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Preventing Violence and Related Health-Risking Social Behaviors in Adolescents

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Prepared by:

Southern California Evidence-based Practice Center, Los Angeles, CA

Investigators
Linda S. Chan, PhD
Michele D. Kipke, PhD
Arlene Schneir, MPH
Ellen Iverson, MPH
Curren Warf, MD
Mary Ann Limbos, MD, MPH
Paul Shekelle, MD

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Preface

The Agency for Healthcare Research and Quality (AHRQ), through its Evidence-Based Practice Centers (EPCs), sponsors the development of evidence reports and technology assessments to assist public- and private-sector organizations in their efforts to improve the quality of health care in the United States. This report was requested and funded by the Office of Medical Applications of Research (OMAR), National Institutes of Health (NIH) for the Consensus Development Conference on "Preventing Violence and Related Health-Risking Social Behaviors in Adolescents" and co-sponsored by the National Institute of Mental Health, NIH. The reports and assessments provide organizations with comprehensive, science-based information on common, costly medical conditions and new health care technologies. The EPCs systematically review the relevant scientific literature on topics assigned to them by AHRQ and conduct additional analyses when appropriate prior to developing their reports and assessments.

To bring the broadest range of experts into the development of evidence reports and health technology assessments, AHRQ encourages the EPCs to form partnerships and enter into collaborations with other medical and research organizations. The EPCs work with these partner organizations to ensure that the evidence reports and technology assessments they produce will become building blocks for health care quality improvement projects throughout the Nation. The reports undergo peer review prior to their release.

AHRQ expects that the EPC evidence reports and technology assessments will inform individual health plans, providers, and purchasers as well as the health care system as a whole by providing important information to help improve health care quality.

We welcome comments on this evidence report. They may be sent by mail to the Task Order Officer named below at: Agency for Healthcare Research and Quality, 540 Gaither Road, Rockville, MD 20850, or by email to **epc@ahrq.gov.**

Carolyn M. Clancy, M.D.

Director

Agency for Healthcare Research and Quality

Barnett S. Kramer, M.P.H., M.D.

Director

Office of Medical Applications of Research

Jean Slutsky, P.A., M.S.P.H.

Director, Center for Outcomes and Evidence Agency for Healthcare Research and Quality

Kenneth S. Fink, M.D., M.G.A., M.P.H.

Director, EPC Program

Agency for Healthcare Research and Quality

Marian D. James, M.A., Ph.D. EPC Program Task Order Officer Agency for Healthcare Research and Quality

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We deeply appreciate the support, commitment, and guidance of our Technical Expert Group (TEG), who served as vital resources throughout our process. They are Sonia Chessen from the Department of Health and Human Services, Sandra Graham, Ph.D., from the University of California at Los Angeles, Nancy Guerra, Ed.D., from the University of California at Riverside, Ron Haskins, Ph.D., from the Brookings Institute, Darnell Hawkins J.D., Ph.D., from the University of Illinois at Chicago, Doug Kirby, Ph.D., from ETR Associates, Georgine Pion, Ph.D., from Vanderbilt University, Cathy Widom, Ph.D., from New Jersey School of Medicine, and Franklin Zimring, J.D., from the University of California at Berkeley.

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We owe our thanks to our librarian, Melissa L. Just, M.L.I.S., who conducted preliminary searches and retrieved 100% of the full-length articles and to the members of our research team who tirelessly screened, reviewed, and abstracted the articles within an extremely tight time frame. They include Michael Chan, M.P.H., and medical student, Sergui Grozavu M.A., Michele Mouttapa, Ph.D., candidate, Laura Parks M.P.H., Bettsy Santana B.A., and M.P.H. student, Ida Shihady M.P.H., and Robin Toblin M.A. and Ph.D. student.

Finally, we are indebted to Robert Johnson, M.D., Chair of the Conference Panel, who provided invaluable guidance throughout our project.

Structured Abstract

Context. The overarching goal of this review is to identify the highest quality research findings in the field of youth violence. In preparation for a state-of-the-science conference in the fall of 2004, the Office of Medical Applications of Research (OMAR) and the National Institute of Mental Health (NIMH) nominated and supported the topic for an Agency for Healthcare Research and Quality (AHRQ)-sponsored systematic review and analysis of the evidence on individual, family, school, community, and peer level influences as well as research to evaluate prevention intervention effectiveness. AHRQ awarded the Task Order to the Southern California Evidence-Based Practice Center (SC-EPC) and its partner, Childrens Hospital Los Angeles, to conduct the review.

Objectives. The evidence review was conducted to address six key questions mandated in the Task Order: (1) What are the factors that contribute to violence and associated adverse health outcomes in childhood and adolescence? (2) What are the patterns of co-occurrence of these factors? (3) What evidence exists on the safety and effectiveness of interventions for violence? (4) Where evidence of safety and effectiveness exists, are there other outcomes beyond reducing violence? If so, what is known about effectiveness by age, sex, and race/ethnicity? (5) What are commonalties of the interventions that are effective and those that are ineffective? (6) What are the priorities for future research?

Data Sources. We used data reported in published articles retrieved from any of four electronic databases—MEDLINE®, PsychINFO, SocioAbstracts, and ERIC. A systematic search of each database was performed in April/May of 2003, and then again in October/November of 2003.

Study Selection. Published articles were eligible for inclusion if they were peer-reviewed, were published in 1990 or thereafter, reported on research conducted in the United States, and specifically examined either risk/protective factors associated with youth violence perpetration or the effectiveness of a violence prevention intervention designed to reduce violence among adolescents, ages 12 through 17 years. Excluded were case reports, editorials, letters, reviews, practice guidelines, non-English language publications, and papers from which no data could be abstracted. To evaluate the literature related to risk factors, we limited our analysis to studies that used a prospective longitudinal cohort design, and to evaluate the literature related to intervention effectiveness, we limited our analysis to randomized or nonrandomized controlled trials in which a control group was used either concurrently or prospectively. Given these parameters, we screened a total of 11,196 titles and abstracts; reviewed 1,612 full-length articles; abstracted data from 265 articles onto evidence tables and ultimately analyzed evidence abstracted from 67 studies.

Data Extraction. All citations were screened by two independent researchers and discrepancies resolved by consensus. Data were abstracted and recorded onto evidence tables by a team member and then checked by a senior researcher. All screening and data abstraction used preestablished criteria and guidelines.

Data Synthesis. *To identify risk factors contributing to youth violence,* we reviewed findings that were reported in two or more cohort studies, and we reported a finding as consistently

associated with violence if at least 75 percent of the articles reported the same finding (i.e., 75 percent of articles reported a statistically significant association between a specific risk factor and a violence-related outcome). A finding was considered statistically significant if the article reported a p-value less than 0.05. *To evaluate the effectiveness of prevention interventions*, we considered an intervention to be effective if one or more violent outcome indicators was reported to be significantly different at the p less than 0.05 level. If none of the violent outcome indicators were reported to be significantly different at the p<0.05 level, we characterized those interventions as having no reported evidence of effectiveness.

Main Results. Across all studies, only one risk factor, male gender, was consistently reported to be significantly associated with youth violence perpetration. Low family socioeconomic status (SES) was consistently reported not to be an independent risk factor associated with youth violence. Co-occurrence of family SES with other risk factors could be associated with youth violence. Reported significance and non-significance showed very little consistency for all other risk factors. Moreover, few studies examined a comparable set of risk factors (i.e., risk factors were often examined only by a single study) limiting our ability to make conclusions based on the available evidence. Among studies that specifically focused on adolescent males, we identified a consistent significant association between violence and anger, cigarette smoking, and non-violent delinquency. For adolescent females, we identified a consistent significant association between violence and non-violent delinquency. For research conducted with at-risk youth populations, we found a consistent significant association between being Latino and repeat physical aggression among adolescent males; no consistency was observed for the findings of research conducted with at-risk adolescent females. With respect to the review of the effectiveness of prevention interventions, the number of studies was too small for the detection of any systematic differences among programs with different characteristics.

Conclusions: We found little agreement with respect to the definitions used to measure youth violence and ways in which risk/protective factors are conceptualized, operationally defined, measured, analyzed, and reported, despite the severe restrictions that limited the number and quality of studies reviewed. As a result, little consistency was observed in findings across individual studies and the literature does not appear to be growing in a cumulative nature. We recommend that researchers nationwide initiate efforts to develop comparable approaches to defining, measuring, analyzing, and publishing research data related to youth violence, and that new initiatives be funded to facilitate the collection of comparable data across multiple sites and with multiple youth populations. Furthermore, we recommend that future research consider the use of an "individual-level-data-meta-analysis" method to identify sequential and simultaneous co-occurrences of contributing factors to youth violence. We recommend that social scientists studying youth violence increase the rigor of their research, including the use of control populations and extended follow-up to evaluate the sustained effectiveness of youth violence prevention interventions.

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Appendixes and Bibliography for this report are provided electronically at http://www.ahrq.gov/clinic/tp/adolvitp.htm.

Evidence Report/Technology Assessment

Number 107

Preventing Violence and Related Health-Risking Social Behaviors in Adolescents

Summary

Introduction

Over the last two decades of the 20th century, violence emerged as one of the most significant public health problems in the United States (Administration for Children and Families, 2004). While recent trends have been encouraging, homicide remains the second leading cause of death among adolescents (National Center for Injury Prevention and Control, 2004). During this period, an increasing number of research studies has have sought to characterize youth violence and the contexts in which it occurs, as well as risk and protective factors associated with such violence. At the same time, a myriad of prevention interventions have been developed and evaluated with multiple youth populations and in a range of settings.

In the fall of 2004, the National Institute of Mental Health (NIMH) will convene a State-ofthe-Science Conference on "Preventing Violence and Related Health-Risking Social Behaviors in Adolescents." The purpose of this consensus conference is to provide a forum to present and review what is currently known about preventing youth violence. In preparation for this meeting, the Office of Medical Applications of Research (OMAR) and the National Institute of Mental Health (NIMH) nominated and supported the topic for an Agency for Healthcare Research and Quality (AHRQ)-sponsored systematic review and analysis of the evidence. AHRQ awarded this project to the Southern California Evidencebased Practice Center (SC-EPC) and its partner, Childrens Hospital Los Angeles, to conduct the review and summarize the findings in an evidence report. Researchers were to review longitudinal risk factor research to identify the role of

individual, family, school, community and peerlevel influences as well as interventional research to evaluate prevention intervention effectiveness.

This evidence report addresses the following six key questions:

- What are the factors that contribute to violence and associated adverse health outcomes in childhood and adolescence?
- 2. What are the patterns of co-occurrence of these factors?
- 3. What evidence exists on the safety and effectiveness of interventions for violence?
- 4. Where evidence of safety and effectiveness exists, are there other outcomes beyond reducing violence? If so, what is known about effectiveness by age, sex, and race/ethnicity?
- 5. What are commonalities of the interventions that are effective, and those that are ineffective?
- 6. What are the priorities for future research?

For the purpose of this evidence review, we used the Centers for Disease Control and Prevention's definition of violence: "threatened or actual physical force or power initiated by an individual that results in, or has a high likelihood of resulting in, physical or psychological injury or death" (National Center for Injury Prevention and Control, 2004). We made the decision to include only the following types of violent behavior: murder or homicide, aggravated assault, non-aggravated assault, rape or sexsexual assault, robbery, gang fight, physical aggression, psychological injury or harm, and other serious injury or harm. Thus, we did not review the growing literature that reports on studies of



suicide, verbal aggression, bullying, arson, weapon carrying, externalizing behaviors (e.g., acting out), attitude about violent behavior, youth crime against property or materials (such as burglary, theft), or intent to commit violence as outcomes. These related behaviors and attitudes are included in this report only to the extent that they have been proposed as risk factors for the forms of violence on which this report focuses.

The definition of violence prevention interventions that we used was developed for and published in the *Surgeon General's Report on Youth Violence* (Satcher, 2001). According to this definition, "Primary prevention interventions are those that are universal, intended to prevent the onset of violence and related risk factors; secondary prevention interventions are those implemented on a selected scale for children/youth at enhanced risk for youth violence, intended to prevent the onset and reduce the risk of violence; and tertiary prevention interventions are those that are targeted to youth who have already demonstrated violent or seriously delinquent behavior."

Methods

Analytic Framework

To complete the project with the resources available, it was necessary to narrow the focus of this evidence review. To this end, we limited our review to peer-reviewed articles published in 1990 or later and retrievable within four search engines—MEDLINE®, PsychINFO, SocioAbstracts, and ERIC. We also limited the review to studies conducted in the United States and focused on violent behavior perpetrated by adolescents, ages 12 through 17 years. Thus, this review excluded studies of violence perpetrated by children, preadolescents, and young adults.

To assist project staff in conducting the evidence review, a nine-member multidisciplinary Technical Expert Group (TEG) was established, comprising individuals with both content and methodological expertise. Specifically, the TEG brought to this review a diverse set of expertise from a range of fields and disciplines, including early childhood development, adolescent development, juvenile justice, child abuse and neglect, anthropology, psychology, sociology, social work, public health, and public policy.

We created a list of potential risk and protective factors organized by domain—i.e., individual, family, school, peer, community, and social domains—to inform data abstraction and synthesis. We also developed a conceptual and analytical framework to examine the associations among risk factors, violent behavior, and interventions to guide the analysis. As these background materials were being developed, we shared them with the NIH Panel Chair and our Task Order Officer,

discussed them with members of our TEG, and made numerous revisions based on the feedback that we received.

Search

The National Library of Medicine (NLM) performed all searches. Librarians from NLM met with project staff via teleconference to discuss the scope, the key questions, and the search strategy. The librarians also worked with project staff to select the databases that were ultimately used and to evaluate the search strategies that had been developed by the project team.

