive and behavioural techniques to teach problem solving skills. Individual therapy.

Group 2 N= 38

Cognitive Problem Solving Skills Training - Cognitive problem solving skills + in vivo practice for 25 sessions. Standard problem solving intervention + homework assignments. Individual therapy.

Group 3 N= 37

Control - Client centred relationship therapy for 25 sessions: developing a close relationship with the child and providing empathy and unconditional positive regard. Later sessions involved discussing interpersonal situations with peers, teachers, parents etc.

KAZDIN1992

Study Type: RCT Type of Analysis: Completers

Blindness: Open

Duration (days): Mean 213

Followup: 1-year

Setting: Outpatient n= 97 Age: Range 7-13 Sex: 76 males 21 females Diagnosis:

49% Conduct disorder by DSM-IIIR

41% Oppositional defiant disorder by DSM-IIIR

Data Used

Children's Action Tendency - Aggression Scale Interview for Antisocial Behaviour PDR Self-Report Delinquency scale (SRD) CBCL (Teacher) CBCL (Parent)

Group 1 N= 29

CBT - Cognitive & behavioural techniques to teach problem solving skills. Child received 25 x 50min weekly sessions + homework + between-session phone contacts. Parents were brought into the sessions to watch, assist + foster child's new skills.

Antisocial personality disorder: CD Appendix 15

Notes: Details on randomisation not reported

3% ADHD by DSM-IIIR

Exclusions: Inclusion criteria: - if they were referred to clinic for treatment for fighting, unmanageability at home or at school, stealing, running away, truancy or related antisocial behaviour - above the 90th percentile on the aggressiion or delinquency scale of the CBCL - aged 7-13 - read above the second grade level on the Wide Range Acheivement Test

were not receiving psychotropic medication
both the child and parent/guardian provided consent

Notes: TAKEN AT: pre- and post-intervention and at 1-year follow-up. DROP OUTS: 13.8% (CBT); 29.0% (PMT); 21.3% (CBT + PMT)

Group 2 N= 31

PMT - Parent seen individually for 16x1.5 -2H sessions over 6-8 months; at different points in treatment the child was brought into the sessions. Child's performance at school was monitored + teachers involved.

Group 3 N= 37

CBT + PMT - over 6-8 months

Baseline: No differences

Results from this paper: 1.1 well covered 1.2 not reported 1.3 not addressed 1.4 not addressed 1.5 well covered 1.6 poorly adressed 1.7 well covered 1.8 13.8% (CBT); 29.0% (PMT); 21.3% (CBT + PMT) 1.9 not addressed 1.10 not applicable

2.1 +

KENDALL1990

Study Type: RCT

Setting: US

Blindness: Single blind Duration (days): Mean 120

Sex: 26 males 3 females Diagnosis:

n= 29

Day hospital Notes: departure (3 participants during study) from randomisation 100% Conduct disorder Exclusions: - not conduct disordered

Age: Mean 11 Range 7-13

LESCHIED2002

Study Type: RCT

Blindness: No mention Duration (days): Range 30-150

Followup: 12-, 24-, 36-months

Setting: CANADA referral from probation service Notes: Details on randomisation not reported. n= 412 Age: Mean 15 Sex: 304 males 108 females Diagnosis: 100% Juvenile offenders

Exclusions: - risk/needs assessment indicating a high or very high risk (mean RNA = 23.5) - sex offenders - psychosis - home environment not appropriate for a family preservation treatment model Data Used Convicted (any crime) Notes: DROP OUTS: 21/210

Data Used

CBCL (Teacher)

Group 1 N= 15

Cognitive Problem Solving Skills Training - CPSS: 20, 50 minute sessions over 4 months. Intervention included training in problem solving skills and reinforcement of good behaviour. Individual sessions.

Group 2 N= 14

Control - Standard care: 20, 50 minute session over 4 months. Either psychodynamic or supportive counselling. Individual sessions.

Group 1 N= 210

Multisystemic therapy - problem focused interventions within the family, peer group, school and other systems of the participants environment. Small caseloads; several vists per week; 2-15H per week.

Group 2 N= 202

Standard Continuing Care - Mainly case management delivered by probation officers.

LEWIS1986

Study Type: RCT	n= 20	Data Used	Group 1 N= 10
Type of Analysis: Unclear Blindness: Open Duration (days): Mean 42	Age: Sex: all females Diagnosis:	Family Adjustment Test (FAT) Child Behavior Rating Scale (CBRS) Notes: Dropouts: not reported	parent training - 6 weekly 6-hour training sessions in groups. Behavioural principles emphasized and reflective techniques incorporated in the program. Trainers were students on Master course
Notes: Details on randomisation not reported Info on Screening Process: 23 responded to advertisements 20 families accepted	Exclusions: If the mother did not have at least one child between the ages of 8 and 12 with adjustment difficulties such as poor peer relationships, hyperactivity, agressiveness, or non-compliant behaviour Notes: No formal diagnosis or tool used just children with general adjustment difficulties		in counselling. Parents given money if completed therapy. Homework assigned.

Results from this paper:

1.1 Well covered
 1.2 Not reported
 1.3 Not addressed
 1.4 Not addressed
 1.5 Well covered
 1.6 Not reported
 1.7 Adequately addressed
 1.8 Not reported
 1.9 Not reported
 1.10 Not applicable

2.1 +

LIPMAN2006

Study Type: RCT

Blindness:

Duration (days): Mean 112

Setting: Community-based

Notes: no further details on randomisation

Info on Screening Process: 401 screened, 147 not eligible, 47 not interested, 84 excluded for other reasons

LOCHMAN1984

Study Type: RCT

Study Description: Means and s.d.s extracted from secondary reference LOCHMAN1985 where there is a fifth comparison of an extended Anger Coping Plus Goal Setting program Type of Analysis: Completers

Blindness: Open

Duration (days): Mean 84

Setting: US

Notes: Details on randomisation not reported.

Info on Screening Process: Details not reported.

n= 123 Age: Range 7-11 Sex: Diagnosis: 100% Behaviour problems by Parent referred

Exclusions: - not between 7-11 years old - not identified as having problem with anger or aggression

intellectual or developmental impairment

- severe psychiatric problems

100% Behaviour problems by Missouri

Exclusions: The children with the highest teacher ratings of

aggression on the Missouri Children's Behavior Checklist

Children's Behavior Checklist

- changeable home situation

Age: Mean 11 Range 9-12

n= 76

Sex: all males

Diagnosis:

Data Used

Data Used

Aggression

BOSPT (Independent)

weeks post-intervention.

Children's Hostility Index (Parent) Child Behaviour Questionnaire (Parent) Children's Inventory of Anger (Child) Notes: Dropouts: intervention = 10/62 control = 14/61

Missouri Children's Behavior Checklist -

Notes: TAKEN AT: pre-intervention and 4-6

Group 1 N= 62

Anger Control Training - 16 sessions: included interventions for parents, child group sessions, in home family practice sessions. Cognitive and behavioural focus on awareness of when they are losing their temper and problem solving approach learning alternative strategies.

Group 2 N= 61

Control - Standard information booklet about other community resources.

Group 1 N= 21

Anger Coping Plus Goal Setting - Anger coping = 12 x 45-60 min weekly sessions. Group therapy with 5-6 children. Cognitive + interpersonal problem solving. Plus 8 weeks of goal setting with contingent reinforcement. Therapist = school counselor/trainee psychologist.

Group 2 N= 20

Anger Control Training - Anger coping = $12 \times 45-60$ min weekly sessions. Group therapy with 5-6 children. Cognitive + interpersonal problem solving.

Antisocial personality disorder: CD Appendix 15

Group 3 N= 18

Goal Setting - 8 weeks of goal setting where children's weekly goals were established, monitored by classroom teacher and received contingent reinforcement if appropriate goal attainment occurred. Minimal treatment intervention.

Group 4 N= 17

Control - No treatment

Results from this paper:

1.1 adequately covered 1.2 not reported 1.3 not addressed 1.4 not addressed 1.5 not addressed 1.6 not addressed 1.7 well covered 1.8 ? 1.9 well covered 1.10 not applicable

2.1 +

LOCHMAN2002

Study Type: RCT	n= 245	Data Used	Group 1 N= 59
vpe of Analysis: Completers	Age: Mean 11	Behavioural Improvement at School (Teacher)	Angel Control Haining - Coping Fower
lindness: Open	Sex: 163 males 82 females	Teacher Observation of Classroom Adaption- Revised	Program: 16-month program, 34 x 40-50 min sessions with 5 - 8 children. Included
uration (days): Mean 480	Diagnosis: 100% Behaviour problems by Teacher referred	Proactive-Reactive Aggression Scale(Teacher rated)	physiological arousal, relaxation, problem-
etting: US chool	Exclusions: - Children who were not rated by their 4th-grade	Proactive-Reactive Aggression Scale (Parent rated)	solving. Plus 16 sessions for parents. Group 2 N= 63
otes: Details on randomisation not reported.	teachers as verbally aggressive, physically aggressive and	Notes: TAKEN AT: pre-, mid- and post-	Control - No treatment
fo on Screening Process: 31% (473) of the	disruptive.	intervention (secondary reference with 1-year follow-up). DROP OUTS: varies by outcome	Group 3 N= 61
nost aggressive 10 y/o children in 17 schools vere eligible for randomisation; 245 consented.	Baseline: Equivalent at baseline on aggressive behaviour.	213/245 (13%) Proactive-Reactive Aggression- parent rated; 187/245 (24%) Proactive-Reactive Aggression-Teacher Rated; 125/245 (51%) TOCA-R.	Parent + anger control + universal intervention - Parent training, anger control intervention plus children were based in a classroom receiving a

universal intervention (UI). UI included parent meetings and teacher in-service meetings designed to promoted homeschool involvement.

Results from this paper:

- 1.1 Well covered
- 1.2 Not reported
- 1.3 Notaddressed
- 1.4 Poorly addressed
- 1.5 Adequately addressed
- 1.6 Not addressed
- 1.7 Poorly addressed
- 1.8 [not reported by intervention only by outcome]
- 1.9 Not addressed
- 1.10 Not addressed

2.1 +

LOCHMAN2004

	_		
Study Type: RCT	n= 183	Data Used	Group 1 N= 60
Type of Analysis: Completers	Age: Range 10-11	School behaviour improvement Substance use (Parent)	Anger Control Training - From the Coping Power intervention program. 8 x 40-60
Blindness: Open	Sex: all males	Behavioural Improvement at School (Teacher)	min intervention sessions in the 1st year,
Duration (days): Mean 450	Diagnosis: 100% Behaviour problems by TRF	National Youth Survey (Child)	25 in the 2nd year. Derived from Anger Coping program. Groups consisted of 4-6
Followup: 1 year		Notes: TAKEN AT: pre- and post-intervention and 1-year follow-up. DROP OUTS: Baseline	boys. Masters/doctoral level therapist.
Setting: USA Schools (N=11)	Exclusions: If participants did not pass two screening stages: (1) a raw score of at least 7 on the teacher screen	measures only delivered to 70% of the boys and 69% of parents who were followed-up at 1-year. At 1-year teacher reports only available for 73% of sample.	Group 2 N= 60 parent training - Child training + 16 parent
Notes: Details on randomisation not reported. 59% consent rate.	and (2) TRF score greater than 60 and CBC score greater than 55.		group sessions over 15-month intervention delivered in groups of 5-6. Derived from social-learning-theory-
Info on Screening Process: 1578 boys were screening. 546 passed initial Teacher Screen. 20 boys did not pass second screen using TRF	ng. 546 passed initial Teacher Screen.	based parent training programs. Supervised child waiting room was provided + \$10 for attending sessions.	
and CBC. 15 already participating in a			Group 3 N= 63
preventin study. 183 consented. Grant availavble to only study 180 children; no one else contacted.			Control - Received services as usual within their schools.
Results from this paper:			
1.1 Well covered			
1.2 Not reported			
1.3 Not addressed			
1.4 Not addressed			

1.3 Not addressed
 1.4 Not addressed
 1.5 Poorly addressed
 1.6 Not addressed
 1.7 Poorly addressed
 1.8 Not reported.
 1.9 Not addressed
 1.10 Not addressed

2.1 +

MAGEN1994

Study Type: RCT	n= 56	Data Used	Group 1 N= 19
Type of Analysis: Not reported	Age: Mean 7	Parent role-play test	parent training - Group parent training
Blindness: Open	Sex: 5 males 51 females	Social Problem Solving Inventory (SPSI)	focused on behavioural skills. Once a week for 8 weeks, 2 hours per session.
1	Diagnosis:	Revised Behaviour Problem Checklist	
Duration (days): Mean 56	100% Behaviour problems by ECBI	Notes: TAKEN AT:Pretest, posttest, and follow- up at 3 months. DROP OUTS: not reported.	Problem Solving - Group parent training
Followup: 3 months		OTHER: The parent role-playing test used in the	focused on problem solving. Once a week
Notes: Randomisation process not reported	Exclusions: - If the child was not between the age of 5 and 11	study was under development at the time of stud	for 8 weeks, 2 hours per session.
Info on Screening Process: Not reported	 If the parent or child had a developmental disability. 		Group 3 N= 19
The off concerning r rocess. Not reported			Control - Waitlist condition.

Results from this paper:		
1.1 Well covered		
1.2 Not reported		
1.3 Not addressed		
1.4 Not addressed		
1.5 Well covered		
1.6 Not addressed		
1.7 Adequately addressed		
1.8 Not reported		
1.9 Not reported		
1.10 Not applicable		
2.1 +		

MARKIE-DADDS2006

Study Type: RCT	n= 63	Data Used	Group 1 N= 32
Type of Analysis: Completers	Age: Range 2-5	Client Satisfaction Questionnaire (CSQ) Depression-Anxiety-Stress Scales (DASS)	Triple P - 10-unit self-directed program of Triple P teaching parents 17 core child
Blindness: Open	Sex: 40 males 23 females	Parenting Problem Checklist (PPC)	management strategies.
Duration (days): Mean 105	Diagnosis: 100% Behaviour problems by ECBI	Parenting Sense of Competence (PSOC)	Group 2 N= 22
Followup: 6-month	100% Benaviour problems by ECBI	Parenting Scale (PS) PDR	Control - Waitlist condition
Setting: Outpatient	Exclusions: The target child excluded if it was not between 2	ECBI	
Notes: Randomly assigned according to a table of random numbers.	and 5 years of age; the mother did not report that their were concerned about their child's behaviour; the child showed evidence of developmental disorder or significant health	Notes: TAKEN AT: Pre- and post-intervention and 6-month follow-up. DROP OUTS: at post-	
Info on Screening Process: Details not given.	impairment; the child was currently having regular contact with another proffession or agency or taking medication for behavioural problem; and if the parents were currently receiving therapu for psychological problems, were intellectually disable and could not read a newspaper without assistance. The child was excluded if it did not have an ECBI Intensity Score of at least 127 or a Problem Score of at least 11.	intervention assessment were 9 (intervention group) and 7 (waitlist); at 6-month follow-up a further 10 (intervention group).	

