

**Table 4.5** Externalizing symptoms, universal programs.

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Connell et al 2007 [10]  USA	<p><u>Design</u> RCT, randomised at individual level</p> <p><u>Setting</u> Three middle schools in an ethnically diverse metropolitan district in the USA</p> <p><u>Population</u> Sixth graders 90% consented n=998 (526 boys)</p> <p><u>Follow-up time</u> Annually through age 18 (&gt;6 years)</p>	<p><u>Intervention</u> ATP multi level program, universal part (also see table 4.7 for description of the indicated part of the program), n=500</p> <p><u>Intensity</u> Six in-class lessons on life skills</p> <p><u>Drop out rate</u> 20% by 6 years follow-up</p>	<p><u>Control</u> no intervention (no information on controls, eg contagion), n=498</p> <p><u>Drop out rate</u> 20% by 6 years follow-up</p>	<p><u>Self report on substance use and antisocial behaviour</u> No effect at any of the annual measurements</p> <p><u>Arrest records</u> No effect during the follow-up period</p>	<p>Moderate</p> <p>Entire sample included in analysis (Complier Average Causal Effect, CACE)</p>	<p><u>Competence of staff</u> Professionals from the Family Resource Center, established in the participating schools</p> <p><u>Fidelity</u> Satisfactory</p> <p><u>Attendance rate</u> Not reported</p> <p><u>Gender analysis</u> No gender effect on universal level</p>

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Grossman et al 1997 [4] USA	<p><u>Design</u> RCT. Pairs matched for district, reduced lunch cost and proportion minority students</p> <p><u>Setting</u> 2 second and 2 third grade classrooms each from 12 elementary schools (total 49 classrooms) in 4 districts in State of Washington</p> <p><u>Population</u> n=1 100 n=790 had parental consent (54% boys, 80% Caucasian) Mean age: 8.2 years All children participated in the curriculum</p> <p><u>Follow-up time</u> 2 weeks and 6 months post intervention</p>	<p><u>Intervention</u> Second Step: A Violence Prevention Curriculum, n=314</p> <p><u>Intensity</u> 30 lessons, 35 minutes once or twice a week. Empathy training, impulse control, anger management. Discussion, role plays, conceptual activities</p> <p><u>Drop out rate</u> 8%</p>	<p><u>Control</u> No intervention, n=372</p> <p><u>Drop out rate</u> 21%</p>	<p><u>TRF Aggression and delinquency subscale</u> No significant differences between groups</p> <p><u>CBCL Aggression and delinquency scales</u> No significant differences between groups</p>	Moderate	<p><u>Competence of staff</u> Teacher training 2 days</p> <p><u>Fidelity</u> Twice during the intervention period, two investigators monitored and rated the quality of the implementation</p> <p><u>Attendance rate</u> Not reported</p> <p><u>Gender analysis</u> No gender analysis</p>

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lalongo et al 1999 [6]	<u>Design</u> RCT, randomised at classroom level, teachers at 5 year follow-up were blind to condition	<u>Intervention</u> Three terms Baltimore Project	<u>Control</u> Standard curriculum, n=not reported	At one year follow-up (second grade):	Moderate	<u>Competence of staff</u> Parent training: teachers and social workers/psychologists. Teachers underwent 60 hours training and were certified
lalongo et al 2001 [5]  USA	<u>Setting</u> 9 schools (27 classrooms) from five large urban areas in Baltimore. SES varied from very poor to moderate  <u>Population</u> n=653 first grade students (51% male, 87% African-American, >60% entitled to free lunch) Mean age: 6.2 years  <u>Follow-up time</u> 1 year and 5 year	<u>I1: Classroom</u> intervention comprising GBG and learning support, n=not reported  <u>I2: FSP training for</u> teachers and parents in communication skills with weekly home-school lear- ning and communi- cation activities  <u>9 workshops for</u> parents: Parental parenting practices  <u>Drop out rate</u> (both groups) At 1 year follow-up: 11.5% At 5 years follow-up: 22%		<u>Teacher rating (TOCA-R)</u> (Factors concentration, accepting authority, social participation) <u>I1 vs C</u> Boys: ES 0.54 Girls: ES 0.73 Greater benefit for children with moderate problems at baseline  <u>I2 vs C</u> Boys: ES 0.22 Girls: ES 0.34 For boys, benefit was larger for those with mild-moderate problems at baseline  <u>Parent rating (POCA-R)</u> No significant effects  At 5 year follow-up (sixth grade)  <u>Teacher rating (TRCB CF)</u> I1 vs C: ES 0.39 I2 vs C: ES 0.29 No gender effects  <u>Lifetime diagnosis</u> <u>of conduct disorder (DISC-IV)</u> Trend for lower probability of lifetime diagnosis for both groups compared to C		<u>Program integrity</u> Three-day seminars for teachers and videotape training. Monitoring of fidelity implementation  <u>Program attendance</u> Parents attended on average 4.02 of the seven parenting sessions, 13% failed to attend any of the workshops.  <u>Gender analysis</u> Separate analysis boys/girls

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Sawyer et al 1997 [3]  Australia	<p><u>Design</u> CCT, schools matched for SES, not ITT</p> <p><u>Setting</u> 2 primary schools 94% of mothers were married Evenly distributed SES from low to high/middle occupational class</p> <p><u>Population</u> Mean age: 8.2 years</p> <p><u>Follow-up time</u> Post intervention + 1 year post intervention</p>	<p><u>Intervention</u> Rochester Social Problem Solving Training Program, n=102 (60% boys)</p> <p><u>Intensity</u> Program taught to all children during regular school hours over a 20-week period, 34 lessons</p> <p><u>Drop out rate</u> 30%</p>	<p><u>Control</u> Standard curriculum, n=86 (54% boys)</p> <p><u>Drop out rate</u> 29%</p>	<p><u>Inventory of Problematic Social Situations for Children (IPSIC), CBCL and TRF</u> No significant differences between groups</p>	Moderate	<p><u>Competence of staff</u> Teachers trained in the program</p> <p><u>Program integrity</u> Fidelity was ensured by regular meetings with investigators. Teachers were observed three randomly selected occasions</p>

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Vuijk et al 2007 [9]	RCT  <u>Setting</u> 13 elementary schools in Rotterdam and Amsterdam	<u>Intervention</u> GBG, n=371	<u>Control</u> No intervention, n=295	<u>YSR at 1 year follow-up</u> <u>Total sample</u> Anxious/depressed: Cohen's d=0.20	Moderate  No information on randomisation pro- cedure, no blinding, completer analysis	<u>Competence of staff</u> Teachers, who received three afternoons of training
van Lier et al 2005 [8]		<u>Intensity</u> Two years, three times weekly	<u>Drop out rate</u> Not reported separately	No effect on YSR aggressive behavior	Drop out was related to higher levels of antisocial behaviour	<u>Fidelity</u> Teachers were coached by advisors 10 hours annually. The program was modified to suit Dutch culture
The Netherlands	<u>Population</u> 90% of eligible children in first class n=666 consented (51% boys) Mean age: 6.9 years 69% Caucasians 36% from low SES families (representative of Dutch population)  10% constituted a high risk group (92% males)  <u>Follow-up</u> 1 year and 4 years after end of intervention	<u>Drop out rate</u> 25% for the full sample after 1 year  34% for the full sample after 4 years		<u>High risk group</u> Aggressive: Cohen's d=0.68  <u>Antisocial behaviour</u> <u>at 1 year follow-up</u> <u>High risk group</u> Cohen's d=1.2  <u>Moderate and low risk groups</u> No effect of intervention	Loss to follow-up related to ethnicity and low SES	<u>Attendance rate</u> Part of regular curriculum  <u>Gender analysis</u> Yes, effects not dependent on gender for YSR. Not per- formed on antisocial behaviour since virtually, all were boys

ATP = Adolescent Transition Program; CBCL = Child Behaviour Check List; C = Control; DISC-IV = Diagnostic Interview Schedule for Children; ES = Effect size; FSP = Family-school-partnership; GBG = Good Behavior Game; n = Number of patients; I = Intervention; ITT = Intention-to-treat; RCT = Randomised controlled trial; SES = Socio economic status; TOCA-R = Teacher Observation of Classroom Adaptation-revised; TRCB CF = Teacher Rating of Conduct Problems Checklist form; TRF = Teacher Report Form; YSR = Youth Self Report

**Table 4.6** Effects of selective programs to prevent mental problems in children.

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Bodenmann et al 2008 [26] Switzerland	<u>Design</u> RCT  <u>Setting</u> Switzerland Recruitment via advertisements in newspapers  <u>Population</u> n=150 families with children aged 2–12 years (mean 6.6 years, SD=2.83)  Family income: 78% of families had between 40 000 and 80 000 USD  Educational level: ≥50% of mothers had high school or university exam. Marital quality lower in the CCET-group  <u>Follow-up</u> One year	<u>Intervention</u> Triple P, level 4 group version n=50 couples  Baseline ECBI (mothers): 117.9 (23.4)  <u>Intensity</u> 15 hours (12 hours workshop, 2 hours telephone contact, 1 hour autodidactic reading)  <u>Drop out rate</u> (mothers) 4%	<u>Control</u> C1: CCET, marital distress preven- tion program, one weekend work- shop and home- work n=50 couples  Baseline ECBI (mothers): 123.8 (23.8)  C2: No intervention, n=50 couples  Baseline ECBI (mothers): 118.4 (25.4)  <u>Drop out rate</u> (mothers) C1: 8% C2: 20%	<u>ECBI (mothers)</u> <u>at 1 year follow-up</u> Triple P: 99.9 (28.0) No intervention: 112.4 (28.3) p<0.05  CCET: 107.5 (25.9)  Cohen's d: 0.41 for comparison Triple P and no intervention  0.28 for comparison Triple P and CCET	Moderate	<u>Competence of staff</u> Accredited practitioners for both Triple P and CCET  <u>Attendance rate</u> Not reported  <u>Fidelity</u> Regular supervision and session checklists  <u>Gender analysis</u> Gender analysis was performed on the parents: Fathers did not see any difference in child behaviour and their parental practice hardly changed

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Brotman et al 2008 [24]	<u>Design</u> RCT, blinded observers, ITT	<u>Intervention</u> Incredible Years adapted to limited parental education, parental depression, stressful life events and social adversity	<u>Intervention</u> None n=45	<u>Blinded home observation</u> <u>DPICS-R</u> <u>C-group:</u> 0 months: 0.19 6 months: 0.87 16 months: 0.78 24 months: 1.15	Moderate  Remarkable pattern for observation data despite blinded obser- vers	<u>Competence of staff</u> Psychologists or doctoral candidates, most of them trained by the program developers
Brotman et al 2005 [23]	<u>Setting</u> Families with youth in Family Court n=1 228 families (577 contacted)	n=47	<u>Drop out rate</u> For total sample (see Intervention)	<u>I-group:</u> 0 months: 0.77 6 months: 0.66 16 months: 0.17 24 months: 0.16		<u>Attendance rate</u> Mean: 12 of 22 (55%)
USA	<u>Population</u> Child: Sibling of criminal offender in designated area (53% girls, mean IQ=83) Age: 33–63 months  Family characteristics: 65% Afro American and 27% Hispanic. 55% had high school education. English speaking. High maternal psychopathology  <u>Exclusion criteria</u> Caregivers with ongoing substance abuse or psychotic disorders. Child with pervasive developmental disorder or severe mental retardation  <u>Follow-up</u> 8, 16 and 24 months after baseline measurement	<u>Intensity</u> 6–8 months comprising: Parent training: 22 sessions. Child training: 22 sessions Home visits: 10  Booster sessions, 15 hours, 4 to 6 months after the end of the intervention  <u>Drop out rate for total sample (C+I)</u> 13% at 8 months 23% at 16 and 24 months	SE 0.89  <u>Parental report</u> <u>NYPR-P</u> <u>IC-group:</u> 0 months: 0.17 6 months: 0.15 16 months: 0.14 24 months: 0.07  <u>I-group:</u> 0 months: 0.21 6 months: 0.21 16 months: 0.15 24 months: 0.11  ns		<u>Fidelity</u> Standardised manuals and materials, comprehensive training, weekly monitoring and supervision of implemen- tation. But, the components of this modified program were poorly described and the deviation from the manual is not reported  Some economic compen- sation for participation in group sessions  <u>Gender analysis</u> No gender analysis  No analysis of sociodemo- graphic differences between I and C groups	

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DeGarmo et al 2004 [95] USA	<u>Design</u> RCT (unbalanced 64%/36%)  <u>Setting</u> Medium sized city in Pacific North West, USA. Original sample For- gatch et al 1999 [96] <u>Inclusion criteria</u> Mother separated within prior to 3–24 months, resided with biological son in grades 1–3  <u>Exclusion criteria</u> Not cohabit with new partner  <u>Follow-up time</u> 6, 12, 18 and 30 months	<u>Intervention</u> PMT applied on divorced single mothers  <u>Population</u> n=153  <u>Intensity</u> Original version included 14–16 weekly topics, but two were combined with others (30% were exposed to 16-weeks version and 69% to 14-weeks version)  <u>Drop out rate</u> 13% at 30 months	<u>Control</u> No intervention  <u>Population</u> n=85  <u>Drop out rate</u> 11% at 30 months	<u>Externalising construct</u> (based on CBCL-TRF, noncom- pliance computed from IPC- codes & aggression partly from IPC-codes) SMD at 12 months –0.20 (95% CI –0.49 to 0.09)  SMD at 18 months –0.13 (95% CI –0.42 to 0.16)  SMD at 30 months –0.23 (95% CI –0.51 to 0.05)	Moderate	<u>Competence of staff</u> Trained leaders at the Oregon Social Learning Center  <u>Fidelity</u> Standard materials, close monitoring and recurrent ratings by group leaders and co-leaders indicated adequate intervention integrity  <u>Attendance rate</u> Mean=8.5 sessions, SD=5.7  <u>Gender analysis</u> Not reported
DeGarmo et al 2005 [29]						

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Gross et al 2009 [22] USA	<p><u>Design</u> RCT, cluster randomised at day care center level. Matched on size, ethnical composition, percent single-parent-households and median income, ITT analysis</p> <p><u>Setting</u> Seven day care centers in Chicago with &gt;60 children &gt;90% of families eligible for child care subsidies</p> <p><u>Population</u> 34% of the eligible population accepted to participate</p> <p><u>Inclusion criteria</u> Child age 2–4 years. Only one child per parent. English speaking</p> <p><u>Follow-up time</u> "Post test", 6 months and 1 year post intervention</p>	<p><u>Intervention</u> CPP, ie Incredible Years modified to be relevant across racial/ethnic groups, n=156</p> <p><u>Intensity</u> 11 weekly sessions with parents</p> <p><u>Drop out rate</u> n=13%</p>	<p><u>Control</u> No intervention, n=136</p> <p><u>Drop out rate</u> 13%</p>	<p><u>Parent report (ECBI)</u> No intervention effects when doses were not taken into account</p> <p>Scores on ECBI intensity scale but not on ECBI problem scale (p&lt;0.05) were dependent on dose. Significant effects were seen at 6 months and maintained at 12 months for the group where parents attended &gt;5 sessions</p> <p><u>Aversive child behaviour during play (DPICS)</u> Significantly fewer aversive behaviours at 6 months and maintained at 12 months</p> <p>Effects were larger for the group where parents attended &gt;5 sessions</p>	<p>Moderate</p> <p>Inter rater reliability for child observation was 0.73</p> <p>Results for the high dose group may have been the results from regression to the mean</p>	<p><u>Competence of staff</u> Graduate degree and trained by the study investigators</p> <p><u>Fidelity</u> Weekly protocol check lists and random observations of parent groups by the investigators</p> <p><u>Attendance rate</u> Mean: 4.3 sessions (SD=4.2) 1/3 of parents did not attend any sessions. 45.2% attended &gt;5 sessions ("high dose")</p> <p>Children in the high dose group had more baseline behaviour problems scores than children in the low dose group</p> <p><u>Gender analysis</u> Not reported</p>

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Gross et al 2003 [21] USA	<p><u>Design</u> Effectiveness study. Cluster randomised, matched by ethnicity, size, income, single parenthood. Randomisation not described in detail</p> <p><u>Setting</u> Day care centers in a socially disadvantaged area in Chicago. 97% minority population. &gt;90% of children had subsidized day care</p> <p><u>Population</u> Age: 2–3 years</p> <p><u>Follow-up time</u> "Post test", 6 and 12 months later</p>	<p><u>Intervention</u> Incredible Years (BASIC) I1: Parent and teacher training, n=78 I2: Parent training, n=55 I3: Teacher training, n=75</p> <p><u>Intensity</u> 12 weekly sessions with parents</p> <p><u>Drop out rate</u> 30% of parents in I1 and 9% in I2. 31% of teachers dropped out over all</p>	<p><u>Control</u> No intervention, n=59</p> <p><u>Drop out rate</u> 9% of parents</p>	<p><u>Parental report (ECBI)</u> No difference between groups</p> <p><u>Teacher reported classroom behaviors (KPC, proportion that moved from high risk to low risk status)</u> <u>From baseline to "post test":</u> Parent training: 44% Teacher training: 100% (based on two children) Control: 18%</p> <p><u>From "post test" to 1 year follow-up</u> Parent training: 66.7% Teacher training: 66.7% Control: 78.6% p&lt;0.01</p> <p>Note: none in the combined group improved whereas 14.3% got worse (p&lt;0.05)</p> <p><u>DPICS-R (blinded observer, free play situation)</u> No significant effects</p>	<p>Moderate</p> <p>Child classroom behaviour problem scores (KPC) were skewed. Therefore a cut off of 40 was used to create a high risk and a low risk group</p>	<p><u>Competence of staff</u> Teachers. Note: 67% of teachers in the combined group were replaced but they were not trained</p> <p><u>Fidelity</u> One day workshop and ongoing supervision including weekly protocol</p> <p><u>Attendance rate</u> Not reported</p> <p><u>Gender analysis</u> Not reported</p> <p>Selective dropout of parents with less coercive and harsh parenting strategies in parent groups</p>