NLM searched four electronic databases—MEDLINE®, PsychINFO, SocioAbstracts, and ERIC—in April/May of 2003 and again in October/November 2003. For "youth," the following search terms were used: adolescent, teen, juvenile, and youth. For "violence," the following terms were used: violence, school violence, dangerous behavior, rape, homicide, domestic violence, courtship violence, dating violence, interpersonal violence, date rape, rape, raping, rapes, rapist, bully, bullies, bullied, bullying, physical assault, physical attack, physical aggression, direct aggression, overt aggression, knifing, stabbing, gunshot, brutality, bludgeoning, and murder.

Study Selection

Three inclusion criteria were applied for citations and manuscripts: published in 1990 or thereafter, related to the range of risk and protective factors associated with perpetrators of youth violence and violence-related crimes between ages 12 and 17 years, and conducted in the United States only. Excluded were case reports, unpublished program evaluations, editorials, letters, reviews, practice guidelines, non-English language publications, and papers from which data could not be abstracted.

For the questions on risk factors, we based our assessment on prospective longitudinal cohort studies, because of the general consensus that cross-sectional studies would not allow us to identify temporal predictors of youth violence (Heimer, 1997; Herrenkohl, Guo, 2001). For the evaluation of the effectiveness of interventions, we examined the findings from randomized controlled trials (RCTs) as well as non-RCTs or single-group time series in which a control group was used either concurrently or prospectively.

Evaluation of Study Quality

We evaluated the quality of individual studies using the criteria set forth in the Procedures for EPC Reports for Office of Dietary Supplements (ODS) and OMAR (ODS and OMAR, 2003). Because all the prospective longitudinal cohort studies included in our review satisfied four of the seven criteria in the same ways, we used the three remaining criteria—

followup rate of 80 percent or more, valid and reliable instruments used, and appropriate control of confounding factors—to assess the quality of individual studies. For studies that assessed the effectiveness of interventions, we used the OMAR criteria for RCTs and observational studies.

According to OMAR guidelines (ODS and OMAR, 2003), the rating of the strength of scientific evidence remains the prerogative of the Consensus Panel. However, we conducted two sensitivity analyses to assist the Consensus Panel to assess the strength of the scientific evidence in our review. First, we re-analyzed the data excluding the studies with sample size below the thresholds set at 1,100 for the general population and 500 for the at-risk population, to restrict the analyses to the studies with the greatest power to detect significant predictors. Second, we re-assessed the findings using only studies with good quality.

Data Abstraction

For primary screening, two members of the team independently reviewed each title or abstract: one reviewer was a member of the faculty with specific expertise related to adolescent development and/or youth violence, and the other reviewer had a master's degree in public health or was a doctoral student in the field of psychology, public health, or prevention research. The Task Order Manager or the Task Order Coordinator compared the screening results of the two reviewers and resolved discrepancies. The same procedure was followed for secondary screening of full-length articles. For articles selected for inclusion, data were abstracted by a member of the project team onto a specially prepared form. Completed forms were checked by the Task Order Manager.

Data Synthesis

Risk factor identification. To identify homogeneous subgroups for data pooling, we stratified the eligible studies according to the following criteria: demographics of the study population; characteristics of the study; outcomes; and type of analysis. We used a systematic approach to summarize the findings. When findings for a single cohort were reported in multiple articles, the cohort was considered the unit of analysis. In the summary, findings for one cohort that were reported in more than one article were counted as only one article. However, if several articles reported findings for one cohort but each reported the findings for different outcome measures, each was counted. When a risk factor was assessed using both bivariate and multivariate analysis, the results of the multivariate analysis took precedence. Findings were considered significant if the p statistic was less than 0.05.

For summarizing the evidence, we considered a factor to be consistently associated with violence if 75 percent or more of the cohort studies reported a significant association for the factor. Likewise, factors reported not to be associated with violence in at least 75 percent of the studies under consideration were considered not associated with violence. Otherwise, the findings were considered inconclusive. We evaluated consistency for factors that were reported in two or more cohort studies. Evidence was considered inadequate if the results for a particular factor were reported in only one cohort study.

For evaluating the effectiveness of interventions. We stratified the accepted studies by the level of intervention and the type of study design. Initially, we planned to stratify the studies further by the various characteristics of interventions that might ultimately contribute to the effectiveness of the intervention (such as intervention setting and target population). However, many of the reports omitted mention of these study characteristics.

Because of the diversity of the studies, we did not pool findings across studies. Instead, we summarized the findings of the programs as effective or ineffective. We considered an intervention to be effective if one or more violence outcome indicators was reported to be significantly different at the p<0.05 level, based on the findings reported in the article(s). If none of the violence outcome indicators was reported to be significantly different, we considered the program ineffective.

Results

We screened 11,196 titles and abstracts, reviewed 1,612 full-length articles, and included 67 articles in our evidence assessment (35 for the risk factor questions and 32 for the intervention questions).

Factors Contributing to Youth Violence (Key Question #1)

The 35 articles that addressed risk factors contributing to youth violence were based on 23 prospective cohort studies covering 11 study populations defined by gender, race/ethnicity, and at-risk population. Findings for specific racial/ethnic groups suffered from small numbers of cohorts or small numbers of subjects.

Across all studies, only one risk factor, male gender, was consistently reported to be significantly associated with youth violence perpetration (Rivera and Widom, 1990; Roitberg and Menard, 1995; Saner and Ellickson, 1996; Komro, Williams, 1999; Foshee, Bauman, 2000; Herrenkohl, Guo, 2001; McCloskey and Lichter, 2003). Low family socioeconomic status (SES) was consistently reported not to be an independent risk factor for youth violence (Roitberg and Menard, 1995; Saner and Ellickson, 1996; Herrenkohl, Egolf, 1997; Brezina,

1999; Herrenkohl, Guo, 2001; Herrera and McCloskey, 2001). Co-occurrence of family SES with other risk factors was associated with youth violence. There was very little consistency of reported significance or non-significance for all other risk factors. Few studies examined a comparable set of risk factors (i.e., risk factors were often examined only by a single study) limiting our ability to draw conclusions based on the available evidence. Among studies that specifically focused on adolescent males, a consistent finding was the significant association between violence and anger (Felson, 1992; Foshee, Linder, 2001), cigarette smoking (Dornbusch, Lin, 1999; Ellickson, Tucker, 2001) and non-violent delinquency (Becker and McCloskey, 2002; Saner and Ellickson, 1996). For adolescent females, a consistent finding was the significant association between violence and non-violent delinquency (Becker and McCloskey, 2002; Herrera and McCloskey, 2003; Saner and Ellickson, 1996). For research conducted with atrisk youth populations, a consistent finding was the significant association between being Latino and repeated physical aggression among adolescent males (Loeber, Wei, 1999; Loeber, Wung, 1993); there were no consistent findings for research conducted with at-risk adolescent females.

Patterns of Co-occurrence of These Factors (Key Question #2)

In addition to our search for independent risk factors that have a high likelihood of leading to youth violence, we were also interested in clusters of risk factors that may lead to youth violence. A number of factors that were found to be statistically significant when no other risk factors were taken into account were found not to be significant when other risk factors were taken into consideration. For example, low SES or low family income was reported as a significant risk factor associated with youth violence when the co-occurrence of other risk factors was not taken into consideration. But when the effect of other risk factors was taken into consideration, its significance disappeared, implying that the other risk factor(s) were stronger predictor(s) of youth violence than was low SES. (Roitberg and Menard, 1995; Saner and Ellickson, 1996; Herrenkohl, Egolf, 1997; Brezina, 1999; Herrenkohl, Guo, 2001; Herrera and McCloskey, 2001).

We defined co-occurrence of factors as the simultaneous presence of two or more risk or protective factors that together predict violence in an individual. We identified five articles on four cohort studies that addressed different aspects of co-occurrences. These articles reported the following findings.

Pre/perinatal risk exposure combined with disadvantaged familial environment at age 7 increased the chances of criminal offending during early adulthood among a high-risk, inner-city

group (Piquero and Tibbetts, 1999). Polydrug use was associated with increased violence in both boys and girls, a finding not identifiable from analyses that focused on the use of a specific drug (Dornbusch, Lin, 1999). Youth exposed to multiple risk factors were found to be more likely than others to engage in later violence (Herrenkohl, Egolf, 1997). The cooccurrence of parent-family connectedness, school connectedness/parental presence, and grade point average in both boys and girls significantly decreased the risk of youth violence (Borowsky, Ireland, 2002). Beyers et al. (Beyers, Loeber, 2001) reported the following combinations of risk factors associated with repeated youth violence: (a) living in a low-SES neighborhood, lack of guilt, sexual activity, carrying a hidden weapon, and poor communication at home and (b) living in a high-SES neighborhood and physical aggression. The following combinations of risk factors were reported not to be associated with repeat youth violence: (a) living in a low-SES neighborhood and any or a combination of the following: age, impulsive/hyperactive behavior, low school motivation, positive attitude toward problem behavior, boy not involved at home, poor parental supervision, peer delinquency, or bad friends and (b) living in a high-SES neighborhood plus any or a combination of the following: impulsive/hyperactive behavior, lack of guilt, positive attitude toward problem behavior, sexual activity, or peer delinquency.

Effectiveness of Interventions for Violence (Key Questions #3, #4, and #5)

We identified 32 intervention evaluation studies, of which 13 employed randomized controlled trial (RCTs) design and 19 employed other study designs. The following provides a summary of the key findings.

Effectiveness by level of intervention. Direct within-study comparisons of the effectiveness of interventions by the level of intervention (primary, secondary, tertiary) were not identified, but some measure of the effectiveness of interventions by level can be made by simply comparing the proportion of studies at each level that report beneficial effects. Not considering the study design and excluding one inconclusive study, effectiveness was reported in five of 15 (33 percent) primary interventions, four of 10 (40 percent) secondary interventions, and five of six (83 percent) tertiary interventions. When only RCTs were considered, effectiveness was reported in one of five (20 percent) primary intervention, three of six (50 percent) secondary intervention, and two of two (100 percent) tertiary interventions.

Effectiveness by age, gender, and race/ethnicity. The focus of this assessment was on adolescents ages 12 through 17; thus, all programs determined to be effective reduced violent

behavior in this age group. The data did not permit further analysis according to age. Similar to our assessment with the level of interventions, within study comparisons are the strongest analytic approach to study differential effectiveness by demographic groups. However, none of the studies provided the information needed to evaluate differential effectiveness by age, gender, or race/ethnicity. Instead, effectiveness was reported primarily within each gender or ethnic group.

Effectiveness by selected characteristics of intervention programs. Overall, we did not observe any differences in program effectiveness among different settings, between single or multimodal programs, among programs with different durations, or among programs implemented at different school levels. However, we observed that four of four (100 percent) secondary interventions that lasted a year or longer were effective (four of four), whereas five of five (100 percent) secondary interventions that lasted less than 6 months were ineffective.

Discussion

The overarching goal of this review was to bring greater scientific rigor to the evaluation process to identify the highest quality research findings in the field of youth violence. With the severely restricted scope of the project, much of the value of this report was the identification of the current status of research on youth violence, the existing research gaps and inconsistencies, and the need for additional scientifically rigorous studies. Despite the limited scope, we identified a voluminous literature that is rather fragmented in nature. We found little agreement with respect to the definitions used to measure youth violence and the ways in which risk/protective factors are conceptualized, operationally defined, measured, analyzed, and reported. As a result, the findings showed little consistency across individual studies and the research literature is not growing cumulatively. Consequently, we are limited in our ability to draw conclusions and make recommendations.

Specifically, for the review of risk factors contributing to youth violence, we were unable to perform a quantitative synthesis for the risk factors by developmental stages, by type of at-risk population, by type of violent outcome, and by type of statistical analysis due to the limited number of prospective cohort studies. Efforts to examine the effects of co-occurrence of risk factors have been limited, although some efforts have been made to examine the multifactorial nature of risk and protective factors contributing to youth violence.

With respect to the review of the effectiveness of prevention interventions, the number of studies was too small for the detection of any systematic differences among programs with different characteristics. The characterization of intervention programs was not consistently or uniformly reported in published articles, making it difficult to evaluate program effectiveness by program characteristics.

Priorities for Future Research (Key Question #6)

Risk factors contributing to youth violence. Considerable effort is needed to develop uniformity in the ways in which youth violence and violence-related outcomes are both defined and operationalized, and these definitions should be incorporated into future research to begin to build some consistency and uniformity in study findings. We therefore recommend initiation of a national effort to develop comparable approaches to defining, measuring, and analyzing research data related to youth violence, and the funding of new initiatives to facilitate the collection of comparable data across multiple sites and with multiple youth populations. Such multi-site cooperative agreement studies would permit the use of a combined prospective cohort from which a common standardized dataset could be assembled and analyzed.

Further, additional research is needed to examine both sequential and simultaneous co-occurrences of risk factors that contribute to youth violence. Future research should concentrate on minimizing both non-participation and attrition in longitudinal studies.

Natural prospective cohorts must be established, pseudo prospective cohorts could also be considered. We have identified many prospective cohort studies focused on various stages of development, different types of study population, and different types of outcomes that could be coordinated and assembled to form a pseudo prospective cohort from which a common dataset could be assembled and advanced statistical analysis conducted. Such an effort would require strong central support, cooperation from all parties involved, and long-term financial commitments.

Interventions for the prevention of youth violence. More randomized controlled interventions are needed to evaluate program effectiveness in general and for various groups of youth in particular, e.g., those of different ages, both genders, all ethnicities/races, and possessing the various characteristics that appear to increase risk. We therefore recommend that researchers increase the scientific rigor, including the use of control populations and extended followup, to evaluate the sustained effectiveness of youth violence prevention interventions. While RCTs with individual subjects are ideal, they are difficult to implement in "real world" settings, especially for the behavioral and social sciences, and group RCTs are the best alternatives. Therefore, it is important that more research effort be focused on the design, implementation,

and analysis of group RCTs. Research in this area will contribute greatly to the scientific methods in the social sciences.

