ABSTRACT—This article reviews empirical evidence for the efficacy of psychosocial interventions for school refusal behavior. Data corresponding to 8 experimental single-case and 7 group-design studies are presented. Across studies, behavioral and cognitive-behavioral treatments emerged as promising lines of intervention. These interventions produced improvements in school attendance and youths’ symptom levels (e.g., anxiety, fear, depression, anger) based on this study’s examination of effect sizes. The article concludes with suggestions for interventionists, researchers, and policy makers attempting to deal with the problem of school refusal.

KEYWORDS—school refusal; dropout; treatment; prevention; children

Although research on school refusal behavior in children and adolescents has a long history (e.g., Berg, Nichols, & Pritchard, 1969; Broadwin, 1932), this area has received increased attention in recent years (e.g., Berg & Nursten, 1996; Chiland & Gerard, 1990; King, Ollendick, & Tonge, 1995; Silverman & Pina, 2007). Silverman and Kearney (e.g., Kearney, 2007; Kearney & Silverman, 1990, 1993) offer what can be considered the most comprehensive conceptualization of school refusal behavior. According to this conceptualization, school refusal behavior is a child’s refusal to attend or stay in school, motivated by the desire (a) to avoid school-based stimuli that provoke negative affectivity (e.g., anxiety, depression), (b) to escape aversive social or evaluative situations (e.g., difficulty making friends or talking to others in class or in front of the class), (c) to get attention from significant others (e.g., parents), and/or (d) to pursue tangible reinforcers outside school (e.g., going to the mall; Kearney & Albano, 2004; Kearney & Silverman, 1996).

One reason why school refusal behavior has recently received increased attention is the accumulating evidence of potentially severe negative outcomes associated with it. Not surprisingly, school refusers exhibit poor academic achievement partially due to high levels of school absenteeism (e.g., Lamdin, 1996). Moreover, school refusers often miss important school-related developmental experiences (e.g., Chavez, Belkin, Hornback, & Adams, 1991) and are at risk for dropping out of school (Alexander, Entwisle, & Kabbani, 2001; Rumberger, Ghatak, Poulos, Ritter, & Dornbusch, 1990).

The research literature also shows that school refusers tend to exhibit poor social skills and social isolation (e.g., Place, Hulsmeier, Davis, & Taylor, 2002). They often reside in homes with high levels of family conflict and tend to report low self-efficacy for coping with stressful situations (e.g., Bernstein & Borchardt, 1996). These psychosocial factors likely place school refusers at increased risk for additional maladaptive outcomes, including poor mental health. Specifically, some youth with school refusal behavior have been found to meet Diagnostic Statistical Manual for Mental Disorders (American Psychiatric Association, 1994) criteria for separation anxiety disorder, social phobia, and/or depression (Lyon & Cotler, 2007).

Due to the above-mentioned risks and the high prevalence of school refusal behavior, estimated to be as high as 35% (Burke & Silverman, 1987; Canino, Gould, Prupis, & Shaffer, 1986), efficacious interventions for this problem have the potential to produce large public health benefits. This article summarizes progress toward this goal by reviewing empirical evidence regarding the efficacy of interventions designed to target school refusal behavior in children and adolescents. More specifically, the article presents data corresponding to each of the studies selected for inclusion, as well as effect sizes.
(calculated when feasible). The article also includes an evaluative summary of this research with an eye toward critical unresolved issues. Suggestions for interventionists, researchers, and policy makers also are offered.