Results from this paper:

1.1 Well covered 1.2 Well covered 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Adequately covered 1.7 Well covered

1.8 Intervention group: 28% (at post-assessment); 43% (6-month follow-up). Control group: 23% (at post-assessment) 1.9 Poorly addressed 1.10 Not applicable

> Baseline: The groups were significantly different on one preintervention measure: ECBI problem score such that the intervention group reported fewer disruptive behaviours (M = 11.89, SD = 5.60; M=17.00, SD = 7.57). ECBI problem

score was used as a covariate.

n= 42

2.1 +

MARTIN2003

Study Type: RCT Age: Mean 6 Range 2-9 Type of Analysis: Unclear Sex: no information Blindness: Open Diagnosis: Duration (days): Mean 56 100% Behaviour problems by Strengths and Followup: 4-months **Difficulties Questionnaire** Setting: AUSTRALIA, Brisbane Exclusions: Inclusion criteria: Notes: Details on randomisation not reported. Child[.] Info on Screening Process: 68 people -between 2 and 9 responded to e-mail detailing intervention; 45 - behavioural problems in the clinical range as measured by met eligibility critera and were allocated to SDQ group; final sample = 42. Parents: - experiencing significant level of distress juggling demands of work and home. - working at least 20 hours per week

Data Used

Work related self-efficacy Work Commitment Questionnaire Work Stress Measure Social Support Scale (SSS)

Problem Setting and Behavior Checklist

Parenting Scale (PS) ECBI

Strengths and Difficulties Questionnaire (SDQ

Notes: TAKEN AT: pre- and post-intervention and for intervention group, at a 4-month followup. DROP OUTS: Intervention group at postassessment (4:17%) and at 4-month follow-up (16;30.4%). Control group (50%)

Group 1 N= 23

parent training - Work-Place Triple P (WPTP). Families received four group sessions of parent training of 2H duration, plus four individual telephone consultations of 15-20 min duration.

Group 2 N=11

Control - Waitlist condition

Participants drawn from academic and general staff at the University of Queensland in order to test a version of Triple-P specifically desgined for the work place.

Results from this paper: 1.1 Well covered

1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Not addressed
1.7 Well covered
1.8 Control group (50%) Intervention group (30.4%)
1.9 Not addressed
1.10 Not applicable

2.1 +

MCPHERSON1983

Study Type: RCT	n= 75	Data Used	Group 1 N= 15
Blindness: Duration (days): Range 90-120	Age: Mean 15 Range 11-17 Sex: no information Diagnosis:	Recidivism Notes: TAKEN AT: 4- and 7-months from inception of a 3-4-month trial.	Family therapy - Family = system. 3-4 months therapy. Counselors as therapists. 10x2H session for parents + 10x1H sessions with child.
Followup: 0-1- and 3-4-months	100% Offending history		Group 2 N= 60
Setting: US Community (undergoing court supervision)	Exclusions: - no commission of a status		TAU - Regular casework=oriented probation services.
Notes: Every fifth assignment was assigned to experimental group and the remaining were control	/misdemeanor/felony offense - previous supervision by the Lane County Juvenile Court - more than 17 years and 5-months at the time assignment - not a resident with family in the Eugene/Springfield metropolitan area		

Results from this paper: 1.1 Well covered 1.2 Poorly addressed 1.3 Not addressed 1.4 Not addressed 1.5 Poorly addressed [inclusion criteria but do no baseline data] 1.6 Not addressed 1.7 Well covered 1.8 None reported 1.9 Not applicable 1.10 Not applicable

2.1 +

MICHELSON1983

Study Type: RCT	n= 61	Data Used	Group 1 N= 14
Blindness: Duration (days): Mean 84 Followup: 1-year Setting: US	Age: Mean 11 Range 8-12 Sex: all males Diagnosis: 100% Behaviour problems by Parent referred	School Behavior Checklist (SBCL-Form A2) Notes: DROP OUTS: 42/61 completed the intervention	Cognitive Problem Solving Skills Training - Interpersonal problem solving skills for 12 weeks. Identification of interpersonal problems and generating solutions to these problems. Group therapy. 12 x 1H weekly sessions.
Outpatient	Exclusions: - psychosis		Group 2 N= 14
Notes: no further details on randomisation	 organic brain syndrome mental retardation severe antisocial tendencies not referred by parents 		Cognitive Problem Solving Skills Training - Behavioural social skills training for 12 weeks. Utilized behavioural techniques such as modelling, feedback, shaping, social reinforcement to teach social skills. Group therapy. 12 x 1H weekly sessions.

Group 3 N= 14

Control - Non directive group treatment that was designed to help express their feelings. 12 x 1H weekly sessions.Group therapy.

Family interventions - Behaviour family

intervention for 10 weeks: family

intervention + triple P parenting

N= 14

NICHOLSON1999

Study Type: RCT

Blindness: Duration (days): Mean 70

Setting: US Community

n= 60

Age: Mean 9 Range 7-12 Sex:

Diagnosis: 100% Behaviour problems by CBCL

Exclusions: - not 7-12 years old - do not have significant conduct or oppositional behaviours (CBCL <40) for a minimum of 6 months

Data Used

Parent Daily Reports (PDR) CBCL (Parent) Notes: 18/60 dropped out

intervention. Group 2 N= 12

Group 1

Family interventions - Self directed behavioural family intervention for 10 weeks: self-directed material same as that used in the therapist directed intervention.

Group 3 N= 16

Waitlist

N= 22 Group 1

Family interventions - Brief Strategic Family Therapy for 6 months. Brief Strategic Family Therapy for 12 weeks. Focusses on the family's conflict resolution style and on specific interventions to help families negotiate and resolve their differences.

Group 2 N= 22

Control - Attentional control: Attentional control for 6 months. Structure session with detailed questions about how they felt and their daily activities.

Group 1 N= 36

Control - Attentional control for 12 weeks. Structure session with detailed questions about how they felt and their daily activities.

Group 2 N= 36

Family interventions - Brief Strategic Family Therapy for 12 weeks. Focusses on the family's conflict resolution style and on specific interventions to help families negotiate and resolve their differences.

Group 1 N= 20

Family interventions - Brief Strategic Family Therapy for 12 weeks. Focusses on the family's conflict resolution style and on specific interventions to help families negotiate and resolve their differences.

NICKEL2005

community

Study Type: RCT n= 44 Age: Mean 15 Range 14-16 Blindness: Single blind Sex: all males Duration (days): Mean 180 Diagnosis: 100% Behaviour problems Setting: GERMANY Notes: no further details on randomisation Info on Screening Process: 69 screened, 25 - psychotic illness excluded (11 failed to meet inclusion criteria, 9 refused, 5 other)

Exclusions: - not 14-16 years old - not bullying for >6months - liability to be prosecuted - use of psychotropic medication and/or psychotherapy - current use of narcotics

Blindness: Duration (days): Mean 84

NICKEL2006 Study Type: RCT

Setting: GERMANY Community

Notes: No further details on randomisation

Info on Screening Process: 83 screened, 11 excluded (5 did not meet criteria, 5 refused, 1 other)

NICKEL2006A

Study Type: RCT

Blindness:

Duration (davs): Mean 84

Followup: 1 year

Setting: Germany

Notes: no further details on randomisation

n= 72 Age: Mean 15 Range 14-15 Sex: all males

Diagnosis: 100% Behaviour problems

Exclusions: - not 14-15 years old - not bullies

Data Used

Adolescents' Risky-Behavior Scale State Trait Anger Expression Inventory (Self) Notes: Dropouts: 2/20 family, 2/20 control

100% Behaviour problems

Age: Mean 15

Diagnosis:

Sex: all females

n= 40

Exclusions: - not 15 years old

Antisocial personality disorder: CD Appendix 15

Data Used

Data Used

4/22

Adolescents' Risky-Behavior Scale State Trait Anger Expression Inventory (Self) Notes: dropout: Family 4/36 Control 5/36

Adolescents' Risky-Behavior Scale

State Trait Anger Expression Inventory (Self)

Notes: dropouts: family intervention 3/22 control

- no physical or verbal bullying for at least 6 months

medication to manage behavioural difficulties.

Baseline: No significant differences on parent-report and

psychosis

- taking psychotropic medication - liability to prosecution
- substance use disorder

NIXON2003

Group 2 N= 20

Control - Attentional control for 12 weeks. Structure session with detailed questions about how they felt and their daily activities.

Study Type: RCT	n= 54	Data Used	Group 1 N= 16
Type of Analysis: Completers Blindness: Open	Age: Mean 4 Range 3-5 Sex: 38 males 16 females	Parent Locus of Control Scale DPICS Parenting Scale (PS) Parenting Sense of Competence (PSOC) Parenting Stress Index (PSI)	Parent-Child Interaction Therapy parent training - Parent-child interation therapy but parenting skills are discussed
Duration (days): Mean 84	Diagnosis: 100% Oppositional defiant disorder by DSM-IV		and modelled on videotape (which is given to the families) + 5 x 30-min
Setting: AUSTRALIA Outpatient	100% Behaviour problems by ECBI	Homes Situations Questionnaire (Parent) CBCL (Parent)	telephone consultations + 1-hour booster session (face-to-face) 1-month post- treatment. Took 9.5 to administer.
Notes: Details on randomisation not reported.	Exclusions: Inclusion criteria:	ECBI	Group 2 N= 19
Info on Screening Process: 71 families self- referred to participate in the study. 54 meet inclusion criteria.	- ECBI score > 132 - diagnosis for ODD - primary referral problem was disruptve behaviour that was present for at least 6 months	Notes: TAKEN AT: Pre- and post-treatment at 6-month follow-up DROP OUTS: Standard intervention (23%); Abbreviated intervention (13%); WL (0.05%)	parent training - 12 X 1-2 hour weekly sessions for parents + 1-hour booster session (face-to-face) 1-month post- treatment. Took 15.5 hours to administer. Therapist = master's level clinician on
	Exclusion criteria:		doctorate course.
	 behaviour problems because of organic pathology, trauma or history o severe physical or mental deficits and receiving 		Group 3 N= 19
	medication to manage behavioural difficulties		Control - waitlist condition

observational data between groups. Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Adequately addressed 1.6 Not addressed 1.7 Well covered 1.8 Standard intervention (23%); Abbreviated intervention (13%); WL (0.05%) 1.9 Not addressed 1.10 Not applicable

2.1 +

NOCK2005

Study Type: RCT	n= 76	Data Used	Group 1 N= 39
Type of Analysis: ITT	Age: Mean 7	Treatment attendance Treatment adherence	Parent training + participation enhancement - Parent training plus
Blindness: Open	Sex:		children greater than 7 received cognitive
Duration (days): Mean 42	Diagnosis: Behaviour problems		problem solving. In addition, parents receivedparticipation enhancement
Setting: US			intervention. 5-25 min during, 1st, 5th, 7th sessions, therapists conducted MI and
Outpatient			discussed barried to attendance.
Notes: Details on randomisation not reported.			Group 2 N= 37

Info on Screening Process: 120 parents of antisocial children contacted the clinic, met eligibility criteria and scheduled an intake appointment; 76 attended appoint and all consented to participate.

parent training - TAU: parent training plus

children greater than 7 received cognitive

problem solving.

OGDEN2004

OGDEN2004			
Study Type: RCT	n= 100	Data Used	Group 1 N= 62
Type of Analysis: Unclear	Age: Mean 15 Range 12-17	Family Satisfaction Survey Out-of-Home placement	Multisystemic therapy - MST therapists
Blindness: Open Duration (days): Mean 183	Sex: 63 males 37 females	FACES-III	had a professional education equal to a Masters/Bachelors degree. Each
	Diagnosis:	Social Competence with Peers Questionnaire	therapist had a low caseload of 3-6 families and were availble 24/7.
Followup: 2-years	100% Behaviour problems	(SCPQ) Self-Report Delinquency scale (SRD)	Economic rewards for completion of assessments.
Notes: Details on randomisation not reported. Info on Screening Process: Details not given.	Exclusions: Inclusion Criteria - problem behaviour such as law-breaking or other antisocial acts	Social Skills Rating Scale (SSRS) CBCL (Parent) Notes: TAKEN AT: pre- and post intervention.	Group 2 N= 38 Standard Continuing Care - Usual child
	 12-17 years of age parents sufficiently involved/motiated for MST parents sufficiently involved/motiated for MST Exclusion Criteria ongoing treatment by another agency substance abuse without other antisocial behaviour sexual offending autisim, acute psychosis, or imminent risk of suicide presence of the youth in the home posed a serious risk to the youth or to the family ongoing investigation by the municipal child protective services 	welfare services. 14 youths received long- term institutional placement, 5 were placed in a crisis institution for assessment and in-home follow-up, 6 were supervised by a social worker, 7 were given home-based treatment and 6 refused services.	
	Notes: No formal diagnosis or tool used.		
	Baseline: Significant differences in baseline demographic measures. Pre-intervention assessments not compared between groups.		
Results from this paper:			
1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Poorly addressed			
1.6 Adequately addressed			
1.7 Well covered			
1.8 Intervention group: 8% Control group:	7.9%		
1.9 Not addressed 1.10 Not addressed			
1. TO NOT addressed			
2.1 +			
OMIZO1988			
Study Type: RCT	n= 24	Data Used	Group 1 N= 12
Type of Analysis: Completers	Age: Range 10-12	Perceived Competence Scale School Behavior Checklist (Teacher rated)	Anger Control Training - 10 x 45 - 50 min
Blindness: Open	Sex: 14 males 10 females	School Behavior Checklist (Teacher rated) Notes: TAKEN AT: pre- and post-assessment DROP OUTS: none reported	group sessions that incorporated cognitive behaviour techniques targeted
Duration (days): Mean 70	Diagnosis: 100% Behaviour problems by Teacher referred		to assist children in controling their anger. Group 2 N= 12
Setting: School			Control - Group members watched films
Info on Screening Process: Of 47 nominated	Exclusions: - Children who were not nominated by their teachers as being aggressive or hostile and who were not		that did not have aggressive content.

Baseline: Baseline data was reported; no test that examined differences between the conditions in the

randomly selected to participate.

baseline data were reported.

Results from this paper: 1.1 Poorly addressed 1.2 Not reported 1.3 Not addressed

children for aggressive/hostile behaviour, 24

were randomly selected and assigned to

treatment or control.

1.5 Not addressed 1.6 Not addressed 1.7 Adequately covered 1.8 0% 1.9 Not appliable 1.10 Not applicable

2.1 +

PATTERSON2007

Study Type: RCT	n= 116	Data Used	Group 1 N= 60
Type of Analysis: ITT Blindness: Duration (days): Mean 70	Age: Range 2-8 Sex: no information Diagnosis:	General Health Questionnaire (GHQ) Strengths and Difficulties Questionnaire (SDQ ECBI Notes: TAKEN AT: pre- and post-intervention	delivered by trained health visitors or nursery nurse.
Followup: 6-month	100% Behaviour problems by ECBI	and at 6-month follow-up	Group 2 N= 56
Setting: UK Primary Care Notes: Randomisation occurred by tossing coin in the presence of an independent witness	Exclusions: Exclusions - children already receiving treatment for behaviour problems (N=27) and those with learning difficulties (N=78). Notes: All children had a score above the median value on		Control - No intervention.
to treatment or control. Info on Screening Process: N=1788 - all children aged 2-8 y/o registered at 3 GPs in Oxford received postal survey. N=1105 - questionnaires returned N=487 - children scored above median on ECBI + invited to participate N=105 - excluded N=116 - consented	the EBI (score = 100).		
Results from this paper: 1.1 Well covered 1.2 Well covered 1.3 Inadequate 1.4 Not addressed 1.5 Not addressed 1.6 Adequately covered 1.7 Well covered 1.8 23.4% (Intervention group); 17.9% (Con 1.9 Well addressed 1.10 Not addressed 2.1 +	ntrol group)		
PEPLER1995			
Study Type: RCT	n= 74	Data Used CBCL (Teacher)	Group 1 N= 40
Blindness: Open Duration (days): Range 84-105	Age: Mean 9 Range 6-12 Sex: 63 males 11 females Diagnosis:	CBCL (Parent) CBCL (Parent) Notes: TAKEN AT: pre- and post-assessment DROP OUTS: none reported.	Social skills training - Focused on skills training at school + parent groups to facilitate child's learning/to teach effective child management + teacher participation where the teacher taught the skills to
Notes: Details on randomisation not reported.	100% Behaviour problems by Teacher referred		entire class. Groups of 7. Therapist =

Notes: Details on randomisation not reported. Info on Screening Process: Not reported.

where the teacher taught the skills to entire class. Groups of 7. Therapist = trained child care workers.