A national consensus building effort is also needed to identify and clarify the science related to (a) the use of conceptual frameworks and causal pathways related to youth violence; (b) risk factors and mechanisms leading to violent outcomes; (c) strategies and interventions to reduce violent outcomes; (d) methodologies and scientifically grounded approaches that should ideally be used to evaluate prevention interventions; (e) the effective use of policy to reduce youth violence; and (f) methodologies for evaluating such policies.

Rating of study quality. For prospective longitudinal studies, we have shown that a high retention rate alone is inadequate to measure sample bias. We believe that the participation rate, followup or retention rate, and proportion of participants with complete data should be considered when assessing the possibility of bias in the study sample, especially for outcomes such as violence. For intervention studies, we do not believe that the OMAR study quality criteria truly assessed the quality of the studies we reviewed because they were derived primarily from clinical studies. Unlike many clinical interventions for medical conditions, youth violence interventions are often multifaceted, involve the efforts of multiple parties (e.g., teachers, parents, school administrators, and so on), are conducted over long periods of time, and can be adversely affected by factors that cannot be anticipated, characteristics that make the studies difficult to evaluate. The nature of the interventions in social science studies can also preclude some of the methodological components critical to clinical trials. The need to develop valid instruments to evaluate the quality of studies in the social sciences is apparent.

Quality of publications. Special efforts are needed to improve the quality of publications, including the consistency and adequacy with which the study characteristics, such as research questions, conceptual framework, study design, and description of the study population, are specified.

Evidence assessment methods. Because of the multifactorial nature of the factors contributing to youth violence, alternatives to quantitative synthesis of published information should be sought. Unlike many clinical interventions, interventions to prevent or stop youth violence are often multifaceted, involving the efforts of multiple parties (e.g., teachers, parents, and school administrators), requiring long time commitments, and being sensitive to factors that cannot be anticipated. We propose that social science researchers consider an "individual-level-data-meta-analysis" method (Olkin and Sampson, 1998; Mathew and Nordstrom, 1999; Stewart and Clarke, 1995; Stewart and Parmar, 1993; Nagin and Tremblay, 1999) for future systematic reviews to identify both independent predictors and clusters of predictors that lead to youth violence. The method is described further in the report.

Availability of the Full Report

The full evidence report from which this summary was taken was prepared for the Agency for Healthcare Research and Quality (AHRQ) by the Southern California Evidence-based Practice Center, under Contract No. 290-02-0003. It is expected to be available in October 2004. At that time, printed copies may be obtained free of charge from the AHRQ Publications Clearinghouse by calling 800-358-9295. Requesters should ask for Evidence Report/Technology Assessment No. 107, Preventing Violence and Related Health-Risking Social Behaviors in Adolescents. In addition, Internet users will be able to access the report and this summary online through AHRQ's Web site at www.ahrq.gov.

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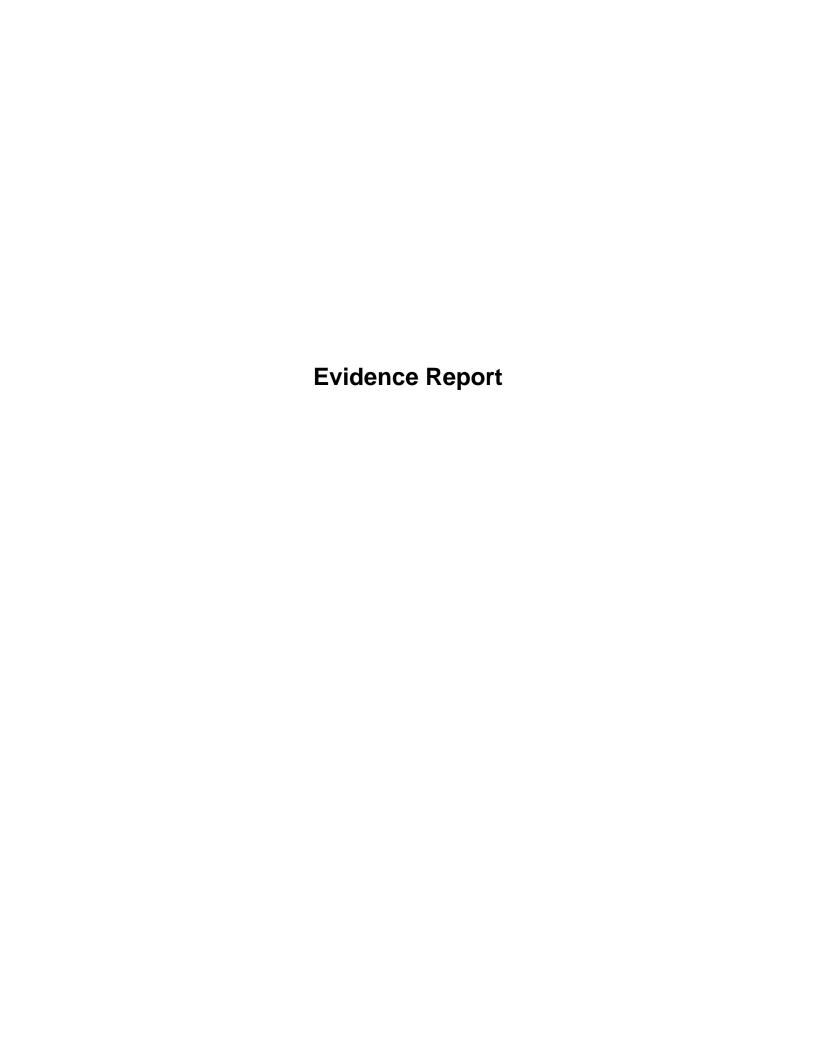
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Chapter 1. Introduction

Purpose of this Review

Over the last two decades of the 20th century, violence emerged as one of the most significant public health problems in the United States (Administration for Children and Families, 2004). While adults continue to constitute the majority of violent offenses, the decade between 1983 and 1993 was marked by an unprecedented surge of violence, often lethal violence, among young people in the United States (Administration for Children and Families, 2004). This surge of violence left countless young people and their families affected by injuries, disability, and death. Since 1993, there have been encouraging signs that youth violence may be on the decline, a trend that researchers, and the legal and policy communities are attempting to understand. The dramatic rise in youth-centered violence that began in the early 1980s precipitated an urgent and widespread drive among researchers and policy makers across multiple disciplines and sectors to understand the factors that contribute to violence and to develop interventions to address these factors and stem the tide of increasing violence. Science can play an important role in clarifying the scope of the problem, elucidating the responses needed to further reduce and/or eliminate youth violence and related harmful health behaviors, and informing both the development and evaluation of new policies and prevention interventions.

In October of 2004, the National Institutes of Health will convene a State-of-the-Science Conference on "Preventing Violence and Related Health-Risking Social Behaviors in Adolescents." The purpose of this consensus conference is to provide a forum to present longitudinal and experimental risk factor research and intervention research that has yielded information documenting the role of individual, family, school, community, and peer level influences. In preparation for this meeting, the Office of Medical Applications of Research (OMAR) and the National Institute of Mental Health (NIMH) nominated and supported the topic. The Agency for Healthcare Research and Quality (AHRQ) awarded this project to the Southern California Evidence-Based Practice Center (SC-EPC) and its partner, Childrens Hospital Los Angeles, to conduct a systematic review and analysis of the scientific evidence that exists relative to the prevention of violence and related health-risking social behaviors in adolescence, and to summarize these findings in an evidence report. This systematic review included an evaluation of the factors that contribute to violence during childhood and adolescence as well as the effectiveness of prevention interventions. The findings contained in this report will be presented at the 2004 conference.

Epidemiology of Youth Violence

According to a seminal 2001 report by the Surgeon General, youth violence is one of the Nation's most serious, insidious, and complex problems, influencing nearly every aspect of society (Satcher, 2001). In the decade that extended from roughly 1983 to 1993, an epidemic of violent, often lethal behavior emerged in the United States, resulting in untold injury, disability, and death (Cook & Laub, 1998). Indeed, during that decade, arrests of youth for serious violent offenses surged by 70 percent; more alarmingly, the number of young people who committed a homicide nearly tripled. During that same period of time, the homicide arrest rate, increased 273 percent for adolescents, 14 to 17 years (from 7.0 to 19.1 per 100,000), and 65 percent for young adults, 18 to 24 years (from 15.7 to 25.3 per 100,000). In contrast, the homicide arrest rates reported among adults 24 years and older declined by 25 percent (6.3 to 4.7 per 100,000). This

increase in homicide arrest rates among adolescents and young adults has largely been attributed to an increase in gang-related activity, an increase in illicit drug use, and the increased availability of guns and other lethal weapons (Hennes, 1998). Among the youth arrested for violent offenses, most are males (84 percent), with males accounting for 94 percent of juveniles convicted for homicide (Federal Bureau of Investigations, 1999).

Yet as we mentioned above, since 1993, the peak year of the epidemic, some encouraging signs have appeared that youth violence is declining. Three important indicators of violent behavior—arrest records, victimization data, and hospital emergency room records—have shown significant downward trends nationally. Despite these encouraging trends, homicide continues to be the second and third leading cause of death in the U.S. for persons aged 15 to 24 years and 5 to 14 years, respectively, and it is the leading cause of death among African American and the second leading cause of death among Latino youth (National Center for Injury Prevention and Control, 2004).

While students are safer in school than out of school, recent shootings in the nation's schools have focused public attention on school-related violence and crime (DeVoe, Peter, 2002). From July 1, 1992 through June 30, 1999, there were 358 school-associated violent deaths in the United States. Overall, school-associated homicide rates appear to have increased in recent years due to an increase in students killed in multiple-victim homicide events. In a 1992-1993 survey of the National School Boards Association, 82 percent of school districts nationwide reported student involvement in violence had increased over the past 5 years (Lowry, Sleet, 1995). Violent behaviors reported by districts included student-on-student assault (78 percent of districts), shootings or knifings (39 percent), and rape (15 percent of districts). An examination of more recent trends in student-on-student assaults shows that the percentages of students who reported fighting on school property declined from 16 percent in 1993 to 13 percent in 2001.

Not all violence reaches the level of homicide. Indeed, one of the most common forms of violence perpetrated by youth is physical fighting. According to the 1999 Youth Risk Behavior Survey, 36 percent of students nationwide reported having been in a physical fight one or more times on 1 or more days during the 12 months preceding the survey, amounting to 105.9 incidents of physical fighting per 100 students. Overall, male students (44 percent) were significantly more likely than female students (27 percent) to have participated in a physical fight; this finding was consistent across racial/ethnic groups and within grades (Kann, Kinchen, 2000). However, encouraging trends have emerged in the percentage of youth reporting involvement in physical fighting, with a significant decrease between 1993 and 1999.

Young males are disproportionately represented as both victims and perpetrators of all forms of violence in the United States. Of the 18,272 homicides committed in the United States in 1998, 35 percent of all victims were younger than age 25 years and 82 percent of these victims were male (Dahlberg and Potter, 2001). Males, 10 to 17, are also significantly more likely to be involved in aggravated assault and robbery than their female peers, while male students in grades 9 through 12 were more likely to report having been in a physical fight and to have engaged in physically aggressive behaviors while at school (Lowry, Sleet, 1995).

Further, the risk of violent death and of committing a violent crime is greater for young people of color and those who are economically disadvantaged. Homicide is the leading cause of death among African-American and Latino youth, 15 to 24. (Dowd, 1998) In 1998, homicide rates for African-American youth were more than twice the rate of Latino youth and more than 13 times the rate of Caucasian, non-Hispanic youth (56.5 vs. 23.3 vs. 4.2 per 100,000, respectively) (Dahlberg and Potter, 2001). In addition to having the highest homicide

victimization rate, African-American male youth also have the highest homicide arrest rate. In 1991, African-Americans were 7 times more likely to be arrested for homicide than Whites. Between 1985 and 1994, African-American males, ages 14 to 17 years, had the largest increase in homicide arrest rates (315 percent) (Hennes, 1998). However, racial differences in homicide rates appear to be mediated by both poverty and race-specific homicide victimization; homicide arrest rates become similar after controlling for socioeconomic status (Hennes, 1998).

Over the past two decades, a growing body of research has begun to identify the range of individual, social, environmental and community-level factors that are associated with an increased risk for youth violence, delinquency, and juvenile crime. Researchers generally agree that behavior, including violent and antisocial behavior, is the result of a complex interplay of individual, biological, genetic, and environmental factors that begin to exert their effects during or even prior to fetal development and continue throughout life (Bock and Goode, 1996). Evidence is also emerging regarding developmental precursors in early childhood to youth antisocial and delinquent behavior (McCord, Widom, 2001; Shonkoff and Phillips, 2000). The literature documents the exploration by researchers of potential causes for or contributors to youth violence from early childhood such as child abuse, particular parenting styles, and features of the environment or the community. A wealth of literature also documents investigations of adolescents themselves and their involvement with gangs and other peer groups, the availability of firearms in their community, and their relationships with their sexual partners, all as potential cofactors for violence. Another body of research literature looks at resiliency in an effort to find clues to why the majority of young people with similar individual, familial, and community exposures to these risk factors do not become involved in violence.