**PSYCHOSOCIAL INTERVENTIONS FOR SCHOOL REFUSAL BEHAVIOR**

**Search and selection of studies**

To identify interventions for school refusal behavior, a search using “school refusal” as keywords was conducted of English-language, peer-reviewed journal articles reporting data on school-age youth (5–17 years old). This search resulted in 242 articles, 67 of which were identified as possible intervention articles. Two evaluators coded the 67 articles as either single-case experimental design studies (Barlow & Hersen, 1976) or group-design studies (studies comparing two or more conditions using randomized or nonrandomized procedures; Rubin, 1974). The two evaluators independently rated all articles using standardized coding sheets. Discrepancies in the classifications were discussed between the two raters and the first author, with the classification viewed as “final” once full consensus was attained among all parties. Based on these procedures, 44 clinical anecdotal case studies were excluded, as well as 8 articles reporting on the use of pharmacological agents for reducing school refusal behavior. The remaining 15 articles were included in the review, 8 single-case experimental design studies and 7 group-design studies. The overall kappa coefficient of agreement between the two evaluators for this classification was .89.

**Psychosocial intervention studies**

Evaluation of the selected studies revealed that most of the intervention research literature focused on the question of whether behavioral and cognitive strategies can effectively reduce symptoms associated with school refusal and increase school attendance. More specifically, Table 1 shows that all interventions tested in experimental single-case design studies used behavioral strategies such as positive reinforcement for gradual exposures to time at school or in the classroom (e.g., Brown, Copeland, & Hall, 1974; Gosschalk, 2004; Hagopian & Slifer, 1993; Houlihan & Jones, 1989; Moffsitt, Chorpita, & Fernandez, 2003) and social skills training for handling school situations (Esveldt-Dawson, Wisner, Unis, Matson, & Kazdin, 1982; Moffitt et al., 2003).

Five of the single-case design studies tested single procedures (i.e., Brown et al., 1974; Chorpita, Albano, Heimberg, & Barlow, 1996; Hagopian & Slifer, 1993; Houlihan & Jones, 1989; Kolko, Ayllon, & Torrence, 1987), and the remaining three studies tested a combination of procedures or an intervention “package” (see Table 1; i.e., Esveldt-Dawson et al., 1982; Gosschalk, 2004; Moffitt et al., 2003). In each of these eight studies, a single participant was targeted in the intervention (N = 1), and across studies all youth showed improvements in school or classroom attendance relative to baseline. Additionally 5 of the 8 studies assessed other child behaviors (e.g., anxiety, depression, anger) using behavioral observations or questionnaires completed by the parent, child, or both. Findings showed improvement on these additional child behaviors relative to baseline in all cases and for each type of outcome (see Table 1). Last, all experimental single-case studies reported long-term outcome data showing that intervention gains were maintained. Altogether, these eight studies showed that behavioral and cognitive strategies, whether implemented as a single component or as an intervention package, can effectively reduce symptoms associated with school refusal and increase school attendance. It is noteworthy, however, that follow-up periods in these studies were short (i.e., 5–12 months), so further data are necessary before firm conclusions can be drawn about the robustness of these intervention procedures for improving school attendance.

Most of the seven group-design studies included for review in this article tested a combination of procedures or an intervention “package” that included behavioral and cognitive strategies (Berg and Fielding, 1978, and Blagg and Yule, 1984, also reported on the effects of hospitalization, which included schooling, psychotherapy, and use of tranquilizers). Briefly, behavioral strategies across the interventions included in vivo exposures to feared stimuli or situations related to school, relaxation training, and contingent reinforcement for school attendance; cognitive strategies included recognizing and clarifying distorted cognitions and attributions and devising coping plans. Across these studies, youth showed improvements in school or classroom attendance relative to pretest scores. Additionally, questionnaire data reported by the parent, child, or both indicated improvements in other areas (e.g., anxiety, depression, externalizing problems, self-efficacy for handling school situations). Last, follow-up data showed that intervention gains were generally maintained, although it is important to note that only two studies had follow-ups that extended to 12 and 24 months, whereas the remaining four studies had follow-ups ranging from 2 weeks to 6 months. In essence, these seven studies confirmed that behavioral and cognitive strategies can reduce school refusal and related symptoms, at least at the immediate posttest and short-term follow-up.