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Heinrichs et al 2006 [27]  Germany	<p><u>Design</u> RCT, cluster randomised, matched for SES and number of children in the day care centers</p> <p><u>Setting</u> Recruitment at 17 public day care centers in Braunschweig</p> <p>Recruitment rate: 31%</p> <p><u>Population</u> n=280 but only 219 families with two parents were evaluated (53.9% boys) Mean age of child: 4,5 years (SD=0.98)</p> <p>Sample of middle and upper SES (38% of families earned &gt;3 000 euro/month)</p> <p><u>Exclusion criteria</u> Siblings to the child</p> <p><u>Follow-up time</u> One year</p>	<p><u>Intervention</u> Triple P, level 4, n=129</p> <p><u>Intensity</u> Four sessions, opportunity for telephone contacts in between (15–20 minutes)</p> <p><u>Drop out rate</u> Not explicitly stated but results were based on 128 mothers</p>	<p><u>Control</u> No intervention, n=90</p> <p><u>Drop out rate</u> Not explicitly stated but results were based on 88 mothers</p>	<p><u>CBCL 1 1/2–5 (German translation)</u> <u>Internalizing problems (mother)</u> Cohen's d: 0.28</p> <p><u>Externalizing problems (mother)</u> Cohen's d: 0.32</p> <p>No changes in paternal assessments vs baseline</p>	Moderate	<p><u>Competence of staff</u> Licensed trainers</p> <p><u>Fidelity</u> The fidelity to the manual was &gt;90% at all group sessions</p> <p><u>Attendance rate</u> High for mothers. 88.4% of the mothers and 6.3% of the fathers participated in at least three workshops</p> <p>68.8% of the fathers did not attend any of the sessions</p> <p><u>Gender analysis</u> Not reported</p>

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Kratochwill et al 2004 [38]	<u>Design</u> Matched pairs randomly assigned to I or C group, blinded teachers and observers	<u>Intervention</u> FAST [99], n=50	<u>Control</u> Curriculum as usual, n=50	<u>Parent rating (CBCL)</u> Intervention group less withdrawn, effect size 1.92	Moderate	<u>Competence of staff</u> Certified FAST trainers
Fisher et al 2003 [98]	<u>Setting</u> Early elementary schools in 3 American Indian nations, rural Northern Wisconsin	<u>Intensity</u> 8–10 week curriculum, 40% mandatory content and 60% modified to suit group and context, each session lasting 2.5 hours	<u>Drop out rate</u> See intervention group	<u>Teacher rating (TR)</u> ns tendency favoring intervention group	Moderate relevance as culturally adapted manual based program	<u>Attendance rate</u> 50–100% for each cycle (attendance unrelated to outcome)
USA	<u>Population</u> Children at risk for school problems and future drug abuse in families of American Indian descent	Following graduation families participate in support meetings for two years, with gradually decreasing staff assistance				<u>Fidelity</u> Training and supervision part of program, certified observers attended 3/8 sessions in each group
	<u>Follow-up</u> 9–12 months	<u>Drop out rate</u> 20% total for inter- vention and control				<u>Gender analysis</u> Not reported

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Reid et al 1999 [35]	<u>Design</u> RCT, randomisation at school level. Blinded observers	<u>Intervention</u> LIFT, 3-months program, n=382 students in six schools	<u>Control</u> n=289 in 6 schools  <u>Drop out rate</u> See intervention	<u>Observer rating of physical aggression, IPC</u> Immediate effect size 0.36 for students scoring +1 SD at pretest; effect size 0.57 for students scoring +2 SD at pretest. Measurement not used at 3 years follow-up	Moderate  Inconsistencies in reports	<u>Competence of staff</u> LIFT instructors were members of research center staff. (However, program intended to be taught by regular school personnel or trained and experienced laypersons.)
Eddy et al 2000 [34]	<u>Setting</u> Public elementary schools in the Eugene-Springfield area (population: 200 000, Oregon, USA)	<u>Intensity</u> Classroom skills training, 2 one hour sessions weekly for 10 weeks.				
Stoolmiller et al 2000 [36]	<u>Population</u> 12 schools, 32 classrooms with first and fifth graders, 671 students consented (88% of eligible student), 51% female	Playground imple- mentation of GBG, individual and class rewards. Parent group meetings for 6 weeks. Family involvement stressed		<u>Teacher rating of social competence and school adjust- ment at 1 year follow-up (Walker-McConnell Scale)</u> Effect size 0.17		<u>Attendance rate</u> 58% average attendance on any given parent session. 23% received information in the mail. 13% accepted a home visit. 5% refused participation
Eddy et al 2003 [37]	<u>Inclusion criteria</u> Schools in catchment areas with increased risk for youth delinquency, defined as above median (ie >9%) juvenile detain- ment. (After refusals one school just below the median was also included)	<u>Drop out rate</u> <10% and mostly due to family mobility		At 3 years follow-up: Fifth grade cohort 1.49 x more likely to patterned alcohol use; 1.55 x more likely to have been arrested; first graders claimed to show fewer symptoms of impulsivity, inattention and hyperactivity, compared to controls, but data is not clearly presented		<u>Fidelity</u> Assessment by routine check- lists + independent observers in 15% of school sessions and group meetings; 90% of inten- ded content was covered  <u>Gender analysis</u> Not reported  Effects on IPC interacted with pre-intervention scores
USA	<u>Follow-up time</u> Approximately 1 year and 3 years post intervention					

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Rotheram-Borus et al 2004 [41] USA	<p><u>Design</u> RCT, randomisation by computer, ITT</p> <p><u>Setting</u> New York City, Division of AIDS Services, mostly Latino and African American families</p> <p><u>Population</u> n=429 parents with AIDS and their adolescents. The final sample included 317 adolescents (loss due to informed consent and parental deaths)</p> <p><u>Inclusion criteria</u> Financially needy persons with AIDS Age of parents: 25–70 years Age of child: 11–18 years</p> <p><u>Exclusion criteria</u> Parent institutionalized at recruitment</p> <p><u>Follow-up time</u> 1, 2 and 4 years post intervention (see Table 4.8 for long term follow-up at 6 years post intervention)</p>	<p><u>Intervention</u> Coping skill intervention, based on social learning and behavioural principles, n=156 adolescents (126 parents)</p> <p><u>Intensity</u> Module 1: 8 sessions &gt;4 weeks for parents only. Module 2: 16 sessions &gt;8 weeks for parents + adolescents. Module 3: Delivered to adolescents only if the parent had died</p> <p><u>Retention of adolescents at 1, 2, 3 and 4 years follow-up</u> 86, 95, 92 and 90%, respectively</p>	<p><u>Control</u> Standard care, within the same agency, n=161 adolescents</p> <p><u>Retention of adolescents at 1, 2, 3 and 4 years follow-up</u> 82, 94, 92 and 91%, respectively</p>	<p><u>Brief Symptom Inventory</u> 15 months: SMD –0.20 (95% CI 0.03 to –0.43)</p> <p>24, 36, 48 months: ns but positive trend</p>	<p>Moderate</p> <p>Some inconsistencies in number of participants and attrition between publications</p> <p>Standard care also positive trend; controlled for together with baseline level</p>	<p><u>Competence of staff</u> Social workers and graduate students in clinical psychology, who attended a 5-day training and received ongoing supervision</p> <p><u>Fidelity</u> Sessions videotaped, fidelity rated and monitored by supervisor</p> <p><u>Attendance rate</u> 75% of parents that lived at completion of study attended in average 15.2 of 24 sessions (range 1–24) 71% of their children attended in average 10.3 of 16 sessions (range 2–16)</p> <p><u>Gender analysis</u> Not reported</p>

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Table 4.6 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Sandler et al 2003 [33] USA	<p>RCT</p> <p><u>Setting</u> Phoenix metropolitan area</p> <p><u>Population</u> 44% of 432 eligible families consented 67% non Hispanic Caucasians Mean age of children: 11.4 years Median income: 30 000–35 000 USD per year</p> <p><u>Inclusion criteria</u> Death of a parent 4–30 months earlier. Child age 8–16 years</p> <p><u>Exclusion criteria</u> Use of mental health service or bereavement service. Suicidal intent or current diagnosis of major depression in child or caregiver. Child diagnosed with ODD, CD or ADHD</p> <p><u>Follow-up</u> 11 months after end of intervention</p>	<p><u>Intervention</u> FBP, n=90 families with 135 children</p> <p><u>Intensity</u> 12 sessions, 2 hours each for caregivers and children separately. Two individual family meetings to review their use of program skills</p> <p><u>Components</u> Techniques that had been used in program for children of divorce [32]</p> <p><u>Drop out rate</u> 13%</p>	<p><u>Control condition</u> Self studies (one booklet per month during three months) n=66 families with 109 children</p> <p><u>Drop out rate</u> 9%</p>	<p><u>YSR</u> Girls: Cohen's d=0.28 (p&lt;0.05) Boys: No significant differences</p> <p><u>CBCL externalizing subscale</u> Girls: Cohen's d=0.30 (p&lt;0.05) Boys: No significant effects</p> <p>Age of the child did not influence the results</p>	<p>Moderate</p> <p>Randomisation by computer at the level of family, ITT-analysis</p>	<p><u>Competence of staff</u> 2 clinicians with master's degrees who received 40 hours of training plus 2 hours training per week during the program</p> <p><u>Fidelity</u> 89%, rated by two independent raters from videotapes of five sessions</p> <p><u>Attendance rate, FBP</u> Caregivers: Average 86% Children: Average 88% of sessions Self study: Caregivers: 42% had read at least half of the books 38% of adolescents and 71% of children had read at least half of the books</p>

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Table 4.6 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Tolan et al 2009 [40] USA	<u>Study design</u> RCT  <u>Setting</u> See Tolan et al [39]  <u>Population</u> 50% of the intervention group of Tolan et al when the children were in fourth grade [39]  <u>Follow-up</u> 12 months post intervention	<u>Intervention</u> SAFEChildren booster dose, 20 session multiple family groups with 4–6 families in each group  <u>Population</u> n=95  <u>Drop out rate</u> 82% of original sample consented to participate in booster; drop out rate among booster participants was 2%	<u>Control</u> No intervention  <u>Population</u> n=101  <u>Drop out rate</u> See intervention group	<u>POCA-R</u> Aggression: Cohen's d= -0.19  Impulsivity: Cohen's d= -0.29  <u>Additional booster effect on children from high risk families</u> Aggression: Cohen's d=-0.29	Moderate	<u>Competence of staff</u> See Tolan 2004 [39]  <u>Fidelity</u> No information  <u>Attendance rate</u> 80% attended >50% of sessions, 69% attended 90–100% of sessions  <u>Gender analysis</u> Not reported

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Table 4.6 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Tolan et al 2004 [39] USA	<p><u>Design</u> Efficacy, RCT (unbalanced 55%/45%), cluster randomised per classroom</p> <p><u>Setting</u> Poor urban high risk community in USA (inner city Chicago) with &gt;40% of households below poverty level, crime rate &gt; Chicago average</p> <p><u>Population</u> 84% of eligible families accepted to participate 42.5% African-American 57.5% Latino 44% of the primary caregivers did not graduate from high school 85% had income &lt;30 000 USD/year</p> <p><u>Inclusion criteria</u> Families with first grade child</p> <p><u>Follow-up time</u> 6 months</p>	<p><u>Intervention</u> SAFEChildren</p> <p><u>Population</u> n=217</p> <p><u>Intensity</u> Family component: 22 weeks sessions after school Academic tutoring, twice weekly 30 minutes during school hours for 22 weeks</p> <p><u>Drop out rate</u> 3%</p>	<p><u>Control</u> No intervention</p> <p><u>Population</u> n=196 (aggression) n=197 and (hyper activity)</p> <p><u>Drop out rate</u> 7%</p>	<p><u>TOCA-R combined with POCA-R at 6 months</u> Aggression: SMD 0.18 (95% CI –0.02 to 0.38)</p> <p>Hyper activity: SMD 0.07 (95% CI –0.13 to 0.26)</p> <p>Larger effects in the 25% of children at highest risk</p>	<p>Moderate</p> <p>Randomisation not described, ITT-analysis</p>	<p><u>Competence of staff</u> Not specified; trial initiated and run by university-based research group</p> <p><u>Fidelity</u> No information</p> <p><u>Attendance rate</u> 78% completed the program, 82% attended &gt;50% of the sessions</p> <p><u>Gender analysis</u> Not reported</p>

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Table 4.6 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Webster-Stratton et al 2001 [20] USA	<p><u>Design</u> Quasi-experimental, random (by lottery) classroom 2:1</p> <p><u>Setting</u> 14 schools from two large urban Head start districts (&gt;80% on welfare, high proportion minorities, single parents and parental substance abuse)</p> <p><u>Population</u> 60% of eligible families consented Average family income: 11 600 USD 52% single mothers 63% from minorities</p> <p>Age of children: 3–7 years, mean 56 months</p> <p><u>Follow-up</u> 1 year</p>	<p><u>Intervention</u> Incredible Years in addition to Head start program, n=225</p> <p><u>Intensity</u> Parents: 12 week group sessions + 4 booster sessions 1 year later</p> <p>Kindergarten teachers: 6 days, once a month</p> <p><u>Drop out rate</u> 15% dropped out during the intervention, 26% of those remaining were lost to follow-up at 1 year</p> <p>Total drop out rate: 38% at 1 year follow-up</p>	<p><u>Control</u> Head start program as usual, n=103</p> <p><u>Drop out rate</u> 43% at 1 year follow-up</p>	<p><u>Child conduct problems at home</u> (Construct based on ECBI and CBCL externalizing). Trend for effect of intervention (<math>p &lt; 0.07</math>)</p> <p><u>Number of children below “at risk cut off” (<math>\leq 9</math> problems/30 min)</u> I: 80% C: 48% <math>p &lt; 0.008</math></p>	<p>Moderate</p> <p>Observer reliability rate at least 75% at two occasions</p> <p>Blinded observers, completer analysis only</p> <p>Attrition analysis shows that children at higher risk tended to remain in the study in the intervention group, but not in the control group. This may lead to an underestimation of effects</p>	<p><u>Competence of staff</u> Teachers and family workers trained by the investigators</p> <p><u>Fidelity</u> One session for each group leader was monitored by project leader</p> <p><u>Attendance rate</u> Low Mother attended mean 5.73 and fathers 3.34 sessions of first 12 sessions. 39% of mothers and 27% of fathers attended booster sessions</p> <p><u>Gender analysis</u> Not reported</p> <p><u>Incentive</u> Gift of 50 dollar for each assessment</p>

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Webster-Stratton 1998 [19] USA	<p><u>Design</u> Quasi-experimental, random (by lottery) classroom 2:1. Same protocol as for Webster-Stratton 2001 [20]</p> <p><u>Setting</u> See Webster-Stratton 2001 [20]</p> <p><u>Population</u> Families socially disadvantaged (&gt;80% on social welfare, &gt;30% minorities, &gt;50% single parents and 20–30% maternal substance use)</p> <p><u>Follow-up</u> 12–18 months</p>	<p><u>Intervention</u> Incredible Years (Partners version) in addition to Head Start program, n=345 (294 completed post assessment)</p> <p><u>Intensity</u> Parents: 8 group sessions Teachers: 2 days work shop Same videotapes discussed in parent and teacher groups</p> <p><u>Drop out rate</u> 21% dropped out shortly after randomisation because they left the Head start program. 8% dropped out during the intervention. 29% of those remaining were lost to follow-up. Total drop out from randomisation 45%</p>	<p><u>Control:</u> Head start as usual, n=167 (130 completed post-assessment)</p> <p><u>Drop out rate</u> 22% dropped out shortly after randomisation because they left the Head start program. 18% of those remaining were lost to follow-up. Total drop out from randomisation 36%</p>	<p><u>CBCL Externalizing Intervention</u> Pretest: 55.29 1 year: 53.50</p> <p><u>Control</u> Pretest: 55.10 12–18 months: 53.40 ns</p> <p><u>ECBI Intervention</u> Pretest: 10.04 12–18 months 7.99</p> <p><u>Control</u> Pretest: 9.56 12–18 months 8.54 ns</p> <p><u>Blinded home observations DPICS-R Intervention</u> Pretest: 14.25 12–18 months: 9.84</p> <p><u>Control</u> Pretest: 9.66 12–18 months: 7.24 ANOVA F 3.67, p&lt;0.05</p>	<p>Moderate</p> <p>Attrition analysis: Drop out had similar background characteristics and ECBI scores at pre and "post test" as those that remained in the study</p>	<p><u>Competence of staff</u> Not reported</p> <p><u>Fidelity</u> High. Monitored by random videotapes of group sessions. 100% discussed all videotape vignettes</p> <p><u>Attendance rate</u> Mother attended mean 5.91 and fathers 5.32 sessions</p> <p><u>Gender analysis</u> Not reported</p> <p>Unbalanced control/intervention population probably explains some of the described effect (intervention group has more child behaviour problems at baseline)</p>