Despite this growing evidence, it has been exceedingly difficult to evaluate the strength of this evidence regarding the reported relationships between youth violence and a wide range of risk factors and protective influences. This difficulty is in part due to the fact that numerous disciplines and fields of research, including but not limited to epidemiology and public health, psychology, child development, sociology, anthropology, social work, medicine, education, and public policy, have collectively contributed to this literature, each potentially looking at and operationally defining violence, as well as risk and protective influences, in different ways. Moreover, a wide range of research study designs have been used to evaluate risk and protective influences, with varying degrees of scientific rigor. As a result, the current literature is fragmented in nature, with inconsistent findings often reported across individual studies. While numerous attempts have been made to review the literature (Dahlberg and Potter, 2001; Raine, 2002; Sampson, Morenoff, 2002; Villani, 2001), it remains unclear which risk factors are most salient across different research settings and subject populations. Consequently, it remains relatively unclear which risk and protective factors are most amenable to change through prevention. Moreover, few have attempted to perform a systematic review of the strength of the existing evidence, or to limit their scope to those studies conducted with the greatest scientific rigor. Thus, questions remain about what future research is needed to extend the current literature. It is for all these reasons that the National Institutes of Health commissioned a systematic review of the literature and the strength of the evidence reported in this literature, the results of which are summarized in this report.

Violence Prevention Programs

As the rates of violence began to increase in the 1980s, an entire field of violence prevention emerged with the design and development of many new violence prevention intervention

approaches and programs. Prevention and early intervention programs are now in place in cities and regions throughout the country; many target youth violence through early child interventions, others are specifically targeted to adolescents. And while many of these interventions have been evaluated to determine their effectiveness in preventing violent behavior that is perpetrated by youth, the quality and scientific rigor of those evaluations has varied considerably. Moreover, the research on youth violence prevention remains fragmented in nature, in part because of the wide range of interventions approaches used, some better described than others, with the specific targets for the interventions often poorly defined. In addition, given the wide range of program designs and the settings in which they are likely to be delivered, it is difficult to determine what scientific standard should be set and/or methodological approach used to evaluate existing programs with the utmost in scientific rigor. A number of youth violence interventions and prevention programs have been demonstrated to be effective (Satcher, 2001). Unfortunately, few interventions effectively address involvement with delinquent peers and gang membership. Moreover, determining which type of intervention approach might be most effective for which individuals remains largely an unsolved problem, as do sustaining positive outcomes associated with these interventions over time and enacting the kinds of national, state, and local policies that will address the underlying risk and protective factors that are so closely associated with youth violence, delinquency, and other potentially harmful behaviors.

Societal Burden of Youth Violence

The economic costs of violence can be difficult to measure. The cost of violence can be considered in terms of economic, emotional, and social costs, but no reliable estimates exist for expenditures associated with medical care, legal and social investigations, and interventions related either to nonfatal assaults or to homicide. Some estimates for medical care costs do exist. For example, medical treatment for fatal and non-fatal gunshot wounds is estimated to cost one billion dollars per year. The costs of other potential medical consequences of violence including the need for long-term institutional care, rehabilitation services, and support services to victims and their families, have not been estimated. The costs of forensic investigations, court proceedings, incarceration, or processes related to legal execution can also be considered among the economic costs of violence. One unique measure that can incorporate both financial and societal costs is Years of Potential Life Lost. . In 1994, more than 470,000 premature years of life were lost due to the homicide deaths of individuals younger than 25 years old (Dowd, 1998).

Even more difficult to measure than the economic costs of violence are the social and emotional costs. The social and emotional costs of violence include long-term physical and mental disabilities and adverse psychological and behavioral consequences for perpetrators, surviving victims, their families, entire communities, and society as a whole.

Summary

Given this growing yet fragmented knowledge base regarding a critically important public health problem, it is important to conduct a systematic review of the literature in an effort to bring the best available science to bear on future programs and policies. Summarized herein are the findings from a review of the evidence that was conducted on behalf of the National Institutes of Health's Office of Medical Applications and Research (OMAR) and the Agency for Healthcare Research and Quality's Evidence-based Practice Center.

Chapter 2. Methods

Development of the Project Team

We worked closely with the Director of the Southern California Evidence-Based Practice Center to assemble a team of clinical, behavioral, and methodological experts, most of whom were staff members and faculty at Childrens Hospital Los Angeles. The team included the Task Order Director, with overall responsibility for the project; the Task Order Manager and Synthesis Coordinator, a biostatistician responsible for the methodology of the review and with expertise in conducting evidence based reviews; the Task Order Coordinator, responsible for coordinating activities to ensure effective communication and reporting; four Task Order Literature Reviewers and Synthesizers from the fields of medicine (two pediatricians, one of whom is board certified in Adolescent Medicine) and public health; and a Librarian. Additional researchers, primarily masters and doctoral students from the fields of public health, psychology, and prevention research, joined the team for three months to assist with the primary and secondary reviews. During the first six months, the team met weekly to review and refine the methodology of the task order.

Establishment of the Technical Expert Group (TEG)

In consultation with our Task Order Officer and the NIH Conference Panel Chair, we first created a Technical Expert Group (TEG) comprising nine individuals with both content and methodological expertise in the areas of youth violence and the prevention of youth violence. Specifically, we sought to create a multidisciplinary TEG that represented a range of related fields and disciplines, including early childhood development, adolescent development, juvenile justice, child abuse and neglect, anthropology, psychology, sociology, social work, public health, and public policy. The TEG was drawn from a large pool of potential candidates identified through a review of the literature and solicitation of nominations from researchers, and representatives from related federal agencies and private foundations. The list of potential technical experts and their curricula vitae were submitted to the Task Order Officer for approval. The final roster is provided in **Appendix D1.***

Defining the Scope of Key Questions

This study was guided by a set of specific research questions that were developed by an NIMH panel of experts and modified in the Task Order. The initial Task Order specified that the team review and examine evidence related to both youth violence and delinquency. The body of published research related to youth violence and violence prevention alone was believed to be massive. Thus, one of the first efforts was to review the scope of the evidence related to youth violence and violence prevention interventions and to delinquency and to refine the key research questions that guided the Task Order. To assess the feasibility of reviewing both sets of literature, we first conducted a preliminary search of relevant databases to obtain an estimate of the number of published articles that might potentially be reviewed. From this search, we learned that MEDLINE® alone contained over 6,000 citations related to youth violence and over 11,000 articles related to youth delinquency, with little overlap between these two bodies of literature. We then determined that given the project timeline and available resources, it would

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^{*} Appendices for this report are provided electronically at http://www.ahrq.gov/clinic/tp/adolvitp.htm.

not be feasible to review the literature on youth violence as well as that on delinquency as outcome behaviors. Thus, in consultation with our Task Order Officer and the NIH Panel Chair, we limited the scope of this review to focus specifically on youth violence as an outcome. As a result, the key questions were modified to reflect the revised scope of this review. The following list of questions was used to inform the evidence review:

- 1) What are the factors that contribute to violence and associated adverse health outcomes in childhood and adolescence?
- 2) What are the patterns of co-occurrence of these factors?
- 3) What evidence exists on the safety and effectiveness of interventions for violence?
- 4) Where evidence of safety and effectiveness exists, are there other outcomes beyond reducing violence? If so, what is known about effectiveness by age, sex, and race/ethnicity?
- 5) What are the commonalties of the interventions that are effective, and those that are ineffective?
- 6) What are the priorities for future research?

Development of Causal Pathways and Analytical Framework for Key Questions

Once the scope of the evidence report and the key questions were refined, we adopted definitions for youth violence and violence prevention interventions to further guide the selection and review of the appropriate literature. The definition of youth violence that we chose was developed by the Centers for Disease Control and Prevention Injury Center:

Violence is "the threatened or actual physical force or power initiated by an individual that results in, or has a high likelihood of resulting in, physical or psychological injury or death" (National Center for Injury Prevention and Control).

The definition of violence *prevention* interventions that we chose was developed for and published in the Surgeon General's Report on Youth Violence (Satcher, 2001): "*Primary prevention interventions* are those that are universal, intended to prevent the onset of violence and related risk factors; *secondary prevention interventions* are those implemented on a selected scale for children/youth at enhanced risk for youth violence, intended to prevent the onset and reduce the risk of violence; and *tertiary prevention interventions* are those that are targeted to youth who have already demonstrated violent or seriously delinquent behavior."

We also generated a list of potential risk- and protective factors that have been found to be associated with youth violence. This list was, in turn, organized by domain – i.e., individual, family, school, peer, community, and social, and macro-level domains – and used to inform data abstraction and synthesis (**Appendix E** *).

Finally, we developed a framework to examine conceptually and analytically the associations between risk factors, violent behavior, and interventions. The Causal Pathways for Violent Behavioral Outcomes During Adolescence (**Figure 1**) focus on the age of exposure to risk factors. The Conceptual Framework for Risk and Protective Factors by Age of Exposure (**Figure 2**) depicts the potential opportunities for primary, secondary, and tertiary prevention of youth violence and associated adverse health outcomes.

As these documents were being developed, we shared them with the NIH Panel Chair and our Task Order Officer. We also discussed these documents with members of our TEG during

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^{*} Appendixes for this report are provided electronically at http://www.ahrq.gov/clinic/tp/adolvitp.htm.

several teleconference meetings, and made numerous revisions based on the feedback that we received.

Literature Search

As specified by the Task Order, the National Library of Medicine (NLM) performed all the searches that were used for this evidence review. Librarians from NLM met with project staff via teleconference to discuss the evidence review, the scope of the review, and the key questions. They also worked with project staff to select the literature databases that were ultimately used and evaluated the search strategies that had been developed by the project team.

In addition, members of the project team worked closely with the NIH Panel Chair and members of the TEG to decide how to further refine the scope of the review and hence, the search strategy. Decisions related to the scope of the review included determining which bodies of literature and search databases we would target and how far back in time we would search for related publications. Ultimately, we chose to limit our review to peer-reviewed published articles, articles retrievable within four search engines – MEDLINE®, PsychInfo, SocioAbstracts, and ERIC, and articles that were published in 1990 or thereafter, recognizing that by doing so, we would exclude a considerable segment of the literature. This decision was made in an effort to reduce the number of citations to be reviewed, given the time and resource constraints of the project and to ensure that our review was focused on the most current literature.

The decision was also made to limit the review to studies that were conducted in the United States, given growing evidence to suggest that numerous risk- and protective factors for violence are country specific, particularly factors that affect youth violence, and because the overarching purpose of the NIH consensus conferences will be to identify gaps and future research needs for research that will largely be conducted in the United States. Even with the limitations placed on the initial search for relevant literature, our first search generated over 10,000 unduplicated citations for review.

We chose to limit the scope of the review further to focus specifically on violent behavior perpetrated by youth, ages 12 through 17 years. We also did not include in our review the increasingly popular topics of verbal aggression, bullying, arson, weapon carrying, externalizing behaviors (e.g., acting out), attitudes about violent behavior, and intent to commit violence. Because our primary focus was on perpetration of violence, we also did not include the extensive literature about childhood and youth victimization. Moreover, this report does not review literature related to youth crime against property or materials (e.g. burglary, theft, vandalism). Thus, these related behaviors and attitudes are considered in this report only to the extent that they appear in the literature as risk factors for violence. In addition, the review did not include studies that examined precursors to violence that occurred in early adulthood (i.e., 18 years and older) or studies on the prevention of violence among young adults (i.e., 18 years of age and older).

As presented in **Table 1**, the NLM performed four searches in April/May of 2003 using four databases – MEDLINE®, PsychInfo, ERIC, and SocioAbstracts. The specific search strategies and terms used by NLM for these searches are provided in **Appendices A1 through A9***. Each time a search was performed, every effort was made to eliminate duplicate citations of articles that were referenced in more than one database. This process included an electronic removal of

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^{*} Appendixes for this report are provided electronically at http://www.ahrq.gov/clinic/tp/adolvitp.htm.

duplicate citations, first by NLM and then by the project librarian, followed by manual cross-checking of all citations. **Table 1** provides a summary of the number of citations generated by each step and across the searches of the various databases provided to us by NLM. After elimination of duplicates, we were left with a total of 10,852 unique citations generated by these searches. A complete record of all titles and abstracts was kept using EndNote. We then performed a preliminary screening of these citations (described below).

To ensure that articles published during the course of this project were included, the NLM conducted a second supplemental search in October of 2003, using the same search strategies and databases. This search yielded an additional 344 citations; thus a total of 11,196 citations were identified during the course of this project.

Development of Data Collection Forms

We developed three data collection forms specifically for this project, including a Title/Abstract Screening Form (Form 1), a Secondary Screening Form for Full-Length Articles (Form 2), and the Study Quality Review Form (see **Appendixes B1, B2,** and **B3***).

The Title/Abstract Screening Form was developed as an initial screening tool to evaluate whether articles were appropriate for the evidence review, given the scope and key questions. The titles and abstracts (when available) were reviewed using six criteria to determine if they were eligible for inclusion within the evidence review. Articles were rejected if 1) they did not report original research findings (e.g., the article was an editorial, letter, discussion of clinical practice, overview, consensus statement, opinion piece, or commentary); 2) violence was not an outcome of the research; 3) the research did not involve human subjects; 4) the study was conducted outside the United States; 5) the age of the study population was 18 years or older; or 6) the study did not focus on youth as perpetrators of violence. If none of the rejection criteria applied, the article was deemed eligible for further review and the full-length article was retrieved.

The Secondary Screening Form of Full-Length Articles was developed to screen full-length articles for their appropriateness, given the scope and key questions. This form included three additional eligibility/rejection criteria, including 1) citation was a duplicate citation; 2) datawere not abstractable; and 3) study did not address one of the key questions. The form was also used to record the type of study design, using coded categories developed for and published in the Agency for Healthcare Research and Quality's Evidence Report Number 47: "Systems to Rate the Strength of Scientific Evidence" (West, King, 2002).

The Study Quality Review Form was used to evaluate the quality of each individual study; this form was adapted from guidelines that had previously been established by the OMAR to evaluate the quality of study designs (ODS and OMAR, 2003). The domains and elements for evaluating individual randomized controlled trials and observational studies are included in Form 3 (**Appendix B3***).