Two additional questions addressed by the body of research reviewed in this article were (a) whether behavioral and cognitive strategies, particularly individual cognitive-behavioral therapy (ICBT), are more efficacious than a psychological “placebo” (i.e., Education Support [ES]) and (b) whether behavioral and cognitive strategies are more efficacious in reducing symptoms and increasing attendance rates under certain conditions (e.g., when parents and teachers are involved in the intervention). As shown in Table 2, in their examination...
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<tr>
<th>Study</th>
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<th>Design/conditions</th>
<th>Outcome at immediate posttest</th>
<th>Long-term outcome</th>
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<tr>
<td>Brown et al. (1974)</td>
<td>11-year-old boy. Problem defined as school absenteeism (51 days absent in 4th and 5th grades)</td>
<td>Baseline of time spent in hall or library and time spent in classroom. Reinforcement for 22 days contingent on spending time in hall or library and then for time in classroom</td>
<td>Relative to baseline, time in hall and library improved (time in classroom did not). When targeted, time in classroom improved</td>
<td>At 45- and 55-week follow-ups, average time in the classroom was above baseline</td>
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<tr>
<td>Esveldt-Dawson et al. (1982)</td>
<td>12-year-old Caucasian inpatient girl with DSM–III SOP. Problem defined as avoidance of school</td>
<td>Baseline of school phobia behaviors, phobia of unfamiliar males and of appropriate behaviors. The 10- to 15-week intervention entailed 10 role-play situations with therapist modeling the behavior and child acting the situation with feedback and reinforcement</td>
<td>Relative to baseline, school phobia behaviors decreased (stiffness, nervous mannerisms, anxiety) and appropriate behaviors increased (eye contact, affect, movement, social skills)</td>
<td>Gains were maintained relative to baseline 7 and 21 weeks after discharge. Moreover, parents reported the child was attending school regularly</td>
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<tr>
<td>Houlihan and Jones (1989)</td>
<td>13-year-old boy with DSM–III–R OAD and Dysthymia. Problem defined as school nonattendance (159 days absent in 6th grade)</td>
<td>Baseline of number of hours child attended school. The 27-week intervention started with a discussion of positive aspects of school followed by graduated in vivo exposures to homeroom class, to eating in the cafeteria, and then to the child's other classes</td>
<td>Relative to baseline, hours of school attendance increased. There also was improvement on academics and depressive symptoms, but the child still met criteria for the diagnoses</td>
<td>The intervention was discontinued at the end of the school year. Over the next school year, school attendance and academic achievement remained above baseline levels</td>
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<td>Hagopian and Slifer (1993)</td>
<td>6-year-9-month-old Caucasian girl with DSM–III–R SAD. Problem defined as school avoidance after holiday break</td>
<td>Concurrent baseline of time in class and in Girl Scout meetings without mother. The 10-week intervention used exposures to separation from mother with contingent reinforcement. Minimal attention was provided to the child's anxiety at home and her crying. A similar schedule was used to increase time sleeping in own bed</td>
<td>Relative to baseline, time in class increased and so did time in Girl Scout meetings. There were improvements on RCMAS and CDI. Depressed and somatic complaints returned to the normal range and so did CBCL social withdrawal, hyperactive, and aggressive behaviors. SAD was not present</td>
<td>At the 2- and 9-month follow-ups, all gains were maintained</td>
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<td>Chorpita et al. (1996)</td>
<td>10-year-2-month-old Caucasian girl with DSM–III–R SAD and SOP. Problem defined as crying, poor appetite, restless sleep, and enduring school with marked distress</td>
<td>Baseline of somatic complaints, anger and tantrums, tears, and other complaints. The five-session intervention instructed parents to ignore the problem behaviors then a reinforcement schedule for behaviors functionally equivalent to the target problem behaviors was implemented. In-session role-play training was delivered to the mother</td>
<td>Relative to baseline, somatic complaints, anger and tantrums, and crying decreased to zero frequency and generally remained at reduced levels. Other complaints had decreased to zero after crying was targeted</td>
<td>At the 2-week follow-up, the frequency of targeted (and the nontargeted) behaviors was maintained at zero. The child no longer met criteria for SAD or SOP. At the 24-month follow-up, gains were maintained</td>
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<td>Gosschalk (2004)</td>
<td>5-year-4-month-old Australian girl with DSM–IV–TR SAD. Problem defined as crying and refusal to attend preschool</td>
<td>Baseline of school attendance. The 7-week intervention used relaxation for sleep and during daytime. A routine for separation at the classroom door and extinction of crying/ protests were used. Reinforcement of time away from mother at home</td>
<td>Relative to baseline, the percentage of total numbers of preschool attendance days and separation from mother improved. There was also improvement on mother-rated DSF. SAD was not present</td>
<td>At the 4- and 12-month follow-up, all gains were maintained</td>
