Helping Children Cope with Violence and Trauma
A School-Based Program That Works

Violence is one of our most significant public health issues. Between 20 percent and 50 percent of children in the United States are touched by violence, either as victims or, even more commonly, as witnesses. Even more are exposed to natural disasters, accidents, and traumatic losses. The emotional impact may be profound. Children exposed to violence frequently develop post-traumatic stress symptoms. They are more likely to have behavioral problems, poorer school performance, more days of school absence, and feelings of depression and anxiety. Violence affects all racial, ethnic, and economic groups, but its burden falls disproportionately on poor and minority children—the very children whose mental health needs are least likely to be met by the health care system. School officials are often willing to provide help at school. But these professionals face an important question: What works? Until recently, there was no evidence base for determining the effectiveness of interventions to address these problems.

To fill this gap, a team of clinician-researchers from several institutions collaborated to develop, implement, and evaluate an intervention designed to help children traumatized by violence. The team included professionals from the RAND Corporation, the University of California, Los Angeles (UCLA), and the Los Angeles Unified School District (LAUSD) and has expanded over time to include colleagues at the University of Southern California and many community partners.

The program works. Students who participated in the program had significantly fewer post-traumatic stress symptoms, less depression, and less psychosocial dysfunction. The program was implemented successfully by school-based mental health clinicians. The participating schools, located in economically disadvantaged neighborhoods, have a large percentage of Latino students, demonstrating the program’s ability to reach poor and minority children. And the program was welcomed by students, teachers, school officials, and parents.

The First Randomized Controlled Study of a School Program to Help Children Traumatized by Violence
RAND, UCLA, and LAUSD began to collaborate in 1998 to conduct studies to determine the magnitude of violence exposure and post-traumatic stress symptoms among LAUSD schoolchildren and to develop effective interventions. The team developed and implemented an earlier program designed specifically for immigrant children, many of whom are subjected to violence in their country of origin, during their immigration to the United States, and/or after their arrival (often to

Key findings:

- Cognitive-Behavioral Intervention for Trauma in Schools (CBITS) significantly reduced symptoms of post-traumatic stress and depression in students exposed to violence.
- School mental health clinicians successfully delivered the program.
- The program produced consistent results and was well accepted by students, parents, and teachers.
- A version of the intervention has been adapted for delivery by regular school staff with no mental health training.
- A new website that provides online training and support for mental health professionals to deliver CBITS is now accessible, free of charge: http://cbitsprogram.org
a disadvantaged neighborhood). Building on the earlier work, the team designed and conducted a randomized controlled study in the 2000–2001 academic year. Students in the study attended one of two Los Angeles public middle schools in largely Latino neighborhoods. Psychiatric social workers from LAUSD administered a screening questionnaire to English-speaking sixth-grade students in the two schools. Students were eligible to participate in the program if they (1) had substantial direct exposure to violence, (2) had post-traumatic stress symptoms in the clinical range (a score of 14 or higher on the Child Post-Traumatic Stress Symptom Scale [CPSS]), and (3) were willing to discuss their symptoms in a group setting. Participants experienced a range of violence, from witnessing serious physical fights to being attacked with a knife or gun. A total of 159 students were eligible to participate; 126 actually participated (the parents of 28 children did not give consent, and five children elected not to participate). All 126 students completed the baseline assessments, 93 percent completed a three-month follow-up, and 90 percent completed both the three-month and the six-month follow-ups.

Students were randomly assigned to two groups. One group (the early-intervention group) started the program promptly; the other (the late-intervention group) was waitlisted for later in the school year. The intervention program, called the Cognitive-Behavioral Intervention for Trauma in Schools (CBITS), was developed at RAND in close collaboration with mental health clinicians at LAUSD. It consists of ten group sessions designed for inner-city schools with a multicultural population. Activities include training children in relaxation; dealing with negative thoughts; solving real-life problems; approaching anxiety-provoking situations; and coping with the violent event through talking, drawing pictures, and writing. The program is also designed to build both peer and parental support. In addition to the group sessions, the program included at least one individual session for each child, four group parenting meetings, and an educational presentation for teachers. The LAUSD school clinicians who delivered the program received two days of training and weekly supervision from the other members of the research team. To help ensure that the program was standardized, the clinicians followed the CBITS treatment manual (see the text box).

Participants Experienced Significant Mental Health Improvement

Data from students, parents, and teachers were collected at baseline, three months, and six months. These intervals enabled both early- and late-intervention groups to complete the program and to be tested in the same academic year.

Baseline: The 126 students enrolled in the program had substantial levels of exposure to violence. On average, students reported being a victim of 2.8 violent events and directly witnessing 5.9 violent events in the previous year. The mean CPSS score was 24, indicating moderate to severe post-traumatic stress symptoms. There were no significant differences between the early-intervention and late-intervention groups at the start of the program.

