

Summaries of research on mental health services for children and adolescents and their families

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In this article, the authors review the published research on school interventions and call attention to the dearth of research on interventions that target both mental health and academic outcomes. A literature review of 64 articles targeting the effectiveness of school-based interventions that met methodological criteria revealed only 24 articles that examined outcomes for both mental health and academic programs. Of these 24 interventions, 15 revealed a positive impact on both mental health and academic outcomes (see Table 1).

Despite studies of school context and its effect on both learning and mental health, the numerous reviews of evidence-based or empirically validated school-based mental health practices have largely ignored academic functioning as an outcome of interest. In fact, the evidence-based practice "movement" in mental health as applied to schools has operated in relative isolation from both educational research and from the key policy and practice issues that drive school ecology. (p. 67)

The Medline, PsychINFO, and ERIC search engines were used to identify over 2,000 peer-reviewed articles published between 1990-2006 about the effectiveness of school-based mental health interventions. Of these, 64 studies used a prospective, longitudinal design, had random assignment or a quasi-experimental design, and were conducted in public schools. A little over one-third (37.5%; n = 24) of the 64 studies reported on the outcomes of interventions that targeted both mental health and academic outcomes, and 40 articles reported on mental health outcomes only. Of the 24 programs identified, 15 interventions showed statistically significant, positive effects for both mental health and academic outcomes (although some effects were quite modest). These 24 interventions are the focus of the current article.

Most studies of mental health outcomes included self-, peer-,teacher- or parent-reported measures of social competence, aggression or problem behaviors, while academic outcomes included academic scores and school attendance. Most interventions were for kindergarten and elementary students, had a preventative model, and focused on prosocial, aggressive, and anti-social behaviors. This interest in young children's positive mental health and academic outcomes is consistent with findings by the Conduct Problems Prevention Research Group (see Table 1, and Data Trends nos. 23, 39 & 126), which suggests that children at high-risk for conduct problems can be identified during these early school years. Some studies sought to understand the dose-outcome relationships of the interventions, and suggest that more (and longer) longitudinal research needs to be done in order to capture various levels of risk factors that may change throughout a child's academic career.

Further, the authors identify a need for multi-tiered intervention approaches in schools, "where varying levels of service intensity are available over time and in different grades for students, especially during transitional periods" (p. 88). It is unfortunate that most of the interventions reviewed did not produce lasting effects. The authors report that results were largely modest, and did not hold over time. However, because the majority of studies focused on a narrow band of academic outcomes (e.g., grades and attendance), this finding is not surprising.

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In conclusion, although mental health services are offered in nearly all schools across the country, many of them do not target both academic and mental health outcomes. This is a major research and programmatic gap that may be bridged by in-school interventions that target both types of outcomes.