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Wolchik et al 2000 [32]  USA	<p><u>Design</u> RCT, unbalanced 68%/32%</p> <p><u>Setting</u> Maricopa County, Phoenix, Arizona metropolitan area n=622 eligible, 240 randomized, 49% female</p> <p><u>Inclusion criteria</u> Divorce decree granted within previous 2 years; Mothers primary residential parent ≥1 child 9–12 years spent ≥50% of the week with mother. Neither mother nor child in treatment for psychological problems. No plan for mothers to remarry during trial</p> <p>Sufficient in English language. Child not in special education program for mentally or learning disabled.</p> <p><u>Exclusion criteria</u> CDI &gt;17(child) endorsed an item about suicidal ideation, or above the 97th percentile on externalizing subscale on CBCL</p> <p><u>Follow-up time</u> 6 months 6 years (see table 4.8)</p>	<p><u>Intervention</u> New Beginnings: clinical methods based on social learning and cognitive behavioral principles for behavioral change</p> <p>I1: Mother plus child program, n=81 I2: Mother only program, n=83</p> <p><u>Drop out rate</u> 9%</p>	<p><u>Control</u> Quasi placebo (self studies)</p> <p><u>Population</u> n=76</p> <p><u>Drop out rate</u> 11%</p>	<p><u>Externalizing problems</u> Mother-child reports showed a significant effect of the program</p> <p>Teacher data indicated a nonsignificant program effect on acting out behaviours at "post test" but program effects had increased at follow-up</p> <p><u>Internalizing problems</u> Neither mother-child nor teacher reports showed intervention effects</p>	<p>Moderate</p> <p>ITT analysis</p>	<p><u>Competence of staff</u> Clinicians with master's degrees, who received 30 hours training and continuous supervision</p> <p><u>Fidelity</u> High (1) leaders knowledge of intervention content (2) completion of program segments</p> <p><u>Attendance rate</u> Mothers 77% of sessions Children 83% of sessions</p> <p><u>Homework completion</u> Mothers 54% Mothers and child program 55%</p> <p><u>Gender analysis</u> Not reported</p>

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Table 4.6 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Zubrick et al 2005 [28] Australia	<p><u>Design</u> CCT</p> <p><u>Setting</u> Universal prevention in socially deprived areas in Western Australia. Recruitment via local media, professional referral and participant recommendation</p> <p><u>Inclusion criteria</u> A child within the age range 3–4 years. The program reached about 66% of the eligible children</p> <p><u>Follow-up time</u> 12 and 24 months after post assessment</p>	<p><u>Intervention</u> Triple P level 4 group intervention (8 hours)</p> <p>n=804 families in Eastern Metropolitan Health Region. Child age: Mean 43.9 months (58.7% male). Mothers with no post school qualifications: 45.2%</p> <p>ECBI intensity score in clinical range: 41.5% (mean score 121.6 (27.7))</p> <p><u>Intensity</u> 8 hours</p> <p><u>Drop out rate at 24 months</u> 27%</p>	<p><u>Control</u> Health care and family support services as usual</p> <p>n=806 families in Southern Metropolitan Health Region Child age: 45.6 months (54.7% male). Mothers with no post school qualifications: 37.9%</p> <p>ECBI intensity score in clinical range: 21.5% (mean score 107.1 (26.5))</p> <p><u>Drop out rate at 24 months</u> 14.3%</p>	<p><u>ECBI reported by one parent (normally the mother)</u> Cohen's d at 24 months follow-up: 0.47</p>	<p>Moderate</p> <p>Groups were not balanced</p> <p>Mixed linear modeling post-stratification performed plus sensitivity analyses addressing non-random attrition</p>	<p><u>Competence of staff</u> 16 community and child health nurses, social workers, health promotion officers and psychologists who had been trained during a 3-day intensive program</p> <p><u>Fidelity</u> Detailed manual, structured training, performance criteria to assess integrity of learning. Case manager for the project. Debriefing sessions</p> <p><u>Program attendance</u> High 81.8% completed all four workshops. Parents received on average 7.8 hours (SD 1.9) of program exposure</p> <p><u>Gender analysis</u> Not reported</p>

ADHD = Attention-Deficit Hyperactivity Disorder; ANOVA = Analysis of variance; C = Control; CBCL-TRF = Child Behaviour Check List Teacher Report Form; CCET = Marital distress prevention program; CCT = Controlled clinical trial; CD = Conduct Disorder; CDI = Children's Depression Inventory; CI = Confidence interval; CPP = Chicago Prevention Program; DPICS-R = Dyadic Parent-Child Interaction Coding System revised; ECBI = Eyberg Child Behavior Inventory; FAST = Families and Schools Together; FBP = Family Bereavement Program; I = Intervention; IPC = Interpersonal Process Code; ITT = Intention-to-treat ; KPC = Teacher Reported Classroom Behaviours; LIFT = Linking the Interest of Families and Teachers; NYPR-P = New York Parent Rating Scale; ODD = Oppositional Defiant Disorder; POCA-R = Parent Observation of Child Adaptation - revised; RCT = Randomised controlled trial; RR = Risk ratio; SD = Standard deviation; SES = Socio economic status; SMD = Standard mean difference; TOCA-R = Teacher Observation of Classroom Adaptation-revised; TR = Teacher rating; YSR = Youth Self Report; n = Number; ns = Not significant

**Table 4.7** Effects of indicated prevention programs on mental health in children and adolescents.

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
August et al 2001 [69]  USA	RCT, efficacy study  <u>Setting</u> 20 schools (10 intervention and 10 controls). Two regional sites located in a semi-rural, Midwestern area primarily characterized by Caucasian families of low to low-middle socioeconomic status	<u>Intervention</u> Early Risers, 5 year program  <u>Population</u> n=124 (64% boys)  Mean age: 6.6 years	<u>Control</u> No intervention  <u>Population</u> n=121 (74% boys) Mean age: 6.74 years	<u>Parent/Teacher construct measure based on TOCA, POCA, BASC at 24 months</u> No differences between groups	Moderate  No significant differences at baseline	<u>Staff competence</u> Program consultants. Competence not reported  <u>Fidelity</u> A variety of procedures employed to insure fidelity. No specific analysis reported
August et al 2002 [71]  USA	<u>Population</u> Kindergarten children, where 95% of them were screened	<u>Components</u> CORE (skill building and mentoring). FLEX (proactive family support based on home visitations)	<u>Drop out rate</u> 24 months: 18% 36 months: 18.8% 72 months: 35%	<u>Aggression at 36 months</u> Cohen's d=0.37  <u>Impulsivity, 36 months</u> Cohen's d=0.31		<u>Attendance</u> Approximately 60% participated in the intensive phase. 93% participated in the booster session and 67% participated in three or more components offered during this phase
Bernat et al 2007 [72]  USA	<u>Inclusion criteria</u> CBCL-TRF T-score >58 or CBCL-TRF T-score ≥55 and ≥85th percentile for their school  <u>Exclusion criteria</u> IQ <80. Presence of pervasive developmental disorder or severe emotional disorder that required special education placement  <u>Observation times</u> 24 months 36 months 72 months (ie 12 months follow-up after termination of the program)	<u>Intensity</u> 6 week summer school. Biweekly program with parent training and child social skills training (Dinosaur school)  <u>Drop out rate</u> 24 months: 18% 36 months: 19% 72 months: 41%		<u>Hyperactivity, 36 months</u> ns  <u>Self report at 72 months</u> ODD symptom count: Cohen's d=0.47  No significant differences in diagnosis for ODD or CD. No significant difference in CD symptom count  <u>Parent report at 72 months</u> ODD symptom count: Cohen's d=0.34  No significant differences in ODD or CD diagnosis. No significant difference in CD symptom count	<u>Gender analysis</u> No analysis reported	

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
August et al 2003 [73]	<u>Study design</u> RCT, effectiveness study with inactive control	<u>Intervention</u> Early Risers, n=218 Mean age: 6.3 years	<u>Control</u> Standard service, n=109 Mean age: 6.3 years	<u>BASC-PRS</u> Neither group improved significantly at posttest and at 1 year follow-up and no difference be- tween groups	Moderate  Note: No significant differences between I1 and I2. Numbers were collap- sed during analyses	<u>Competence of staff</u> Family neighbourhood centers. Competence not reported
August et al 2004 [74] USA	<u>Setting</u> Economically disadvantaged urban neighbourhoods in a large Mid-western metropolitan city. Large representation of African- Americans (81%)  <u>Population</u> n=327 (185 boys)  <u>Inclusion criteria</u> Children with a T-score $\geq 55$ on aggression scale on CBCL-TRF  <u>Exclusion criteria</u> Children and parents with insufficient understanding of English language. Pervasive developmental disorder or serious emotional- behavioural disorder that required special education placement  <u>Follow-up</u> Post intervention (24 months) 12 months post intervention	I1: CORE Early Risers I2: CORE + FLEX Early Risers  <u>Intensity</u> Two years CORE: Summer program for the children Parent education and skills training program Dinosaur school Mentoring  FLEX: Multisystemic therapy added  <u>Drop out rate (I+C)</u> Year 1: 19% Year 2: 13% Year 3: 14 %		<u>BASC-TRS</u> No significant diffe- rences between groups at posttest and 1 year follow-up  Children with more severe problems bene- fitted more during the intervention but no significant difference at 1 year follow-up		<u>Fidelity</u> Analyses reported and show proper adherence  <u>Attendance rate</u> 50% of children partici- pated at least 48% of the days offered by summer program and 43% of the days offered by Dinosaur school  Average amount of contact CORE + FLEX attendance per family: 9.6 hours  <u>Dosage analysis</u> Higher attendance cor- related to reduction in teacher rated externa- lizing behaviour among severely aggressive children in intervention group at 36 months compared to control  <u>Gender analysis</u> High attendance cor- related to reduction in parent rated externa- lizing behaviour among girls compared to boys

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Barrera et al 2002 [54] USA	<u>Design</u> RCT  <u>Setting</u> Three communities with high proportions Hispanics	<u>Intervention</u> SHIP, 2 year intervention  <u>Population</u> n=141 (n=162 in Smolkowski, whereof 51% Hispanic [55])	<u>Control</u> No intervention  <u>Population</u> n=143 (n=165 in Smolkowski, whereof 52% Hispanic [55])	<u>TRF, externalizing</u> No differences between the groups at posttest and follow-up at 1 and 2 years  <u>TRF, internalizing</u> Girls = 0.24 (p<0.027) for European-American children at follow-up at 1 year  <u>CBCL externalizing</u> No differences between groups at posttest and follow-up at 1 or 2 years  <u>CBCL internalizing</u> No significant differences between groups	Moderate quality for Barrera [54]  Smolkowski adds 45 more families in order to increase power and reanalyses data	<u>Competence of staff</u> Masters or higher in relevant fields and were trained by the program developers  <u>Attendance rate</u> 42% of parents participated in the training. 74% of children participated in CLASS  <u>Gender analysis</u> Not reported
Smolkowski et al 2005 [55] USA	<u>Population</u> 3 284 children in kinder- garten to third grade  <u>Inclusion criteria</u> >95th percentile of CBCL-T aggression scale (T-score of >67) (43.4% of the population) or lowest 5% on reading score (56.6% of the population)  <u>Exclusion criteria</u> Not reported  <u>Follow-up time</u> 1 year (Barrera 2002) 2 years (Smolkowski 2005)	<u>Intensity</u> Parent training. The Incredible Years, 12–16 weekly sessions, 2.25 hours  For the children: 3 components, CLASS [100] designed to reduce acting-out behaviours + Dinosaur School to teach appropriate classroom and social behaviour + learning support  <u>Drop out rate</u> 15% at 1 year follow-up (control and intervention groups) 27% at 2 year follow-up				

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Cavell et al 2000 [56]  USA	<p><u>Design</u> RCT. Randomisation in clusters by grade, teachers blind at follow-up</p> <p><u>Setting</u> 7 public schools in a school district in south central Texas. Diversified ethnic population. Sociodemographic condition not reported</p> <p><u>Population</u> n=90 second- and third grade students were nominated by their teacher based on level of aggression</p> <p><u>Inclusion criteria</u> Score above 84th percentile on CBCL-TRF aggressive behaviour scale</p> <p><u>Follow-up</u> 12 months after end of intervention</p>	<p><u>Intervention</u> Prime Time (16 months)</p> <p><u>Population</u> n=31 (55% African-American and 16% Hispanic)</p> <p>Mean age: 7.5 years</p> <p><u>Intensity</u> Two 30 minute sessions in problem solving skills per week for 46 weeks</p> <p><u>Components</u> Teacher and parent consultation to enhance emotionally supportive relationships</p> <p>Problem solving skills training for the students during school hours</p> <p><u>Drop out</u> In total 5 students dropped out</p>	<p><u>Control</u> Only mentoring by mentors not supervised and trained by the investigators</p> <p><u>Population</u> n=29 (41% African American and 7% Hispanic)</p> <p>Mean age: 7.5 years</p> <p><u>Drop out</u> See intervention group</p>	<p><u>CBCL aggressive scale (T-scores)</u> Both groups improved by time, no difference between groups</p> <p><u>TRF aggressive scale (T-scores)</u> Both groups improved by time, no difference between groups</p> <p><u>Self reports</u> Children in both groups rated themselves as less competent and less supported by others at follow-up. Children in the I-group had an increased positive belief about aggression</p>	<p>Moderate</p> <p>Completer analysis only</p> <p>Randomisation procedure not described</p>	<p><u>Competence of staff</u> Undergraduate psychology or education students as mentors, educated for 18 hours</p> <p>Consultants and PSST trainers were doctoral students, supervised by the authors</p> <p><u>Fidelity</u> Adequate check (manuals, supervision)</p> <p><u>Attendance rate</u> Low number of parent visits</p> <p><u>Gender analysis</u> Not reported</p>

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Connell et al 2007 [10]  USA	<p><u>Design</u> RCT, participants allocated to intervention or control condition</p> <p><u>Setting</u> Three middle schools in an ethnically diverse metropolitan district</p> <p><u>Population</u> All sixth graders, n=998 (526 boys/472 girls) Consented (90%)</p> <p><u>Follow-up time</u> Annually through age 18 (&gt;6 years, see table 4.8)</p>	<p><u>Intervention</u> ATP – multilevel program with universal and indicated components, n=115 received the indicated part (FCU)</p> <p><u>Indicated intervention</u> Family Check-up (FCU), three sessions + access to Family Resource Center and individually tailored support</p> <p><u>Drop out rate</u> 21%</p>	<p><u>Control</u> No information on controls, eg contagion, n=498</p> <p><u>Drop out rate</u> 20% by 6 year follow-up</p>	<p><u>Arrest records</u> No effect</p> <p><u>Annual self report</u> Less growth in engagers in FCU as compared to non-engagers, in substance use and antisocial behaviours between 11–17 years</p>	Moderate	<p><u>Competence of staff</u> Professional therapists</p> <p><u>Attendance rate</u> Not applicable</p> <p><u>Fidelity</u> Not reported. FCU follows a standard format, after which individually tailored services are offered as needed</p> <p><u>Gender analysis</u> Reported; families with girls slightly more likely to use FCU</p>

Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Conduct Problems Prevention Research Group (CPPRG) 2007 [61–63,65, 68,101]  USA	<p><u>Design</u> RCT, schools were matched for demographics and one of each pair was randomly assigned to intervention</p> <p><u>Setting</u> 54 public elementary schools in high risk areas of Durham, Nashville, Seattle and rural central Pennsylvania n=9 594 kindergarteners were assessed for eligibility</p> <p><u>Population</u> n=891 (69% boys, 51% African-American and 47% European American) Mean age: 6.5 years Skewed towards SES disadvantage. 76% of children scored in the clinical range (TRF T-scores <math>\geq 60</math>). Extreme high risk: Defined as most severe 3% of the normative sample</p> <p><u>Inclusion criteria</u> Composite score of TOCA and CBCL. Children were selected based on the score, moving from the highest score downward until desired sample sizes were reached. 95% of the sample scored in the top 20% on both teacher and parent screenings</p> <p><u>Measurement times</u> After grades 3, 4, 5 and 6 After grade 9 (see table 4.7, long term effects)</p>	<p><u>Intervention</u> Fast Track universal (PATHS) and indicated prevention program, 10 year program, n=445</p> <p><u>Intensity</u> <u>During grades 1–6</u> Standard level offered to all during first grade. Subsequently dosage was individualized. Parent and child training with home visits Weekly group meetings (grade 1: 22 sessions grade 2: 14 sessions and 9 sessions thereafter)</p> <p><u>During grades 7–10</u> Individualized plans based on triennial assessments</p> <p><u>Drop out rate</u> n=18% in grade 10 (Drop out rate 2% per year)</p>	<p><u>Control</u> Service as usual, n=446</p> <p><u>Drop out rate</u> n=23% in grade 10</p>	<p><u>Psychiatric diagnosis grade 3</u> No significant differences in whole sample</p> <p><u>Psychiatric diagnosis grade 6</u> No significant difference</p> <p><u>Extreme high risk sample, grade 3</u> I: 38% (27–51%) C: 53% (41–65%) p&lt;0.05</p> <p><u>Extreme high risk sample, grade 6</u> I: 32% (22–45%) C: 0.48 (36–60%) p&lt;0.1</p>	<p>Moderate</p> <p>Powered to detect a main effect size of 0.26</p> <p>Randomisation not described</p>	<p><u>Competence of staff</u> Universal prevention provided by classroom teachers in collaboration with Fast Track Educational Coordinators (ECs). Indicated prevention provided by ECs and Family Coordinators, with master's degrees in counseling or social work</p> <p><u>Fidelity</u> Manualisation of all components, regular training, clinical supervision</p> <p><u>Attendance rate</u> 79% of parents and 90% of children attended at least 50% of the training in grade 1. On average parents attended 15/36 groups and children 21/36 during grades 3–6. 86% of parents and children received individual sessions in grades 7–9</p> <p>Results not dependent on sex, ethnicity, cohort or site</p>