Group 2 N= 34

Control - Waitlist condition.

Results from this paper:

1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Not addressed 1.6 Not addressed 1.7 Well covered 1.8 0% 1.9 Well covered 1.10 Not applicable

2.1 +

ROWLAND2005

Study Type: RCT

Duration (days):

Followup: 6-month

Setting: US, Hawaii

crierial 5 consented

Info on Screening Process: 64 met inclusion

Blindness:

n= 31 Age: Mean 14 Range 9-17 Sex: 16 males 15 females Diagnosis: 39% Conduct disorder by DSM-IV

Exclusions: - did not attend public school - did not qualify to receive mental health services

- not currently at risk of a costly out-of-home fund
- not between 9 and 17
- not living at home with caregiver and/or family
- autism
- severe developmental disabilities
- sexual offending - youths in custody without a permanent home

n= 56

Age: Mean 5

Diagnosis:

problems.

Baseline: Initial rates for self-reported delinquency were

Exclusions: - If the child had a chronic illness or disability,

was in receipt of treatment for behavioural or psychological

higher for MST than controls.

100% Behaviour problems by ECBI

Sex: 33 males 23 females

SANDERS2000

Study Type: RCT Type of Analysis: Not clear Blindness: No mention Duration (days): Mean 42 Followup: 6-months Setting: Home Notes: Details on randomisation not reported. Info on Screening Process: Not reported.

Data Used

Data Used

Arrests

CBCL (Child)

sevice evaluation

CBCL (Parent)

Notes: DROP OUTS: 4/26 (MST): 3/29

(CONTROL), analysis based upon 15 MST and

16 CONTROL that had received their 6-month

Abbreviated Acceptability Rating Profile (AARP) Parenting Problem Checklist (PPC) Parenting Sense of Competence (PSOC) Depression-Anxiety-Stress Scales (DASS) Parenting Scale (PS) ECBI

Notes: TAKEN AT: Pre-test and post-test and at Group 2 N= 28 6-month follow-up (experimental group only followed up. DROP OUTS: not reported.

Group 1 N= 26

Multisystemic therapy - Master level therapists. Home-based model of service delivery. 24/7 support.

Group 2 N= 29

Standard Continuing Care - Could include individual + family therapy, medication, foster care.

Group 1 N= 28 parent training - 12 videotapes each containing a different episode of the "Famililes" television series which is a media component of Triple P (Positive Parenting Program) + 12 self-help information sheet. Mothers were instructed to watch 2 videos per week at home

Control - Waitlist condition

Results from this paper: 1.1 Adequately assessed 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Poorly addressed

1.6 Not addressed 1.7 Well covered

Antisocial personality disorder: CD Appendix 15

2.1 +

SANDERS2000A

Study Type: RCT	n= 305	Data Used	Group 1 N= 76
Type of Analysis: Completers Blindness: Open	Age: Mean 3 Sex: no information	SESBI DISC Abbreviated Dyadic Adjustment Scale (ADAS)	EBFI - Enhanced Behavioural Family Intervention (enhanced Triple P). Parents received an intensive version of the
Duration (days): Mean 105	Diagnosis:	Client Satisfaction Questionnaire (CSQ) Depression-Anxiety-Stress Scales (DASS) Parenting Problem Checklist (PPC) Parenting Sense of Competence (PSOC) Parenting Scale (PS) Parent Daily Reports (PDR) ECBI Notes: TAKEN AT: pre- and post-intervention and at 1 - follow-up	 therapy delivered in SBFI. Parents attended 12 session of 14H or therapy in total. Therapy tailored to the needs of the parents. Homework given. Group 2 N=77 SBFI - Standard Behavioural Family Intervention (Standard Triple P). Parents attended 10 sessions of 10H in total. Parents were encouraged to bring their child to 6/10 sessions. Therapists = trainee clinical psychologists, qualified psychologists, psychiatrists. Group 3 N=75 SDBFI - Self Directed Behavioural Family Intervention (Self-helf Triple P). Families received 10 sessions of self-directed Triple P. Group 4 N=77 Control - Waitlist
Followup: 1-year	100% Behaviour problems by ECBI		
Setting: AUSTRALIA, Brisbane Outpatient	 Exclusions: Initial screening inclusion criteria: child aged between 36 and 48 months mother's concerned about child's behaviour child showed no evidence of developmental disorder or significant health impairment child was not currently having regular contact wth another professional or taking medication for behavioural problems parents were not currently receiving therapy for psychological problems or intellectually disabled and could read a newspaper without assistance. Inclusion criteria after initial screening: ECBI Intensity score > 127 or Problem score > 11 Family adversity factors: (a) maternal depression (BDI > 20) (b) relationship conflict (Parent Problem Checklist >5) (c) single parent household (d) low gross family income (<aus\$345 li="" week)<=""> </aus\$345> 		
Notes: Details of randomisation not reported.			
Info on Screening Process: 940 families responded to advertisement 216 met initial telephone screening but did not return questionnaire 724 returned questionnaire of these 343 excluded 381 met all inclusion criteria 74 declined to participate			
	Baseline: No significant differences in outcome measures at pre-intervention.		

1.1 Adequately covered
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Adequately covered
1.7 Well covered
1.8 6.8% (EBFI); 35.1% (SBFI); 45.3% (SDBFI).
1.9 Not addressed
1.10 Not applicable

2.1 +

SANDERS2000B

Study Type: RCT Type of Analysis: completers Blindness: Open

Duration (days): Mean 84

Info on Screening Process: 160 families were initially screened; 61 were screened further to determined daignoses for child + mother; 47 were eligible and provided consent and began treatment. n= 47 Age: Mean 4 Range 3-9 Sex:

Diagnosis: 4% Conduct disorder by DSM-IV

89% Oppositional defiant disorder by DSM-IV

Exclusions: Inclusion criteria: - mother met DSM-IV diagnosis for major depression with at

Data Used

Family Observation Schedule (FOS) Parent Daily Reports (PDR) CBCL (Parent)

Group 1 N= 23

Parent training + CBT - 12 sessions (8 clinical sessions + 4 feedback session in mother's home) completed over 5- to 5month period plus cognitive therapy for the treatment of depression. Clinical sessions = 1 to 1.5 H and home visits = 40 min. Parent + child were involved. least 1 child meeting DSM-IV diagnosis for either conduct dsorder or oppositional-defiant disorder - child was 3-9 y/o with no evidence of developmental diability

mothers); at 6-month follow-up - 79% (in total) provided data.

Notes: TAKEN AT: pre- and post-assessment

DROP outs: at end of treatment - 21% (parent

training), 13% (parent training + CBT for

Baseline: No differences between groups at preintervention.

Group 2 N= 24

parent training - 12 sessions (8 clinical sessions + 4 feedback session in mother's home) completed over 5- to 5month period. Clinical sessions = 1 to 1.5 H and home visits = 40 min. Parent + child were involved. Therapist = trainee postgraduate clinical psychologists.

Results from this paper: 1.1 Well covere 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.4 Not addressed 1.5 Well covered 1.5 Well covered 1.6 Not addressed 1.7 Well covered 1.8 21% (parent training), 13% (parent training + CBT for mothers); at 6-month follow-up - 79% (in total) provided data. 1.9 Not addressed 1.10 not applicable

2.1 +

SANTISTEBAN2003

SANTISTEDANZUUS			
Study Type: RCT	n= 126	Data Used	Group 1 N= 80
Type of Analysis: Completers	Age: Mean 16 Range 12-18 Sex:	Structural Family Systems Rating (SFSR) Family Environment Scale (FES)	Brief Strategic Family Therapy (BSFT) - All family members who lived in the
Blindness: Open		Revised Behaviour Problem Checklist	household or were significantly involved
Duration (days): Mean 77 Range 28-140	Diagnosis: 100% Behaviour problems by Revised	Addiction Severity Index Notes: DROP OUTS: 30% (intervention group);	in childrearing were asked to participate in therapy. Participants received between
Setting: USA	Behaviour Problem Checklist (RBPC)	37% (control group)	4 and 20 weekly, 1H sesssions of therapy, depending on the severity of the
Notes: Details of randomisation not reported.	Exclusions: If the adolescent did not meet the inclusion		condition.
Info on Screening Process: Details not given.	criteria of parental or school complaints of externalizing		Group 2 N= 46
	behaviour problems.		Control - Group treatment control for adolescents only. Sessions ranged
	Baseline: No significant differences on pre-intervention measures between groups.		between 6 and 16 weekly 90 min sessions in groups of 4-8.

Results from this paper: 1.1 Well covered

1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Poorly addressed
1.6 Not addressed
1.7 Well covered
1.8 30% (intervention group); 37% (control group)
1.9 Not addressed
1.10 Not applicable

2.1 +

SAYGER1988

Study Type: RCT

Blindness: No mention Duration (days): Mean 70 n= 43 Age: Range 8-12 Sex: all males

100% Behaviour problems by Parent referred

Diagnosis:

Fan

Data Used Family Environment Scale (FES) Parent Daily Reports (PDR) CBCL (Parent) Group 1 N= 22 Control - Waitlist condition

Setting: USA

Antisocial personality disorder: CD Appendix 15

families assigned to control were placed in family intervention because of abusive environment)

Exclusions: - not 8-12 years - not high level of aggression

Notes: DROPOUT: Treatment 3/23 Control 12/2(Group 2 N= 23

Family interventions - Social learning family therapy: 10 weekly sessions. Included sessions on discipline, reinforcement, encouragement, school involvement, self control, setting up for success and family communication.

SCOTT2001

Study Type: RCT n= 141 Data Used Group 1 N= 90 CBCL (Parent) Age: Mean 6 Range 3-8 parent training - Basic videotape parent Type of Analysis: Completers Strengths and Difficulties Questionnaire (SDQ Sex: 104 males 37 females Blindness: Open Parent account of child symptoms Diagnosis: Duration (days): Range 91-112 Notes: TAKE AT: pre- and post- intervention 84% Oppositional defiant disorder by ICD-10 (approx 5-7 months after intervention). DROP Setting: Outpatient (four sites) OUTS: 19% (intervention), 27% (waitlist) regular jobs in services. UK Exclusions: Inclusion criteria: Group 2 N= 51 - children aged 3-8 Notes: Allocation was determined by date of Control - Waitlist condition - referred for antisocial behaviour receipt of referral letter. Info on Screening Process: Of 430 referrals, 67 Exclusion criteria: families could not be contacted. 33 said they no - major developmental delay longer had problems, 62 declined to take part, - hyperkinetic syndrome, any other conidition requiring 124 did not fulfil eiligibility criteria, 3 dropped separate treatment out before consent or assessment. -parents had to be able to understand english and attend at group times Notes: The calculation of the percentage of ODD only includes completers. Baseline: No significant differences between groups. Results from this paper:

training programme (Webster-Stratton, 1998). Parents of 6-8 children were seen in groups for 2H each week over 13-16 weeks; the children did not take part and no other treatment given. Therapists had

1.1 Well covered 1.2 Well covered 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Well covered 1.7 Well covered 1.8 9% (intervention), 27% (waitlist) 1.9 Well covered 1.10 Not addressed

2.1 +

000770000

Study Type: RCT	n= 72	Data Used	Group 1 N= 33
Type of Analysis: ITT	Age: Mean 6	Parent account of child symptoms Notes: TAKEN AT: pre-, 6-month and 1-year pos ⁻	parent training - 12-week Incredible Years + 6-week readiness programme for
Blindness: Open	Sex:	randomisation. DROP OUTS (for total sample	parents to use with children. Group
Duration (days): Mean 126	Diagnosis:	with and without elevated behaviour problems):	therapy. 2 1/2 H. Parent only.
	Behaviour problems by Strengths and	13/89 TREATMENT, 9/85 CONTROL.	Group 2 N= 39
Setting: UK, London (disadvantaged areas)	Difficulties Questionnaire		TAU
Notes: Randomisation at classroom level	Exclusions: - inability to understand English		
Info on Screening Process: 665/672 had SDQs completed by teachers, 532 by parents - 24% had behaviour problems. 174/233 provided consent.	 - index child no free of clinically apparent marked global developmental delay or disorder 		
	Notes: ONLY REPORT DETAILS FOR THE 72 CHILDREN WITH BEHAVIOUR PROBLEMS; DEMOGRAPHIC INFORMATION NOT PROVIDED FOR THIS SUBSAMPLE		

1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Adequately addressed [study did not assess whether there are differences among subsample with behaviour problems in each arm) 1.6 Not addressed 1.7 Well addressed 1.8 13/89 (14.6%) TREATMENT, 9/85 (10.6%) CONTROL. 1.9 Well covered 1.10 Not addressed

2.1 +

SHECHTMAN2000

Study Type: RCT Type of Analysis: Completers Blindness: Open Duration (days): Mean 70 Setting: ISRAEL School	n= 70 Age: Range 10-15 Sex: 55 males 15 females Diagnosis: 100% Behaviour problems by Teacher referred Exclusions: - children not nominated by their teachers for	Data Used CBCL (Teacher) CBCL (Child) Notes: TKAEN AT: pre- and post-assessment. DROP OUTS: 63/70 (9%) CBCL-YSR and 68/70 (3%) CBCL-TRF. CBCL-TRF was rated by teachers in the following year that were not involved in the intervention.	Group 1 N= 33 Anger Control Training - 10 x 45 min sessions. Students asked to identify feelings leading to aggression in short stories/poems, risk of aggressive responses and to look at the connection between their own behaviour and that in the literature. Group or individual therapy. Group 2 N= 36
Notes: Details on randomisation not reported.	being aggressive as assessed by a 10-item questionnaire that referred to verbal and physical aggression.		Control - No treatment; control students
Info on Screening Process: Details not reported.	Baseline: No significant differences.		remained in their homeroom groups with their teachers.

Results from this paper:

1.1 Well covered	
1.2 Not reported	
1.3 Not addressed	
1.4 Poorly addressed	
1.5 Well covered	
1.6 Not addressed	
1.7 Well covered	
1.8 0% drop out of intervention; missing data for ou	tcome measures
1.9 Not addressed	
1.10 Not addressed	

2.1 +

SIEGERT1980

SIEGERI 1900			
Study Type: RCT	n= 30	Data Used	Group 1 N= 8
Study Description: NO EXTRACTABLE DATA	Age:	Target behaviour frequency reduction	individual in-home - Individual parent
Type of Analysis: ITT	Sex: no information	Marginal percentage reduction in behaviour Issue checklist	training delivered at home. One hour weekly sessions. Therapists are masters-
Blindness: No mention	Diagnosis:	Therapist report of adherence	degree-level counselors or a clinical
Duration (days): Mean 35	Exclusions: Target child who exhibits behavior problems is	Notes: TAKEN AT: pre- and post-intervention	graduate with experience. Group 2 N= 7
Followup: 4 months	not between the ages of 5 to 15, is diagnosed as psychotic	with 4 month follow-up. DROP OUTS: 1 (individual in-office condition); 1 (individual in-	group in-office - Group parent training
Setting: Home or office	by a physician, has brain damaged or severely mentally or physically handicapped.	home condition)	delivered in the office. One-half hours of weekly sessions.
Notes: Details on randomisation not reported.	Notes: No formal diagnosis or tool used.		Group 3 N= 7
Info on Screening Process: Details not reported.			individual in-office - Individual parent training delivered in the office. One hour

weekly sessions.