After developing these three screening/reviewing instruments, we conducted pilot testing and training with members of the project team to ensure the reliability and validity of the screening and review of data. For the primary screening, the entire team was given the same set of 10 titles and abstracts to review. The Task Order Manager and Coordinator then reviewed the results with the team to ensure that all reviewers were in agreement about criteria for rejection and inclusion. When discrepancies were identified or questions about key terms emerged, they were

brought to the team for discussion and resolution. For the secondary review, the team was similarly trained. The Task Order Manager thoroughly reviewed the screening instrument and answered questions, particularly those regarding new reasons for rejection. Reviewers were instructed to submit questions to the Task Order Manager by email, and these questions were shared with the entire team and discussed at weekly meetings.

Screening of Retrieved Titles/Abstracts Against Inclusion/Exclusion Criteria

When the searches had been completed and the duplicates had been removed, the citations were exported from EndNote into Microsoft Word so that each individual title and abstract could be printed on its own page for screening purposes. Excel spreadsheets were also created to record the results of the screening.

Two members of the team independently screened each citation. One screener was a member of the faculty with specific expertise related to adolescent development and/or youth violence, and the other screener had a masters degree in public health or was a doctoral student in the field of psychology, public health, or prevention research. The Task Order Manager or the Task Order Coordinator compared the screening results of the two screeners, resolved discrepancies, and recorded the decisions in the Excel master file. The citations for which full-length articles were to be pulled were forwarded to our librarian for retrieval. For the rejected citations, the reason for rejection was recorded (i.e., the first reason for rejection that was identified by the screeners). This protocol was followed throughout all screening processes.

Many citations identified through the initial and supplemental searches did not include an abstract or had a limited abstract. Thus, information was sometimes inadequate to perform the initial screening. In these cases, the full-length article was retrieved and the articles were screened using the secondary screening procedures (further described below).

At each staff meeting, the team reviewed the rules and instructions for screening and discussed any questions that arose during the initial round of screening. Most of the questions that arose during this round focused on whether or not terms used in the titles or abstracts corresponded to behaviors that fell within the definition of violence employed by the Task Order. These terms included, but were not limited to, conduct disorder, verbal aggression, oppositional defiant disorder, and externalizing behavior. Since many of these terms are not used uniformly in the literature and the title or abstract generally does not provide a full description of the behavior, many of these abstracts were accepted for further review.

Retrieval and Review of Full-Length Articles

The titles/abstracts identified for further review were forwarded to the librarian for full article retrieval. Libraries at both Childrens Hospital Los Angeles and the Keck School of Medicine at the University of Southern California were the primary sources of the articles. Articles not found at either library were sought through Inter-Library Loan requests. We were able to retrieve all 1,612 full-length articles.

Two independent reviewers used the Secondary Screening Form to screen all the full-length articles; the same project staff and screening procedures used for the primary screening were used for the secondary screening. As with the title/abstract screening, the Task Order Manager compared the screening results provided by the two screeners, resolved discrepancies through consensus, and recorded the decisions on the Excel master file. This process resulted in one of two outcomes: The article was either accepted for data abstraction or rejected. As was done with

the primary screening, the first reason for rejection identified by the two screeners was recorded for all rejected articles.

Data Abstraction into Evidence Tables

For each articlethat was deemed eligible for inclusion, data were abstracted by a member of the project team and subsequently checked by the Task Order Manager. Two sets of evidence tables were constructed for this project: the Evidence Abstraction Table for Risk Factors (Evidence Table #1) which was specifically designed to address Key Questions #1 and #2, and the Evidence Abstraction Table for Interventions (Evidence Table #2) which was designed to address Key Questions #3-#5. The Task Order Manager presented drafts of the format, coding, and recording instructions for the two Evidence Tables to the team for comment and discussion. Based on this discussion, the Evidence Tables were modified prior to abstraction. The format for Evidence Table #1 and Evidence Table #2 are included in **Appendixes B4 and B5***.

To pilot test the forms, we assigned each reviewer the same two articles for abstraction: one article about risk factors and one about an intervention. As a result of this pilot testing, minor modifications were made to the abstraction forms. To ensure quality control over time, the team met regularly to discuss and review terms, procedures, and the abstraction process. In addition, reviewers submitted questions by email to the Task Order Manager, and the answers were shared with the entire review team. Most of the questions that arose during this period addressed missing data in the articles. For example, reviewers wanted to know whether or not to abstract an article when only the median age was provided (rather than the age range) and whether or not to abstract articles when the outcome reflected only attitudinal change or skill development but not a change in behavior. The Task Order Manager later checked all evidence tables for consistency and accuracy.

For the articles that addressed Key Questions #1 and #2, the following data were abstracted using the Evidence Abstraction Table for Risk Factors: 1) article identifier information, including internal record number, first author's last name, year of publication, and journal of publication; 2) characteristics of the study, including study design, study quality, sample size, age, gender and race or ethnicity description of the study population, time period, location, setting, study population, and inclusion and exclusion criteria; 3) risk factor information, including main independent risk factor(s), instrument(s) used to measure factors, and other factors studied; 4) outcome definitions and characteristics, including outcome measure(s), definition of the outcome, instrument used to measure outcome(s), type of instrument, circumstance or situational context in which the violence measured occurred, e.g. whether the violent incident was proactive or reactive, weapon used, and victim-offender relationship; 4) findings reported in the article; 5) any adverse health outcomes; and 6) whether the study was theory-driven and the theory that was used.

For the 32 articles that addressed Key Questions #3 through #5, the following data were abstracted using Evidence Abstraction Table for Interventions: 1) article identifier, including internal record number, first author's last name, year of publication, and journal of publication; 2) characteristics of the study, including study design, study quality, sample size, age, gender and race or ethnicity description of the study population, time period, location, setting, study population, and inclusion and exclusion criteria; 3) moderating and or mediating variables reported in articles; 4) outcome definition and characterization, including outcome measure(s), definition, instrument used to measure outcome, type, circumstance or situational context in

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which the violence measured occurred, e.g. whether the violent incident was proactive or reactive,, weapon used, and victim-offender relationship; 5) whether the program represented a primary, secondary, or tertiary intervention, the kind of intervention (such as behavioral, skill building, etc.), how the intervention was delivered, target population, setting where intervention was delivered, setting where subjects were recruited, professional background of the individual(s) performing intervention (e.g. teacher, psychologist, graduate student), duration of the program, and/or frequency of intervention; 6) study findings; 7) intervention effectiveness, and 8) any negative outcomes attributed to the intervention.

Review and Assessment of Study Quality

For this Task Order, we were expected to use the criteria set forth in the Procedures for EPC Reports for Office of Dietary Supplements (ODS) and the Office of Medical Applications of Research (OMAR) (ODS and OMAR, 2003) to evaluate the quality of individual articles. Thus, to assess the quality of individual articles for Key Questions #1 and #2, we first evaluated the relevance of seven criteria previously developed for use with observational studies: 1) baseline comparability, 2) concurrent controls, 3) follow-up rate greater than or equal to 80 percent, 4) valid and reliable instruments used for assessments, 5) equal application of instruments for assessment, 6) important outcomes considered, and 7) appropriate control of confounders. Because all the prospective longitudinal cohort studies included in our review satisfied criteria #1, #2, #5, and #6 in the same ways, we used the three remaining criteria (i.e., #3, #4, and #7) to evaluate the quality of articles addressing risk and protective factors associated with youth violence. In addition, although it was not considered as a criterion, we examined the participation rate of each cohort study as well as the retention rate because we believe that it is important to maximize both the participation rate and follow-up rate to achieve an unbiased study sample for prospective longitudinal cohort studies. Large participation and retention rates are especially important for outcomes such as violence, because risk factors that are likely to contribute to youth violence are also likely to be associated with both participation and attrition rates.

For the Key Questions related to effectiveness of interventions, Key Questions #3, #4, and #5, we used the criteria set forth by OMAR for randomized controlled trials and observational studies (Appendix B3*). The rating system used with randomized controlled trials consists of "Good", "Fair" or "Poor." A "Good" rating was assigned if the study fulfilled all the OMAR criteria without uncertainty, which means that comparable groups were assembled initially through adequately concealed randomization and maintained throughout the study (follow-up at least 80 percent) and an intention-to-treat analysis was used. Intention-to-treat analysis was performed for randomized controlled trials. Intention-to-treat is a strategy for analyzing data from randomized controlled trials that compares participants according to the groups to which they were originally randomly assigned. This type of analysis is generally interpreted as including all originally enrolled participants in the final analysis, regardless of the treatment they actually received, whether they subsequently withdrew, or some other deviation from the protocol (Hulley, Cummings, 2001). A study was graded "fair" if any or all of the following problems occurred: the groups assembled initially were generally comparable but some questions remained whether some (although not major) differences occurred with follow-up due to differential attrition; some but not all important outcomes were considered; and some but not all

 $^* \ Appendixes \ for \ this \ report \ are \ provided \ electronically \ at \ http://www.ahrq.gov/clinic/tp/adolvitp.htm.$

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potential confounders were accounted for. A "Poor" rating was assigned if the study failed to (at least partially) fulfill most criteria or if any of the following were reported: lack of comparability of groups assembled initially or failure to maintain them throughout the study; failure to mask outcome assessment; little or no attention given to key confounders; and lack of use of intent-totreat analysis.. The rating system used with observational studies also used the "Good", "Fair" or "Poor" categories. A "Good" rating was assigned when the following criteria were satisfied: 1) comparable groups were assembled initially and maintained throughout the study (follow-up at least 80 percent); 2) reliable and valid measurement instruments were used and applied equally to the groups; 3) all important outcomes were considered; and 4) appropriate attention was given to confounders in analysis. A study was rated as "fair" if any or all of the following problems occurred: 1) generally comparable groups were assembled initially but some question remained whether some (although not major) differences occurred with follow-up, 2) measurement instruments were acceptable (although not the best) and generally applied equally, 3) some, but not all, important outcomes were considered, and 4) some, but not all, potential confounders were accounted for. A "Poor" rating was assigned if any of the following was reported: 1) groups assembled initially were not similar or comparable, or were not maintained throughout the study; 2) unreliable or invalid measurement instruments were used to assess exposure or outcomes or not applied equally among groups, and 3) key confounders were given little or no attention.

The rating system used with case-control studies also used the same three categories: "Good", "Fair" and "Poor". A "Good" rating was assigned when the following criteria were satisfied: 1) there was an appropriate ascertainment of cases and a nonbiased selection of case and control participants (i.e., cases and controls were drawn from the same population); the exclusion criteria were applied equally to cases and controls; 2) the response rate was equal to or greater than 80 percent; 3) diagnostic procedures and measurements were accurate and applied equally to cases and controls; and 4) appropriate attention was paid to confounding variables. A "Fair" rating was assigned for studies where: 1) there was no obvious subject recruitment or selection bias, 2) the retention rate was less than 80 percent, and 3) some attention was given to possible confounding variables. A "Poor" rating was assigned if: 1) significant sampling biases were evident, 2) the response rates were less than 50 percent, or 3) insufficient attention was given to important confounding variables.

Procedures to Reduce Bias, Enhance Consistency, and Check Accuracy

To reduce selection bias, we assigned two reviewers — one faculty member with relevant expertise and one masters- or doctoral-level intern — to screen and review titles/abstracts and full-length articles at every stage of the selection process. For data abstraction, one member of the project team with at least a masters degree in public health, psychology, or prevention research abstracted the data onto evidence tables, and the Task Order Manager reviewed all of the evidence tables for data abstraction and recording accuracy.

Analysis of the Scientific Evidence

We describe here our methods of data synthesis for the two sets of key questions: Questions #1 and #2, the risk factor questions; and Questions #3, #4, and #5, the intervention questions.

Factors Contributing to Youth Violence (Key Questions #1 and #2)

Key Question #1 asks, "What are the factors that contribute to violence and associated adverse health outcomes in childhood and adolescence?" and Key Question #2 asks, "What are the patterns of co-occurrence of these factors?" where co-occurrence is defined as the simultaneous presence of two or more risk or protective factors that are predictive of violence in an individual.

We used the causal pathways depicted in **Figure 1** and the conceptual framework laid out in Figure 2 to guide the design of our analytic framework for these two questions. In Figure 1, we indicated 32 pathways from birth through outcome assessment at ages 12 to 17, broken down into 62 stage-paths or outcome-paths. A stage-path represents the path from one stage to another. An outcome-path represents the path from factor exposure to outcome within the same stage-path. In **Figure 1**, we used "A" to denote the exposure stage-path from the birth stage to the infant/toddler stage (age 0-3), "B" to denote the exposure stage-path from infant/toddler stage (age 0-3) to the early childhood/latency stage (age 4-8), "C" to denote the exposure stage-path from the early childhood/latency stage (age 4-8) to the early adolescent stage (age 9-11), D to denote the exposure stage-path from the early-adolescent stage (age 9-11) to the adolescent stage (age 12-17), and E to denote the exposure to outcome-path within the adolescent stage (age 12-17). A complete prospective longitudinal study would follow participants from birth to adolescence and would provide probabilities for each stage-path and outcome-path. Thus, a goal of our analytic framework was to estimate the probability for each stage-path and outcome-path as laid out in **Figure 1**. The probabilities derived for the 32 outcome-paths in stage E would provide us with the likelihood of violent behavior at ages 12 through 17 for the 32 causal pathways.

To address Key Questions #1 and #2, which were related to risk factors associated with youth violence, we chose to review and analyze only the published findings of studies that used a prospective longitudinal cohort study design to examine risk factors. The decision to do so was based on several factors. First, the longitudinal prospective cohort design has stronger internal validity than other designs such as retrospective cohort studies or cross-sectional studies. Second, cross-sectional studies would not allow us to scientifically identify temporal predictors of youth violence. Lastly, resource constraints would have made it difficult to analyze data from the 198 articles that reported findings from cross-sectional studies.