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Cunningham et al 1995 [47]  Canada	<u>Design</u> RCT. Matched by sex, number of problems, single parents  <u>Setting</u> Junior Kindergarten in all public and private schools in Hamilton, Ontario, Canada  <u>Population</u> Mean age: 54 months  <u>Inclusion criteria</u> >1.5 SD on Home Situations Questionnaire (=top 10%)  <u>Exclusion criteria</u> None described  <u>Follow-up</u> 6 months	<u>Intervention</u> COPE 1. Individual (Clinic), n=48  2. Group (Community), n=46  <u>Intensity</u> 11–12 weekly sessions  <u>Drop out rate</u> 25%	<u>Intervention</u> None n=56  <u>Drop out rate</u> 23%	<u>CBCL (parent)</u> Scores not reported by group. All groups improved by time  <u>Home observations questionnaire (Z-scores)</u> Clinic: 0.37 Community 1.16 (p=0.03 vs control) Control: 0.51  <u>Home observations</u> Parent-child interaction: ns	Moderate  Randomisa- tion proce- dure not well described, poor presen- tation and analysis of outcomes	<u>Competence of staff</u> Early childhood educators and a behaviour therapist. Leaders participated in a 15 week training program  <u>Fidelity</u> The execution of every session was monitored and were periodically observed by the investi- gators  <u>Attendance rate</u> Not reported  <u>Gender analysis</u> Not reported
Dishion et al 1995 [50]  USA	<u>Design</u> RCT, no information on blinding  <u>Setting</u> No information n=158, 47% girls Age: 11–14 years  <u>Inclusion criteria</u> At least 4 risk factors according to screening instrument: close- ness to parents [102], emotional adjustment, academic engagement, involvement in positive attitudes, experience seeking, problem beha- viours, the child's substance abuse history, and stressful life events  <u>Follow-up time</u> 12 months	<u>Intervention</u> Adolescent Transitions Program (ATP)  <u>Population</u> n=89 I1: Parent focus (n=26) I2: Teen focus (n=32) I3: Parent and teen focus (n=31)  <u>Intensity</u> 12 weekly 90 min sessions com- pleted in 3–4 months  <u>Drop out rate</u> 11%	<u>Control</u> C1: Quasi placebo, self-directed change (6 newsletters & 5 brief videotapes from ATP) (n=29)  C2: Non-random quasi control (no information on content) (n=39)  <u>Drop out rate</u> 21%	<u>Mother ratings,</u> <u>CBCL Externalizing</u> I1 vs C1: SMD 0.18 I2 vs C1: SMD -0.16 I2 vs C2: SMD -0.12 I3 vs C1: SMD -0.06 I3 vs C2: SMD -0.05  <u>Teacher ratings,</u> <u>CBCL Externalizing</u> I1 vs C1: SMD 0.36 I1 vs C2: SMD 0.30 I2 vs C1: SMD 0.36 I2 vs C2: SMD 0.33 I3 vs C1: SMD 0.22 I3 vs C2: SMD 0.20	Moderate	<u>Staff competence</u> Professional therapists  <u>Attendance rate</u> Parents attended 69% of groups sessions, teens 71% 45% of parents in C1 watched videotapes  <u>Fidelity</u> Not reported  <u>Gender analysis</u> Not reported

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Dishion et al 2008 [49]  USA	<p><u>Design</u> RCT (blinded computerised randomisation)</p> <p><u>Setting</u> National family Nutrition and Health program (WIC)</p> <p><u>Population</u> n=879 eligible Age: 2–3 years at baseline</p> <p><u>Inclusion criteria</u> &gt;1 SD on at least two out of three domains:  1: Outacting child behaviour (CBCL, ECBI)  2: Family problems (maternal depression, daily parental challenges, substance use, teen parents status)  3: Sociodemographic risk (low education and low income)</p> <p><u>Exclusion criteria</u> None described</p> <p><u>Follow-up time</u> 2 years</p>	<p><u>Intervention</u> Family Check-up, n=364</p> <p><u>Intensity</u> 2.5 hour home visit for baseline assessment, including video. At least two more visits:  1: Interview about parental concerns  2: Feedback summarizing assessment results by using motivational interview strategies. Exploration of parental willingness to change problematic parental practices and to identify services appropriate to family needs  Offer of further follow-up</p> <p><u>Drop out rate</u> 15% at 2 years follow-up</p>	<p><u>Control</u> 2.5 hour home visit for baseline assessment, n=317</p> <p><u>Drop out rate</u> 14% at 2 years follow-up</p>	<p><u>CBCL externalising scale at two years follow-up</u> Cohen's d=0.41</p> <p><u>ECBI at 2 years follow-up</u> Only significant changes in children with high scores at baseline: –0.16, SE 0.44. beta-16, p&lt;0.05</p>	Moderate	<p><u>Competence of staff</u> Service workers on PhD or Master's level</p> <p><u>Fidelity</u> Consultants trained for 2.5–3 months. Certification established by reviewing video of feedback</p> <p><u>Attendance rate</u> Not reported and not relevant because of the nature of the intervention</p> <p><u>Gender analysis</u> Gender balanced, 49.5% female. The effect of gender on intervention effect was analyzed in mediation model. Effects were similar in boys and girls</p> <p>Money (100, 120, 140 USD) was handed out to participants at each data collection</p> <p>Apart from the FCU intervention many families received further interventions as a consequence of the FCU. The nature and extent of these interventions were not reported</p>

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Gardner et al 2007 [48]	<u>Design</u> RCT (blinded computerized)	<u>Intervention</u> Family Check-up, see Dishion 2008 [49], n=60	<u>Control</u> WIC + 2.5 hour home visit for baseline assess- ment, n=60	<u>CBCL externalizing scale</u> Cohen's d=0.46	Moderate	<u>Competence of staff</u> Master students trained by skilled therapists and supervised weekly
USA	<u>Setting</u> See Dishion 2008	<u>Drop out rate</u> 8% at follow-up				<u>Fidelity</u> Consultants trained for 2.5–3 months. Certification estab- lished by reviewing video of feedback
Shaw et al 2006 [103]	<u>Population</u> n=120 (boys only) Age: 2 years at baseline		<u>Drop out rate</u> 5% at follow-up			
USA	<u>Inclusion criteria</u> See Dishion 2008 [49]					<u>Attendance rate</u> Not reported and not relevant because of the nature of the interven- tion
Pilot study to Dishion 2008 [49]	<u>Exclusion criteria</u> See Dishion 2008 [49]					<u>Gender analysis</u> Study included only boys
	<u>Follow-up time</u> 12 months					10 USD was handed out to participants at each data collection
						Apart from the FCU intervention many families received fur- ther interventions as a consequence of the FCU. The nature and extent of these interventions were not reported

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Lochman, et al 2003 [51]  USA  Coping Power Program	<p><u>Study design</u> RCT (effectiveness)</p> <p><u>Setting</u> 17 elementary schools</p> <p><u>Population</u> 1 540 children were screened by teachers, 475 fulfilled criteria (moderate–high risk) Sample: n=245 (61% African- American, 68% boys)</p> <p><u>Inclusion criteria</u> Top 33% most aggressive (physical, verbal aggression, disruptiveness)</p> <p><u>Exclusion criteria</u> Participating in a prevention study</p> <p><u>Follow-up time</u> 1 year</p>	<p><u>Interventions</u> I1: CMST and Coping Power, n=61 I2: Coping Power, n=59 I3: CMST, n=62</p> <p><u>Intensity</u> <u>Coping with the Middle School transition (CMST)</u> Parent component: 3 sessions year 1 and 1 booster year 2 (promote parent involvement in school and the study skills of the child)</p> <p>Teacher component: 6 meetings with staff members</p> <p>Child Coping Power Component: 22 group sessions for children in fifth grade, 12 group sessions in sixth grade</p> <p>Parent Component: 16 parent group sessions over the 16 months</p> <p><u>Drop out rate</u> 34%</p>	<p><u>Control</u> Service as usual, n=63</p> <p><u>Drop out rate</u> 45% in the full sample</p>	<p><u>TOCA-R, Aggressive subscale</u> Cohen's d=0.35</p> <p><u>Self reported delinquency</u> Cohen's d=0.27</p>	<p>Moderate No ITT- analysis. High drop out rate</p>	<p><u>Competence of staff</u> Ordinary teachers</p> <p><u>Gender analysis</u> The same effect boys/girls</p> <p><u>Ethnic analysis</u> Same effect for African, American and Caucasian children</p> <p><u>Attendance rate</u> 21% at least one classroom meeting. Child program: mean attendance 84%. Parent 26%, 62% at least one session</p> <p><u>Integrity</u> Detailed intervention manuals. Weekly super- vision</p>

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Lochman et al 2004 [52]  USA	<p><u>Study design</u> RCT (efficacy study), blind evaluation</p> <p><u>Setting</u> 11 schools</p> <p><u>Population</u> Two annual cohorts of boys (n=1 578) in fourth and fifth grades were screened by teach- ers (aggression, cognitive ability). Top 22% highest risk screened according to inclusion criteria n=183 randomised (61% African-American)</p> <p><u>Inclusion criteria</u> Teachers TRF (T-Score &gt;60) Parents CBCL (T-Score &gt;55)</p> <p><u>Exclusion criteria</u> Not participating in a prevention study</p> <p><u>Follow-up time</u> 1 year</p>	<p><u>Intervention</u> Coping Power</p> <p>I1: Child component only, n=60 I2: Child and parent component, n=60</p> <p><u>Intensity</u> <u>Child component</u> 8 group sessions during first year and 25 times second year</p> <p><u>Parent component</u> 16 parent group sessions over the 15 months inter- vention period</p> <p><u>Drop out rate</u> 30% for the full sample</p>	<p><u>Control</u> No intervention, n=63</p> <p><u>Drop out rate</u> See interven- tion group</p>	<p><u>TOCA-R, Aggressive subscale</u> Cohen's d=0.38</p> <p><u>Self reported delinquency</u> No significant differences between groups</p> <p>Parent component influenced delinquency but not school behaviour</p>	<p>Moderate</p> <p>No ITT- analysis, randomisa- tion pro- cedure not described</p>	<p><u>Competence of staff</u> School counsellors, who had received a 10 hours training program</p> <p><u>Gender analysis</u> Effects not depen- dent on age, gender or baseline level of aggression</p> <p><u>Fidelity</u> Intervention staff received weekly scheduled super- vision. Rated the level of accomplish- ment of each child/ parent. Sessions videotaped</p> <p><u>Attendance rate</u> Child sessions: 83% Parent groups: 49%</p>

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Prinz, et al 1994 [53]  USA	<p><u>Design</u> RCT, blinded follow-up</p> <p><u>Setting</u> 6 public elementary schools in Columbia, South Carolina, Denver</p> <p><u>Population</u> 25 first- through third-grade classes. Screening according to inclusion criteria, n=196</p> <p><u>Inclusion criteria</u> <u>Group 1</u> CBCL T-score &gt;65 on the CBCL Aggression scale</p> <p><u>Group 2</u> CBCL T-score &lt;60 on the Aggression scale</p> <p><u>Follow-up time</u> 6 months post intervention</p>	<p><u>Intervention</u> PCS + universal program for prosocial behaviour (reward based), n=48 aggressive and 52 non-aggressive children</p> <p><u>Intensity</u> Mean 22 weekly sessions (9–24). Built on group activities, roleplays, group rewards (tokens) etc</p> <p>Four aggressive and four competent-non-aggressive children (matched by sex and ethnicity) formed a PCS-training group</p> <p><u>Drop out rate</u> 19%</p>	<p><u>Control</u> Minimal class-room intervention + universal classroom intervention, n=47 aggressive and 49 non-aggressive children</p> <p><u>Drop out rate</u> 20%</p>	<p><u>Teacher rated aggression</u> Significant effect for aggressive children Cohen's d=0.6</p> <p>No changes for non-aggressive children</p>	<p>Moderate</p> <p>Completer analysis only. Results adjusted for baseline score</p>	<p><u>Competence of staff</u> Team manager and team assistant (clinical psychologists, doctoral students)</p> <p><u>Fidelity</u> Different procedures used</p> <p><u>Attendance rate</u> Not reported</p> <p><u>Gender analysis</u> Not reported</p>

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Stewart-Brown et al 2004 [45]	<u>Design</u> Block randomized controlled trial. Blind randomisation by block after matching on ECBI score, sex, social class and ethnicity, by tossing a coin	<u>Intervention</u> Incredible Years, "Parents and Children", n=60	<u>Control</u> No intervention n=56	<u>ECBI</u> Both groups improved significantly. The intervention group improved significantly more by 6 months. No significant difference between groups at 12 months	Moderate  Clinical range in consenters 39.4%, in non-consenters 29.5%	<u>Competence of staff</u> Health visitors and nursery nurses attended a 3-day training and received weekly supervision
Patterson et al 2002 [46]	<u>Setting</u> General Practice based parent group	<u>Intensity</u> 2.5 hours x 10 weeks parent groups run by health visitor	<u>Drop out rate</u> At 6 months: 18% At 12 months: 22%			<u>Attendance rate</u> 34 of 60 attended at least 50% of meetings
United Kingdom	<u>Population</u> Respondents in a postal survey (response rate 70%) Age: Mean 4.6 years (2–8 years)	<u>Drop out rate</u> At 6 months: 20% At 12 months: 28%		<u>CBCL (total score)</u> Both groups improved significantly but no significant difference between groups at 6 and 12 months follow-up		<u>Fidelity</u> Weekly supervision meetings
	<u>Inclusion criteria</u> ECBI score >100 (the upper half)					<u>Gender analysis</u> Not reported
	<u>Exclusion criteria</u> Children already receiving treatment for behavioural problems and children with learning difficulties					<u>Problems</u> Low attendance, possible contamination of control group, fidelity sufficient?
	<u>Follow-up time</u> 6 and 12 months					

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Table 4.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Tremblay et al 1991 [57]	<u>Design</u> RCT. Participants were randomly allocated to group before additional selection criteria were applied	<u>Intervention</u> Montreal Prevention experiment, 2 year intervention	<u>Control</u> C1: Observation (placebo) group, subject to longitudinal study, n=123 met selection criteria, 84 consented (68.3%)	<u>Teacher SBQ</u> Effects ns and waning over time  <u>School competence (construct of class placement and behaviour)</u> I: 43% C: 23% p=0.02	Moderate	<u>Competence of staff</u> University-trained case workers working full time in the project
McCord et al 1994 [59]	<u>Setting</u> Kindergartens in Montreal	<u>Population</u> n=68 met selection criteria, 46 participated (67.6%)	C2: Control group, n=58 met selection criteria, 42 consented (72.4%)	Favouring intervention at 2 and 3 years follow-up, then waning		<u>Attendance rate</u> Variable for family intervention. Maximum 46 sessions, mean 17 sessions
Vitaro et al 1994 [60]	<u>Population</u> Boys screened for being at risk for later antisocial behaviour	<u>Components and intensity</u> Parents: Training in effective child rearing; home-based and individualized. Mean numbers of sessions 17.4, range 0–46	<u>Drop out rate</u> 4.8% at 3 years (observation) and 9.5% (control)	<u>Maternal SBQ</u> Significant negative effect post-treatment, which had disappeared by 2 years follow-up		<u>Fidelity</u> Good; team of case workers were coordinated by a fifth professional, educated at the Oregon Social Learning Center
Canada (French speaking)	<u>Inclusion criteria</u> Above 70th percentile on SBQ disruptive behavior scale, rated by teacher  <u>Exclusion criteria</u> Parents not Canadian-born, first language other than French, parents had 15 years of schooling or more  <u>Follow-up time</u> 2 and 3 years after intervention (see table 4.7 for long term follow-up)	Children: Social skills training in small groups with prosocial peers. Nine sessions year 1 and ten sessions year 2  Children: Fantasy play training, twelve sessions received by 25 children and their siblings  <u>Drop out rate</u> 8.7% at 3 years follow-up		<u>Self-report of antisocial behaviour</u> Chi-square significant favouring intervention – 6 years after treatment		<u>Gender analysis</u> Boys only

ATP = Adolescent Transition Program; BASC-PRS = Behavior Assessment System for Children Parent Rating Scale; BASC-TRS = Behavior Assessment System for Children Teacher Rating Scale; C = Control; CBCL-TRF = Child Behaviour Check List Teacher Report Form; CBCL = Child Behaviour Check List; CD = Conduct Disorder; CLASS = Contingencies for Learning Academic and Social Skills; CMST = Coping with the Middle School transition; COPE = Community Parent Education Program; CORE = Early Risers program; a child-focused intervention; ECBI = Eyberg Child Behavior Inventory; ECs = Educational Coordinators; FCU = Family Check-up; FLEX = Family-focused support and empowerment program; I = Intervention; IQ = Intelligence quotient; ns = Not significant; ODD = Oppositional Defiant Disorder; PATHS = Promoting Alternative Thinking Strategies; PCS = Peer coping skills; PSST = Problem solving skills training; RCT = Randomised

controlled trial; SBQ = Social Behavior Questionnaire; SD = Standard deviation; SES = Socio economic status; SMD = Standard Mean Difference; TOCA = Teacher Observation of Classroom Adaptation; TRF = Teacher Report Form; USD = US dollar; WIC = National family Nutrition and Health program