Group 4 N= 8

Control - Parents met with data collector for 15 to 20 minutes wach week, informally discussing child-management problems but avoiding description of any behaviour-change stratergies.

Results from this paper:
1.1 Well covered
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Not addressed
1.7 Poorly addressed
1.8 1 (individual in-office condition); 1 (individual in-home condition)
1.9 Well covered
1.10 Well covered

2.1 +

SNYDER1999

Study Type: RCT Study Description: INPATIENT SAMPLE Type of Analysis: Completers Blindness: Open Duration (days): Mean 14 Followup: 4-6 week follow-up Setting: USA, New York Inpatient Notes: Randomization was done by a random number generator using the Apple Computer SANE Mathematics routine. Info on Screening Process: Details not reported.	n= 50 Age: Sex: 28 males 22 females Diagnosis: 100% Behaviour problems by STAXI 62% Disruptive Behaviour Disorder by DSM-IV Exclusions: - If the treatment team could not recommend the adolescent to be admitted to the hospital unit based on a review of the patient's history, observations of behavior on the unit and a semistrucutred clinical interview - If the adolescent did not ger a score of 75% or higher on the Trait Anger Scale of the State-Trait Anger Expression	School Social Behavior Scale - Antisocial Scale HCSBS - Antisocial Scale MMPI-A - Anger Content Scale Notes: TAKEN AT: pre- and post-interventiona and 4-6 week follow-up. DROP OUTS: 9/59 (15%	 Group 1 N= 25 Anger Control Training - 4 x 45- 50 min sessions with 4-6 patients over a 2 week period. Interpretation/verbal labeling of internal arousal levels + regulation of affect and subsequent behaviour. Supporting new skills and their transfer to social situations. Group 2 N= 25 Control - Series of psychoeducational videotapes on topics relevant to adolesents i.e. conflict resolution, drugs, careers and the Nutty Professor (which has excerpts that demonstrate some strategies for responding to provocations).
Results from this paper: 1.1 Well covered 1.2 Adequately addressed 3.3 Not addressed 4.4 Poorly addressed 5.5 Adequately addressed 6.6 Adequately addressed 7.7 Well covered 8.8 15% in total 1.9 Not addressed 1.10 Not applicable 2.1 +	Inventory (STAXI) Baseline: Baseline data was reported; no test that examined differences between the conditions in the baseline data were reported.		

STEWART-BROWN2007

Study Type: RCT Type of Analysis: ITT n= 116 Age: Mean 5 Range 2-8 Sex: no information

Data Used Rosenberg Self Esteem Scale (RSE) General Health Questionnaire (GHQ)

Group 1 N= 60

The Incredible Years Programme -Videotape modelling and experiential Just over half of the participants were boys however exact figures not given on the sex of the Blindness: Open

Duration (days): Mean 70

Followup: 6-month and 12-month

Setting: ENGLAND, Oxford

Notes: Details on randomisation not reported

Info on Screening Process: Numbers not reported. All parents of 2-8 year old children registered with three GPs in Oxford were invited to participate in a survery to determine eligibility to the study. Of those invited in the study 30% consented to enter the trial.

Diagnosis: 100% Behaviour problems by ECBI

Exclusions: Parents excluded if the child was not between the ages of 2 and 8; if at least one child in the family did not fall above the median of ECBI or if the child was diagnosed with a learning diffculty or had previous treatment for behaviour problems.

Goodman Strengths and Difficulties questionnaire Parenting Stress Index (PSI) ECBI

Notes: TAKEN AT: pre- and post-intervention and at a 6 and 12 month follow-up. DROP OUTS Group 2 N= 56 26 non-attenders (intervention group); loss to follow-up at 12-months was 13 (23%; control group) and 16 (28%; intervention group).

learning. Parents set themselves goals, children. undertake homework each week and report back on progress. Sessions are 2H, weekly over 10 weeks. Delivered by trained health visitors and nursery nurses.

Control - Waitlist condition

Results from this paper:

1.1 Poorly covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Adequately covered 1.6 Not addressed 1.7 Well covered 1.8 loss to follow-up: 23% (control group) and 28% (intervention group). 1.9 Well covered 1.10 Well covered

2.1 +

STOLK2008

Study Type: RCT

Blindness: Duration (days): Mean 240

Setting: Netherlands Notes: no further details on randomisation

Age: Mean 2 Range 1-3 Sex: 132 males 105 females Diagnosis: 100% Behaviour problems by CBCL

n= 237

Exclusions: - children that did not have dutch first or surnames - CBCL age:1 <13, age:2 <19, age:3 <20

Data Used

CBCL (Parent)

Shipley Scale

Group 1 N= 64

Parent - First-time mothers: 4 sessions every month then 2 booster sessions. Personal feedback on mother-baby interaction using video cameras and education on development of baby. Individual therapy.

Group 2 N= 66

Control - First time mothers: received 6 telephone calls as attentional control.

Group 3 N= 56

Parent - Not first time mothers:4 sessions every month then 2 booster sessions. Personal feedback on mother-baby interaction using video cameras and education on development of baby.

Group 4 N= 51

Control - Not first time mothers: received 6 telephone calls as attentional control.

STRAYHORN1989

STRATHURN 1989					
Study Type: RCT	n= 98	Data Used	Group 1 N= 50		
Type of Analysis: ITT	Age: Mean 4 Range 2-5	Verbal ability measures	parent training - Group training involving instruction and role-playing practice and		
Type of Analysis. IT I	Sex: 43 males 55 females	Frequency of behaviour for preschoolers			
Blindness: No mention		Parents' ratings on ODD and ADHD from DSM	individual sessions. Also viewed three		
Duration (days): Mean 42	Diagnosis:	III-R	videotapes and received pamphletss summarizing the content of training.		
(,	100% Behaviour problems by Parent referred	Behar Preschool Behavior Questionnaire			
Setting: USA		(PBQ)	Training delivered by research assistant.		
Notes: Randomisation process not detailed in	Exclusions: - Families whose primary language was not	Child Behavior in Play with Parent Scale	Financial incentives given.		
this paper but reported in the secondary	English or whose children had vocabulary test standard	CBCL (Parent)			
reference as sequentially by drawing a face-		Shinley Scale			

Antisocial personality disorder: CD Appendix 15

reference as sequentially, by drawing a face-

down card from a table-top Info on Screening Process: Not reported.

the SD).

- If parent or care taker of the child did not indicate in the screening conversation that the child had at least one undesirable behaviour.

Parent Behavior in Play with Child Scale

- Commands Self-Report
- Parent Practices Scale
- consumer satisfaction questionnaire Beck Depression Inventory

Notes: TAKEN AT: pre- and post-intervention. Post intervention was taken on average 139 days after the last group meeting; or 33 days after the last individual session with the child.

Group 2 N= 48

Control - Minimal treatment (most efficacious available intervention per unit of staff time expenditure). Parents viewed two videoptapes (also shown to the experimental group) and received a copy of the "Suggestions for Parents" handout.

Results from this paper:

1.1 Not addressed
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Not addressed
1.6 Not addressed
1.7 Adequately addressed
1.8 Experimental condition (5 drop outs)
1.9 Well covered
1.10 Not applicable

2.1 +

SUKHODOLSKY2000

30KH0D0L3K12000	_		
Study Type: RCT	n= 33	Data Used	Group 1 N= 16
Blindness: Open Duration (days): Mean 70 Setting: US School Notes: Details on randomisation not reported. 3 boys changed groups after randomisation due to scheduling difficulties.	Age: Range 9-11 Sex: all males Diagnosis: 100% Behaviour problems by Teacher referred Exclusions: - Male students not nominated by their teachers for having anger-related problems - children who did not return parent consent forms	Teacher Rating Scale Pediatric Anger Expression Scale (Self-report) Children's Inventory of Anger (Child) Notes: TAKEN AT: pre- and post-intervention. DROP OUTS: none reported.	Anger Control Training - CBT delivered in groups of 4-7 for 40 min sessions with (1) affective education; (2) techniques dedicated to cognitive & physicological elements of anger and; (3) rehearsal of anger-control skills. Groups run by authors of study. Group 2 N=17 Control - Playing various games such as "Jenga" and "Connect Four". These
Info on Screening Process: Not reported.			games offer an entertaining context within which various problematic behaviours can be addressed.
Results from this paper: 1.1 Poorly addressed 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Not addressed 1.6 Not addressed 1.7 Well covered 1.8 0% 1.9 Poorly addressed 1.10 Not reported 2.1 +			

SUTTON1995

Study Type: RCT	n= 23	Data Used	Group 1 N= 11
Study Description: DATA NOT EXTRACTABLE Type of Analysis: Unclear Blindness: Open Duration (days): Mean 56	Age: Sex: 17 males 6 females Diagnosis:	Goal compliance Positive count Negative count O'Dell, Tarler-Benlolo and Flynn questionnaire Child Behaviour Questionnaire (Parent)	parent training - Immediate intervention group received training via telephone. Eight weekly phone calls, one per week, of between 5 and 40 minutes. Followed by a follow-up session two weeks and 2 - 3 months after final session.
Followup: 12-18 months Setting: UK Notes: Details on randomisation not reported. Info on Screening Process: 26 children screened, 24 were appropriate referrals, 23 had	Exclusions: Not reported. Notes: No formal diagnosis or tool.	Home Situations Questionnaire (Parent) Beck Depression Inventory Notes: TAKEN AT: pre-and post-intervention an at follow-up. DROP OUTs: not reported.	Group 2 N= 12 Waitlist - Waitlist were compared initally

Results from this paper:

sufficient data.

1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Not addressed 1.7 Well covered 1.8 Not reported 1.9 Not applicable

2.1 +

SZAPOCZNIK1989

Study Type: RCT

Blindness: Single blind

Duration (days): Mean 180 Setting: US

Notes: RANDOMISATION: method not reported Info on Screening Process: 979 screened

Sex: all males Diagnosis:

n= 108

Diagnosis:

problems.

Age: Mean 6 Range 3-8

Sex: no information

Age: Mean 9 Range 6-12

n= 69

16% Conduct disorder by DSM-III

32% Oppositional defiant disorder by DSM-III

100% Behaviour problems by Parent referred

Exclusions: - Child not between the ages of 3 and 8. The

Baseline: The ECBI for families assigned to waitlist control

was 16.5 and 127 in comparison to 19.0 and 144.5 for

primary reason for referral was not child management

Exclusions: - not 6-12 years - not from a 2 parent family - lived in the US for less than 3 years - history of mental retardation, organic dysfunction, mental health care, psychoactive medication, or suicidal ideation

TAYLOR1998

Study Type: RCT

Type of Analysis: ITT

Blindness: Open Duration (days): Range 77-98

Setting: CANADA, Ontario Community-based

Notes: Details of randomisation process not reported. Urgent families could not be randomised into waitlist control.

Info on Screening Process: Initial screening number not reported but of those who met the

Antisocial personality disorder: CD Appendix 15

Data Used

Data Used

Therapy Attitude Inventory Brief Anger-Aggression Questionnaire (BAAQ) Support Scale Dyadic Adjustment Scales (DAS) MESSY Achenbach Teacher Report Form (TRF) Beck Depression Inventory PDR CBCL (Parent) ECBI

Revised Behaviour Problem Checklist

Notes: DROPOUTS: 19/88

Group 1 N= 46

emphasised.

Group 1 N= 26

interactions

Group 2 N= 26

parent training - 7 families per group that met for 2 hours and 15 minutes weekly for 11 to 14 weeks. Between group meetings, therapists made calls to families who missed sessions or were having difficulties. Monetary award if completed questionnaires.

Family interventions - Structured family

therapy: 60-90min session per week at

first and then less frequently. Emphasis

Psychodynamic intervention - Individual

approach, the child was seen in a

playroom situation. Expression of

feelings, limit setting, transference

interpretations, and insight were

psychodynamic child therapy: one 50 min session per week. Non directive

was on modifying maladaptive patterns of

inclusion criteria for the study, 51 declined to participate. 108 families randomised to treatment.

assigned to eclectic treatment.

Notes: TAKENT AT: pretest, post-test (after 4 Gro months of treatment) Gro

Group 2 N= 46

Control - Treatment typically offered at the centre. Therapeutic approaches or theories included ecological, solutionfocused, cognitive-behavioural, family system. Familes met with therapist on an individual basis and negotiated frequency and intensity.

Results from this paper:

1.1 Well covered
 1.2 Not reported
 1.3 Not addressed
 1.4 Not addressed
 1.5 Well covered
 1.6 Not addressed
 1.7 Well covered
 1.8 PACS: 5 families TAU: 8
 1.9 Well covered
 1.10 Not applicable

2.1 +

TIMMONSMITCHELL2006

Study Type: RCT	n= 93	Data Used	Group 1 N= 48
Blindness: Duration (days): Mean 145 Range 90-150 Followup: 6-month	Age: Mean 15 Sex: 71 males 22 females Diagnosis: 100% Offending history	Recidivism Notes: TAKEN AT: pre- and post-treatment and at 6-month follow-up and 18-month recidivism follow-up. DROP OUTS: 11% (in total)	Multisystemic therapy - MST provides service delivery at home and in the community 24 hours a day, 7 days a week. Treatment ranges between 3 and 5 months (no prescribed length of service).
Notes: Randomization was accomplished by having the court administrator flip a coin.	a coin. Exclusions: Inclusion criteria:		Mater's level MST supervisor + 14 therapists. Group 2 N= 45
Info on Screening Process: 105 participants who met the inclusion criteria agreed to participate in the study.	 felony conviction suspendent commitment to the Department of Youth Services incacerating facility parent's consent to participate 		Standard Continuing Care
	Baseline: No significant differences in pre-treatment offences, misdemeanors or felonies.		
Results from this paper:			

Results from this paper: 1.1 Well covered

Adequately addressed
 Not addressed
 A Not addressed
 S Well covered
 Not addressed
 T Adequately addressed
 A Adequately addressed
 Not addressed
 Not addressed
 Not applicable

2.1 +

TURNER2006

Study Type: RCT

Type of Analysis: ITT

Blindness: Open

Duration (days): Range 21-28

n= 30 Age: Range 2-5 Sex: no information

Diagnosis: 100% Behaviour problems by Parent referred

Data Used

Client Satisfaction Questionnaire (CSQ) Parenting Experience Survey (PES) Goal Achievement Scales (GAS) Family Observation Schedule (FOS) Observation settings

Group 1 N= 16

parent training - Primary care Triple P. Three to four brief (30 minute) individual family consultations once per week. Five nurses delivered the intervention.