As previously noted, the primary outcome of interest was violence, defined as "threatened or actual physical force or power initiated by an individual that results in, or has a high likelihood of resulting in, physical or psychological injury or death" and, for this study, perpetrated by youth ages 12 through 17 years. This definition was further operationalized to include the following types of violent behavior during the adolescent years: murder or homicide, aggravated assault, non-aggravated assault, rape or sexual assault, robbery, gang fight, physical aggression, psychological injury or harm, and other serious injury or harm.

Categorization of Risk and Protective Factors. Risk and protective factors associated with the perpetration of violence were organized within five major domains: individual, family/home, peers, school, and community factors. Within each domain, we further organized the risk and protective factors into constructs, with a list of specific risk factors.

• Individual-level risk- and protective factors were divided into nine constructs: biological risk factors, race/ethnicity, physical development, neurological/cognitive development, psychological condition, school functioning, behavioral development, social ties, and life

experience.

- Risk- and protective factors within the family/home domain included five constructs: home environment, family/parent characteristics, family conflict/harmony, parenting style or care-giver behaviors, and the quality of the parent-child relationship(s).
- Peer-related risk- and protective factors
- School-related risk- and protective factors included two constructs: the characteristics of the school environment and school policies.
- Community-level risk and protective factors also included two constructs: poverty/environmental risk factors and other environmental factors such as high crime rate, exposure to violent media, easy access to alcohol and drugs, easy access to firearms.

We developed this list of risk and protective factors following an initial review of the literature and then further expanded and/or modified it as we reviewed the evidence (**Appendix** E^*).

Five age ranges/developmental stages were identified to further stratify the risk and protective factors by the timing of the exposure. These age ranges/developmental stages included prenatal exposure(prior to birth), infancy/toddler (0 through 3 years), childhood (4 through 8 years), early adolescence (9 through 11 years), and adolescence (12 through 17 years).

To examine the adverse health outcomes associated with the perpetration of youth violence, we established an additional classification scheme and coding system. The adverse health outcomes of youth perpetrators of violence were classified into five major categories: death, permanent and/or major physical disability, temporary and/or minor physical disability, mental health injury, and social health injury. Permanent and/or major physical disability included, but was not limited to, brain damage, paralysis, loss of extremities, and blindness. Temporary and/or minor physical disability included, but was not limited to, broken extremities. Mental health injuries included, but were not limited to, post-traumatic stress disorder (PTSD), depression, anxiety, and sexual problems. Social health injury included, but was not limited to, years of productive life lost, homelessness, family disruption, educational disruption, cycles of revenge and retaliation, STD/AIDS, and unintended pregnancy.

Grouping Data for Analysis. To search for homogeneous subgroups of participants for analysis, we stratified each of the studies included within the evidence review according to the following criteria:

- type of study population including gender, ethnicity, and risk level;
- characteristics of the study cohort including age at enrollment, duration of follow-up, and age at outcome assessment;
- type of outcomes being assessed; and
- type of analysis used to produce the findings.

We planned to pool findings from three or more studies within a homogeneous subgroup and provide pooled estimates of effect sizes. However, if we could not find three or more studies within a homogeneous subgroup for meta-analysis, we would use the vote-counting methods to summarize the study findings (Cooper and Hedges, 1994). Vote-counting is not the method of choice when test statistic values are reported for each study. Estimators based on vote-counting methods are less efficient than estimators based on effect sizes. Although vote-counting is not always the method of choice, in some cases we might not have a choice. If one or more of the

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studies do not report test statistics, but do report the direction and/or statistical significance of results, vote-counting procedures can be quite useful (Cooper and Hedges, 1994). In a vote-counting procedure, all studies that have data on a dependent variable and a specific independent variable of interest are examined. Three possible outcomes are defined. The relationship between the independent variable and the dependent variable is either significantly positive, significantly negative, or there is no specific relationship in either direction. The number of studies falling into each of these three categories is then simply tallied.

We summarized the study findings by the vote-counting procedure as follows:

- First, at least two cohort studies must report findings for a specific risk or protective factor. The evidence for a risk or protective factor was considered inadequate when it was reported in only one cohort study.
- Second, we classified the risk or protective factors into three categories of consistency:
 - o those consistently reported as being significantly associated with violence (defined as at least 75 percent of the studies testing an association reporting a statistically significant result);
 - o those consistently reported as being not statistically significantly associated with violence (similarly defined as ≥75 percent of studies); and
 - o those where studies reported mixed findings.

A finding was considered to be statistically significant if the article reported a p-value less than 0.05. Because of the heterogeneity in the number and type of covariates or confounding factors included in the analytic model and the inconsistency in the way effect size was reported in the literature, we did not report the effect size of a study in the descriptive summary.

In many instances, study findings from a single cohort of subjects were reported in a number of articles. When this was the case, we used the cohort study as the unit of analysis rather than the article for either positive or negative outcome. Thus, in the summary of findings, different articles that reported the same outcomes for the same cohort were counted only once, whereas, findings for different outcomes were counted once for positive outcome and once for negative outcome. We also counted the same findings from different types of analysis within one article as one finding. When a finding was reported from both a bivariate analysis and a multivariate analysis in which the effects of other covariates were adjusted, only the finding from the multivariate analysis was used. To summarize the findings for each risk or protective factor, we included, first, the number of cohort studies that showed statistically significant findings, followed by the number of cohort studies that showed non-significant findings, both set off by parentheses. A finding that showed a p-value of less than 0.05 was considered statistically significant.

Sensitivity Analyses. This method of simply counting the number of studies with a significance positive or a significant negative finding is not recommended if it does not take into account the size and strength of the associations reported in the individual studies. In order to have a better understanding of the strength of the evidence on risk or protective factors reported this way, we conducted two sensitivity analyses to examine the risk or protective factors consistently reported to be associated or not associated with youth violence perpetration. The first sensitivity analysis considered the sample size and power of the study and the second sensitivity analysis considered the study quality.

For the sensitivity analysis on sample size and power, we used the thresholds set at a sample size of 1100 for the general population and 500 for the at-risk population. These thresholds were

developed using the logistic regression model most used in the literature. **Table 2** presents the power to detect a minimum odds ratio of 1.5 and 2.0 at a 0.05 level of significance for two levels of assumption regarding the correlation between the risk factor of interest and other risk factors in the model, various levels of probability of violence, and various cohort sizes, based on the logistic regression model. If we assume a 5-percent probability of youth violence at the mean level of the risk factors in the model for the low-risk population, a sample size of 1100 would be needed to achieve at least an 80 percent power to detect an odds ratio 1.5 or higher. If we assume a 15-percent probability of youth violence at the mean level of the risk factors in the model for the at-risk population, a sample size of 500 would be needed to achieve at least an 80 percent power to detect an odds ratio 1.5 or higher.

In the second sensitivity analysis, we excluded the studies that did not meet all OMAR study quality criteria. We re-assessed the effect of heterogeneity by performing a sensitivity analysis on the subgroups of "good" quality studies, as defined by the OMAR criteria. As pointed out previously, while we initially intended to perform further sensitivity analysis by the size and strength of the association, this analysis was not possible because the size and strength of the association was often not reported and/or not abstractable.

It is important to note the difference in the analytic approaches necessary to answer Key Question #1 compared with Key Question #2. While Key Question #1 was intended to identify *independent* risk factors that have a high likelihood of leading to youth violence, Key Question #2 was intended to identify *clusters* of risk factors that may lead to youth violence. Very frequently, a factor that is found statistically significant in a univariate or bivariate analysis becomes non-significant after adjusting for other factors in the model. However, with Key Question #2, we are interested in identifying clusters of risk factors that occur simultaneously (termed co-occurrence here) and that lead to youth violence. Different from the independent factors identified in Key Question #1, the factors in a cluster are likely to be highly correlated and if we subject them to adjustment in multivariate analysis, many will likely become non-significant. Therefore, analytically, while we are looking for *independent* risk or protective factors that occur simultaneously in Key Question #1, we are looking for *dependent* or correlated risk or protective factors in Key Question #2.

Interventions for Youth Violence (Key Questions #3, #4, and #5)

Key Question #3 asks, "What evidence exists on the safety and effectiveness of interventions for violence?

Key Question #4 asks, "Where evidence of safety and effectiveness exists, are there other outcomes beyond reducing violence? If so, what is known about effectiveness by age, sex, and race/ethnicity?"

Key Question #5 asks "What are commonalties of the interventions that are effective, and those that are ineffective?"

Our analytical plan for these questions included a process of stratifying studies and then pooling outcomes across a set of homogeneous studies.

The first step in our assessment was to stratify the accepted studies by the level of intervention and the type of study design. Initially we planned to stratify the studies by the various characteristics of an intervention, including the level of prevention (i.e., primary, secondary, tertiary), type of intervention (e.g., therapeutic, cognitive-behavioral), manner in which the intervention was delivered (e.g., one-on-one, small or large group), target population, setting where intervention was delivered (e.g., home, school, or community setting), setting from

which subjects were recruited, type of professional performing the intervention (e.g., researcher, educator), and duration and/or frequency of intervention sessions. These important features of interventions might ultimately contribute to the effectiveness of an intervention. However, during our review, we found that many of the characteristics of the interventions were not described or reported in the literature. Thus, accepted studies were stratified only by the level of prevention and the study design.

An intervention was considered a primary prevention intervention when it was implemented universally, i.e., to prevent the onset of violence and related risk factors within the general population. A secondary prevention intervention was defined as an intervention that was implemented selectively with children/youth who had been identified as being at increased risk for violence, to prevent onset and/or reduce the risk of violence. Tertiary prevention interventions were defined as those interventions that were targeted to youth who had already engaged in violent behavior.

We stratified study designs into five types: randomized controlled trial, non-randomized controlled trial, prospective study, cross-sectional study, or single group time series study.

Within each stratum defined by level of intervention and study design, we further evaluated the homogeneity of the studies by the type of study population, type of outcome measures, and type of program. For the outcome measure of violence, we used the same criteria for stratification as for Key Questions #1 and #2. For the study population, we used the constructs and age brackets of the exposure factors to define the study population that received the intervention. Only published data were used (i.e., we did not contact authors for additional information). Study quality was not used as a criterion for stratification because of the lack of agreement about how to rate social science research.

Once the eligible studies were stratified according to these predefined criteria, we planned to use meta-analysis to pool the findings if three or more studies appeared in each homogeneous stratum. However, because of the heterogeneity of the study populations (age, gender, race/ethnicity, general or at-risk population), the characteristics of the programs (level, type, setting, duration/frequency), the outcome measures (rate of growth or decline, prevalence or incidence rate), and the measurement timeframes (before and after implementation; measures at one month, one year, or several years after intervention), no two programs were alike. Thus, we did not pool study findings using meta-analytic methods but summarized the findings qualitatively using the vote-counting methods instead.

Rating the Strength of Scientific Evidence

According to the OMAR guidelines, EPCs are not required to make judgments about the overall strength of a body of evidence. The rating of the strength of scientific evidence remains the prerogative of the Consensus Panel. However, we conducted two sensitivity analyses to assist the Consensus Panel to assess the strength of the scientific evidence in our review. The first sensitivity analysis addressed the adequacy of number of subjects studied. We reanalyzed the data excluding the studies with sample size below the thresholds set at 1100 for the general population and 500 for the at-risk population. The second sensitivity analysis addressed the quality of studies. We re-assessed the findings excluding the studies that did not meet all OMAR study quality criteria.

Priorities for Future Research (Key Question #6)

At the outset of the project, we established a conceptual framework (a road map of causal pathways); frameworks to categorize exposure factors, interventions, and violence outcomes; an analytical plan to assess the evidence according to key questions; and tools to assess study quality and rate the strength of the evidence. These items were used as yardsticks to measure the adequacy of the existing literature to address the key questions and to identify gaps in relevant research.

We used the findings from our rating of the overall strength of a body of evidence to identify gaps and potential areas for future research in three domains: quality, quantity, and consistency.

For quality, we addressed the extent to which the design, conduct, and analysis displayed by a body of research minimized selection-, measurement-, and confounding biases.

For quantity, we referred to the strength of the relationship between the exposure factor being evaluated and the outcome being measured, as well as to the amount of information supporting that relationship. Three main factors contributed to quantity: the magnitude of effect (i.e., estimated effects such as mean differences, odds ratio, relative risk, or other comparative measure); the number of studies performed on the topic in question (e.g., only a few versus perhaps a dozen or more); and the number of individuals studied, aggregated over all the relevant and comparable investigations, which provides the width of the confidence limits for the effect estimates.

For consistency, we referred to the degree to which a body of scientific evidence was in agreement with itself and with outside information. A body of evidence is said to be consistent when numerous studies performed in different populations using different study designs to measure the same relationship produce essentially similar or compatible results. In addition, consistency addresses whether a body of evidence agrees with externally available information about the topic. It is important to note, however, that consistency is not possible without a uniform approach to defining and operationalizing the independent and dependent variables studied.

While the first area of recommendations address the quality of the study, the second area of recommendations address the quality of the publication. We addressed the adequacy of description of the characteristics of the study such as study questions, conceptual framework, study design, description of study population, randomization procedures if any, blinding procedures, data collection procedures and instruments, validity of data collection instruments, definition of and rationale for choice of exposure factors and outcomes, analytical approaches, statistical analysis, and publication of findings.

The third area of recommendations addressed the methods we used to assess the evidence on this topic of youth violence. The criteria driving this evidence review have been effectively applied to a review of the literature relating to the treatment of illness and disease. However, we question whether these exact criteria and methods can be applied effectively in a review of research that examines such a complex social problem such as youth violence. We summarized what this evidence assessment has and has not contributed to the field and made suggestions of how future assessments of evidence could be approached.