**Table 4.8** Long term (>5 years) effects of programs for externalizing behaviour.

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Tremblay et al 1995 [58]  Canada (French speaking)	<u>Design</u> Follow-up of RCT for Tremblay [57]  <u>Setting</u> Kindergartens in Montreal  <u>Population</u> Boys that participated in the Montreal Prevention experiment, scoring above 70th percentile on teacher rated Social Behaviour Questionnaire  n=166 (of 259 invited)  <u>Long term follow-up</u> 6 years after intervention	<u>Intervention</u> Montreal Prevention experiment, 2 year intervention  <u>Population in the RCT</u> n=43  <u>Drop out rate</u> 4% at 6 year follow-up	<u>Control</u> n=41  <u>Observation group</u> n=82  <u>Drop out rate</u> 4% at 6 year follow-up	<u>Teacher SBQ</u> Effects ns  <u>School adjustment</u> ns  <u>Self-report of anti- social behaviour</u> Chi-square significant favouring intervention	Moderate	<u>Competence of staff</u> University-trained case workers working full time in the project  <u>Attendance rate</u> Variable for family intervention. Maxi- mum 46 sessions, mean 17 sessions  <u>Fidelity</u> Good; team of case workers were coordi- nated by a fifth profes- sional, educated at the Oregon Social Learning Center  <u>Gender analysis</u> Boys only

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Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Hawkins et al 1999 [76]	<u>Design</u> Follow-up of RCT for selected intervention	<u>Intervention</u> Seattle social development project	<u>Control</u> Service as usual, n=220	<u>6 year follow-up</u> Significant reduction in "lifetime violence"	Moderate  Baseline values sys- tematically missing	Dose response seen at 9 and 12 and 15 years follow-up
Hawkins 2005 [75]	<u>Setting</u> Public schools in high crime areas Seattle, USA	<u>Full intervention</u> n=156	<u>Drop out rate</u> <u>6 years</u> 6.4%	Difference in reports of misbehaviours (ns)		Largest improvement in children from the poorest families
Hawkins et al 2008 [77]	<u>Sample</u> n=667 (327 boys/340 girls)	<u>Late intervention</u> n=267	<u>9 years</u> 6% (not presented on group level)	<u>9 year follow-up</u> Significant differences between full interven- tion and control for anxiety symptom count, social phobia symptom count and suicide thoughts	Consistency in implemen- tation difficult to assess	<u>Gender analysis</u> No gender differences at 6 year follow-up
USA	<u>Follow-up</u> 6, 9, 12 and 15 years	<u>Drop out rate</u> <u>6 years</u> Full intervention=4.5% Late intervention=9.0%	<u>12 years</u> 10.9%		Attrition rates are based on sample sizes non-randomly assigned to full inter- vention, late intervention and control condition 4 years after initial RCT	Girls had better effects on GAD symptoms than boys at later follow-ups
		<u>9 years</u> 6% (not presented on group level)	<u>15 years</u> 8.6%	Few differences in outcomes of crime and substance use		
		<u>12 years</u> Full intervention=8.3% Late intervention=5.2%				
		<u>15 years</u> Full intervention=6.4% Late intervention=6.0%				
				<u>15 year follow-up</u> <u>(age 27 year)</u> Proportion fulfilling ≥1 of 4 DSM-IV diagnoses: Full intervention: 15% Late intervention: 22% Control: 26% p<0.03 for difference between full interven- tion and control. No significant differences in crime or substance use		

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Table 4.8 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Conduct Problems Prevention Research Group (CPPRG) 2007 [65] USA	<p><u>Design</u> RCT for indicated program</p> <p><u>Setting</u> Public elementary schools in high risk parts of four areas</p> <p><u>Population</u> Risk children defined as scoring in the top 10% on a combined screening measure for conduct problems (TOCA-R, CBCL, Revised Problem Behaviour Check List)</p> <p>n=891</p> <p>Extreme high risk: Defined as scoring in the top 3%</p> <p><u>Late results</u> 5 and 10 years after intervention started</p>	<p><u>Intervention</u> Fast Track, n=445</p> <p><u>Drop out rate</u> 18% in grade 10</p>	<p><u>Control</u> Service as usual, n=446</p> <p><u>Drop out rate</u> 23% in grade 10</p>	<p><u>Total sample</u> The only significant difference was self rated antisocial behaviour</p> <p><u>Extreme high risk sample, grade 9</u> <u>Diagnosis of CD</u> I: 5% C: 21%</p> <p><u>Diagnosis of ODD</u> No difference</p> <p><u>Any psychiatric diagnosis</u> I: 26% C: 46%</p>	Moderate	Results not dependent on sex, ethnicity, cohort or site

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Table 4.8 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality  Comments	Competence of staff Fidelity Attendance rate Gender analysis
Rotheram- Borus et al 2004 [41]  USA	<u>Design</u> Follow-up of RCT [43]  <u>Setting</u> New York City, Division of AIDS Services  <u>Population</u> Parents with AIDS and their adolescents  <u>Long term follow-up of children</u> 6 years post intervention	<u>Intervention</u> Coping skill intervention, based on social learning and behavioral principles  n=156 adolescents (126 parents)  <u>Drop out rate</u> 20% at 6 years follow-up	<u>Control</u> Standard care, within the same agency  n=161 adolescents  <u>Drop out rate</u> 17% at 6 years follow-up	<u>Brief Symptom Inventory</u> ns  <u>Proportion in school or employed</u> I: 82.6% C: 68.9% RR 2.17 (95% CI 1.24 to 3.78)  <u>Proportion on welfare</u> I: 25.7% C:36.7% RR 0.56 (95% CI 0.34 to 0.93)  <u>Already parents</u> I: 34.6% C: 44.1% RR 0.67 (95% CI 0.43 to 1.06)  Higher life expect- tations in inter- vention group	Moderate  Some incon- sistencies in number of participants and attrition between publications	<u>Gender analysis</u> Not reported

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Table 4.8 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Wolchik et al 2000, 2002 [31,32]  USA	<u>Design</u> Follow-up of RCT [32]  <u>Setting</u> Arizona metropolitan area  <u>Population</u> Divorced mothers and their children, 9–12 year  <u>Long term follow-up</u> 6 years	<u>Intervention</u> New Beginnings; clinical methods based on social learning and cognitive behavioural principles for behavioural change  <u>Population</u> I1: Mother + child program, n=81  I2: Mother only program, n=83  <u>Drop out rate</u> 9%	<u>Control</u> Quasi placebo  <u>Population</u> n=76  <u>Drop out rate</u> 11%	<u>YSR + CBCL</u> <u>Externalizing subscale</u> I1 vs C: SMD -1.51 (95% CI -1.88 to -1.13)  I2 vs C: SMD -0.32 (95% CI -0.65 to 0.01)  <u>Prevalence of</u> <u>mental disorder</u> <u>(DISC)</u> I1: 11% (95% CI 3.8% to 18.2%)  I2: 19.7% (95% CI 10.8% to 28.6%)  C: 23.5% (95% CI 13.8% to 33.2%)  I1 vs C sign I2 vs C ns  No effect on inter- nalizing problems	Moderate	<u>Gender analysis</u> Not reported

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Table 4.8 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Exclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance rate Gender analysis
Connell et al 2007 [10] USA	<p><u>Design</u> RCT, participants allocated to intervention or control condition</p> <p><u>Setting</u> Three middle schools in an ethnically diverse metropolitan district</p> <p><u>Population</u> All sixth graders n=998 (526 boys/472 girls). Consented (90%)</p> <p><u>Follow-up time</u> At age 18 years</p>	<p><u>Intervention</u> ATP – multilevel program with universal and indicated components</p> <p>n=115 received the indicated part (FCU)</p> <p><u>Indicated intervention</u> Family Check-up (FCU), three sessions + access to Family Resource Center and individually tailored support</p> <p><u>Drop out rate at 6 years</u> 20%</p>	<p><u>Control</u> No information on controls, eg contagion, n=498</p> <p><u>Drop out rate</u> 20% by 6 year follow-up</p>	<p><u>Arrest records</u> No effect</p> <p><u>Annual self report</u> Less growth in engagers in FCU as compared to non-engagers, in substance use and antisocial behaviours between 11–17 years</p>	Moderate	<p><u>Competence of staff</u> Professional therapists</p> <p><u>Attendance rate</u> Not applicable</p> <p><u>Fidelity</u> Not reported. FCU follows a standard format, after which individually tailored services are offered as needed</p> <p><u>Gender analysis</u> Reported; families with girls slightly more likely to use FCU</p>

ATP = Adolescent Transition Program; C = Control; CBCL = Child Behaviour Check List; CD = Conduct Disorder; CI = Confidence interval; DSM-IV = Diagnostic and Statistical Manual version IV; FCU = Family Check-up; GAD = Generalized Anxiety Disorder; I = Intervention; ODD = Oppositional Defiant Disorder; RCT = Randomised controlled trial; RR = Relativ risk; SBQ = Social Behaviour Questionnaire; SMD = Standard Mean Difference; TOCA-R = Teacher Observation of Classroom Adaptation; ns = Not significant

**Table 4.9** Cost effectiveness studies.

<b>Author Year Reference Country</b>	<b>Study question</b>	<b>Study design</b>	<b>Patient population</b>	<b>Intervention Participants</b>	<b>Outcome</b>	<b>Costs</b>	<b>Study quality  Comments</b>
Foster et al 2007 [104]  USA	Cost-effectiveness of the Fast Track intervention	CEA of a RCT	891 children	Fast Track	Diagnosis of conduct disorder. Acts of interpers violence avoided. Index criminal offense avoided.  (Measured in grade 9)	Direct costs (payer per- spective)	Moderate  The intervention probably costeffective for those most at risk

CEA = Cost Effectiveness Analysis; RCT = Randomised controlled trial

**Tabell 4.10** Utagerande, metaanalyser.

Författare År, referens Land	Program, urval och antal inkluderade studier	Inklusions kriterier	Kvalitetskriterier	Resultat "post test" för effekter på barnet	Långtidseffekter på barnet	Kommentarer
Lundahl et al 2006 [105]  USA	Föräldrastöd  PsycInfo, ERIC från 1974–2003  63 inkluderades	Disruptive child behaviour  Minst en experiment- och en kontrollgrupp från samma population  >5 deltagare/grupp  Engelskspråkig	Endast "peer-reviewed" tidskrifter  Varje studie kvalitetsgraderades på en sjugradig skala	Cohen's d=0,42 (95% KI 0,35 till 0,49)	Cohen's d = 0,21 vid varierande uppföljnings- tider  Studier som inte följde upp kontrollgruppen användes i analysen	Manual inget krav  Förefaller vara en blandning av tidig behandling och prevention  Barn med ADHD inkluderades
Lösel et al 2003 [106]  Tyskland	"Social skills training" för att förebygga anti- socialt beteende  PsycInfo, PubMed, ERIC, Dissertation Abstracts  Engelsk- och tysk- språkiga studier publicerade senast år 2000  85 RCT inkluderades	0–18 år Ungdomar med CD eller ODD inkluderades  Inga krav på uppföljning men drygt 20% av studierna hade uppföljning på minst 3 månader	Ej redovisat	Cohen's d=0,38 totalt Cohen's d=0,17 för anti-socialt beteende, "fixed model" och 0,26 för "random model"	Cohen's d=0,28 totalt Cohen's d=0,06 för antisocialt beteende med "fixed model" och 0,22 för "random model"	Mindre effekt sågs i större studier och i nyare studier
Mytton et al 2006 [107]  England	Skolprogram för att förebygga våld  Pubmed, ERIC, PsycInfo, IBSS m fl till 2003  36 av 56 RCT ingick i metaanalyserna	Studier som syftade till att minska problem-beteenden exkluderades om inte det framgick att målet med programmet var att minska aggression eller våldsamt beteende	Cochranes kriterier	SMD –0,41 (95% KI –0,56 till –0,26) och hög heterogenitet	Den metaanalys som finns är inte korrekt	Mycket små studier, med undantag av en

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**Tabell 4.10** fortsättning

Författare År, referens Land	Program, urval och antal inkluderade studier	Inkl kriterier	Kvalitetskriterier	Resultat "post test" för effekter på barnet	Långtidseffekter på barnet	Kommentarer
Barlow et al 2003 [108]  England	Gruppbaserat föräldrastöd, för att förebygga utagerande beteende  PubMed, EMBASE, Psychlit, ASSIA, ERIC m fl. Ingen språk- begränsning. Publicerat mellan januari 1970 och juli 2001  Av 141 studier kunde 5 inkluderas	Barn 0–3 år	Guyatts kriterier (Gyatt GH, Sackett DL, Cook DJ). Users guides to the medical literature. II. How to use an article about therapy or prevention. A: are the results of the study valid? JAMA 1994;270:2598–601)	Föräldraskattning: SMD –0,44 (95% KI –0,95 till 0,07)  Oberoende observatör: SMD –0,55 (95% KI –0,86 till –0,25)	Oberoende observatör: SMD –0,23 (95% KI –0,55 till 0,10)	"Random effects" enbart i metaanalyserna
Kaminski et al 2008 [109]  USA	Föräldrastöd för att minska utagerande problem  1990–September 2002. PsychInfo och Medline. Rapporterat på engelska i artiklar eller böcker  77 studier inkluderade	Barn 0–7 år. Förebyggande eller tidig behandling. Varken föräldrar eller barn skulle ha någon utvecklingsstörning. Standardavvikelse skulle vara rappor- terad. Inga krav på uppföljningstid	Formellt sett ingen kvalitetsgradering	Medelvärde (SE): 0,25 (0,03) för utagerande beteende och baserat på 48 studier	Inte angivet	

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**Tabell 4.10** fortsättning

Författare År, referens Land	Program, urval och antal inkluderade studier	Inkl kriterier	Kvalitetskriterier	Resultat "post test" för effekter på barnet	Långtidseffekter på barnet	Kommentarer
Wilson, SJ 2007 [78]  USA	Skolbaserade program för att förebygga utagerande beteenden  249 studier inkluderade  Publicerat från 1950. Senaste datum framgår inte	Utfall: Aggressivt eller våldsamt beteende (slagsmål, mobbing etc), disrup- tive eller bådadera. Rapporterade på engelska	Ingen kvalitets- granskning	Universella program: SMD 0,21 för aggressivt/ "disruptive" beteende, skattat av lärare  Selektiva/indikerade program: SMD 0,29  Multimodala program: SMD 0,05	Beräknades inte	1/4 av studierna rörde program utan manual. 40% av studierna härrörde från avhandlingar och annat, icke-publicerat material. Analys med "random effects" enbart. Breda KI som inte kvanti- fieras i texten
Hahn et al 2007 [79] USA	Universella, skol- baserade program för att förebygga våld och aggressivt beteende. PubMed, EMBASE, ERIC, ASSI, Psych Info m fl. Böcker och myndighetsrap- porter inkluderades också. Publicerat före december 2004 53 studier inklu- derades	Utfall: Våld eller "proxy för våld" (CD, mått på exter- naliserat beteende, utagerande beteende, "delinquency"). Studierna skulle ha >20 deltagare per grupp	Kvalitetsgraderat enligt Community guide's normer. Studier med god eller måttlig kvalitet inklu- derades; studier med <1 års uppföljning fick "straffpoäng". Effekt beräknades på resultat när bortfallet var <30%. Effekten mättes som relativ ändring (%)	Medianeffekt över alla åldrar var 15% relativ minskning i våldsamt uppförande	Effekten avtog med tiden	12 studier mätte effekt med "proxymått"

CD = Conduct Disorder; ODD = Oppositional Defiant Disorder; RCT = Randomised Controlled Trial, Randomiserad kontrollerad undersökning; SMD = Standard Mean Difference, Standardavvikelse