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<td>Kolko et al. (1987)</td>
<td>6-year-old Caucasian girl. Problem defined as crying and begging not to be taken to school</td>
<td>Baseline data were not reported. The 8-week intervention used exposures to the classroom with adult. Next, a 5-week positive practice routine, in which the child worked in the principal’s office, was implemented</td>
<td>Exposure with adult resulted in no improvements. Positive practice resulted in improvements on class attendance without adult, social involvement, and academic grades</td>
<td>At the 1- and 12-month follow-up, all gains were maintained</td>
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<td>Moffitt et al. (2003)</td>
<td>12-year-old Hawaiian and Caucasian girl with DSM–IV MDD, SOP, and SAD. Problem defined as absences, tantrums, and escaping school</td>
<td>Baseline of class attended. University clinic-based and school-based ICBT (psychoeducation, graduated exposures, contingency management, cognitive restructuring, modeling, and role playing) with problem solving</td>
<td>Relative to baseline, ICBT with problem solving increased the percentage of classes attended</td>
<td>At the 1-month follow-up, the child was diagnosis free, and at the 5- and 8-month follow-ups, CDI, RCMAS, and RCADS were not in the clinical range. CBCL was in the normal range at the 8-month follow-up</td>
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Note. DSM = Diagnostic Statistical Manual for Mental Disorders; SOP = social phobia; OAD = overanxious disorder; GPA = grade point average; SAD = separation anxiety disorder; RCMAS = Revised Children’s Manifest Anxiety Scale (Reynolds & Richmond, 1978); CDI = Child Depression Inventory (Kovacs, 1992); CBCL = Child Behavior Checklist (Achenbach, 1991a); DSF = Devereux Behavior Rating Scales–School Form (Naglieri, LeBuffe, & Pfeiffer, 1993); MDD = major depressive disorder; ICBT = individual cognitive behavior therapy; RCADS = Revised Children’s Anxiety and Depression Scale (Chorpita, Yin, Moffitt, Umemoto, & Francis, 2000).
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<tr>
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<th>Follow-up</th>
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<td>Berg and Fielding (1978)</td>
<td>N = 32, about 13 years old, 16 girls</td>
<td>Randomized to 3-month (n = 16) or 6-month (n = 16) supportive psychotherapy, social skills training, milieu therapy, and family therapy delivered at a hospital (inpatient psychiatric unit)</td>
<td>At posttest, there were no significant group differences on Junior EPI, Mother EPI, actual SADQ, or three subscales of the preferred SADQ (affection, communication, and travel). Mothers of children in the 3-month condition reported higher ratings on the preferred SADQ assistance subscale.</td>
<td>At the 6-, 12-, and 24-month follow-ups, the rates of “well or much improved” based on clinicians' report were about 45%, 50%, and 55%, respectively.</td>
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<td>Blagg and Yule (1984)</td>
<td>N = 66, ages 11–16 years, 33 girls</td>
<td>Behavioral treatment (BTA, n = 30), hospitalization (HU, n = 16), home tuition and psychotherapy (HT, n = 20). Nonrandomized. Duration in weeks: BTA = 2.53, HU = 45.3, HT = 72.1</td>
<td>Posttest data were available from the BTA and the HU conditions. Both conditions improved on EPQ extraversion and neuroticism, with no differences between the two conditions. HU improved significantly on self-esteem but BTA did not. There were no significant improvements on EPQ psychotism or lie scale scores.</td>
<td>At 1-year follow-up, 93.3% in BTA, 37.5% in HU, and 10% in HT returned to school full time (BTA &gt; HU; BTA &gt; HT). No questionnaire data were reported.</td>
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<td>Last et al. (1998)</td>
<td>N = 56, ages 6–17 years, 28 girls,</td>
<td>Randomized to ICBT (n = 32) or Education Support (n = 24). Delivered at a university-based clinic. Duration: 12/12 sessions/weeks</td>
<td>From pretest to posttest, ICBT and Education Support improved on mean percentage of hours spent in class, STAIC and CDI with no differences between the two conditions.</td>
<td>At 4-week follow-up, gains were maintained with no differences between conditions on attendance. STAIC and CDI data were not reported.</td>
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<td>Kearney and Silverman (1999)</td>
<td>N = 8, mean age 11.2 years, 3 girls</td>
<td>Prescriptive ICBT (n = 4) or nonprescriptive ICBT (n = 4). Delivered at a university-based research clinic. Nonrandomized. Duration: Prescriptive = 3–10 sessions, Nonprescriptive = 5–7 sessions.</td>
<td>From pretest to posttest, there were improvements in percentage of time out of school, FSSC–R, FSSC–R school items, RCMAS, CDI, PHSCS, child/parent daily anxiety ratings, child/parent daily depression ratings, CBCL–I/E, and TRF–I/E.</td>
<td>At the 6-month follow-up, gains were maintained across all measures, except for parent daily anxiety ratings, parent daily depression ratings, and percentage of time out of school, but these remained below baseline levels.</td>
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(Continued)
At 2-week follow-up, gains were maintained. King et al. (2001) reported 3- to 5-year follow-up data and gains on attendance were maintained. From pretest to posttest, ICBT + PTT improved SEQSS, RCMAS, CDI, and Fear Thermometer ratings tied to “Going to school the next day,” as did Randomized to ICBT (n=21), ICBT + PTT and PTT improved school attendance more than ICBT at a medical center. Duration: 8/16 session/weeks.