Three months: At three months, students in the early-intervention group had completed the program; students in the late-intervention group had not yet begun. Figure 1 compares the CPSS scores for the two groups. The early-intervention students showed substantial improvement. The magnitude of the difference between the two groups means that 86 percent of the early-intervention group reported less-severe post-traumatic stress symptoms than would have been expected without intervention. Figure 2 shows depressive symptom scores; the magnitude of the difference between the two groups means that 67 percent of the early-intervention group reported less-severe symptoms than would have been

Cognitive-Behavioral Intervention for Trauma in Schools (CBITS) Session Outline

| Session 1: Introduction of group members, confidentiality, and group procedures; explanation of treatment using stories; discussion of reasons for participation (kinds of stress or trauma). |
| Session 2: Education about common reactions to stress or trauma, relaxation training to combat anxiety. |
| Individual Session: Between sessions 2 and 6. |
| Session 3: Thoughts and feelings (introduction to cognitive therapy), “fear thermometer,” linkage between thoughts and feelings, combating negative thoughts. |
| Session 4: Combating negative thoughts. |
| Session 5: Avoidance and coping (introduction to real-life exposure), construction of fear hierarchy, alternative coping strategies. |
| Sessions 6 and 7: Exposure to stress or trauma memory through imagination, drawing, and writing. |
| Session 8: Introduction to social problem solving. |
| Session 9: Practice with social problem solving and hot seat. |
| Session 10: Relapse prevention and graduation ceremony. |

expected without intervention. In addition, parents of students in the early-intervention group reported that their children were functioning significantly better.

**Six months**: At six months, both groups had completed the program. The group that received CBITS after the waiting period also showed substantial improvement in symptoms, and the group that had received CBITS earlier maintained their gains.

**Classroom Behavior Stayed About the Same**

Teachers assessed each student’s shyness and anxiety, learning skills, and acting-out behavior in the classroom. Teachers observed only slight improvements throughout the study period. Possible explanations include the following: A student’s classroom behavior is affected by many factors, not just the child’s mental health; there may be a time lag before improved mental health translates into improved behavior; teachers may be more attuned to disruptive behavior than to anxiety or depression; or perhaps the program simply does not affect classroom behavior.

**SSET: A Version of CBITS for Nonclinical School Personnel**

As the CBITS program began to be disseminated nationally, the CBITS research team sought feedback from teachers, school counselors, clinicians, and national experts on how to make their program easier for schools to implement. The result was an adaptation of CBITS: Support for Students Exposed to Trauma (SSET). SSET keeps the same cognitive-behavioral approach and ten group-session structure as CBITS, but the clinical aspects of the original program have been modified to allow them to be used by teachers and other nonclinicians. Changes include the following:

- Instructors use the lesson-plan format familiar to teachers.
- Individual student sessions and optional parent sessions are eliminated.
- Students draw or write about their traumatic experiences rather than recounting them one-on-one with a counselor.

**SSET Pilot Test.** Beginning in 2005, SSET was pilot-tested for two years in two Los Angeles middle schools, one in the San Fernando Valley and the other in South Central Los Angeles. Most of the students were Latino and came from lower socioeconomic backgrounds, and more than half were English learners. Of the students screened for participation in SSET, 58 percent met the initial study criteria: They had experienced symptoms of post-traumatic stress disorder (PTSD). The final pilot test sample consisted of 76 students with appropriate parental and student consent to participate in the study. Three teachers and one school counselor...
Students were surveyed to measure their trauma symptoms at baseline, at three months after the first group had completed SSET, and at six months after the control group had completed the program. Additional assessments focused on the instructors’ ability to faithfully deliver quality SSET lessons. Both students’ parents and teachers were surveyed about the students’ behavior at home and at school, and students were surveyed about their own symptoms and behaviors.

Promising Results. Even in this small pilot test, the results indicate that SSET can be implemented successfully by teachers and school counselors without mental health training to address violence-related PTSD and depression, especially in low-income, urban students. The pilot test results showed that, overall, students showed small reductions in trauma symptoms, with those having a high level of symptoms before taking SSET benefiting the most. In addition, both students and parents reported good-to-high satisfaction with the program. Teachers reported small improvements in student behavior, although parents did not.

A CBITS Dissemination Website: Making CBITS Training More Accessible
In March 2011, the CBITS team made CBITS training materials available online. Districts and schools now have the option of in-person or online training for mental health professionals who intend to deliver CBITS. The program’s website (http://cbitsprogram.org/) allows mental health professionals to register free of charge for an online CBITS course to support training. The site also provides additional support resources, including a discussion board, an ask-the-expert feature, quick tips, and implementation materials.

Conclusions
Extensive research since 2000 has supported the team’s initial study results: CBITS has significantly helped students cope with the devastating effects of violence. Students who participate in the program report fewer symptoms of post-traumatic stress, depression, and psychosocial dysfunction. CBITS is now recognized as a recommended practice by several national agencies that assess the quality of mental health interventions, including the Centers for Disease Control and Prevention’s Prevention Research Center, the Substance Abuse and Mental Health Services Administration’s (SAMHSA’s) National Registry of Evidence-Based Programs and Practices, and the U.S. Department of Justice’s Office of Juvenile Justice and Delinquency Prevention.

CBITS has been implemented widely across the United States and abroad and is also being actively disseminated through SAMHSA’s National Child Traumatic Stress Network. Since 2001, the CBITS team has supported use in several states in the United States and in other countries, including
- California, Colorado, the District of Columbia, Illinois, Louisiana, Maryland, Mississippi, Missouri, Montana, New Jersey, New Mexico, Tennessee, Washington, and Wisconsin
- Australia, China, Guyana, and Japan.

The program is designed to build resilience and coping skills, so it is possible that the short-term effects identified by research will be lasting. The team hopes that the program will form the basis of continuing efforts to provide long-term help to victims of violence.
This research highlight summarizes RAND Health research reported in the following publications:


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