**Table 5.5** Universal programs for prevention of depression and anxiety in children.

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Aune et al 2009 [26]  Norway	<p><u>Design</u> Cluster randomisation, one cluster per condition</p> <p><u>Setting</u> Two counties in central Norway, similar in sociodemographic parameters. All 6th to 9th grade children</p> <p><u>Population</u> n=1 748 (49% boys) signed informed consent. Representative of Norwegian population. 97% Caucasian</p> <p>Age: 11–14 years (mean 12.6)</p> <p><u>Follow-up</u> 8 months (consolidation phase of the program)</p>	<p><u>Intervention</u> NUPP-SA, targeting social anxiety. Lectures based on CBT, n=961. n=112 had syndromal social anxiety at baseline</p> <p><u>Intensity</u> Broad 4 months program: psycho-educative meetings for parents, health nurses, teachers, community and welfare workers. Information in the local newspaper. Three sessions for children, conducted in class. Website and booklets for self education</p> <p><u>Drop out rate</u> 17%</p>	<p><u>Control</u> No intervention, n=789. n=78 had syndromal social anxiety at baseline</p> <p><u>Drop out rate</u> 19%</p>	<p><u>Total sample</u> <u>SPAI-C</u> Cohen's d: 0.20 (95% CI 0.90–0.30)</p> <p><u>SCARED</u> Cohen's d: 0.21 (95% CI 0.11–0.31)</p> <p>Neither intervention nor control group changed in SMFQ and SDQ</p> <p><u>Syndromal subjects</u> <u>SPAI-C</u> Cohen's d: 0.83 (95% CI 0.52–1.12)</p> <p><u>SCARED</u> Cohen's d: 0.44 (95% CI 0.15–0.73)</p> <p><u>Number of individuals with social anxiety at follow-up</u> I: 34% of syndromal group C: 41% of syndromal group</p> <p><u>New cases of social anxiety at follow-up</u> I: 4.6% C: 5.8%</p>	Moderate	<p><u>Competence of staff</u> The program developer</p> <p><u>Adherence</u> Measured by scoring three videotapes of lectures. Rated as high adherence</p> <p><u>Attendance rate</u> 80–100% of the target groups attended in the intervention</p> <p><u>Gender analysis</u> Not reported</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Gillham et al 2007 [4] USA	<p>RCT, randomised at individual level after stratification for age, gender and baseline CDI</p> <p><u>Setting</u> Three schools in a suburban metropolitan area</p> <p><u>Population</u> 718/4 000 students consented to participate. Predominantly Caucasian (60–88%), children from lower and higher SES levels Mean age: 12.13 years (1.03). Mean CDI: 8.45 (7.35) where students in one school reported lower levels of depression at baseline</p> <p><u>Inclusion criteria</u> CDI &lt;13 and not depressive as measured by DICA</p> <p><u>Follow-up</u> Every 6 month up to three years</p>	<p><u>Intervention</u> PRP n=232</p> <p><u>Drop out rate at 3 years</u> 55%</p> <p><u>Intensity</u> Groups met after school, once a week for 90 minutes sessions during 12 weeks</p>	<p><u>Control</u> C1: PEP, n=231</p> <p><u>Drop out rate at 3 years</u> 48%</p> <p>PEP focuses on stressors. It is designed to control for adult attention, group cohesion and social support</p> <p><u>Intensity</u> Groups met after school, once a week for 90-minutes sessions during 12 weeks</p> <p>C2: No intervention, n=234</p> <p><u>Drop out rate at 3 years</u> 55%</p>	<p><u>CDI</u> No significant differences between group at "post test" or at any of the follow-up measurements</p> <p><u>CDI &gt;13</u> PRP prevented elevated symptoms relative to control but not relative to PEP</p> <p>Note: Intervention effects differed by school, no variable examined could explain the difference</p>	<p>Moderate</p> <p>Randomisation by computer generated random numbers sequence</p> <p>Children with CDI ≥13 at follow-up were assessed by blinded interviewers</p> <p>Powered to detect effect sizes, <math>d \geq 0.30</math></p> <p>ITT-analysis</p>	<p><u>Group leaders</u> Teachers, school counsellors and graduate students not affiliated with the research team. They participated in 30 hours training and biweekly group supervision</p> <p><u>Program integrity</u> PRP: 80% PEP: 68%</p> <p><u>Attendance (mean)</u> PRP: 6.71 sessions PEP: 7.11 sessions ns 15% did not attend any session</p> <p><u>Gender analysis</u> Not reported</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Horowitz et al 2007 [24] USA	<p><u>Design</u> RCT, efficacy</p> <p><u>Setting</u> Suburban-rural high schools serving predominantly working and middle classes</p> <p><u>Population</u> n=380 (53% of possible 600 students that gave informed consent), 54% females Predominantly Caucasian (79%), SES-levels: na Age: Mean 14.43 years (0.70)</p> <p><u>Follow-up</u> "Post test" and 6 months</p>	<p><u>Interventions</u> I1: CBT, n=112 CDI pretest: Mean 8.68 (6.65)</p> <p><u>Intensity</u> Eight weekly 90 minutes group sessions with active guidance and use of an exercise workbook outside the group</p> <p><u>Drop out rate</u> 21%</p> <p>I2: IPT-AST, n=99 CDI pretest: Mean 9.18 (7.37)</p> <p><u>Intensity</u> Two individual pre-sessions and eight weekly 90 minutes group sessions divided into 3 phases</p> <p><u>Drop out rate</u> 15%</p>	<p><u>Control</u> Wellness classes as usual with the ordinary teachers, n=169 CDI pretest: 10.50 (8.18)</p> <p><u>Drop out rate</u> 16%</p>	<p><u>CDI</u> <u>Post intervention</u> CBT: Mean 8.19 (6.86) IPT-AST: Mean 9.47 (7.30) C: Mean 11.78 (9.69) p&lt;0.01</p> <p><u>6 month follow-up</u> CBT: Mean 8.23 (7.68) IPT-AST: Mean 9.67 (8.10) C: Mean 10.08 (8.55) ns</p>	<p>Moderate</p> <p>Blinded assessments</p> <p>Powered to detect small main effect sizes on a composite of CDI and CES-D (Cohen's d=0.16)</p> <p>Sub group analysis for high versus low risk students showed no significant effects at follow-up for either of the groups</p>	<p><u>Group leader training</u> Master's level clinical psychology graduate students or PhDs, who had received prior therapy training</p> <p><u>Fidelity</u> Training workshops and weekly supervision meetings. The schools did not permit audiotaping the sessions</p> <p><u>Attendance rate</u> Not described</p> <p><u>Gender analysis</u> No gender differences</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Lock et al 2003 [10]	<u>Design</u> RCT, randomised at school level	<u>Intervention</u> FRIENDS for children or for adolescents, n=545	<u>Control</u> Standard curriculum, n=388	<u>CDI at 12 months</u> <u>Grade 6</u> I: 5.18 (5.34) C: 7.86 (6.70) ns	Moderate  Analysis based on the 737 children that completed the study	<u>Group leaders</u> Psychologists or doctoral candidates, extensively trained by one of the authors
Barrett et al 2005 [15]	<u>Setting</u> Seven socioeco- nomically diverse schools in the metropolitan area of Brisbane.	<u>Drop out rate</u> <u>at 12 months</u> 19%	<u>Drop out rate</u> <u>at 12 months</u> 31%	<u>Grade 9</u> I: 9.76 (7.66) C: 9.19 (7.57) ns	The 24 and 36 months follow-up was based on 668 students, one school withdrew (n=68)	<u>Integrity</u> Group leaders completed a check list
Barrett et al 2006 [7]	Majority of white, working to middle class students. Average SES for Australia			<u>SCAS at 12 months</u> <u>Grade 6</u> I: 9.53 (0.88) C: 17.07 (2.61) p<0.01	Skewed drop out in the control group. Significantly more children at risk at pre intervention dropped out	<u>Attendance rate</u> Very low parent attendance
Australia	<u>Population</u> 78.1% of grade 6 students (9–10 years) and 76.9% of grade 9 students (14–16 years) n=977 consented to participate  Participants were stratified into “at risk” and “healthy” based on the SCAS (cut off score 42.48)  <u>Follow-up</u> Post intervention and 12, 24 and 36 months later			<u>Grade 9</u> I: 18.54 (13.28) C: 16.40 (11.84) ns  <u>SCAS at 36 months</u> <u>Grade 6</u> I: 7.55 (7.73) C: 13.46 (11.74)  <u>Grade 9</u> I: 15.14 (11.45) C: 13.33 (15.11)		<u>Gender analysis</u> 2003 and 2006 studies: significant time x inter- vention x gender effect on anxiety after 12 and 25 months, but not at 36 months follow-up  2005: No report

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Lowry- Webster 2001, 2003 [11,12]  Australia	<p><u>Design</u> RCT, randomised at school level</p> <p><u>Setting</u> Seven Catholic schools in the Brisbane metropolitan area. No information on SES</p> <p><u>Population</u> n=594 students in grades 5 to 7. Age: 10–13 years. Stratified in high and low risk based on pre treatment SCAS-score (cut off 42.48)</p> <p><u>Follow-up</u> 12 months</p>	<p><u>Intervention</u> FRIENDS for children, n=432 (234 girls)</p> <p>SCAS at baseline: 28.09 (18.45) CDI at baseline: 9.74 (8.59) CDI for high risk group at baseline: 18.26 (8.44)</p> <p><u>Intensity</u> 10 weekly group sessions, 75 minutes each, part of class room curriculum. Two booster sessions, 1 and 3 months later</p> <p>Parent component: three sessions separate from the child program</p> <p><u>Drop out rate</u> 21%</p>	<p><u>Control</u> Waitlist, n=162 (80 girls)</p> <p>SCAS at baseline: 31.45 (14.76) CDI at baseline: 12.42 (8.18) CDI for high risk group at baseline: 16.65 (5.71)</p> <p><u>Drop out rate</u> 21%</p>	<p><u>Self rating, SCAS</u> I: 16.66 (13.91) C: 27.54 (20.06) p&lt;0.05</p> <p><u>CDI (high risk group)</u> I: 11.84 (7.26) C: 15.78 (8.72) p&lt;0.05</p> <p>No significant difference on CDI for the total sample</p> <p><u>Risk status</u> I: 3.8% C: 12.2% p&lt;0.01</p> <p><u>Parental CBCL</u> No significant differences</p> <p><u>Proportion diagnosis free (ADIS-C)</u> I: 85% C: 31.2% p&lt;0.01</p>	<p>Moderate</p> <p>The control group had significantly higher baseline on RCMAS and CDI</p>	<p><u>Group leader</u> Ordinary teachers trained during a two day workshop</p> <p><u>Integrity</u> Teachers met regularly with the program leader for review. Random video- taping of the sessions was conducted</p> <p><u>Attendance rate</u> Not reported</p> <p><u>Gender analysis</u> No differences between the sexes in treatment outcomes</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Pössel et al 2005 [28]	<u>Design</u> RCT, randomisation between classes within schools	<u>Intervention</u> LISA	<u>Control</u> Curriculum as usual	<u>CES-D at 3 months follow-up (mean (SD))</u> I: Minimal group: 11.59 (7.59) C: Minimal group: 13.13 (7.55) ns	Moderate  Completer analysis only  Powered to detect effect size d=0.31	<u>Group leaders</u> One trainer and one co-trainer per group (psychologists or graduate students)
Pössel et al 2004 [22]	<u>Setting</u> All middle schools in the area of Tübingen invited six schools consented. No information on SES	<u>Participants</u> n=200 (87 girls) Mean age: 13.82 years (0.71)	<u>Participants</u> n=142 (79 girls) Mean age: 14.18 years (0.78)	I: Subsyndromal group: 13.85 (7.01) C: Subsyndromal group: 17.17 (8.55)	ns	<u>Fidelity</u> Video recordings rated by independent observers, 1.5 hour weekly training with a supervisor
Germany	<u>Population</u> 8th graders, stratified for initial risk status (minimal, subsyn- dromal depression, clinically relevant depressive symptoms)	<u>CES-D at baseline</u> Minimal group: 8.54 (2.87) Subsyndromal: 16.64 (4.87)	<u>CES-D at baseline</u> Minimal group: 8.76 (3.01) Subsyndromal group: 17.10 (4.01)	<u>CES-D at 6 months follow-up</u> I: Minimal group: 10.59 (8.19) C: Minimal group: 14.29 (8.48) ns		<u>Attendance rate</u> 12% left ahead of schedule due to relocation
	<u>Intensity</u> 1.5 hours weekly for 10 weeks. Training was divided per sex	<u>Drop out rate</u> 6.6% in the I + C groups	<u>Drop out rate</u> 6.6% in the I + C groups	I: Subsyndromal group: 13.99 (7.79) C: Subsyndromal group: 18.07 (9.21)		<u>Gender analysis</u> No

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Pössel et al 2008 [23] Germany	<p><u>Design</u> RCT, randomisation between classes within schools</p> <p><u>Setting</u> Four middle schools in the area of Tübingen representing eco- nomically different regions. No information on SES</p> <p><u>Population</u> Eight graders strati- fied for sex and level of depressive symp- toms (lower, higher)</p> <p><u>Follow-up</u> Post intervention, 3 months and 6 months</p>	<p><u>Intervention</u> LARS&amp;LISA</p> <p>n=163 (72 girls) Mean age: 13.73 years (0.63)</p> <p><u>Intensity</u> 1.5 hours weekly for 10 weeks. Training was divided per sex</p> <p><u>Drop out rate</u> 10%</p>	<p><u>Control</u> Curriculum as usual</p> <p>n=138 (68 girls) Mean age: 13.63 years (0.58)</p> <p><u>Drop out rate</u> 10%</p>	<p>Girls benefitted indepen- dently of their level of depressive symptoms at baseline</p> <p>Boys with less severe depressive symptoms at baseline benefitted from the program</p> <p>(p&lt;0.05)</p>	Moderate	<p><u>Group leaders</u> One trainer and one co- trainer per group (psycho- logists or graduate students)</p> <p><u>Fidelity</u> Video recordings rated by independent observers, 1.5 hour weekly training with a supervisor</p> <p><u>Attendance rate</u> Not stated</p> <p><u>Gender analysis</u> Yes, girls benefitted more</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Sawyer et al 2009 [25]  Australia	<p><u>Design</u> RCT, effectiveness study, randomisation at school level (matched pairs). Concealed allocation</p> <p><u>Setting</u> 25 pairs of secondary schools covering a demographically diverse spectrum matched for SES status and with &gt;100 students each, in 3 Australian states</p> <p><u>Population</u> n=8 873 students were eligible and 5 634 (47% boys) consented Mean age: 13.1 year &gt;80% had at least one parent in full time employment</p> <p><u>Follow-up</u> Assessments annually during the 3 year study. No formal follow-up after end of intervention</p>	<p><u>Intervention</u> BeyondBlue, n=3 037</p> <p><u>Intensity</u> 3 years. Curriculum intervention: 10 classroom-sessions per year. Program to enhance school climate. Improvement in care pathways. Community Forum</p> <p><u>Drop out rate</u> Year 1: 9,7% Year 2: 20%</p>	<p><u>Control</u> Community forum component only, n=2 597</p> <p><u>Drop out rate</u> Year 1: 9.5% Year 2: 19.8%</p>	<p><u>Total sample</u> <u>CES-D</u> No significant differences between groups Average scores increased by time</p> <p><u>Subgroup with depressive symptoms at baseline</u> Both groups improved. No differences between groups</p>	<p>Moderate</p> <p>Powered to detect a 5% difference in depressive symptoms</p> <p>ITT-analysis</p> <p>Schools self selected</p>	<p><u>Group leaders</u> Regular teachers with comprehensive training and support from supervisors</p> <p><u>Fidelity</u> Monitored through project facilitators and evaluations from staff and students. Maybe not sufficient</p> <p><u>Gender analysis</u> No differences between girls and boys</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Sheffield et al 2006 [20]	<u>Design</u> RCT, Cluster, stratified	<u>Intervention</u> Program with universal and/or indicated components, consistent with PSFL (for indicated component see Table 5.7) n=621	<u>Control</u> Standard curriculum, n=605	<u>CDI and YSR</u> There was no significant difference between the groups (measured as CDI and YSR)	Moderate The study was designed to detect small effect sizes (0.10) from the universal prevention	<u>Group leaders</u> Ordinary teachers  <u>Fidelity (high)</u> The mean number of program elements completed. Each session was 85% for the universal program  <u>Attendance rate</u> <u>universal program</u> >90%  <u>Gender analysis</u> Not reported
Australia	<u>Setting</u> 36 schools from two Australian states were selected to broadly represent the Australian population. Two schools dropped out before start of invention  <u>Population</u> n=2 479 (54% female) Mean age: 14.34 years (0.45)  High symptoms students scored in the top 20% on the combined scores of CDI and CES-D n=521 (69% girls) Mean age: 14.34 (0.46)  <u>Follow-up</u> "Post test" and 12 months	<u>Intensity (universal part of study)</u> One session, 45–50 minutes weekly in 8 weeks during one term. Part of school curriculum  <u>Drop out rate</u> 15%	<u>Drop out rate</u> 14%			

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Shochet et al 2001 [16]  Australia	<p><u>Design</u> CCT, efficacy</p> <p><u>Setting</u> Ninth grade students in a secondary school in Brisbane, low-middle class SES</p> <p><u>Population</u> The 1996 cohort (n=144) served as the control group  The 1997 cohort (n=151) served as the intervention group  260 students (53% girls) consented to participate  Mean age: 13.49 (0.54)</p> <p><u>Follow-up</u> 10 months</p>	<p><u>Interventions</u> I1: RAP-A, n=68</p> <p><u>Intensity</u> Eleven weekly group (8–12 participants) sessions, 40–50 minutes during school class time</p> <p><u>Drop out rate</u> 22%</p> <p>I2: RAP-F, n=56</p> <p><u>Intensity</u> RAP-A combined with parent education (3 parent group 3 hours sessions at 3 week intervals during RAP-A)</p> <p><u>Drop out rate</u> 9%</p>	<p><u>Control</u> Normal school curriculum, n=118</p> <p><u>Drop out rate</u> 23.7%</p>	<p><u>CDI</u> <u>Pre test</u> RAP-A: 7.25 (4.96) RAP-F: 7.92 (5.45) C: 8.50 (6.81)</p> <p><u>Post test</u> RAP-A: 5.82 (4.80) RAP-F: 5.84 (4.42) C: 8.90 (7.87)</p> <p><u>Follow-up</u> RAP-A: 5.74 (4.80) RAP-F: 5.84 (4.42) C: 7.82 (7.14)</p> <p>Significant differences between RAP-A and control (p&lt;0.05) and between RAP-F and control (p&lt;0.01)</p>	<p>Moderate</p> <p>Significant effects for both intervention groups 10 months follow-up – lower levels of depressive symptoms and hopelessness</p> <p>Students (n=4) with learning disabilities and students with signs of depression (n=9) were excluded from the analysis</p>	<p><u>Group leaders</u> Psychologists with 25 hours training</p> <p><u>Program integrity</u> Self rating completed on 57% of sessions. High (approximately 90%) and fidelity</p> <p><u>Attendance rate</u> Adolescents: All attended at least 9/11 sessions  Parents: 36% attended at least one session</p> <p><u>Gender analysis</u> No gender effects</p>