Heyne et al. (2002) N=65, ages 7–14 years, 28 girls Randomized to ICBT with Parent and Teacher Training (ICBT + PTT, n=17). Delivered at a school refusals specialty clinic. Duration: 6/4 sessions/weeks. Study Sample characteristics Conditions Outcome at immediate posttest Follow-up

From pretest to posttest, CBT + PTT and PTT improved on number of full days present at school, SEQSS, RCMAS, FSSC–II, CDI, and Fear Thermometer ratings tied to “Going to school the next day,” as did Randomized to PTT (n=20), PTT (n=20) delivered at a medical center. Duration: 6/4 session/weeks. From pretest to posttest, ICBT + PTT, ICBT, and PTT improved school attendance more than ICBT, and ICBT + PTT improved school attendance more than that of other two intervention conditions. To examine change as indexed by effect sizes, research results per study were cumulated across measures. Effect sizes for the experimental single-case design studies were not calculated because each study comprised 1 participant. (Also, none of the studies used equivalent intervention procedures, so data from them could not be cumulated across studies.) Effect sizes for the group-design studies were calculated, but only for those studies that included pretest and posttest data. Two types of effect sizes were calculated. First, we focused on effect sizes corresponding to school attendance rates. Second, we considered the d-value effect size (d) as a standardized index of the mean intervention-related improvement in continuous outcome measures (e.g., anxiety, depression). To estimate an effect size, we calculated the difference in the outcome measures between pretest and posttest for the control and experimental conditions separately. The difference between these two differences was divided by the largest standard deviation (across the four standard deviations) to obtain a conservative index of treatment effect (Lipsey & Wilson, 2001).