Setting: AUSTRALIA, Brisbane Antisocial personality disorder: CD Appendix 15

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Primary Care Notes: Details on randomisation not reported. Info on Screening Process: Details not reported.	 Exclusions: - If the child was not between 2 and 5 years of age and had started primary school. If the primary caregiver did not have one or more concerns about their child's behavior or their own parenting skills. If the child had received a diagnosis of developmental delay, developmental disorder, conduct disorder or ADHD. If the child was currently taking medication or in regular contact with another professional for behavioral problems. If the parents were currently in therapy for psychological or relationship problems or could not read English. 	Home and Community Problem Checklist (HCPC) Depression-Anxiety-Stress Scales (DASS) Parenting Sense of Competence (PSOC) Parenting Scale (PS) ECBI Parent Daily Reports (PDR) Notes: TAKEN AT: pre- and post-ntevention; experimental group followed up at 6-months. DROP OUTS: 3 (18.75%; waitlist) and 2 (14.28%; parent training).	Group 2 N= 12 Control - Waitlist condition
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Results from this paper:

1.1 Well covered
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Well covered
1.7 Well covered
1.8 18.75% (waitlist) and 14.28% (parent training)
1.9 Well covered
1.10 Not applicable

2.1 +

TURNER2007					
Study Type: RCT		Data Used	Group 1 N= 26		
Type of Analysis: Completers	Age: Mean 6 Sex: 33 males 18 females	Strengths and Difficulties Questionnaire (SDQ Client Satisfaction Questionnaire (CSQ) Depression-Anxiety-Stress Scales (DASS) Parenting Experience Survey (PES) Parenting Scale (PS)	parent training - A culturally sensitive adaptation of the group Triple P that		
Blindness: Open Duration (days): Mean 56	Diagnosis: 100% Behaviour problems by Parent referred		takes into consideration the tradition and needs of the Indigenous people of Australia. An 8 session programme in		
Setting: AUSTRALIA, Brisbane Outpatient	Exclusions: If target child was not between 1 and 13 years of	ECBI Notes: TAKEN AT: pre- and post-intervention	groups of 10-12 parents. Group 2 N=		
Notes: Families were randomly assigned using a random number generator and consecutive case allocation.	age and if the primary caregiver did not have concerns about their child's behaviour or their own parenting skills. If the target child had a development delay, major physical	and at a 6-month follow-up (for intervention group cal only). DROP OUTS: Intervention group: 3 non- attenders and 3 non-completors. Waitlist group: 7 non-completors.			
Info on Screening Process: Details not given.	disability or sovere chronic illness; chronic illness; and				
	Baseline: Differences between groups of pre-intervention measures not calculated. ECBI scores (Intensity and Problem subscales) are higher for the intervention group (150.05; 19.81) than the waitlist group (130.18;15.79).				

Results from this paper: 1.1 Well covered 1.2 Well covered 1.3 Well covered 1.4 Not addressed 1.5 Adequately addressed 1.6 Well covered 1.7 Well covered 1.7 Well covered 1.8 23% (intervention group); 28% (waitlist) 1.9 Not addressed

1.10 Not addressed

2.1 +

VAN MANEN2004

VAN MANEN2004			
Study Type: RCT	n= 97	Data Used	Group 1 N= 42
Type of Analysis: Completers Blindness:	Age: Mean 11 Range 9-13 Sex: all females	TRA CBCL (Parent) CBCL (Teacher)	Cognitive Problem Solving Skills Training - Social cognitive intervention program. Group treatment (N=4). 11 x 70
Duration (days): Followup: 1 year	Diagnosis: Conduct disorder by DSM-IV	Notes: TAKEN AT: pre- and post-intervention and 1-year follow-up.	min weekly session. Therapist trained in both manuals and delivered both treatments. Includes the training of
Setting: Netherlands Outpatient	Oppositional defiant disorder by DSM-IV		problem solving skills in social situations. Group 2 N= 40
Notes: Details on randomisation not reported.	Exclusions: Inclusion criteria:		Social skills training - Social skills training program = behavioural training; teaching
Info on Screening Process: Details not reported	 DSM-IV criteria for CD or ODD WISC-R IQ score above 85 CBCL aggressive and/or delinquent behaviour in the clinical range and attention problems in the non-clinical range ODD/CD boys with a few ADHD symptoms according to DSM-IV criteria but without an ADHD diagnosis were not excluded Baseline: No significant differences 		children various social skills to improve interation with peers. Group treatment (N=4). 11 x 70 min weekly session. Group 3 N= 15 Waitlist
Results from this paper:			
1.1 Adequately addressed 1.2 Not reported 1.3 Not addressed			

1.4 Not addressed

1.5 Well covered 1.6 Not addressed 1.7 Well covered 1.8 1.9 Not addressed 1.10 Not applicable

2.1 +

VANDEWIEL2007

Study Type: RCT

Blindness:

Duration (days): Mean 270

Setting: US Outpatient

Notes: no further details on randomisation

n= 77

Diagnosis:

100% ADHD by DSM-IV

94% Disruptive Behaviour Disorder by DSM-IV

Exclusions: - not 8 to 13 years - in an institution - IQ <80

Age: Mean 10 Range 8-13

Sex: 68 males 9 females

WEBSTER-STRATTON1984

Study Type: RCT

Type of Analysis: Completers

Age: Mean 5 Sex: 25 males 10 females

n= 35

Data Used

Data Used

CBCL (Parent)

Parent Daily Reports (PDR)

consumer satisfaction questionnaire Behar Preschool Behavior Questionnaire (PBQ)

Group 1 N= 38

Anger Control Training - parent + anger coping: 23 sessions for children and 15 sessions for parents. Based on Lochman's coping power interventions.

Group 2 N= 10

Family interventions - TAU: Family interventions based on systemic therapy or communication skills.

Group 3 N= 16

Group 1 N= 11

Behaviour Therapy - TAU: Cognitive problem solving skills

parent training - 9 weeks of one-to-one

Antisocial personality disorder: CD Appendix 15

sessions between te therapist, parent and Page 43 of 88

Blindness: Duration (days): Mean 63	Diagnosis: 100% Behaviour problems	Parent Daily Reports (PDR) ECBI CBCL (Parent)	target child. Parents role-played and rehearsed the modeled skills with their child while therapist watched. Therpaists
Setting: USA Outpatient	Exclusions: - Child was not between the ages of 3 and 8. - Child had debilitating physical impairment, intellectual	Notes: TAKEN AT: Pre- and post-intervention (at baseline and at 3-months) with 1 year follow-up. DROP OUTS: 40 families entered the study, 35 completed treatment, 31 assessed at follow-up.	were doctorally trained psychologists. roup 2 N= 13
Notes: Randomisation occurred using a sealed enveloped designating the assigned group to the participant.			parent training - 9 sessions of therapist- led discussion program where parents in groups of 8-10 observed videotapes of modeled parenting skills. Children did not
Info on Screening Process: Details not reported.			attend the sessions. Both experimental groups paid for therapy.
		G	roup 3 N= 11
			Control - Waitlist condition.
Results from this paper:			
1.1 Well covered			
1.2 Well covered			
1.3 Well covered			
1.4 Not addressed			
1.5 Well covered			
1 C Not oddrogood			

1.4 Not addressed 1.5 Well covered 1.6 Not addressed 1.7 Well covered 1.8 Full details not given 1.9 Not addressed 1.10 Not applicable

2.1 +

WEBSTER-STRATTON1988

Study Type: RCT

Type of Analysis: Completers Blindness: No mention

Duration (days): Range 70-84

Notes: A randomly selected sealed envelopewas opened that designated each family's parent-training condition.

Info on Screening Process: Not reported.

n= 114 Age: Mean 5 Range 3-8 Sex: 79 males 35 females Diagnosis:

100% Conduct disorder by ECBI Exclusions: Child was not between the ages of 3 and 8. Child had debilitating physical impairment, intellectual deficit

or history of psychosis and was receiving any form of psychological treatment at the time of referral. If the primary referral was not for child misconduct that had been occuring for 6 months. If parent did not report a clinically significant number of child behavour problems (more than 2 SD above the mean) on the ECBI.

Data Used

consumer satisfaction questionnaire Behar Preschool Behavior Questionnaire (PBQ) DPICS Parenting Stress Index (PSI) PDR ECBI

CBCL (Parent)

Notes: TAKEN AT: pre- and post-intervention (one month after treatment). DROP OUTS: not reported but significantly nore parents dropped out from the GD treatment compared with the GDVM and IVM treatments.

Group 1 N= 48

GDVM - Group discussion videotape modeling training (28 mothers and 20 fathers). Parents came to clinic weekly for 10-12 two-hour sessions in groups of 10 -15. Parents met with therapist who showed 10 videotape programs.

Group 2 N= 49

IVM - Individually administered videotape modeling training (29 mothers and 20 fathers). Parents came to clinic weekly for self-administered sessions where they viewed 1 of the 10 videotape programs.

Group 3 N= 47

Group discussion training - Group discussion training (28 mothers and 19 athers). Parents came to the clinic weekly for 10-12 two-hour sessions in groups of 10-15. Met with a therapist who led a group discussion of the same topics covered in GDVM without the videotapes.

Group 4 N= 47

Control - Waitlist control

Results from this paper:

- 1.1 Well covered
- 1.2 Well covered
- 1.3 Well covered
- 1.4 Not addressed
- 1.5 Well covered
- 1.6 Adequately addressed
- 1.7 Well covered

2.1 +

WEBSTER-STRATTON1990

n= 43

Diagnosis:

Age: Mean 5 Range 3-8

Sex: 34 males 9 females

Behaviour problems by ECBI

Study Type: RCT

Type of Analysis: Completers

Blindness: No mention

Duration (days): Mean 70

Notes: Details on randomisation not reported.

Info on Screening Process: Not reported.

Exclusions: Child was not between the ages of 3 and 8. Child had debilitating physical impairment, intellectual deficit or history of psychosis and was receiving any form of psychological treatment at the time of referral. If the primary referral was not for child misconduct that had been occuring for 6 months. If parent did not report a clinically significant number of child behavour problems (more than 2 SD above the mean) on the ECBI.

Baseline: Comparisons not made between groups on preintervention data therefore level of significance is unknown. Pre-scores do vary. ECBI intensity (mother) 164.59 for IVM and 157.36 for control. CBCL (mother) 49.29 for IVM and 64.46 for IVMC. PSI (mother) 145.17 for IVM and 153.46 for IVMC.

Group 1 N= 27

IVM - Individually Administered Videotape Modeling Treatment (17 mothers and 10 fathers). Parents came to the clinic weekly for 10 weeks to see 10 videotape programs.

Group 2 N= 25

IVMC - Individually Administered Videotape Training Plus Therapist Consultation (16 mothers and 9 fathers). Viewed the same videos as IVM plus they were told that they could contact therapist at any time and were scheduled for 2 individual 1-hour appointments.

Group 3 N= 19

Control - Waitlist condition

Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed

1.4 Not addressed 1.5 Not addressed 1.6 Adequately addressed 1.7 Well covered 1.8 2 families in IVMC

1.9 Not addressed 1.10 Not applicable

2.1 +

WEBSTED STRATTONA

WEBSTER-STRATTON1992 Study Type: RCT Data Used n= 100 Group 1 N= 96 Parent Daily Reports (PDR) Age: Mean 5 Range 3-8 IVM - Individually Administered videotape Type of Analysis: Unclear DPICS Modeling Training (59 mothers and 37 Sex: 72 males 28 females Blindness: No mention fathers). Parents came to the clinic Behar Preschool Behavior Questionnaire weekly for 10 weeks to see 10 videotape Diagnosis: (PBQ) Duration (days): Mean 70 programs. Videotapes were accompanied 100% Behaviour problems by ECBI ECBI with manual. Weekly homework Followup: 1 year CBCL (Parent) assignments were included. Exclusions: Child was not between the ages of 3 and 8. Parenting Stress Index (PSI) Info on Screening Process: No reported. Group 2 N= 41 Child had debilitating physical impairment, intellectual deficit Control - Waitlist condition or history of psychosis and was receiving any form of psychological treatment at the time of referral. If the primary referral was not for child misconduct that had been occuring for 6 months. If parent did not report a clinically significant number of child behavour problems (more than 2 SD above the mean) on the ECBI.

Data Used

DPICS

PDR

ECBI

CBCL (Parent)

not included in study)

consumer satisfaction questionnaire

Notes: TAKEN AT: pre- and post-intervention

(one month after treatment). DROP OUTS: IVM

(no drop outs); IVMC (two familes dropped out,

Parenting Stress Index (PSI)

Antisocial personality disorder: CD Appendix 15

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Notes: TAKEN AT: pre- and post-intervention and follow-up assessment (delayed-treatment control group families not included). DROP OUTS: 2 mothers and 3 fathers dropped out of control group; 2 mothers and 6 fathers dropped out of experimental group.

Results from this paper:

1.1 Well covered
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Well covered
1.6 Adequately addressed
1.7 Well covered
1.8 2 mothers and 3 fathers dropped out of conrol group; 2 mothers and 6 fathers dropped out of experimental group.
1.9 Not reported

1.10 Not applicable

2.1 +

WEBSTER-STRATTON1994

WEDSIER-SIRATION 1994				
Study Type: RCT Type of Analysis: Completers Blindness: No mention Duration (days): Mean 189 Followup: short term follow-up Info on Screening Process: Not reported.	 n= 78 Age: Range 3-8 Sex: Diagnosis: Conduct disorder by DSM-IIIR Oppositional defiant disorder by DSM-IIIR Exclusions: Child was not between the ages of 3 and 8. Child had debilitating physical impairment, intellectual deficit or history of psychosis and was receiving any form of psychological treatment at the time of referral. If the primary referral was not for child misconduct that had been occuring for 6 months. If parent did not report a clinically significant number of child behavour problems (more than 2 SD above the mean) on the ECBI. Child did not meet DSM-III-R criteria for ODD and CD. 	Marital Adjustment Test (MAT) SPST-R DPICS consumer satisfaction questionnaire PS-I CARE ECBI CBCL (Parent)	Group 1 N= GDVM - Basic videotape parent skills training program delivered to all parents. Consisted of weekly meetings at clinic for 12 to 13 weeks for 2 hour sessions in groups of 10 to 15. Therapists were socia workers or psychologists with experience. GDVM + ADVANCE Group 2 N= 38 GDVM + ADVANCE - In addition to GDVM sessions, parents also received 14 additional weekly 2 hour sessions. ADVANCE trains parents to cope with interpersonal distress through improved communication, problem solving and self- control skills.	
Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Adequately addressed 1.7 Well covered 1.8 7 familes dropped out of the study; 4 1.9 Not addressed 1.10 Not applicable. 2.1 +	6 did not complete initial GDVM and 1 did not complete AD ¹	VANCE. Study only used families that comple	ted all the phases.	