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Table 5.5 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Fidelity Attendance Gender analysis
Spence et al 2005 [21]	<u>Design</u> RCT, randomisation at level of matched pairs of schools	<u>Intervention</u> PSFL.  n=751 (52.5% female)	<u>Control</u> No intervention  n=749 (51% females)	<u>BDI score</u> The difference between groups at post "test" had vanished at 12 months follow up. Thereafter there were no significant differences between groups neither for the full sample or for the high symptom subgroups	Moderate  The study was powered to detect a small effect size (0.10)	<u>Group leader competence</u> Teachers  <u>Fidelity</u> High (self-reported by the teachers)  <u>Attendance</u> Not reported (part of school curriculum)
Spence et al 2003 [19]	<u>Setting</u> 16 high schools in Brisbane. Average SES rating represen- tative for Australia	<u>Intensity</u> One session, 45–50 minutes weekly in 8 weeks	<u>Drop out rate</u> 37.5% (4-year follow-up)	<u>Incidence of depression</u> No significant differences at any time		<u>Gender analysis</u> Not reported
Australia	<u>Population</u> n=1 500 students in eighth grade gave consent (66%)  Mean age: 12.82 years (0.54)  High symptom students: BDI score ≥13 or endorsed the suicide question on the BDI or endorsed the dysthymia questions  <u>Follow-up</u> Annually for 4 years	<u>Drop out rate</u> 41.3% (4-year follow-up)				

ADIS-C = Anxiety Disorders Interview Schedule for DSM-IV; BDI = Beck Depression Inventory ; C = Control; CBCL = Child Behaviour Check List; CBT = Cognitive behavioural therapy; CCT = Control Clinical Trial; CDI = Children's Depression Inventory; CES-D = Center for Epidemiologic Studies Depression Scale; CI = Confidence interval; DICA = Diagnostic Interview for Children and Adolescents; I = Intervention; IPT-AST = Interpersonal Psychotherapy-Adolescent Skills Training; ITT = Intention-to-treat; NUPP-SA = Norwegian Universal Preventive Program for Social Anxiety; PEP = Penn Enhancement Program; PRP = Penn Resilience Program; PSFL = Program Solving for Life; RAP-A = Resourceful Adolescent Program – Adolescents; RAP-F = Resourceful Adolescent Program – Parents; RCMAS = Revised Childrens Manifest Anxiety Scale; RCT = Randomised

controlled trial; SCARED = Screen for Child Anxiety Related Emotional Disorders; SCAS = Spence Children's Anxiety Scale; SDQ = Strengths and Difficulties Questionnaire; SES = Socio economic status; SMFQ = The Short Mood and Feelings Questionnaire; SPAI-C = Social Phobia and Anxiety Inventory for Children; YSR = Youth Self Report; ns = Not significant



**Table 5.6** Selective prevention programs.

Author Year Reference Country	Study design and setting Population Inclusion and exclusion criteria Follow-up time	Intervention Participants Program description Drop out rate	Control Participants Drop out rate	Outcome	Study quality  Comments	Fidelity Attendance Gender analysis
Cardemil et al 2002 [29]	<u>Design</u> RCT, randomised at student level	<u>Intervention</u> PRP Latino: n=25 African-American: n=50	<u>Control</u> Normal curriculum Latino: n=28 African-American: n=65	<u>CDI for Hispanic sample</u> The PRP group CDI had decreased at postinter- vention but not the control group The difference was main- tained during 24 months follow- up (p<0.001). Children that were sympto- matic at baseline benefitted the most	Moderate  Results were based on ITT-analysis	<u>Group leaders</u> Master's level graduate student, assisted by an undergraduate psychology student. All group leaders received at least 20 hours training
Cardemil et al 2007 [30]  USA	<u>Setting</u> Two middle schools located in low- income urban parts of Philadelphia. One school had 77% Latino children, the other 99% African- American children n=1 805  <u>Population</u> Students in grades 5–8. 173 children gave consent and 168 were Latino or African-Americans (84 girls). Mean age: 11.12 years (0.94)  <u>Follow-up time</u> Postintervention, 3, 6, 12 and 24 months later	<u>Intensity</u> Weekly 90 minutes sessions for 12 weeks plus homework. Content was adapted for low income minority populations  <u>Drop out rate</u> At 24 months follow-up: 17%	<u>Drop out rate</u> At 24 months follow-up: 42%	<u>CDI for African-American sample</u> Both PRP and control groups improved during the inter- vention and their scores remained similar during 24 months follow-up		<u>Integrity</u> Biweekly supervision, which consisted of evalua- tion of audiotapes to ensure adherence and assistance in problem solving  <u>Attendance</u> Analysis showed marginal correlation between atten- dance rate and CDI score up to 12 months follow-up. The difference was not significant at 2 years follow-up  <u>Gender analysis</u> Not reported

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Table 5.6 continued

Author Year Reference Country	Study design and setting Population Inclusion and exclusion criteria Follow-up time	Intervention Participants Program description Drop out rate	Control Participants Drop out rate	Outcome	Study quality  Comments	Fidelity Attendance Gender analysis
Roberts CM et al 2009, [31] Australia	<p><u>Design</u> RCT effectiveness study, randomised at level of matched pairs of schools</p> <p><u>Setting</u> Random sample of public elementary schools in Western Australia, serving the lowest decile of SES n=12 schools</p> <p><u>Population</u> Seventh grade students. 88% consented to participate Mean age: 11.99 (SD=0.33)</p> <p><u>Follow-up time</u> 6 and 18 months postintervention</p>	<p><u>Intervention</u> Aussie Optimism Program (social skills and optimistic thinking skills), n=274 (55% girls)</p> <p><u>Intensity</u> Social skills training: 10 sessions (60 minutes) for the whole class during school time  Optimistic thinking skills training: 10 sessions (60 minutes) during school time  One module per week in 20 weeks</p> <p><u>Drop out rate at follow up</u> 29%</p>	<p><u>Control</u> Health education relating to self-management and interpersonal skills, n=222 (53% girls)</p> <p><u>Intensity</u> 20 lessons with similar learning outcomes as in the intervention group</p> <p><u>Drop out rate at follow-up</u> 20% (significant difference compared to intervention group)</p>	<p><u>CDI at 6 and 18 months</u> No significant differences</p> <p><u>RCMAS at 6 and 18 months</u> No significant differences</p> <p><u>Incidence of depression</u> No significant differences</p> <p>The means for both groups declined by time</p>	<p>Moderate</p> <p>Students who dropped out had higher pretest symptoms</p> <p>Skewed at baseline, higher level of symptoms in the intervention group</p>	<p><u>Group leader competence</u> Ten group teachers had 16 hours of training plus eight 60 minute coaching sessions</p> <p>The control group teachers had 30 minutes training</p> <p><u>Program integrity</u> High. Assessed from teacher logbooks, student workbook samples and blind independent observations of three randomly selected lessons per teacher</p> <p><u>Attendance rate</u> High</p> <p><u>Gender analysis</u> Not reported</p>

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Table 5.6 continued

Author Year Reference Country	Study design and setting Population Inclusion and exclusion criteria Follow-up time	Intervention Participants Program description Drop out rate	Control Participants Drop out rate	Outcome	Study quality  Comments	Fidelity Attendance Gender analysis
Sandler et al 2003 [32] USA	RCT  <u>Setting</u> Phoenix metro- politan area  <u>Population</u> 44% of 432 eligible families consented 67% non Hispanic Caucasians. Mean age of children: 1.4 years. Median income: 30 000–35 000 USD per year  <u>Inclusion criteria</u> Death of a parent 4–30 months earlier. Child age 8–16 years  <u>Exclusion criteria</u> Use of mental health service or bereave- ment service. Suicidal intent or current diagnosis of major depression in child or caregiver. Child diagnosed with ODD, CD or ADHD  <u>Follow-up</u> 11 months after end of intervention	<u>Intervention</u> FBP, n=90 families with 135 children  <u>Intensity</u> 12 sessions, 2 hours each for caregivers and children sepa- rately. Two individual family meetings to review their use of program skills  <u>Components</u> Techniques that had been used in program for children of divorce [60]  <u>Drop out rate</u> 13%  Improve relations in the family and promote the child's resilience	<u>Control condition</u> Self studies (one booklet per month during 3 months), n=66 families with 109 children  <u>Drop out rate</u> 9%	<u>CDI and RCMAS composite</u> Girls with higher baseline score benefitted more (Cohen's $d+1SD=0.61$ ) Boys: No significant effects  Age of the child did not influence the results  <u>CBCL internalizing subscale</u> Girls: Cohen's $d=0.24$ ( $p < 0.05$ ) Boys: No significant effects	Moderate  Randomisation by computer at the level of family, ITT-analysis	<u>Competence of staff</u> Two clinicians with master's degrees who received 40 hours of training plus 2 hours training per week during the program  <u>Fidelity</u> 89%, rated by two indepen- dent raters from videotapes of five sessions  <u>Attendance rate, FBP</u> Caregivers: Average 86% Children: Average 88% of sessions.  <u>Self study</u> Caregivers: 42% had read at least half of the books. 38% of adolescents and 71% of children had read at least half of the books

ADHD = Attention Deficit Hyperactivity Disorder; CBCL = Child Behaviour Check List;  
CD = Conduct Disorder; CDI = Children's Depression Inventory; FBP = Family Bereave-  
ment program; ITT = Intention-to-treat; ODD = Oppositional Defiant Disorder; PRP  
= Penn Resilience Program; RCMAS = Revised Children's Manifest Anxiety Scale; RCT =  
Randomised controlled trial; SD = Standard deviation; SES = Socio economic status

**Table 5.7** Indicated prevention programs to prevent depression and anxiety.

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Beardslee et al 2007 [43]	RCT  <u>Setting</u> Boston. A mixture of patients from a HMO (53%), clinician referrals and self referrals Mainly white, middle class. All had health insurance  <u>Population</u> Families with children 8–15 years where at least one parent had a mood disorder the last 18 months  <u>Exclusion criteria</u> Parents in family therapy. Parents with drug abuse, schizophrenia. Children had been treated for mood disorder  <u>Follow-up time</u> Assessment pre, post, every 9–12 months (T3–T6) up to 4.5 years	I: Clinician-facilitated, n=46 families and 60 children  <u>Intensity</u> 6–10 sessions (mean 6.7; SD=1.3) plus phone contacts/refreshers every 6–9 months. Sessions directed to parents only, child only and family. The psycho-educational material was linked to the individuals' life experiences  <u>Drop out rate (4.5 years)</u> 18% children (14% adults)	C: Lectures, n=59 families and 78 children  <u>Intensity</u> 2 lectures (parents), not relating to family situation. Consultation as requested by parents  <u>Drop out rate (4.5 years)</u> 9% children (19% parents)	<u>YSR/YASR rating scale</u> Both groups improved by time  No significant differences between the interventions	Moderate  Intention-to-treat analysis, based on 156 youths in intervention group and 161 controls	<u>Competence of staff</u> Facilitated intervention: Licensed social workers or clinical psychologists trained in the method. Lectures: One of the authors  <u>Attendance</u> High  <u>Fidelity</u> High (95%)  <u>Gender analysis</u> Girls scored on average 3.7 points higher on YSR than boys did

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Clarke et al 2001 [39] USA	<p><u>Design</u> RCT</p> <p><u>Setting</u> Members in Kaiser Permanente HMO in Oregon</p> <p><u>Population</u> Adolescents in 2 995 families. Parents were identified to have depression via the HMO database. 481 families consented and participated in baseline interview. Predominantly white, employed parents</p> <p><u>Inclusion criteria</u> Adolescents, 13–18 years, with subdiagnostic levels of depressive symptoms (CES-D &gt;24)</p> <p><u>Follow-up time</u> 14 and 24 months</p>	<p><u>Intervention</u> CVS with parent component, n=45 CES-D at baseline: 25.2 (8.7)</p> <p><u>Intensity</u> Adolescents: 15 group sessions, 1 hour each Parents: 3 information meetings in the beginning, middle and end of the intervention</p> <p><u>Drop out rate at 24 months</u> 17% for the total sample. No systematic bias in drop out</p>	<p><u>Control</u> Usual care, n=49 CES-D at baseline: 23.8 (10.3)</p>	<p><u>CES-D at 14 months</u> I: 15.1 (10.0) C: 21.5 (13.6) p=0.006</p> <p><u>CES-D at 24 months</u> I: 19.5 (9.8) C: 19.9 (10.4) ns</p> <p><u>CBCL depression</u> No significant differences</p> <p><u>Incidence of episodes of MDD</u> <u>At 14 months</u> I: 9.3% C: 28.8% p=0.003</p> <p><u>At 24 months</u> I: 23% C: 34% “Still significant”</p>	<p>Moderate</p> <p>Blinded evaluators</p> <p>ITT analysis</p>	<p><u>Competence of staff</u> Therapist with a master’s degree, who was trained in the approach</p> <p><u>Integrity</u> Mean therapist compliance was 95.9% (audiotaping and rating of 2–3 sessions)</p> <p><u>Attendance rate</u> Average 9.5 sessions and 46% of the homework assignments</p> <p><u>Dose response</u> No significant dose effects could be detected</p> <p><u>Gender analysis</u> Not reported</p>

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Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Clarke et al 1995 [38]  USA	<p><u>Design</u> RCT</p> <p><u>Setting</u> Three suburban schools in USA</p> <p><u>Population</u> Adolescents in grade 9 and 10, screened for elevated depressed symptoms. n=1 652. n=172 (105 girls) fulfilled criteria and consented Mean age: 15.3 years (0.7) Predominantly white lower-middle class students</p> <p><u>Inclusion criteria</u> CES-D &gt;24</p> <p><u>Exclusion criteria</u> Current DSM-III affective disorder</p> <p><u>Follow-up time</u> Post, 6 months and 12 months</p>	<p><u>Intervention</u> CWS, n=76 CES-D at baseline: 24.29 (9.6)</p> <p><u>Intensity</u> Three 45 minutes sessions per week for five weeks</p> <p><u>Drop out rate at 12 months</u> 27.6%</p>	<p><u>Control</u> Care as usual, n=74 CES-D at baseline: 21.88 (9.2)</p> <p><u>Drop out rate at 12 months</u> 5.4%</p>	<p><u>CES-D at postintervention</u> I: 17.88 (9.3) C: 21.67 (12.3) p&lt;0.05</p> <p><u>At 6 months follow-up</u> I: 19.35 (10.0) C: 18.55 (11.2) ns</p> <p><u>At 12 months follow-up</u> I: 18.40 (9.3) C: 18.34 (11.0) ns</p> <p>No significant differences were found for HDRS or GAF</p> <p><u>Cumulative incidence of MDD or dysthymia at 12 months</u> I: 14.5% C: 25.7% p&lt;0.05</p>	<p>Moderate</p> <p>Skewed drop out rate. More participants in the I-group dropped out (p&lt;0.001). The remaining subjects reported higher depression scale scores than those who were lost</p> <p>Completers analysis only (125 participants)</p>	<p><u>Competence of staff</u> School psychologists and counselors. 40 hours of training</p> <p><u>Integrity</u> 93.9% compliance with the manual (range 77 to 100%)</p> <p><u>Attendance</u> Average 72% (SD 22%)</p> <p><u>Gender analysis</u> Yes</p>

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Dadds et al 1997 [9]	<u>Design</u> RCT, randomised at school level	<u>Intervention</u> The Coping Koala, n=61 Proportion with anxiety diagnosis: 68.9%	C: Standard curriculum, n=67 Proportion with anxiety diagnosis: 79.1%	<u>Proportion meeting criteria for anxiety</u> <u>At 6 months (ADIS-P)</u> I: 27% C: 56% p<0.001	<u>Study quality</u> Moderate  Clinicians conducting the ADIS-P were blinded	<u>Competence of staff</u> Clinical psychologists trained in delivering the program
Dadds et al 1999 [8]	<u>Setting</u> Eight primary schools in Brisbane. Schools were selected to represent the three levels of SES n=1 786 children in grades 3 to 7 (7 to 14 years)  <u>Population</u> At-risk children identified through a four step screening phase. Mean age: 9.4 years  <u>Inclusion criteria</u> Met criteria for a DSM-IV anxiety disorder with a severity rating ≤5 or had features of an anxiety disorder or a nonspecific sensitivity  <u>Exclusion criteria</u> Primarily externalizing behaviours  <u>Follow-up time</u> "Post test", 12 months and 24 months	<u>Intensity</u> Children: 10 group sessions, once a week, 1–2 hours each. Parents: 3 sessions  <u>Drop out rate</u> 6 months: 3.2% 24 months: 22.3%	<u>Drop out rate</u> 6 months: 4.5% 24 months: 22.3%	<u>At 12 months</u> I: 37% C: 42%  <u>At 24 months</u> I: 20% C: 39% p<0.05  <u>Proportion of children that were diagnosis free at preintervention and had an anxiety diagnosis</u> <u>At 6 months</u> I: 54% C: 16% p<0.05  <u>At 24 months</u> I: Approximately 10% C: Approximately 17%	Clinicians conducting the ADIS-P were blinded	<u>Integrity</u> Therapists met with the program leaders to review and discuss issues  <u>Attendance rates</u> Children: 80% Mothers: 58% Fathers: 30%  <u>Gender analysis</u> No significant gender-related effects