Table 1. Programs of	Positive Impact on Mental Health and Academic Outcomes (N = 15)
Name of	Citation
Intervention	
Children of	Pedro-Carroll, J. L., Sutton, S. E., & Wyman, P. A. (1999). A two-year follow-up evaluation of a
Divorce	preventive intervention for young children of divorce. School Psychology Review, 28, 467-476.
Intervention	previous mer former for growing contact of divorces contact by more growing former, 20, 10, 17, 61
Program	
Classroom	Ialongo, N. S., Werthamer, L. W., Kellam, S. G., Brown, C. H., Wang, S., & Lin, Y. (1999). Proximal
Centered &	impact of two first-grade preventive interventions on the early risk behaviors for later substance abuse,
Family-School	depression and antisocial behavior. American Journal of Community Psychology, 27, 599-641.
Partnership	depression and antisocial behavior. Ilmerican journal of Community 1 sychology, 27, 777-041.
	Nelson, J. R., Martella, R. M., & Marchand-Martella, N. (2002). Maximizing student learning: The
Comprehensive School-Based	effects of a comprehensive school-based program for preventing problem behaviors. <i>Journal of Emotional</i>
Program	
Fast Track	and Behavioral Disorders, 10, 136-148. Conduct Problems Prevention Research Group (CPPRG). (1999). Initial impact of the Fast Track
rast 1 rack	prevention trial for conduct problems: I. The high-risk sample. <i>Journal of Consulting and Clinical Psychology</i> , 67, 631-647.
	Conduct Problems Prevention Research Group (CPPRG). (2002). Evaluation of the first 3 years of the Fast Track Prevention Trial with children at high risk for adolescent conduct problems. <i>Journal of Abnormal Child Psychology</i> , 30, 19-35.
	Conduct Problems Prevention Research Group (CPPRG). (2004). The effects of the Fast Track Program on serious problem outcomes at the end of elementary school. <i>Journal of Clinical Child and Adolescent</i>
E: C	Psychology, 33, 650-661.
First Step to	Walker, H. M., Kavanaugh, K., Stiller, B., Golly, A., Severson, H. H., & Feil, E. G. (1998). First step to
Success	success: An early intervention approach for preventing school antisocial behavior. <i>Journal of Emotional and Behavioral Disorders</i> , 6, 66-80.
Good Behavior	Dolan, L. J., Kellam, S. G., Brown, C. H., Werthamer-Larsson, L., Rebok, G. W., Mayer, L. S., et al.
Game and Mastery	(1993). The short-term impact of two classroom-based prevention interventions on aggressive and shy
Learning	behaviors and poor achievement. <i>Journal of Applied Developmental Psychology, 14</i> , 317-345.
	Kellam, S., Rebok, G., Ialongo, N., & Mayer, L. (1994). The course and malleability of aggressive
	behavior from early first grade into middle school: Results of a developmentally epidemiologically based
	preventive trial. Journal of Child Psychology and Psychiatry, and Allied Disciplines, 35, 259-281.
Improving Social	Elias, M. J., Gara, M. A., Schuyler, T. F., Branden-Muller, L. R., & Sayette, M. A. (1991). The
Awareness—Social	promotion of social competence: Longitudinal study of a preventive school-based program. <i>The American</i>
Problem Solving	Journal of Orthopsychiatry, 61, 409-417.
Project	
Montreal	Tremblay, R. E., Pagani-Kurtz, L., Masse, L. C., Vitaro, F., & Pihl, R. O. (1995). A bimodal preventive
Longitudinal Exper. Study	intervention for disruptive kindergarten boys: Its impact through mid-adolescence. <i>Journal of Consulting and Clinical Psychology, 63</i> , 560-568.
No name of	Gottfredson, D. C., Gottfredson, G. D., & Hybl, L. G. (1993). Managing adolescent behavior: A
intervention	multiyear, multischool study. American Educational Research Journal, 30, 179-215.
provided	
Positive Action	Flay, B. R., Allred, C. G., & Ordway, N. (2001). Effects of the Positive Action Program on achievement
Program	and discipline: Two matched-control comparisons. <i>Prevention Science</i> , 2, 71-89.
Raising Healthy	Catalano, R. F., Mazza, J. J., & Harachi, T. W. (2003). Raising healthy children through enhancing
Children	social development in elementary school: Results after 1.5 years. Journal of School Psychology, 41, 143-164.
Reaching New	Klein, S. M. (2004). Reaching new heights: A primary prevention program for gifted middle school students.
Heights	Unpublished dissertation. Department of Psychology, Graduate College of Bowling Green State University.
Seattle Social	Hawkins, J. D., Catalano, R. F., & Kosterman, R. (1999). Preventing adolescent health-risk behaviors by
Development	strengthening protection during childhood. <i>Archives of Pediatrics and Adolescent Medicine</i> , 153, 226-234.
Project	01
Social Moral	Arbuthnot, J. (1992). Sociomoral reasoning in behavior-disordered adolescents: Cognitive and behavioral
Reasoning	change. In J. McCord & R. Tremblay (Eds.), <i>Preventing antisocial behavior</i> (pp. 283-310). New York:
Development	Guilford Press.
Program	- Cambrid - 1888
Social Problem	Gottfredson, G. D., Jones, E. M., & Gore, T. W. (2002). Implementation and evaluation of a cognitive-
Solving Curriculum	behavioral intervention to prevent problem behavior in a disorganized school. <i>Prevention Science</i> , 3, 43-56.
JOINING CHITICHIUM	behavioral metrention to prevent problem behavior in a disorganized school. I treemon stieme, 3, 43-30.