It is our hope that this evidence report will provide a basis for future research not only in the area of youth violence, but also in the area of quality of research, quality of publications, and quality of evidence assessment methodology.

Identification of Peer Reviewers

To identify a group of Peer Reviewers, we solicited nominations from our Technical Expert Group, our Panel Chair, and national associations recommended by our Project Officer (including the American Academy of Pediatrics, the American Public Health Association, the American Association of Health Plans, the American Academy of Family Physicians, the American Society of Internal Medicine, the American Psychological Association, and the American College of Physicians, and the Society of Adolescent Medicine). The role of Peer Reviewers is to provide independent feedback about the report. As a result of these solicitations, we received nominations for 24 individuals. These individuals represented federal agencies, academia, philanthropy, clinical practice, and managed care. From this list, the Task Order Project Director invited eight individuals — representing a variety of expertise and geography — to participate. This list of peer reviewers was approved by the Task Order Officer.

Peer Review Process

A copy of the draft evidence report was mailed to each peer reviewer, along with an instruction sheet (**Appendix B10***) for reviewing the draft evidence report. A copy of the draft evidence report was also mailed to the members of the Technical Expert Group. All reviewers were asked to respond within three weeks. Six of the eight peer reviewers, six of the nine technical experts, and one AHRQ-appointed peer reviewer provided comments. **Appendix D2*** lists the names and affiliations of the six peer reviewers who submitted their comments.

Upon receipt of all responses from the peer reviewers and technical experts, the project staff compiled a summary of the comments and changes and revised the draft evidence report accordingly. We submitted a complete copy of each reviewer's comments, together with the report of disposition of those comments to the Task Order Officer for review and approval.

Appendixes for this report are provided electronically at http://www.ahrq.gov/clinic/tp/adolvitp.htm.

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Chapter 3. Results

Overview

Of the 11,196 titles and abstracts from the initial and supplemental literature searches, 1,612 (14.4 percent) met our criteria for eligibility for retrieval and secondary review. The results of the primary screening are summarized in **Table 3.** The reasons for rejecting the remaining 9,584 citations are summarized in **Table 4**. We were able to retrieve all 1,612 full-length articles. Secondary screening resulted in the acceptance of a total of 466 (28 percent) articles for data abstraction. Of these articles, 404 addressed either the first or second key question for this evidence review (i.e., these articles examined risk factors associated with youth violence), and 66 articles addressed one of the other key questions (i.e., these articles considered outcomes associated with a violence prevention intervention). Four of the accepted articles addressed both sets of questions (i.e., risk factors for youth violence and intervention effectiveness). A summary of the reasons why the other 1,146 articles were rejected is provided in **Table 5**. During the abstraction process, 201 articles were rejected because, on further review, they did not provide data that could be abstracted; the study outcome was not violence as defined by the project; or the research did not address one of the evidence review's Key Questions. The reasons for rejecting articles during this tertiary review are presented in **Table 6**. Of the 265 remaining articles, 67 were included in our evidence assessment: 35 for the risk factor questions and 32 for the intervention questions. Figure 3 presents the screening and review process used for the task order. In the following sections, we present the findings of our analysis for each of the five Key Ouestions.

Key Question #1: What are the factors that contribute to violence and associated adverse health outcomes in childhood and adolescence?

The 35 articles that were included in our assessment reported findings from 23 prospective longitudinal cohort studies; the number of articles per cohort study ranged from 1 to 6. As pointed out in Chapter 2, we used the cohort as the unit of analysis so as to assign the same weight to studies whose findings were published in a single article and studies whose findings were published in multiple articles. A list and description of the 23 prospective cohort studies is provided in **Table 7**. Additional information about the study subjects and study design for each prospective study is provided in **Table 8**, including age, gender and race/ethnicity of the study sample, duration of follow-up assessment, the sample size used in reported statistical analyses, and the retention rates.

As noted in **Table 8**, the 23 cohort studies showed considerable variability with respect to the age at which subjects were first enrolled in the study, ranging from birth to 19 years; the duration of follow-up, which ranged from 1 to 18 years; the sample size, which varied from 86 to 14,358 subjects; and the retention rate, which ranged from a low of 33 percent to a high of 100 percent. We categorized the prospective studies according to sample characteristics, including population types (general population of children or adolescents vs. an at-risk population), gender, and racial/ethnic group; this information is summarized in **Table 9**. **Table 10** summarizes the various outcomes reported in each of the published articles by type of study population, the setting from which subjects were recruited, and sample size.

From the sample-size column in **Table 10**, we can determine the adequacy of sample size for each subpopulation. Based on the sample size and power considerations in **Table 2**, a cohort size of 1100 would be needed for the general population and 500 would be needed for the at-risk population, to achieve an 80 percent power to detect an odds ratio 1.5 or higher at 0.05 level of significance. Based on these thresholds, articles that deal with cohorts #8, #9, #12, #14, #22, and #23 for the general population and cohorts #1, #2, #17, and #21 for the at-risk population would not have adequate power to identify risk- or protective factors leading to youth violence. As a result, we lacked adequate statistical power for three of the six subpopulations of the general population, all of which are ethnic subpopulations (A-3: Male, African-American; A-4: Male, White; and A-6: Female, African-American. The three subpopulations with adequate power all represent multiple races/ethnicities. For the at-risk population, only two ethnic subpopulations were studied, each in a single cohort study. Subpopulation B-2, African-American males and females, studied 867 subjects and subpopulation B-4, White males, studied 195 subjects.

We then examined the other descriptor information in **Table 10**: outcome descriptor, recruitment setting, and age, and observed that no two prospective cohort studies were alike with respect to the type of study outcome descriptor, the recruitment setting, and the age at enrollment. Thus, we did not consider it to be scientifically sound to pool data across the heterogeneous cohort studies using meta-analysis. Instead, we summarized the study findings by population groups according to adequacy and consistency, defined as follows. First, at least two cohort studies must have reported findings for a specific risk- or protective factor: the evidence for a risk- or protective factor was considered inadequate when it was reported in only one cohort study. Second, we classified the risk- or protective factors into three categories of consistency: those consistently reported as being significantly associated with violence (defined as at least 75 percent of the studies that tested an association reporting a statistically significant result); those consistently reported as being not significantly associated with violence (similarly defined as 75 percent or more of studies); and those where studies reported mixed findings. A finding was considered to be statistically significant if the article reported a p-value of less than 0.05. In this summary, we did not use the effect size as a criterion because of the heterogeneity in the number and type of covariates or confounding factors included in the analytic model and the inconsistency in the way effect size was reported in the literature.

Using these criteria, we summarized the findings for each of the study populations that had at least two cohort studies and an adequate number of study subjects together with the combined findings for all 11 population groups (**Table 11**). As described in Chapter 2, we summarized the findings for each risk- or protective factor by including, first, the number of cohort studies that showed statistically significant findings, followed by the number of cohort studies that showed non-significant findings, both set off by parentheses (a finding that showed a p-value of less than 0.05 was considered statistically significant). We further summarized the findings presented in **Table 11** for all study populations, the general population, and the at-risk population in **Tables 12**, **13**, **and 14**, respectively.

When all population groups were considered, findings for a total of 151 single factors were examined: 85 factors (56 percent) related to the individual risk domain, 40 factors (26 percent) related to the parental/familial risk domain, 11 factors (7 percent) related to the peers risk domain, three factors (2 percent) related to the school risk domain, and 12 factors (8 percent) related to the community risk domain. In addition, 12 multiple factors or pathways examined in this set of literature fell in one or more domain.

As presented in Table 12, seven individual domain risk factors were found to be consistent

predictors of youth violence, including male gender, antisocial behavior, alcohol use, alcohol and drug use, drug dealing, weapon carrying, and non-violent delinquency. Of the parental/familial risk factors, only lack of parental attachment was found to be a significant predictor of youth violence. Numerous risk factors across all risk domains were either consistently not associated with youth violence or were associated only in some studies, and many of the remaining factors were examined in only one cohort study [i.e., 47 of 85 (55 percent) factors in the individual risk domain, 22 of 40 (55 percent) factors in the parental/family risk domain, six of 11 (55 percent) factors in the peer risk domain, all (100 percent) factors in the school risk domain, and nine of 12 (75 percent) factors in the community domain]. Consequently, we judged that the strength of evidence was insufficient to be able to determine the predictive power of these factors.

While Table 12 presents findings for all 11 study populations, Table 13 and Table 14 present findings for the three subpopulations with adequate sample sizes for the general population and for the at-risk population, respectively. For the general population (**Table 13**), findings on 48 risk or protective factors were examined from seven articles based on five cohort studies. Among the 48 factors, 10 factors (20 percent) were examined among two or more cohorts. Male gender (Komro, Williams, 1999; Roitberg and Menard, 1995; Saner and Ellickson, 1996) and alcohol or drug use (Kaplan, Tolle, 2001; Komro, Williams, 1999) were consistently significant risk factors; low socio-economic status (Roitberg and Menard, 1995; Saner and Ellickson, 1996) and living in an urban setting (McNulty and Bellair, 2003; Roitberg and Menard, 1995) were consistently reported as not being significant risk factors. We should point out that Roitberg and Menard, using data from the first five years (1976-1980) of the National Youth Survey of 1,725 Americans who were 11 to 17 years old in 1976, reported that although the influence of socioeconomic status (SES) was significant in the first year of observation, the influence of SES was not significant in the subsequent three years of observation. Even for the first year, after adjusting for multiple comparisons, the influence of SES was not statistically significant. The effects of White ethnicity, alcohol use, illicit drug use, occupational strain, unstable family financial base, and low parental education were inconclusive. The evidence for the remaining 38 of 48 (79 percent) factors was derived from only one cohort study, and thus was considered inadequate as a basis for drawing conclusions.

Among boys in the general population, anger (Felson, 1992; Foshee, Linder, 2001), cigarette smoking (Dornbusch, Lin, 1999; Ellickson, Tucker, 2001) and non-violent delinquency (Becker and McCloskey, 2002; Saner and Ellickson, 1996) were consistently reported as significant risk factors for violence. Low socio-economic status (Brezina, 1999; Saner and Ellickson, 1996) was consistently reported as non-significant. Findings were mixed for the seven remaining risk factors with two or more cohort studies, including age, depression, physical aggression, illicit drug use, non-intact family structure, low parental education, and physical abuse by caretakers. Evidence for the remaining 47 of 58 (81 percent) factors were considered inadequate for assessment as they were investigated in one cohort study only.

For *girls in the general population*, non-violent delinquency (Becker and McCloskey, 2002; Herrera and McCloskey, 2003; Saner and Ellickson, 1996) was consistently reported as a significant risk factor. Illicit drug use (Dornbusch, Lin, 1999; Saner and Ellickson, 1996) and low parental education (Dornbusch, Lin, 1999; Saner and Ellickson, 1996) were consistently reported as non-significant. Age, cigarette smoking, and non-intact family structure showed mixed effects, and the remaining 44 of 50 (88 percent) factors did not have adequate evidence for assessment.

For at-risk youth (**Table 14**), male gender (in four of five cohort studies) was consistently

reported to be a significant risk factor for violence (Foshee, Bauman, 2000; Herrenkohl, Guo, 2001; McCloskey and Lichter, 2003; Rivera and Widom, 1990). One cohort study found that male gender was a significant risk factor for peer aggression and dating aggression but not for aggression toward parents (McCloskey and Lichter, 2003). Low SES was consistently reported as a non-significant risk factor (Herrenkohl, Egolf, 1997; Herrenkohl, Guo, 2001; Herrera and McCloskey, 2001). However, it should be noted that Herrenkohl and colleagues reported a significant influence of SES in bivariate analysis using data from the Lehigh longitudinal study in 1976 and data from the Seattle Social Development Project in 2001, but the influence of SES was not statistically significant after controlling for the influence of other factors in multivariate analysis. Findings on age, depression, empathy, antisocial behavior, individual involvement in pro-social activities, family's pro-violence attitude, parental violence, deviant peers, and the community's low neighborhood attachment were mixed. Finally, evidence for the remaining 41 of 52 (79 percent) risk factors was inadequate for assessment. One cohort study (Herrera and McCloskey, 2001) found increasing age as a significant risk factor, while two other cohort studies (Herrenkohl, Egolf, 1997; Rivera and Widom, 1990) found age to be a non-significant risk factor.

Among high-risk males, Latino ethnicity and repeated physical aggression (Loeber, Wei, 1999; Loeber, Wung, 1993) were consistently reported as significant risk factors. Impulsivity/attention deficit/hyperactivity disorders were reported as non-significant risk factors in two studies (Becker and McCloskey, 2002; Beyers, Loeber, 2001). Findings regarding an association with age, African-American race, positive attitude toward problem behavior, lack of guilt, having previously engaged in sexual intercourse, weapon carrying, violent behavior, poor academic performance, parental supervision or monitoring, and poor familial communication patterns were all found to be inconclusive. Evidence for the remaining 45 of 58 (78 percent) factors were judged inadequate for assessment, while findings for age were found to be mixed, with two cohort studies reporting it as a significant risk factor (Becker and McCloskey, 2002; Zhang, Loeber, 1997) and one study reporting it as a non-significant finding (Beyers, Loeber, 2001).

Among *high-risk females*, no factors were consistently reported as significant. Findings for 2 of the 32 risk or protective factors were mixed, and the evidence for the remaining 30 (94 percent) was judged inadequate for assessment.

In summary, although many risk factors were studied in the 23 prospective cohorts reviewed, 58 percent (87 of 151) of the risk factors were examined within only a single cohort study; 34 percent (52 of 151) of the risk factors had mixed findings; and only 8 percent (12 of 151) of the risk factors were consistently reported to be significantly associated with youth violence. Further, those factors that were consistently reported as significant or non-significant in this report were considered without regard to the type of violent outcome, the age at enrollment in the cohort, the type of at-risk population, and the type of analysis. Thus, additional research is needed to assess whether the associations are affected by these factors. Although we considered using meta-analysis techniques to pool findings, we found that the published data were too inconsistent and/or inadequate to allow the use of this technique.