WEBSTER-STRATTON1997

Study Type: RCT	n= 97	Data Used	Group 1 N= 26
Type of Analysis: Unclear Blindness: Open	Age: Mean 6 Range 4-7 Sex: 72 males 25 females	WALLY Parenting Stress Index (PSI) PDR	parent training - 26 mothers and 17 fathers divided into groups of 10-12, met weekly with therapist at clinic over course
Duration (days): Range 154-168 Followup: 1 year	Diagnosis: 100% Conduct disorder by DSM-IIIR	ECBI CBCL (Parent) PS-I CARE	of 22-24 weeks for 2 hour sessions. Therapists had Masters or Doctoral level of education with 5-20 years of experience.
Setting: USA	100% Oppositional defiant disorder by DSM-IIIR	Behar Preschool Behavior Questionnaire	Group 2 N= 22
Notes: Details of randomisation process not reported. Info on Screening Process: Numbers not reported	ADHD by DSM-IIIR Exclusions: - Child was not between the ages of 4 and 7. - Child had debilitating physical impairment, -intellectual deficit or history of psychosis and was receiving any form of psychological treatment at the time of referral. -If the primary referral was not for child misconduct that had been occuring for 6 months. -If parent did not report a clinically significant number of child behavour problems (more than 2 SD above the mean) on the ECBI. -Child did not meet DSM-III-R criteria for ODD and CD.	(PBQ) consumer satisfaction questionnaire PPS-I CARE Parent Daily Reports (PDR) DPICS-R Notes: TAKEN AT: pre-treatment, post-treatment (2 months and 1 year) DROP OUTS: CT-PT (no drop outs)	Child + parent training group - 20 mothers, 16 fathers and 22 children came to clinic weekly for 22 to 24 sessions for parent training and child training. Group 3 N= 27

Results from this paper:

1.1 Adequately addressed
1.2 Not reported
1.3 Not addressed
1.4 Not addressed
1.5 Not addressed
1.6 Adewuately addressed
1.7 Well covered
1.8 Unclear
1.9 Not reported
1.10 Not applicable

2.1 +

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
ABELL2001	Design: non-RCT
ADAMS1992	Outcome: not validated
ANTSHEL2003	Population: ADHD
ARMSTRONG1994	Design: non-RCT
BARTON1985	Design: non-RCT
BIENERT1995	Data: not extractable
BIERMAN1987	Data: not extractable
BIERNERT1995	Data: not extractable
BLUE1981	Method: less than 10 in each group
BORDUIN1990	Method: less than 10 in each group
BOSWORTH2000	No validated outcome measure; insifficient follow-up
BRASWELL1997	
BRESTAN1997	
BROTMAN2007	Outcome: not relevant
BRUNK1987	Aim: focus on child maltreatment
nticogial managemality disondom CD	Amondia 1E

CAMP1977	Data: not extractable
CHUNG1994	No relevant outcomes
CIRILLO1998	Data: not extractable
COATS1979	Method: less than 10 per group
CULLEN1996	Outcomes not relevant
CUNNINGHAM1995	Comparisons: not relevant
DADDS1987	Data: not extractable
DEAN2007	not RCT
DEROSIER2007	Method: less than 10 participants in one group
DOZIER2006	Insufficient follow-up
DUBOW1987	no extractable data
DUPPER1993	no extractable data
EMSHOFF1983	Data: not extractable
FENNELL1998	Outcome: not relevant
FERGUSSON2006	Insufficient follow-up
FESHBACH1979	Data: not extractable
FISHER1999	Outcome: no relevant
FISHER1999A	Design: not an intervention study
FORMAN1980	Method: less than 10 participants per group
FORREST1984	No relevant outcomes
FRANKEL1997	Data: not extractable
FUNG2006	6 participants per group
GANT1981	Data: not extractable
GARDNER2007	No relevant outcomes
GARRISON1983	Data: not extractable
GRIZENKO1994	No control group
GRIZENKO1997	Design: non-RCT
GROSS1995	Method: N<10
HARRINGTON2000	Setting's paper
HENGGELER1991	Outcomes
HENGGELER1999A	Population/comparison not relevant
HENRY2004	Method: not an intervention paper
HINSHAW2000	Population: main focus on ADHD
HOATH2002	Method: less than 10 people in each group
HOBBS1984	Outcomes: no validated
HUDLEY1993	Data: not extractable
HUEY1984	Data: not extractable
IALONGO1993	Main focus on ADHD
KAMON2005	Design: not a RCT
KANNAPPAN1993	Method: not sufficient details on participants/intervention
KAZDIN2003	Outcome: used a unvalidated composite measure
KAZDIN2003A	Design: not an intervention paper
KELLNER1999	Less than 10 participants in each arm.
KNAPP1989	Comparisons: not relevant
LANE1999	Outcomes: not relevant

LARKIN1999	Outcomes: not relevant
LEE1979	No validated outcome measures.
LEIBER1995	Design: non-RCT
LESURE-LESTER2002	Method: n<10
LOCHMAN1993	Methid: of the children who are aggressive and rejected, there are less
	than 10 in the treatment and control group.
LOCHMAN2003A	Method: n<10 in each group
LONG1993	Aim: main focus on ADHD
LOVERING2006	Method: not a RCT
LUK1998	Less than 8 people in the Family Therapy arm
MAGER2005	Comparison: not relevant
MARTSCH2005	The study is not looking at individual outcomes but group outcomes.
MCMAHON1981	Outcome: not relevant
MULTISITE2004	Method: not an intervention paper
MUNTZ2004	Control group is less than 10
MURIS2005	Design: non-RCT
MYERS2000	Design: non-RCT
NILES1986	Outcomes: none relevant
NILSEN2007	Method: not randomized
ONIEL2002	Method: n<10 in each group
PAINTER1999	Outcome: not validated
PATTERSON1982	Less than 10 persons per group
PATTERSON1990	Method: not an intervention paper
PEVSNER1992	Method: less than 10 participants in each group. Irelevant outcomes.
PFIFFNER1990	Method: less than 10 persons in each group
PFIFFNER1997	Method: less than 10 people in each arm
PISTERMAN1989	Aim: main focus on ADHD
PISTERMAN1992	Aim: focus on ADHD
POWERS1995	Method: less than 10 persons per group
PRENTICE1972	Outcomes: not relevant
PRINZ1994	Outcomes: not relevant
PRINZ2000	Method: not an intervention paper
RAUE1985	Method: less than 10 in each arm
REARDON1977	Outcomes: none relevant
REID2004	Outcomes: not relevant
REYNOLDS1997	Method: 4 participants in total in the study; no control group.
RICKEL1983	Data: not extractable
RIMM1974	Method: less than 10 participants in each arm.
ROBINSON2001	Intervention: not relevant
ROHDE2004A	Aim: focus on depression
SANDERS1985	Method: less than 10 persons per group
SANDERS2001	Method: not an intervention paper
SANDERS2004	Aim: focus on child maltreatment
SCHUHMANN1998	Method: dropout > 50% in waitlist
SCHULTZ1980	Outcomes: not relevant

SCHWITZGEBEL1964	Design: non-RCT
SHAW2006	Insufficient follow-up
SHECHTMAN2006	Outcome: modified validated outcome
SHECHTMAN2006A	Outcome: modified validated outcome
SHORE1977	Method: less than 10 participants in each arm.
SIEGERT1980	Comparisons: not relevant
SMITH2004	Method: non-RCT
SPOTH2007	Reseach question/outcome: study does not focus on the effectiveness of interventions for behaviour problems
STANTON2004	Insufficient follow-up
STERN1999	Method: less than 10 participants per group
STRAND2002	Outcome: not relevant
SUKHODOLSKY2005	Comparison: not relevant
TANNER1988	Data: not extractable
TEGLASI2001	n<10 per group
TEGLASI2001	Method: n<10 per group
TWEMLOW2003	Method: not an intervention paper
VANDEWIEL2007	
WILMSHURST2002	Comparisons: not relevant
WINSBERG1980	Setting's paper
WOLCHIK1993	Data: not extractable
ZANGWILL1983	Method: N<10
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Characteristics Table for The Clinical Question: What are the best interventions for adult offenders and/or individuals who have elevated levels of the ASPD construct?

Anger management vs control	Antidepressants vs placebo	Group based cognitive and behavioural intervention versus control	Group based cognitive and behavioural interventions
ANNOY2004	COCCARO1997A		ARMSTRONG2003
			AUSTIN1997
			FRIENDSHIP2003
			JOHNSON1995
			LIAU2004
			PORPORINO1995
			ROSS1988
			VAN VOORHIS2004

Methods	Participants	Outcomes	Interventions	Notes
ARMSTRONG2003				
Study Type: RCT Study Description: [Offender RCT juvenile reference list] Type of Analysis: Completers Blindness: Open Duration (days): Setting: US Institution (Prison) Notes: Details on randomisation not reported. Info on Screening Process: 129 randomized into the treatment arm and 127 into the control arm. In the treatment arm, 4 could not speak English, 4 refused treatment and 11 were released prior to transfer.In the control arm, 25 were exposed to treatment.	n= 212 Age: Mean 20 Range 15-22 Sex: all males Diagnosis: Exclusions: If the offender was not (a) between the ages of 15 and 22 (b) a resident of the jail and (c) if they could not speak English. Baseline: Significant group differences were found for the percentages of African Americans and Caucasians	Data Used Length of time until recidivism Number of recidivists (any time period) Notes: TIME PERIOD: from first release until the end of data collection. DROP OUTS: 15% (intervention); 20% (control); only report means for the 65/110 who received > 30 days of treatment.	 Group 1 N= 110 Moral reconation therapy - 3 sessions per week, approximately 1 to 1 1/2 hours duration. Delivered by correctional counselors and officers. Targeted at moral development, self-control and reducing association with delinquent peers. Group therapy. Group 2 N= 102 No treatment - Participants resided in the general population as opposed to the institutional facilities. 	21% (N=54) had four or more prior arrests. Of these, 43% (N=110) for violence, 48% (N=123) for a property offense and 32% (N=82) for a drug offense.
Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Poorly addressed 1.6 Not addressed 1.7 Adequately covered 1.8 15% (intervention); 20% (control) 1.9 Poorly addressed 1.10 Not applicable 2.1 +				
AUSTIN1997				

Study Type: RCT Blindness: Open Duration (days): Mean 140 Followup: 1-year Setting: US, San Francisco, San Jose, Oakland, Santa Rosa Community (Probation) Notes: Details on randomisation not reported. Info on Screening Process: Details not reported.	n= 135 Age: Mean 36 Sex: all males Diagnosis: 100% Offenders Exclusions: - Male offenders who were neither sentenced to proobation or released from prison with the mandatory condition tha they participate in drug treatment. Notes: Drug offenders; 41% for treatment and 44% for ontrol had offenses for drug-relaed crimes with robbery as the second most common offense. Participants were mandated for drug treatment through testing rather than specific drug related offenses. Baseline: No significance test reported; participants similar at pre-assessment.	Data Used Recidivism (12-months) Notes: TAKEN AT: recidivism data collected 1- year termination from both programs. RECIDIVISM: number of arrests.	 Group 1 N= 70 Reasoning and Rehabilitation - Bi-weekly session for 20 weeks. Delivered by probation. Group therapy. Group 2 N= 65 Drug treatment program - 3 phases each with a 4 month duration. Random urine tests. Weekly substance abuse counseling meetings. Individualized treatment plan. 	
Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Adequately addressed 1.6 Not addressed 1.7 Well covered 1.8 Not applicable 1.9 Adequately covered 1.10 Poorly addressed 2.1 +				
COCCARO1997A Study Type: RCT Type of Analysis: ITT Blindness: Double blind Duration (days): Mean 84 Setting: Outpatient Info on Screening Process: 64 entered 2-week, placebo lead-in phase; 40/64 (63%) met OAS- M criteria and were randomized.	 n= 40 Age: Mean 38 Sex: 28 males 12 females Diagnosis: 100% Personality disorder by DSM-IIIR 100% Impulsive aggressive by OAS-M 10% ASPD by DSM-IIIR Exclusions: - no DSM-III-R diagnosis of PD life history of mania, hypomania, schizophrenia, delusional disorder current major depression dependent on alcohol or other drugs did not score sufficiently high on at least 1 anger, 1 agression subscales of the self report Anger, Irritability and Aggression Questionnaire (AIAQ) scored < 15 on OAS-M and < 6 on OAS-M Irritability subscale score during 2-week single-blind, placebo lead-in phase 	Data Used OAS-Modified (observer rated) Notes: TAKEN AT: baseline and weekly. DROP OUTS: TREATMENT - 48%; PLACEBO - 31%.	 Group 1 N= 20 Fluoxetine - Initial dose of fluoxetine - 20mg/day up to first 4-weeks. Could be raised to 40 mg if score on OAS-M did not decrease by 25%. Maximum dose of 60 mg/day. Group 2 N= 20 Placebo 	
Results from this paper: 1.1 Well covered	Baseline. No significant unreferices at baseline.			
1.2 Not reported 1.3 Not addressed				

2.1 +

FRIENDSHIP2003				
Study Type: Non-Randomised Control Trial	n= 2557	Data Used	Group 1 N= 647	
Type of Analysis: Completers	Age:	Reconviction (2-years)	Cognitive skills - Sex Offender Treatment Programme (SOTP). Low risk - 263	
Blindness:	Sex: all males		(41%), medium-low risk - 225 (35%),	
Duration (days):	Diagnosis: 100% Offenders		medium-high risk - 109 (17%), high risk - 50 (7%). Group therapy.	
Setting: England and Wales Institution (Prison)	Exclusions: Treatment group		Group 2 N= 191 Matched control - Low risk - 969 (50%),	
Notes: Treatment and comparison groups matched on: year of discharge.	 male offenders who had not been sentenced to prison for at least 4 years for a sexual offence had not voluntarily participated in and completed STOP between 1992 and 1994 had not subsequently been discharged and spent at least two years in the community Comparison group 		medium-low risk - 655 (34%), medium- high risk - 229 (12%), high risk - 57 (4%).	
	- Male offenders not serving a prison sentence of 4 years or more for a sexual offence			
	Baseline: Treatment and comparison group were equal at baseline on risk as measured by Static-99.			
Results from this paper:				
 1.1 Adequately covered 1.2 Well covered 1.3 Not addressed 1.4 Not addressed 1.5 [Information could not be provided due 1.6 Not addressed 1.7 Adequately covered 1.8 Not addressed 1.9 Not addressed 1.10 Poorly addressed 1.11 Adequately covered 1.12 Not addressed 1.13 Adequately covered 1.14 No 2.1 + 	to reporting in official records]			
GOTTSCHALK1973			1	
Study Type: RCT	- n= 42	Data Used	Group 1 N= 24	
	Age: Mean 25	Hostility outward scale (from speech sample)	Diphenylhydantoin. Mean dose 300mg -	
Blindness: Double blind	Sex: all males	Notes: TAKEN AT: baseline and 1-,2-,3-,4-,5-,6-	(DPH) Daily by mouth for a 6-month	
Duration (days): Mean 180	Diagnosis:	months.	period.	
Setting: US, Maryland Institution (prison)	100% Offenders		Group 2 N= 18 Placebo - 24mg of DPH daily to avoid informing participants that a placebo was	
Notes: Details on randomisation not reported.	Exclusions: - inmates who had not reported violations of		given. Uniform in taste and appearance,	
Info on Screening Process: Details not	disciple rules in the previous 6-months		individually coded at a hospital pharmacy.	