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Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Garber et al 2009 [40] USA	<p><u>Design</u> RCT</p> <p><u>Setting</u> Four cities n=2 494 families recruited from several sources (eg HMO)</p> <p><u>Population</u> n=316 (59% girls) Mean age: 14.8 years (1.4). Predominantly white middle-class (25% ethnical, racial minority)</p> <p><u>Inclusion criteria</u> 1) At least 1 parent with a history of major depression or dysthymia 2) Current sub- syndromal depres- sion (&gt;20 CES-D) or prior episode of depressive disorder</p> <p><u>Follow-up</u> 9 months</p>	<p><u>Intervention</u> CBT prevention program, n=159 CES-D at baseline: 15.5 (9.4)</p> <p><u>Intensity</u> 8 weekly sessions, 90 minutes followed by 6 monthly booster sessions</p> <p>Parent meetings week 1 and 8</p> <p><u>Drop out rate at 9 months</u> 11.3%</p>	<p><u>Control</u> Care as usual, n=157 CES-D at baseline: 15.8 (10.0)</p> <p><u>Drop out rate at 9 months</u> 8%</p>	<p><u>CDRS</u> No difference between groups</p> <p><u>Incidence of depression at 9 months</u> I: 21.4% C: 32.7% p=0.03</p> <p><u>CES-D at 9 months</u> I: 10.9 (8.4) C: 13.5 (8.3) p=0.03</p>	<p>Moderate</p> <p>Methodologically high but too short follow-up for high quality</p> <p>ITT-analysis Blinded evaluation Inter rater reliability level: <math>\kappa=0.80</math> required before start</p>	<p><u>Competence of staff</u> Therapists with at least a master's degree in a mental health field, trained and supervised by an experienced clinician</p> <p><u>Integrity</u> All sessions were audio- taped and 12% of the sessions were randomly chosen for evaluation. Therapist compliance ranged from 88 to 96%</p> <p><u>Attendance rate</u> Adolescents: Average 6.5 acute sessions and 3.8 booster sessions Parents: &gt;70% attended the sessions</p> <p><u>Gender analysis</u> Not reported</p>

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Hunt et al 2009 [37]  Australia	<u>Design</u> RCT, randomised at school level, effectiveness trial  <u>Setting</u> Metropolitan area, 19 secondary (catholic) schools  <u>Population</u> n=260 after screening of 1 120 students (43% girls) and parental consent. Mean age: 12 years  <u>Inclusion criteria</u> At-risk for deve- loping anxiety disorder, CDI cut-off >11. Teacher – nomina- ting of prominent anxious students. English speaking	<u>Intervention</u> FRIENDS with parent component, n=136  Baseline CDI: 14.3 (8.2) Baseline RCMAS: 15.9 (5.0)  <u>Intensity</u> 10 weekly 50 minutes group sessions and two booster sessions after 1 and 3 months (including parent sessions). Sessions were run during school hours  <u>Drop out rate</u> 2 years: 18.4% 4 years: 24.3%	<u>Control</u> No intervention, n=124  Baseline CDI: 12.6 (5.0) Baseline RCMAS: 14.5 (5.6)  <u>Drop out rate</u> 2 years: 5.6% 4 years: 30.6%	<u>CDI at 2 years</u> I: 11.6 (8.3) C: 11.4 (8.3) ns  <u>CDI at 4 years</u> I: 10.2 (8.1) C: 10.8 (8.5) ns  <u>RCMAS at 2 years</u> I: 11.3 (6.8) C: 11.3 (6.1) ns  <u>RCMAS at 4 years</u> I: 10.2 (6.5) C: 10.9 (6.5) ns  <u>Cumulative incidence of anxiety or mood disorder at 4 years</u> I: 34.2% C: 22.1% ns	Moderate  Treatment integrity data incomplete  CIDI interviewer blind to condition	<u>Competence of staff</u> School counsellor assisted by a support teacher, both attending a 2 day training workshop  <u>Fidelity</u> Moderate/high  <u>Attendance rate</u> Parent participation is unclear  <u>Gender analysis</u> Not reported

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Jaycox et al 1994 [3] USA	<u>Design</u> Prospective 5-year efficacy study, RCT randomisation within matched pairs of children	<u>Intervention</u> PPP, n=69 Girls: 34 Boys: 35 Mean age: 11.36 years 79.7% Caucasian	<u>Controls</u> Waitlist, n=24  Non-participation, group: n=50	<u>CDI</u> (Mean, SD) No significant differences between groups at "post test" and 6 months	Moderate  No ITT analysis  Risk for self-selection bias	<u>Competence of staff</u> The intervention was conducted by doctoral students in clinical psychology
Gillham et al 1995 [36]	<u>Setting</u> Schools in two districts in sub- urban Philadelphia.	<u>Intensity</u> Group sessions once a week for 1.5 hours. 12 weeks, the program included homework	The two groups were combined Girls: 32 Boys: 42	Significantly lower levels of CDI in the intervention group at 18 and 24 months. The significance disappeared at 30 and 36 months		<u>Fidelity</u> Detailed training manual, pilot-testing and supervising
Gillham et al 1999 [35]	>90% of parents had high school or college education  <u>Population</u> Children in 5th and 6th grades (n=1 600). Informed consent: n=262  <u>Inclusion criteria</u> At risk (depres- sive symptoms and parental conflict). All children with a z-score CDI + CPQ above >0.50 were invited to partici- pate. Some children with lower score were also invited. At risk: n=149  <u>Follow-up</u> Every 6 months up to 36 months is published	<u>Drop out rate</u> 6 months: 20% 24 months: 28% 36 months: 42%	Mean age: 11.5 years 85.3% Caucasian  <u>Drop out rate</u> 6 months: 15% 24 months: 33% 36 months: 36% (combined control group)  The control group had significantly higher levels of education and family income	<u>Proportion of children with CDI &gt;15 at 6 months follow-up</u> I: 14% C: 25%  <u>Parents (CBCL at 6 months)</u> No treatment effect when initial level of problems and school group effects were controlled (drop out rate 60%)		<u>Gender aspects</u> No main gender related effects

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Roberts et al 2003 [34]	<u>Design</u> RCT, cluster randomisation, matched pairs of schools, effectiveness	<u>Intervention</u> PPP adapted for Australian language	<u>Control</u> School as usual + symptom monitoring (parents were given advice for children who were above cut off for depression or anxiety)	<u>CDI</u> Both groups improved. There were no differences between groups at any of the measurements	Moderate for 18 months follow-up  Low for 30 months follow-up	<u>Competence of staff</u> Group facilitators were school psychologists and nurses who had received 40 hours training from the PPP developers
Roberts et al 2004 [33]  Australia	<u>Setting</u> 18 primary rural schools in Western Australia, selected to be representa- tive for the region  <u>Population</u> n=720. Seventh grades whereof 369 consented to screening  <u>Inclusion criteria</u> The 13 children with the highest CDI-scores in each class were invited to participate. In classes with <13 students all were invited  <u>Follow-up</u> "Post test", 6, 18 and 30 months	<u>Participants</u> n=90 (51% girls) Age: 11.91 years (0.34) Ethnicity: 70% Australian  <u>Intensity</u> 12 sessions run by educated psychologists or nurses as facilitators  <u>Drop out rate</u> 18 months: 16.5% 30 months: 55%	n=99 (49% girls) Ethnicity: 79% Australian  <u>Drop out rate</u> 18 months: 14% 30 months: 49%	<u>RCMAS</u> Both groups improved. PPP was significantly more effective than the control (p<0.01) at "post test", 6 and 30 months. There was no difference between groups at 18 months  <u>Proportion that received mental health help during follow-up</u> I: 9.3% C: 10.4% ns  <u>CBCL Internalising SCORE</u> Both groups improved over time. PPP was more effective than the control at "post test" but not at follow up (p<0.05)		<u>Program integrity</u> High (two independent raters reviewed sessions audiotapes)  <u>Attendance rate</u> High (87–99%)  <u>Gender analysis</u> Not reported

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Sheffield et al 2006 [20]  Australia	<p><u>Design</u> RCT, Cluster, stratified (also see Table 5.5 for universal prevention)</p> <p><u>Setting</u> 36 schools from 2 Australian states were selected to broadly represent the Australian population. Two schools dropped out before start of invention</p> <p><u>Population</u> n=2 479 (54% female)  High symptoms students scored in the top 20% on the combined scores of CDI and CES-D. n=521 (69% girls) Mean age: 14.34 years (0.46)</p> <p><u>Follow-up</u> "Post test" and 12 months</p>	<p><u>Intervention</u> Program consistent with PSFL, part of school curriculum, n=246 high risk population</p> <p><u>Intensity of indicated part of program</u> I1: Indicated prevention One session (90 min) weekly for eight weeks, in small groups, n=134  I2: Universal + indicated: Combined I1 and universal program over two terms, n=112</p> <p><u>Drop out rate</u> 15%</p>	<p><u>Control</u> Standard curriculum, n=149 high risk population</p> <p><u>Drop out rate</u> 19%</p>	<p><u>Effect on high-risk population</u> There was no significant difference between any of the four groups (measured as CDI and YSR)</p>	<p>Moderate</p> <p>The study was powered to detect medium effect sizes for the indicated prevention</p>	<p><u>Competence of staff</u> Ordinary teachers</p> <p><u>Fidelity (high)</u> The mean number of program elements completed each session was 92% for the indicated program</p> <p><u>Attendance rate</u> 75%</p> <p><u>Gender analysis</u> Not reported</p>

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Table 5.7 continued

Author Year Reference Country	Study design Setting Population Inclusion criteria Follow-up time	Intervention Population Drop out rate	Control Population Drop out rate	Outcome	Study quality Comments	Competence of staff Fidelity Attendance Gender analysis
Stice et al 2008 [41]  USA	<p><u>Design</u> RCT</p> <p><u>Setting</u> Recruitment from 6 high-schools. Setting: unclear</p> <p><u>Population</u> n=341 (44% boys) Mean age: 15.6 years (SD 1.2) Mixed ethnical (46% Caucasian, 33% Hispanics, 21% other) and SES composition (26% high school or less, 53% college or more), represen- tative of the popu- lation</p> <p><u>Inclusion criteria</u> CES-D &gt;20</p> <p><u>Exclusion criteria</u> Adolescents showing symptoms of major depression at interview</p> <p><u>Follow-up</u> 6 months</p>	<p><u>Interventions</u> I1: CB (adapted from Clarke 1995) [38]. Six weekly 1 hour- sessions, n=89 Drop out rate: 8 (9%)</p> <p>I2: Supportive- expressive (GSE). Six weekly 1 hour- sessions, n=88 Drop out rate: 6 (7%)</p> <p>I3: Bibliotherapy. Self-help book, n=80 Drop out rate: 4 (5%)</p>	<p><u>Control</u> Assessment only, n=84 Drop out rate: 7 (8.3%)</p>	<p><u>Self report (BDI) at follow-up</u></p> <p>I1: Mean: 12.18 (SD 9.56)</p> <p>I2: Mean: 13.10 (SD 10.25)</p> <p>I3: Mean: 15.73 (SD 10.36)</p> <p>Control: Mean: 17.22 (SD 10.93)</p> <p>Significant differences between control group and active treatments: I1: p=0.002 I2: p=0.021 I3: p=0.036</p>	Moderate	<p><u>Competence of staff</u> CB and supportive- expressive intervention: Clinical graduate students and assisting undergraduate</p> <p><u>Attendance rate</u> 55%</p> <p><u>Gender analysis</u> No</p>

ADIS-P = Anxiety Disorder Interview Schedule for Children Parent version; BDI = Beck Depression Inventory; C = Control; CBCL = Children's Behaviour Check List; CBT = Cognitive behavioural therapy; CDI = Children's Depression Inventory; CDRS = Children's Depression rating scale; CES-D = Center for Epidemiologic Studies Depression Scale; CIDI = Composite International Diagnostic Interview; CPQ = Children's Personality Questionnaire; CWS = Coping with Stress; DSM = Diagnostic and Statistical Manual of

Mental Disorders; GAF = Global Assessment of functioning; GSE = Supportive expressive group treatment; HMO = Health Maintenance Organization; I = Intervention; ITT = Intention-to-treat; MDD = Major depressive disorder; PPP = Penn Prevention Program; PSFL = Program Solving for Life; RCMAS = Revised Children's Manifest Anxiety Scale; RCT = Randomised controlled trial; SD = Standard Deviation; SES = Socio economic status; YASR = Young Adult Self Report; YSR = Youth Self Report; ns = Not significant

**Tabell 5.8** Sammanställning av systematiska översikter, internaliserade problem.

Författare År, referens Land	Program, urval och antal inkluderade studier	Inklusionskriterier	Kvalitetskriterier	Resultat "post test" för effekter på barnet	Långtidseffekter	Kommentarer
Kavanagh et al 2009 [61]  England	Skolbaserade KBT- baserade program för att förebygga depression, ångest och självmordsbete- ende  17 RCT	Ålder: 11–19 år	Nej	Depressiva symtom SMD –0,16 (95% KI –0,26 till –0,05)	Universella: Ingen effekt efter 4 veckor  Indikerade: SMD –0,25 (95% KI –0,42 till –0,08) efter 6 månader	4/13 inkluderade studier om depression ingick i vår granskning och hade medel- hög kvalitet
Cuijpers et al 2008 [62]  Nederländerna	Prevention av depression  1966–juni 2007  MEDLINE, PsycInfo, EMBASE, Cochrane Central Register Digital dissertations  Inga språkbegräns- ningar  19 RCT	Alla åldrar Alla preventions- nivåer Standardiserad diagnostisk intervju vid baseline för att utesluta individer som uppfyllde kriterier för depression	Enligt Cochranes handbok (randomi- sering, blindning, bortfall)	<u>Incidence risk ratio</u> <u>Ungdomar (9 studier)</u> IRR 0,77 (95% KI 0,57 till 1,04)  <u>Skola (6 studier)</u> IRR 0,83 (95% KI 0,61 till 1,12)	Effekterna minskade med tiden	Effekterna sammanslagna för alla preventionsnivåer
Stice et al 2009 [52]  USA	Prevention av depression  1980–2008  PsychInfo, Medline, Dissertation abstracts  46 kontrollerade studier	Barn och ungdom	Ej rapporterat	r=0,14 (medelvärde)	r=0,11 (medelvärde)	

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Tabell 5.8 fortsättning

Författare År, referens Land	Program, urval och antal inkluderade studier	Inklusionskriterier	Kvalitetskriterier	Resultat "post test" för effekter på barnet	Långtidseffekter	Kommentarer
Merry et al 2004 [63]  Nya Zeeland	Prevention av depression  1966–2002  Medline, PsycInfo, ERIC, EmBase  21 RCT varav 13 hade data som kunde poolas i metaanalys	Barn och ungdom, 5–19 år  Ingen diagnos på depression vid inklusion	Moncrieffs kriterier. Känslighetsanalys gjordes med enbart studier som hade hög eller måttlig kvalitet	<u>Depressions-score</u> <u>Universell</u> SMD –0,21 (95% KI –0,48 till 0,06)  "Targeted" SMD –0,26 (95% KI –0,40 till –0,13)  <u>Diagnos på depression</u> <u>Universella</u> Riskminskning –0,08 (95% KI –0,15 till –0,01)  <u>Selektiva + indikerade</u> Riskminskning –0,13 (95% KI –0,22 till –0,05)	Ingen effekt på depressionspoäng eller diagnos	Inget krav på uppföljning
Calear et al 2009, [57] Australien	Skolbaserade program för att förebygga depression  Medline, PsycInfo, Cochrane Library  1998–2008  "Peer – reviewed" tidskrifter på engelska enbart  42 RCT uppfyllde inklusionskriterierna varav 29 hade någon form av uppföljning	Barn och ungdom, 5–19 år  Minska eller före- bygga symtom på depression	Jadads kriterier (randomisering, blindning, bortfall)	<u>Universella program</u> 9/23 studier visade effekt: Cohen's d=0,30–1,40 medan 14/23 inte såg effekt  <u>Indikerade program</u> 6/10 visade effekt: Cohen's d=0,25–1,35) 4/10 fann ingen signifikant effekt	<u>Universella program</u> 4/16 studier såg effekt Cohen's d=0,21–0,66 12/16 såg ingen signi- fikant effekt (–0,05– 0,73)  <u>Indikerade program</u> 6/9 rapporterade signifikanta effekter Cohen's d=0,33–1,00	Långtidseffekter räknat från 3 månader  Effektstorlekarna är inte rättvisande eftersom de enbart beräknas på studier med positivt resultat  Studierna med störst effekt hade låg kvalitet i SBU- granskningen

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**Tabell 5.8** fortsättning

Författare År, referens Land	Program, urval och antal inkluderade studier	Inklusionskriterier	Kvalitetskriterier	Resultat "post test" för effekter på barnet	Långtidseffekter	Kommentarer
Neil et al 2009 [58]  Australien	Skolbaserade program för prevention eller tidig behandling av ångest  Medline, PsycInfo, Cochrane Library  1987–2008  "Peer-reviewed" engelskspråkig tidskrift  27 RCT uppfyllde inklu- sionskriterierna varav 12 hade någon form av uppföljning	Barn och ungdom, 5–19 år  Minskad symtom och incidens av ångest	Jadads kriterier	<u>Universella program</u> 11/16 studier visade effekt, Cohen's d varierade mellan 0,31–1,37  <u>Indikerade program</u> 4/8 visade effekt; Cohen's d varierade mellan 0,20–0,76	<u>Universella program</u> 6/16 studier hade upp- följning och 3 visade effekt, Cohen's d varierade mellan 0,22–0,70  <u>Indikerade program</u> 6/8 hade uppföljning och 5 visade effekt, Cohen's d varierade mellan 0,22–0,70	Långtidseffekter räknade från en månad  Effektstorlekarna är inte rättvisande eftersom de enbart beräknas på studier med positivt resultat

IRR = Incidence risk ratio; RCT = Randomised controlled trial; SMD = Standard Mean difference