Effect sizes for efficacy indexed as the percentage of school attendance at posttest were estimated for the four studies that reported posttest school attendance data (i.e., Heyne et al., 2002; Kearney & Silverman, 1999; King et al., 1998; Last et al., 1998). At posttest, youth were attending school about 75% of the time (p=.75); their average school attendance before treatment was 30%; however, intervention effects ranged from 47% to 100% school attendance. Results from the calculation of effect...
sizes for continuous variables (i.e., symptom measures) are presented in Table 3. King et al. (1998) compared ICBT that included Parent and Teacher Training (PTT) with a wait-list control condition. PTT consisted of basic training for parents and teachers in child behavior management strategies (e.g., planning the process for escorting the child to school, administering positive reinforcement for coping behavior and attendance), as well as cognitive therapy to help parents manage their own anxiety and understand their role in affecting change in their child’s behavior. The comparison between ICBT with PTT and the wait-list yielded a statistically significant positive effect for ICBT with PTT ($d = .93$), suggesting that cognitive-behavioral strategies can effectively reduce symptoms associated with school refusal. However, treatment effects ranged from .20 to 1.66, and thus, further research is needed to identify potential moderators of treatment response. As noted above, Last et al. (1998) found no differences between ICBT and ES, and youth in both conditions showed significant improvements. For Last et al., the effect size comparing the two conditions was small and nonsignificant ($d = -.07$).

Heyne et al. (2002) examined the relative efficacy of ICBT with PTT by comparing an ICBT + PTT condition with a PTT condition and also with an ICBT condition. They found that youth improved significantly across all three conditions, and an examination of effect sizes showed that ICBT with PTT had a lesser effect than PTT ($d = -.26$, $SD = .47$) and a greater effect than ICBT ($d = .19$, $SD = .46$), although these differences did not reach statistical significance. This result is interesting because it suggests that PTT may be more efficacious than what is typically considered the standard treatment (i.e., ICBT). Kearney and Silverman’s (1999) examination of ICBT entailed comparing a prescriptive ICBT targeting the function of the child’s school refusal behavior with a nonprescriptive ICBT program. In this study, the advantage of the prescriptive over the nonprescriptive approach was “large” ($d = 4.64$). However, treatment effects ranged from $-2.33$ to $11.62$, with effects being greater on some domains (e.g., anxiety) than others (e.g., depression), highlighting again that further research is necessary to better understand behavior change in the treatment of youth with school refusal behavior.

The two other group-design studies included in the review (Berg & Fielding, 1978; Blagg & Yule, 1984) reported on youth who had received hospitalization for school refusal behavior. However, only Blagg and Yule (1984) reported data that allowed a calculation of effect sizes, which yielded a small and nonsignificant effect size ($d = .03$) in favor of behavioral treatment compared with hospitalization (youth improved significantly in both conditions). Because hospitalization requires more resources, it could be contended that behavioral treatment should be a first line of intervention prior to hospitalization; however, it is important to recognize that additional efficacy and cost-effectiveness data are needed before offering any recommendations.

Overall, it is evident that the field has made progress in important ways to secure evidence-based interventions for school refusal behavior. Data from the studies reviewed in this article showed that behavioral and cognitive strategies can effectively reduce symptoms associated with school refusal and increase school attendance (e.g., Hagopian & Slifer, 1993; King et al., 1998). However, it is less clear whether and how interventions can be made more efficacious for targeting school refusal behavior. Additional studies are certainly needed in this area. One potential avenue advocated by Kearney and Silverman (1990, 1999) is to focus on targeting the function of the child’s school refusal behavior. Another avenue is to target the child’s behavior vis-à-vis training the parent and teacher, as done by Heyne et al. (2002). As evidence continues to accumulate, the field will find itself in a better place to identify which interventions are most efficacious at reducing school refusal and its deleterious consequences, how these interventions can be refined to maximize their public health impact, and which children and adolescents are most likely to benefit.
EVALUATIVE CONCLUSIONS