			1	
provided.	breaking)			
	Baseline: Statistical test at baseline not conducted but			
	groups had similair hostility scores at baseline.			
Results from this paper:				
1.1 Adequately addressed				
1.2 Not reported				
1.3 Not addressed 1.4 Well covered				
1.5 Adequately addressed				
1.6 Not addressed				
1.7 Adequately addressed				
1.8 [None reported]				
1.9 Not addressed				
1.10 Not applicable				
2.1 +				
HOLLANDER2003				
Study Type: RCT	n= 233	Data Used	Group 1 N= 116	
Type of Analysis: not-ITT	Age: Mean 27 Range 19-67	OAS-Modified (observer rated)	Divalporex - Inititated at 500 mg/day,	
Blindness: Double blind	Sex: 169 males 64 females	Notes: TAKEN AT: baseline, weekly, telephone visits at weeks 5 and 7. DROP OUTS: total =	twice daily, increased by 250mg every 3-7 days during the first 3 weeks of treatment.	
Duration (days): Mean 84	Diagnosis:	5.3%	Group $2 \text{ N}=117$	
Duration (days). Mean 64	100% Impulsive aggressive by OAS-M		Placebo	
Setting:				
Outpatient (19 sites)	41% Personality disorder by DSM-IV			
	4% ASPD			
	Exclusions: - not 18-65 - no DSM-IV diagnosis of PD, intermittent explosive disorder			
	or PTSD			
	- does not have (on average) 2 physical/verbal aggressive			
	outbursts per week for last month - aggressive behaviour is premeditated or for tangible			
	objective			
	- < 15 on OAS-M aggressive subscale			
	- receiving psychotherapy but without a stable psychotherapy schedule for last 3-months			
	- bipolor disorder			
	 major depressive disorder history of schiophrenia/psychotic disorder 			
	- symptoms of dementia			
	- homicidal/suicidal			
	- impulsive aggression from head trauma or other medical condition			
	 pregnant or lactating females unstable medical conditions 			
	Notes: Baseline severity of OAS-M (Agression): TREATMENT - 43.7 (66.7); CONTROL - 33.7 (66.5)			
	Baseline: No significant differences between groups at baseline on the OAS-M Aggression score.			
Results from this paper:			I	
1.1 Adequately addressed				
1.2 Not reported				
1.3 Not addressed				
1.4 Not addressed				
1.5 Well covered 1.6 Well covered				
1.7 Well covered				
ntisocial personality disorder: CD Appendi				

1.8 Total = 5.6% 1.9 Not addressed				
1.10 Not addressed				
2.1 +				
JOHNSON1995				
Study Type: RCT	n= 134	Data Used	Group 1 N= 47	
Blindness: Open	Age:	Revocations/absconsions	Cognitive skills - Specialized Drug	
Duration (days):	Sex: all males	Notes: TAKEN AT: 8-months, average (includes intervention time i.e. since intake into program).	Offender Program = drug offenders probation program with max caseload of	
	Diagnosis:		50 + cogntiive model that followed R&R	
Followup: 4-months	Exclusions: - those not referred after intial drug screening for		(group therapy, 35 sessions x 2H). Group 2 N= 51	
Setting: Probation	ASI diagnsis whose Drug problem score was not 5+		Specialized drug offender program -	
			Specialized Drug Offender Program =	
			drug offenders probation program with max caseload of 50. No additional	
			training.	
			Group 3 N= 36	
			TAU - Regular probation services; caseload of 160.	
Results from this paper:				
1.1 Well covered				
1.2 Adequately covered				
1.3 Not addressed				
1.4 Not addressed 1.5 Adequately addressed				
1.6 Not addressed				
1.7 Adequately addressed				
1.8 [Not reported] 1.9 Not addressed				
1.10 Not applicable				
2.1 +				
LIAU2004				
Study Type: RCT	n= 316	Data Used	Group 1 N= 163	The community correctional
Study Description: [Offender search]	Age: Mean 30 Range 18-61	Recidivism (6-months)	Psychoeducational - EQUIP:	facility does not accept sexual offenders, arsonists
Type of Analysis: Completers	Sex: 224 males 92 females	Data Not Used Young Adult Self-Report Form - only 67/276	psychoeducational group therapy including sessions on thinking errors,	or any offender who has
Blindness: Open	Diagnosis:	collected at post-assessment	anger management + social skills.	committed a violent offense in the past 3 years; 48%
Duration (days): Mean 60	100% Offenders	Institutional misconduct - incident reports - do not report SD	Homework. 1 x 1H sessions/week (approx for 2-months).	drug offences, 33% propert
Followup: 6-months	Exclusions: None reported.	Notes: TAKEN AT: pre- and post-assessment	Group 2 N= 153	offences, 4% public offences and 2% family
Setting: US		and recidivism at 6-months post-release. DROP	Control - Received all programing	offences.
Halfway house	Baseline: There were no significant differences between	OUTS: 19/163 (12%, treatment); 132/153 (14%, control); recidivism data for 250/276 completers.	availanle at the facility except for the EQUIP psycheducational i.e. employment	
Notes: Details on randomisation not reported.	the treatment and comparison groups on any of the pretest measures.		services, substance-absuse education,	
Info on Screening Process: 43/359 (12%) referred clients declined participation resulting			academic skills development, case management and life skills education.	
in 316 offenders.			המוומצבווובות מוע וווב אוווה בעונכמוטוו.	
Results from this paper:				
1.1 Well covered				
1.2 Not reported 1.3 Not addressed				
1.4 Not addressed				

1.7 Adequately addressed 1.8 12% (treatment); 14% (control) 1.9 Not addressed 1.10 Not applicable

2.1 +

MATTES2005				
Study Type: RCT Study Description: * last observation carried forward for all participants who had baseline scores; 2 participants did not have baseline scores. Type of Analysis: *non-ITT Blindness: Double blind Duration (days): Mean 70	n= 45 Age: Mean 42 Sex: 36 males 9 females Diagnosis: 33% ADHD by DSM-IV 22% Intermittent Explosive Disorder by DSM-IV	Data Used OAS-Modified (observer rated) Notes: DROP OUTS: 24/ 48 completed study (14 TREATMENT; 10 PLACEBO); 45/48 completed 4-weeks of treatment (analysis on these particpants)	Group 1 N= 21 Oxcarbazepine - Initial dose = 150mg/day, increased by 150-300 mg/d after 2-4 days to at least 1200 mg/day (if tolerated) with a maximum of 2400 mg/day. Group 2 N= 24 Placebo	
Setting: Outpatient Notes: Details on randomisation procedure not reported Info on Screening Process: 376 - 214 decided not to participate, 94 did not meet inclusion criteria. 48 randomized; 45 had had an adequate trial.	Exclusions: - schizophrenia, bipolar, epilepsy, dementia, mental retardation, substance abuse (prior 6-months) - need for treatment with antipsychotics, anticonvusants or psychotropic medication - antidepressants other than anxiolytics, stimulants or hypnotics - significant risk of severely unjuring others/self - current psychiatric or neurological coniditions which required specific treatment unless adequately treatment and clinically stable unless current clinical symptom = impulsive agression Baseline: Differences between groups on verbal aggression at baseline where the placebo group scored higher.			
Results from this paper: 1.1 Adequately addressed 1.2 Not reported 1.3 Not addressed 1.4 Well covered 1.5 Poorly addressed 1.6 Poorly addressed 1.7 Well covered 1.8 TOTAL: 53.3% 1.9 Not addressed 1.10 Not applicable 2.1 +		- 		
MATTES2008				
Study Type: RCT Study Description: * last observation carried forward for all participants who had baseline scores; 2 participants did not have baseline scores. Type of Analysis: non-ITT* Blindness: Double blind Duration (days): Mean 70	n= 40 Age: Mean 45 Range 21-64 Sex: 35 males Diagnosis: 32% ADHD by DSM-IV 100% Impulsive aggressive	Data Used OAS-Modified (observer rated) Notes: DROP OUTS: 34/40 completed four- weeks of tiral; 19/40 completed full trial.	 Group 1 N= 20 Levetiracetam. Mean dose 1738mg - Initial dose: 250 mg/day, increased by 250 mg/day after 1-week to at least 1000 mg/day, with a maximum of 3000 mg/day by week 6. Group 2 N= 20 Placebo	
Setting: Outpatient Notes: Details on randomisation not reported. Info on Screening Process: Details not Antisocial personality disorder: CD Appendix	Exclusions: - no recurrent incidents of aggression - aggressiveness is not grossly out of proportion to the provocation or precipitating psychosocial stressors - aggressiveness is premeditated or for tangible objective - causes neither marked distress in the individual nor			Pac

provided. Results from this paper: 1.1 Poorly addressed 1.2 Not reported 1.3 Not addressed 1.4 Well covered 1.5 Well covered 1.6 Poorly addressed 1.7 Well covered 1.8 TOTAL: 47.5% 1.9 Not addressed 1.10 Not applicable 2.1 +	 impairment in occupational/interpersonal functionning aggressiveness is accounted for by another mental disorder, medical condition or direct physiologic effects of a substance not 18-65 women of childbearing potential who do not practice effective contraception lifetime history of schizophrenia, bipolr, epilepsy, demential, mental retardation, autism, substance abuse in priior 6-months need for treatment with antipsychotics, anticonvulsants, mood stabilizers or a revent change in psychotropic medication patients on antidepressants other than anxiolytics, stimulants or hypnotics current psychiatric or neurologic conditions that required specific treatment unless adequately treated and with clinically stable symptoms unless unstable symptom is impulsive aggression Notes: ASPD CONSTRUCT: impulsive aggression Baseline: No significant differences between groups on aggression ratings 			
NICKEL2005B				
	-	Data Used	Crown 1 N 33	Notfunded
Study Type: RCT	n= 42	Data Used State Trait Anger Expression Inventory (Self)	Group 1 N= 22	Not funded.
Type of Analysis: Completers	Age: Mean 29	Notes: TAKEN AT: baseline and weekly. DROP	Topiramate - Beginning - 50 mg/day; 6-th week - titrated to 250mg/day and then	
Blindness: Double blind	Sex: all males	OUTS: TREATMENT - 0; PLACEBO -2/24	stayed constant.	
Duration (days): Mean 54	Diagnosis: 100% Borderline Personality Disorder by DSM-IV	(8.3%).	Group 2 N= 22 Placebo - Identical capsules	
Setting: GERMANY Outpatient	100% Anger problems			
Notes: Randmoisation procedure not detailed	Furthering the the 40 s/s			
Info on Screening Process: Details not given	Exclusions: - less than 18 y/o - not perceived excessive burdens caused by their life situations that produced feelings of constatnly increasing anger - acute psychosis - severe major depression - bipolar - current use of topiramate or other psychotropic medication - participation in psychotherapy - somatically ill - suicidal - addictive illness Notes: ASPPD CONSTRUCT: anger Baseline: No significant differences			
	Baseline: No significant differences			
Results from this paper:				

1.2 Not reported
1.3 Not addressed
1.4 Well covered
1.5 Well covered
1.6 Poorly addressed
1.7 Adequately addressed
1.8 REATMENT - 0; PLACEBO -2/24 (8.3%)
1.9 Not addressed
1.10 Not addressed

2.1 +

PORPORINO1995						
Study Type: RCT	n= 757	Data Used	Group 1 N= 550			
Study Description: Those who could be tracked at follow-up; includes non-completers	Age: Mean 31 Sex:	Readmission to prison Notes: DROP OUTS: 446/757 completed treatment (19% dropout). FOLLOW-UP: 6-month	Reasoning and Rehabilitation - Up to 8 per group. Group 2 N= 207			
Type of Analysis: Completers* Blindness:	Diagnosis: 100% Offenders		Waitlist			
Duration (days):	Exclusions: - not randomised to treatment/WLC					
Followup: 6-months	- not released under community supervision of at least 6-					
Setting: Institution (Prison)	months had elapsed					
	Baseline: Significant difference such that more time passed for those cases actually assigned to treatment as compared to contol.					
ROSS1988						
Study Type: RCT	n= 62	Data Used	Group 1 N= 22			
Type of Analysis: Unclear	Age:	Recidivism Notes: TAKEN AT: 9-months (since admission to	Cognitive skills - R&R. Group therapy. 80			
Blindness: Open	Sex: all males	treatment i.e. during intervention) RECIDIVISM:	hours. Run by probation officers. Group 2 N= 17			
Duration (days):	Diagnosis:	that resulted in conviction.	Life Skills Training - 80H. Training in			
Followup: 5-months	100% Offenders		areas such as money management, leasire activities, family and criminal law,			
Setting: CANADA, Ontario Community (Probation)	Exclusions: - if probationers did not have a Level of Supervision Inventory (LSI) classification as a high-risk		employment-seeking skills, alcohol & drug education. Run by probation officers.			
Notes: Randomisation process not reported.	offender.		Group 3 N= 23			
Info on Screening Process: Details not repoted.	Notes: High-risk probationers		TAU - Regular probation services without extra interventions.			
	Baseline: Cognitive group had a slightly lower LSI score than other and a higher number of pervious convictions.					
Results from this paper: 1.1 Not addressed 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Adequately addressed 1.6 Not addressed 1.7 Well covered 1.8 [Details not provided] 1.9 Not addressed 1.10 Not addressed 2.1 +						
SHEARD1976						
	1					

Study Type: RCT	n= 66	Data Used	Group 1 N= 34	
Plindness: Double blind	Age: Mean 19	Minor iinstitutional infractions	Lithium - Goal to maintain 24-H serum	
Blindness: Double blind	Sex: all males	Major institutional infractions	lithium levels in the range: 0.6-1.0	
Duration (days): Mean 90	Diagnosis:	Notes: DROP OUTS: TOTAL = 16/80 (20%)	mEq/liter. 5 capsules/day with carrying doses.	
Setting: Institution (Prison)	100% Offenders		Group 2 N= 32	
Notes: Details on randomisation not reported.			Placebo	
	Exclusions: - not convicted for serious aggressive crime		1 100000	
Info on Screening Process: 159 referrals, 101 suitable, 80 remained in study long enough to	- no history of chronic assaultive behaviour and/or chronic			
receive medication, 14 dropped out; final	impulsive antisocial behaviour			
sample = 66.	- poor physical health with renal, cardiac or organic brain disease			
	- inability to comprehend the written material			
	- sentence insufficient to complete trial			
	- no termination of psychoactive medication			
	Notes: OFFENDERS AND ASPD CONSTRUCT: offending history is assaultive and antisocial in nature.			
	Baseline: Baseline statsitcs are not examined.			
Results from this paper:	· ·	·	· · ·	
1.1 Poorly addressed				
1.2 Not reported				
1.3 Not addressed				
1.4 Well covered				
1.5 Poorly addressed				
1.6 Not addressed				
1.7 Adequately addressed 1.8 TOTAL = 16/80 (20%)				
1.9 Not addressed				
1.10 Not applicable				
2.1 +				
2.1 + STANFORD2005				
	n= 29	Data Used	Group 1 N= 7	
STANFORD2005 Study Type: RCT		Data Used Overt Aggression Scale (OAS; observer-rated	-	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final	Age: Mean 33	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT)	
Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug.		Overt Aggression Scale (OAS; observer-rated	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers	Age: Mean 33 Sex: all males Diagnosis:	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg -	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers Blindness: Double blind*	Age: Mean 33 Sex: all males	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ)	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers	Age: Mean 33 Sex: all males Diagnosis: 100% Impulsive aggressive by BDHI	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ) Group 3 N= 7	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers Blindness: Double blind*	Age: Mean 33 Sex: all males Diagnosis:	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ) Group 3 N= 7 Valporate - (VPA)	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers Blindness: Double blind* Duration (days): Mean 42	Age: Mean 33 Sex: all males Diagnosis: 100% Impulsive aggressive by BDHI 59% ASPD	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ) Group 3 N= 7	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers Blindness: Double blind* Duration (days): Mean 42 Setting: US	Age: Mean 33 Sex: all males Diagnosis: 100% Impulsive aggressive by BDHI 59% ASPD Exclusions: - women - in the past 6-months, did not fail to resist aggressive	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ) Group 3 N= 7 Valporate - (VPA) Group 4 N= 8 Placebo - Dextrose. Adnministered in identical, unamrked capsules obtrained	
STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers Blindness: Double blind* Duration (days): Mean 42 Setting: US Notes: Randomly assigned using a random number table. Info on Screening Process: 43/183 met	Age: Mean 33 Sex: all males Diagnosis: 100% Impulsive aggressive by BDHI 59% ASPD Exclusions: - women - in the past 6-months, did not fail to resist aggressive impulses that resulted in serious assaultive acts or	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ) Group 3 N= 7 Valporate - (VPA) Group 4 N= 8 Placebo - Dextrose. Adnministered in	
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STANFORD2005 Study Type: RCT Study Description: *Blind was broken at final visit to discuss effectiveness of drug. Type of Analysis: Completers Blindness: Double blind* Duration (days): Mean 42 Setting: US Notes: Randomly assigned using a random number table. Info on Screening Process: 43/183 met inclusion criteria; 57 refused to participate; 29	Age: Mean 33 Sex: all males Diagnosis: 100% Impulsive aggressive by BDHI 59% ASPD Exclusions: - women - in the past 6-months, did not fail to resist aggressive impulses that resulted in serious assaultive acts or destruction of property - the degree of assaultiveness was not grossly out of proportion to an precipitating psychosocial stressors - 2 such episodes occurred during the month prior to	Overt Aggression Scale (OAS; observer-rated Notes: TAKEN AT: 2-,4-,6-weeks. DROP OUTS	Phenytoin. Mean dose 300mg - (PHT) Group 2 N= 7 Carbamazepine. Mean dose 450mg - (CBZ) Group 3 N= 7 Valporate - (VPA) Group 4 N= 8 Placebo - Dextrose. Adnministered in identical, unamrked capsules obtrained	
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Results from this paper:

1.1 Well covered
1.2 Adequately addressed
1.3 Not addressed
1.4 Adequately addressed
1.5 Well covered
1.6 Poorly addressed
1.7 Well covered
1.8 3/11 (27.3%) PLACEBO; 2/9 (22.2%) PHT; 2/9 (22.2%) CBZ; 2/9 (22.2%) VPA.
1.9 Not addressed
1.10 Not applicable

2.1 +

VAN VOORHIS2004				
Study Type: RCT Study Description: [Offender search] Type of Analysis: Completers and drop out Blindness: Open Duration (days): Mean 245 Followup: 9-month Setting: US, Georgia Community (Probation) Notes: Details on randomisation not reported. Info on Screening Process: Details not reported.	 n= 468 Age: Mean 30 Range 18-62 Sex: all males Diagnosis: Exclusions: -Parolees with IQ scores lower than 80 and with a history of sex offenses or severe substance abuse. Note: despite screening, 27 parolees (6%) had an IQ below 80 Baseline: There was no significant differences between the groups on level or risk of reoffending, number of prior incarcerations, prior felony convictions or prior violent offences. 	Data Used Technical violations at 9-months Technical violations at 6-months Technical violations at 3-months Re-arrest/revocation at 9-months after intervention. DROP OUTS: 60% completed R&R recidivism data on 100% of sample. Note: I only listed the outcomes that we have data for, need to contact authors as there is an error downloading their online report.	 Group 1 N= 232 Reasoning and Rehabilitation - R&R consists of 35 lessons that cover: problem solving, creative thinking, social skills, management of emotions, nogotiation skills, values enhancement and critical reasoning. Manual with detailed lesson plans. Group therapy. Group 2 N= 236 TAU - No further details on control group; regular probation services[*]. All participants could engage in other psychosocial programs in both groups; no significant differences in groups on additional program attendance. 	All participants had at least one prior felongy on record with: (a) at least one violent offense (51%) and (b) at least one prior prison sentence (46%). Classification of risk: 47 (10%) at high risk; 365 (78%) at medium risk; and 56 (12%) as low risk
Results from this paper: 1.1 Adequately covered 1.2 Not reported 1.3 Not addressed 1.4 Not addressed 1.5 Well covered 1.6 Well covered 1.7 Well covered 1.8 40% in treatment arm did not complete 1.9 Not addressed 1.10 Not applicable 2.1 +	treatment; data for 100% of sample			
VANNOY2004				
Study Type: RCT	n= 29	Data Used	Group 1 N= 15	No details on prior offenses
Study Description: [Offender search]	Age: Mean 35 Range 21-50	State Trait Anger Expression Inventory (Self) Notes: TAKEN AT: pre- and post-intervention.	Anger Control Training - 12 weekly group	reported.
Type of Analysis: Completers	Sex: all males	DROP OUTS: 5/15 (treatment arm) Report only	meetings, 1.5 hours per week. Completion of treatement was considered	
Blindness: Open	Diagnosis:	state-anger and trait anger; report the mean	as attending 9/12 sessions. Therapy	
Duration (days): Mean 84	100% Offenders	difference for pre- and post-test-scores and the standard deviation of means differences for each group (Table 1).	based on Buddhist principles. Group 2 N= 14	
Setting: US	Exclusions: None reported.	9.00p (1.0010 1).	Waitlist	
Institution (Prison)	Notes: Low security prison			

Results from this paper: Antisocial personality disorder: CD Appendix 15

Notes: Details on randomisation not reported.

Info on Screening Process: Details not reported.

Baseline: None reported.

1.2 Not reported			
1.3 Not addressed			
1.4 Not addressed			
1.5 Not addressed			
1.6 Not addressed			
1.7 Adequately addressed			
1.8 33% (treatment arm)			
1.9 Not addressed			
1.10 Not applicable			

2.1 +

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
ANDERSON2002	Design: non-RCT
BARKWELL1976	Intervention/comparisons: not relevant [matching vs not matching offender to probation officer]; Data: not extractable
BARO1999	Design: non-RCT
BARRATT1997	Data: does not report pre-crossover data
BELLUS1999	Design: non-RCT
BELLUS1999 BONTA2000	Design: non-RCT
BRICK1962	Outcomes: not relevant
BUCKLEY2007	Population: bipolar disorer
BURKE2003	Method: drop out $> 50\%$ in treatment group
BURNETTE2003	Design: no comparison group
BURNETTE2004	Design: no comparison group
BURNETTE2004A	Design: no comparison group
BURNETTE2005	Design: non-RCT
CAHILL2003	Population: Not elevated levels of anger
CANN2003	Design: non-RCT
CANN2006	Design: non-RCT
CHEREK2002	Design: not a clinical trial
COOPER2006	Intervention/comparison: not relevant
CORTONI2006	Design: non-RCT
CRAFT1987	Population: learning diability (<70)
DAVIS1976	Design: non-RCT
DEMARET1991	Method: looks at implementation but not the effects of implementation
DOWDEN1999	Data: no. of non-completers unclear so cannot do ITT analysis
FALSHAW2003	Design: non-RCT
FERGUSSON1993	Quality: no information on comparison group
FINN1998	Data: none reported
FLECK2001	Data: none on post-intervention
FOSTER1989	Population: frontal lobe dysfunction; Design: non-RCT
FRIENDSHIP2002	Design: non-RCT
FRIENDSHIP2003A	Population = sex offenders
GERRA2006	Design: non-RCT
HAGILIASSIS2005	Population: has significant physical impariment
HALL2004	Design: non-RCT

HARENKO1992	Population: Alzheimer's disease
HEDDERMAN1996	Design: non-RCT; Comparison: no attempt to match for risk
HENNING1996	Design: non-RCT
HOLLIN1986	Method: N is equal or less than 10 in group
HOLLIS2007	Comparison: no useable group
HOMANTB1976	Comparison: not relevant
HUGHEY1996	Data: not extractable
JOHNSON2001	Intervention: not relevant
KOWNACKI1995	Method: number of participants in intervention and/or control = 10 or
	less
LAMBIE2003	Population: not all offenders
LARSON1989	Method: N<10
LION1979	Data: none reproted
LITTLE1993	Design: non-RCT
MANN2004	Comparison: not untreated
MARQUES2005	Population: sex offenders
MARQUIS1996	Data: not reported for intervention/comparison
MARTIN1995A	Method: number of participants in intervention and/or control = 10 or less
MARTIN1995BC	Method: number of participants in intervention and/or control = 10 or less
MATTES1990	Data: reported for both randomised and non-randomised patients
MAYFIELD2008	Intervention: unclear; Population: unclear (may be SMI).
MONNELLY2003	Data: not extracatable
MONTGOMERY	Quality: no information on comparison group
MOTUIK1996	Method: number of participants in intervention and/or control = 10 or less
PALAMARA1986	Design: non-RCT
PELISSIER2001	Outcome: data reported as estimates and no details are given on how they were derived.
PHIPPS2003	Comparison: none
POLASCHEK2005	Data: non-RCT
PORPORINO1991	Design: non-RCT
PORPORINO2002	Design: non-RCT
PUGH1993	Outcomes: not relevant; Data: not extractable
RATEY1992	Population: includes schizophrenia
RAYNOR1995	Design: non-RCT
REIST2003	Design: non-RCT
ROHDE2004	Data: data not relevant
SCHLICHTER1981	Data: not relevant
SHEARD1971	Data: missing
SOHANPAL2007	Population: learning disability (<70)
SONG1994	Data: only estimated not observed
SORGI1992	Population: chronic psychotics; outcomes: not relevant
STANFORD2001	Data: does not report pre-crossover data
STERMAC1986	Data: not extractable
ocial personality disorder: CD	Appendix 15

TENNANT1998	Comparison group: none
VOLAVKA1990	Population: includes schizophrenia
WALTERS1999	Data: not extractable
WATT1998	Design: non-RCT
WHITE1985	Population: <18 y/o; learning disability ranging from moderate to predominant
WORMITH1984	Data: not extractable
ZARCONE2001	Population: mixed child and adult population; learning disabilitily (<70)
ZISOOK1978	Population: does not have elevated ASPD construct
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Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
POWELL1995				
Study Type: RCT Study Description: *DATA NOT EXTRACTABLE Type of Analysis: Completors Blindness: Double blind Duration (days): Mean 186 Setting: USA Inpatient (21 days) & outpatient Notes: Details of randomisation not reported Info on Screening Process: 216 were recruited but info only provided on the 99 completers	n= 99 Age: Mean 41 Sex: all males Diagnosis: 30% Alcoholics without other Axis I disorder or ASPD by DSM-IIIR 40% Alcoholics with axis I disorder without ASPD by DSM-IIIR 30% Alcoholics with ASPD with OR without axis I disord by DSM-IIIR Exclusions: -Presence of a medical condition contraindicting the use of tricyclic antidepressant drugs or bromocriptine. -Receiving other psychotropic medications. -Lived >150 miles from the medical centre. Notes: Participants were anaylsed according to their diagnosis. Sub-gp analysis for ASPD Baseline: No significant differences were found between medication groups on any of the demographic, alcohol, or psychiatric variables.	Data Used Problem Behaviour CL (from PDI-R) Symptom CL-90 (general severity index) Symptom CL-90 (anxiety) Symptom CL-90 (depression) Beck Anxiety Inventory Beck Depression Inventory Global Assessment Scale Severity of Alcohol Dependence Questionnaire Clinical Rating of Drinking Patient Rating of Drinking Alcohol Severity Scale Notes: TAKEN AT: Posttreatment & follow-up (6 months). At wks 2, 4, 6 and months 2, 3, 4 & 5 foollow vists took place where: blood samples, pill counts, medication side effects, & other medical info obtained. DROP OUTS: 54% of original sample of 216.	 Group 1 N= 34 Bromocriptine (dopamine receptor agonist) - The first 21 days were inpatients, hospitalisation: educational & remotivational treatment program. The rest of the treatment was outpatients. 2.5mg x 3 p/day. Dosage increased to 5mg from months 4-6. Group 2 N= 34 Nortriptyline (tricylic antidepressant) - The first 21 days were inpatients, hospitalisation: educational & remotivational treatment program. Then outpatients. 25-75mg at bedtime. Blood levels obatined monthly: dosages were adjusted to therapeutic levels (50-150mg/ml plasma). Group 3 N= 31 Placebo 	Funding: supported by a grant from the National Institute of Alcohol Abuse and Alcoholism.
Results from this paper: 1.1 Well covered 1.2 Not reported 1.3 Not reported 1.4 Well covered 1.5 Well covered 1.6 Adequately addressed 1.7 Well covered 1.8 54% of original sample of 216 1.9 Poorly addressed 1.10 Not applicable 2.1 + Secondary Reference: Penick et al. (1996)	reanalysed the data to explore why the ASPD gp's drinki	ng outcomes improved when medicated with		

References of Included Studies

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Powell, B. J., Campbell, J. L., Landon, J. F., Liskow, B. I., Thomas, M., Nickel, E. J., Dale, T. M., Penick, E. C., Samuelson, S. D., & Lacoursiere, R. B. (1995). A double-blind, placebo-controlled study of nortriptyline and bromocriptine in male alcoholics subtyped by comorbid psychiatric disorders. Alcoholism: Clinical and Experimental Research, 19, 462-468.

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Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
POWELL1995				
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References of Included Studies

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Comparisons Included in this Clinical Question

TC versus control
NIELSEN1996
SACKS2004

WEXLER2004

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
NIELSEN1996				
Study Type: RCT	n= 689	Data Used	Group 1 N= 248	
Type of Analysis: Did not included LTF	Age:	incarceration	Therapeutic Communities - CREST 1	
Blindness: Open	Sex: 544 males 144 females		month orientation; 2 months treatment (individual and group counselling); 3	
Duration (days): Mean 180	Diagnosis:		months work release. Continual group	
Followup: 12 months	92% Substance Abuse		meetings.	
Setting: US	Fuck sizes, and is given as slights for extense		Group 2 N= 441 Control - Standard care with outpatient	
Institution (Prison)	Exclusions: - not in prison or eligible for release - no history of drug use		conventional work release programme	
Results from this paper:				
Study Quality: +				
SACKS2004	_			
Study Type: RCT	n= 139	Data Used incarceration	Group 1 N= 92	
Type of Analysis: ITT	Age: Mean 34		Therapeutic Communities - psycho- education, cognitive behavioural,	
Blindness: No mention	Sex:		medication. 12-months, 5 days per week,	
Duration (days):	Diagnosis:		4-5 hours per day. Plus aftercare: 3-7 days per week, 305 hours per day over 6-	
Setting: US	100% Substance Abuse by DSM-IIIR		months. Bi-weekly supervision.	
Institution (Prison)	37% ASPD		Group 2 N= 93	
Notes: Details on randomisation not reported.			Control - Standard care: medication,	
Info on Screening Process: 236 male inmates	Exclusions: - Not an inamte with a dual diagnosis		indiviudal therapy and counselling, substance misuse services.	
randomily assigned to modified TC or mental helath treatment; 51 crossover cases excluded	- Inmates who presented a clear danger to themselves or others			
from analusis.	Notes: non-alcohol substance misuse			
Results from this paper:				
Study Quality: +				
WEXLER2004				
Study Type: RCT	n= 715	Data Used	Group 1 N= 425	
Type of Analysis: ITT	Age: Mean 31 Range 30-31	Incarceration, any (12-months)	Therapeutic Communities - 3-phases: 1.	
	Sex: all males		orientation, planning, treatment goals; 2.	
Blindness: No mention Duration (days):	Diagnosis:		counselling; 3. strengthening plan for return to community. Plus after-care +	
	95% Substance Abuse by DSM-IIIR		provided services for wives and children.	
Followup: 12 months			Group 2 N= 290	
Setting: US Institution (Prison)	52% ASPD by DSM-IIIR		Control - Waitlist	
	Exclusions: Inmates convicted of arson or sexual crimes			
Info on Screening Process: 715 male inmate volunteers	involving minors			
Anticogial personality disorders CD Appendix			1	Pag

Results from	this	paper:
Study Quality	/· +	

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
GRANT2003	Design: non-RCT
LAMB1974	Design: non-RCT (participants given choice after randomisation)
MARCUS2001	Design: non-RCT; comparison: not relevant
MARSHALL1997	Design: non-RCT
MARTIN1999	Design: non-RCT
ORTMAN2000	Design: non-RCT
RICE1992	Design: non-RCT; Participants: includes schizophrenia

(Unpublished and Published Data)

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