Based on this review of eight experimental single-case design studies and seven group-design studies, behavioral strategies alone and behavioral strategies in combination with cognitive strategies seem promising for reducing school refusal behavior. In both experimental single-case and group-design studies, behavioral and cognitive-behavioral strategies produced significant improvements in school attendance and youths’ symptom levels (e.g., anxiety, fear, depression, disruptive behavior problems). These positive findings were consistent with this article’s examination of effect sizes using data from five of the seven group-design studies. The main effect size findings were twofold: (a) school attendance and youths’ symptom levels can be improved significantly with existing treatments, although there is room for improving efficacy, and (b) positive change in school refusal behavior can be achieved when the child and/or the parents and teachers are trained to manage the behavior.

However, evidence is lacking for the superiority of delivering a child-focused intervention versus an intervention that involves parent and teacher training. The effect size findings presented in this article should be viewed with caution due to significant variability. Although this variability might be due to the strategy used for cumulating these data, it also might be the case that intervention effects are moderated in important ways. Thus, a critical next step is the examination of moderators of child behavior change. For example, it might be the case that youth who have difficulty making friends have worse outcomes with respect to attending or staying in school than do their more socially skilled counterparts. Consequently, answering questions about the conditions under which interventions are least or most efficacious (e.g., when youth are more/less socially skilled) is an important direction for future research.

Another critical next step is examining factors that mediate change in school refusal behavior interventions. For example, it might be the case that increases in youths’ perceived self-efficacy for handling school situations (e.g., academic stressors) over the course of the intervention mediate improvements in school attendance. If so, an important component of training community providers (e.g., school counselors, social workers) may be to teach them to target this mediator (i.e., perceived self-efficacy for handling school situations) rather than to implement a specific intervention program. Knowledge of mediators could be key for exporting evidence-based school refusal behavior interventions from research settings to community settings and into the hands of service providers.

Despite the progress that has been made in developing and testing interventions for school refusal behavior, research evidence is largely based on samples of youth who met diagnostic criteria for mental health problems. As found in several studies (e.g., Berg et al., 1993; Egger, Costello, & Angold, 2003), significant proportions of school refusers do not meet criteria for a diagnosis at all. Because these youth are underrepresented in the literature, there is little empirical evidence showing whether school refusal behaviors can be effectively reduced in these youth. Consequently, intervention studies with this segment of school refusers also are critical. Another underrepresented group is youth who refuse to attend school in order to pursue tangible reinforcers outside school (e.g., staying home to watch television, to go to the mall, or to work). One reason for this underrepresentation is that some of those youth may be labeled “truant” and thus are seen as deviant and deserving of punishment rather than social services (Lyon & Cotler, 2007). Although it might be the case that youth who refuse to attend school in order to pursue reinforcers require different interventions (rather than the ones evaluated in the studies reviewed), this question remains an empirical one and thus a future research objective.

In summary, progress has been made to secure evidence-based psychosocial interventions for school refusal behavior, although it is limited to youth who present with mental health problems. As such, a great deal of work remains to be conducted and various avenues for future research exist. In light of the generally positive findings revealed by the studies reviewed in this article, interventionists (e.g., school counselors, social workers) should consider training in the implementation of behavioral and cognitive strategies (e.g., graduated exposure, contingent reinforcement). Finally, it seems critical that policymakers work to augment funding to advance the development and evaluation of school refusal behavior interventions. This is particularly important in the contexts of the supplemental services mandated by the No Child Left Behind Act of 2001 (Public Law 107-110) to promote school engagement and reentry as well as to prevent school dropout.

REFERENCES


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