Key Question #2: What are the patterns of co-occurrence of these factors?

While Key Question #1 was intended to identify *independent* risk factors that have a high likelihood of leading to youth violence, Key Question #2 was intended to identify *clusters* of risk

factors that may lead to youth violence. The analytic approach to the two key questions is different. Very frequently, a factor that is found to be statistically significant in a univariate or bivariate analysis becomes non-significant after adjusting for other factors in the model. For example, low SES or low family income was reported to be a significant risk factor associated with youth violence in bivariate analysis. The association disappeared (became non-significant) after controlling for the effect of other risk factors in the multivariate model. (Roitberg and Menard, 1995; Saner and Ellickson, 1996; Herrenkohl, Egolf, 1997; Brezina, 1999; Herrenkohl, Guo, 2001; Herrera and McCloskey, 2001) In contrast, Key Question #2 purports to identify clusters of risk factors that occur simultaneously (co-occur) and appear to predispose to youth violence. Unlike the independent factors identified in Key Question #1, the factors in a cluster are likely to be highly correlated and if we subject them to adjustment in multivariate analysis, many will likely become non-significant. Therefore, analytically, while we are looking for *independent* risk or protective factors in Key Question #1, we are looking for *dependent* risk or protective factors that occur simultaneously in Key Question #2.

Operationally, we defined co-occurrence as the simultaneous presence of two or more risk or protective factors that predict violence in an individual. Of the 23 longitudinal prospective cohort studies included in our assessment, only five articles from four cohort studies (Beyers, Loeber, 2001; Borowsky, Ireland, 2002; Dornbusch, Lin, 1999; Herrenkohl, Maguin, 2000; Piquero and Tibbetts, 1999) examined different types of co-occurrence of risk- or protective factors.

Using data collected from the National Longitudinal Study of Adolescent Health (Add Health), Dornbusch and colleagues (Dornbusch, Lin, 1999) examined the relationship between young people's use of drugs and involvement in violence and found polydrug use was significantly and positively associated with increased involvement in violence among both boys and girls. This same association was not found between use of a single illicit drug and violence. Also using Add Health data, Borowsky and colleagues (Borowsky, Ireland, 2002) reported the protective nature of three factors, including parent-family connectedness, school connectedness/parental presence, and grade point average; all three were found to be significantly and negatively associated with violence among both males and females. As part of the Seattle Social Development cohort study, Herrenkohl and colleagues (Herrenkohl, Egolf, 1997) reported that youth exposed to multiple risk factors were significantly more likely than non-exposed youth to engage in violence. However, in this study, only the number of risk factors and not the type of factors that co-occurred were reported. In a study that focused on repeated incidence of youth violence among high risk males recruited for the Pittsburgh Youth Study, Beyer and colleagues (Beyers, Loeber, 2001) reported that two combinations of risk factors were significantly associated with repeated violence: 1) low SES neighborhood, lack of guilt, early sexual activity, carrying hidden weapons, and poor communication at home, and 2) high SES neighborhood and physical aggression on the part of the youth. Importantly, whereas SES was consistently not reported as a significant "independent" risk factor in Key Question #1, SES was a significant risk factor when it co-occurred with other risk factors as determined in our analysis for Key Question #2. Data from the nationwide Collaborative Perinatal Project, which followed a cohort of African-American children from birth, Piquero and Tibbetts (Piquero and Tibbetts, 1999) reported that pre/perinatal disturbances — when combined with a disadvantaged familial environment at age seven years — were associated with increased risk for criminal offense during early adulthood among a high-risk, inner-city sample from Philadelphia.

Viewing the findings for both Key Questions #1 and #2, it is evident that both the dependent

and independent nature of the risk or protective factors must be properly assessed and clearly differentiated. Until this is done, controversies regarding the significance or non-significance of risk or protective factors will persist.

Study Quality For Studies For Key Questions #1 and #2

Because all the prospective longitudinal cohort studies included in our review satisfied four of the seven OMAR criteria for study quality in the same ways, we used the three remaining criteria to evaluate the quality of articles addressing risk and protective factors associated with youth violence. The criteria that were the same for all studies included: criterion 1, baseline comparability of groups; criterion 2, use of concurrent controls; criterion 3, equal application of instruments to all groups; and criterion 4, consideration of important outcomes. The three remaining criteria that we used to evaluate the quality of the individual articles are: the follow-up or retention rate (80 percent or greater), validity and reliability of instruments used for assessments, and appropriate control of confounders. **Table 15** summarizes our evaluation of these three criteria for the 35 published articles. Because one article (Loeber, Wei, 1999) included three cohort studies, the total of cohorts-articles in **Table 15** is 37. We used the cohort-article as the unit of evaluation of study quality, because the evaluation of study quality was based on the information provided in the article and the individual articles might report on different outcomes and different time periods and might use different analytic methods.

Three of the 37 cohort-articles (O'Leary and Slep, 2003; Stouthamer-Loeber, Loeber, 2001; Zhang, Loeber, 1997) did not provide information on retention rate. Of the articles that documented retention information, 18 (53 percent) reported a retention rate of 80 percent or higher. Because of the lack of information in the articles, we were unsure of the validity or reliability of the instruments used in assessments in six (16 percent) of the cohort-articles (Brezina, 1999; Felson, 1992; Kaplan, Tolle, 2001; Komro, Williams, 1999; McNulty and Bellair, 2003; Piquero and Tibbetts, 1999). Only three articles (8 percent) (Halpern, Udry, 1993; Kingery, Biafora, 1996; Stouthamer-Loeber and Loeber, 2002) did not control for confounding factors in the findings used in our assessment; 24 (65 percent) reported adjusted findings using multivariate techniques; and 10 (27 percent) adjusted for temporal relationship using path analysis or structural equation modeling.

Taking all three criteria into consideration, of the 37 cohort-articles, 16 (43 percent) fulfilled all the criteria and 18 (49 percent) did not fulfill one or more criteria. The three remaining cohort-articles (8 percent) fulfilled two of the three criteria with fulfillment of the third criterion being questionable.

While evaluating the retention (or follow-up) rate, we found inconsistencies not only in its derivation, but also in its adequacy as a measure of sample biases. In general, the sample data on which findings were based were subject to three types of biases: non-participation, loss –to-follow-up (addressed by retention rate), and missing data elements. Therefore, we further assessed quality as it relates to potential sample biases. In **Table 15**, we examine a) the number of participants and the percent of the eligible subjects who participated; b) the number and percent of participants retained in the study; c) the number and percent of participants whose data were analyzed, the denominator of which was the number of participants retained at the last follow-up; and d) the percent of participants in the initial cohort that were analyzed. The last indicator represents the net sample percent used in the analysis. We excluded three cohort-articles that did not provide adequate information (O'Leary and Slep, 2003; Stouthamer-Loeber, Loeber, 2001; Zhang, Loeber, 1997) in the comparison. If the retention rate was used as the

criterion, 18 of 34 cohort-articles (53 percent) reported a retention rate of 80 percent or higher. However, if the percent of original sample used in the analysis was used as the criterion, only three of 34 articles (9 percent) had a net sample percent of 80 percent or higher.

It is also interesting to compare the reporting of retention rates in multiple articles that used data from the same cohort study. Six cohort studies had findings published in more than one article. The articles based on the RAND Adolescent Panel Study (Ellickson, Tucker, 2001; Ellickson, Tucker, 2003; Saner and Ellickson, 1996) consistently reported retention rates under 80 percent. The articles based on the Add Health Survey (Borowsky, Ireland, 2002; Dornbusch, Lin, 1999) also consistently reported retention rates under 80 percent. The articles based on the Seattle Social Development Project (Herrenkohl, Guo, 2001; Herrenkohl, Hill, 2003; Herrenkohl, Maguin, 2000; Huang, Kosterman, 2001) consistently published retention rates over 80 percent. However, articles based on the Mother-Child Pair Study (Becker and McCloskey, 2002; Herrera and McCloskey, 2003; McCloskey and Lichter, 2003); the Pittsburgh Youth Study (Beyers, Loeber, 2001; Loeber, Wei, 1999; Loeber, Wung, 1993; Stouthamer-Loeber and Loeber, 2002; Stouthamer-Loeber, Loeber, 2001; Zhang, Loeber, 1997); and the Michigan's Youth in Transition Project (Brezina, 1999; Felson, 1992) reported inconsistent retention rates.

We believe that the participation rate, follow-up or retention rate, and complete data rate should be considered when assessing the possibility of bias in the study sample, particularly for outcomes such as violence. The risk factors that are likely to contribute to violent outcomes are also likely to contribute to non-participation, loss-to-follow-up, or missing data. It is important to point out that researchers have made considerable efforts to correct attrition or sample biases. Missing data estimation techniques or sample weights have been used in eight articles (Borowsky, Ireland, 2002; Ellickson, Tucker, 2001; Ellickson, Tucker, 2003; Herrenkohl, Guo, 2001; Herrenkohl, Hill, 2003; Huang, Kosterman, 2001; Kaplan, Tolle, 2001; Saner and Ellickson, 1996) to minimize sample size biases.

Sensitivity Analysis

To gain a better understanding of the strength of the evidence on reported risk- or protective factors, we conducted two sensitivity analyses to examine the risk or protective factors consistently reported as being associated or not associated with youth violence perpetration. First we reanalyzed the data after excluding the studies with sample size below the thresholds set at 1100 for the general population and 500 for the at-risk population. As a result, 20 articles from 13 cohort studies (out of an original 35 articles from 23 cohort studies) were included in the first sensitivity analysis. In the second sensitivity analysis, we excluded the studies that did not meet all the OMAR study quality criteria. Thus, 16 articles from nine cohort studies were included in the second sensitivity analysis. We did not perform a sensitivity analysis using articles that had both adequate sample size and good study quality because only four articles from three cohort studies satisfied both criteria, and no significant findings were reported based on these four articles.

The findings of the two sensitivity analyses are reported in **Table 16**. For each factor, we use a string of three symbols to designate the significance or non-significance of the association. The first symbol in the string represents the finding when all studies are included, the second symbol in the string represents the finding when only studies with adequate sample size are included, and the third symbol represents the finding when only studies with good study quality are included. A "+" symbol indicates a consistent finding of an association between the risk

factor and youth violence perpetration, and a "o" symbol indicates no consistent finding of no association between the risk factor and youth violence perpetration.

Factors consistently reported as being associated with violence. Male gender was the only factor that was consistently reported as being associated with violence in all three analyses. "Alcohol or drug use" and "selling drugs" in the individual domain and "low parental attachment" in the home/family domain were consistently reported as being associated with violence in two of the three analyses. Nine factors were reported as being associated with violence in one of the three analyses (**Table 16**).

When the six individual study populations were considered, no single factor was consistently reported as being associated with violence in all three analyses. Male gender (in both the general and at-risk populations); alcohol or drug use in the general population; cigarette use or smoking in the general male population; the Latino race in the at-risk male population; and repeated physical aggression in the at-risk male population were consistently reported to be associated with violence in two of the three analyses. Five factors were consistently reported to be associated with violence in one of the three analyses (**Table 16**).

Factors consistently reported not to be associated with violence. The identification of particular factors in Table 16 as consistently not being associated with violence must be interpreted with caution. Some of these factors were significant risk or protective factors in univariate or bivariate analysis but were non-significant after adjustment for other risk factors in the multivariate model. While these factors were not independent risk factors, they could be risk factors when considered along with other risk factors as we have discussed in the previous section. Low family SES was consistently reported as not being an independent risk factor for violence. Age, ethnicity other than those listed, urban residence, illicit drug use in the general female population, and impulsive-attention deficit were not associated with violence in two of the three analyses.

Summary. We have examined the adequacy, quality, and consistency of the studies and reported the sensitivity of the findings. When sample size and study quality were considered, only male gender was consistently reported as being associated with youth violence perpetration, and low family SES was consistently reported not to be associated with youth violence as an independent predictor. Reported significance or non-significance showed little consistency for all other risk factors.

Key Question #3: What evidence exists on the safety and effectiveness of interventions for violence?

A total of 32 articles were selected to address Key Questions #3, #4, and #5, the questions that address safety and effectiveness of interventions. **Table 17** provides the numbers of articles by intervention level (primary, secondary, and tertiary prevention, according to the definitions provided in Chapter 2) and by study design. Two articles reported findings for primary and secondary prevention interventions in the same article. Thus, a total of 34 intervention studies are summarized in this table. **Table 18** lists the unit of randomization for randomized controlled studies (RCTs) and the name of the intervention. We provide a description of each intervention program and its findings for the five primary prevention interventions conducted by RCT in **Table 19**, for the 10 primary prevention interventions conducted using other study designs in

Table 20, for the secondary prevention interventions conducted by RCT in **Table 21**, for the four secondary prevention interventions conducted using other study designs in **Table 22**, for the two tertiary prevention interventions evaluated by RCT in **Table 23**, and for the five tertiary interventions evaluated using other types of study designs in **Table 24**.

For this assessment, we considered an intervention program effective when at least one violent outcome indicator was found to change significantly at the p<0.05 level after the intervention. When no significant change in violent outcome indicators occurred at the p<0.05 level, we considered the program ineffective.

Of the 32 intervention studies, 13 were evaluated using a RCT, and 19 were evaluated using other study designs. Of the 13 RCTs, five incorporated primary prevention interventions (Bosworth, Espelage, 2000; Farrell, Meyer, 2003; Foshee, Bauman, 1998; Foshee, Bauman, 2000; Orpinas, Kelder, 2000; Perry, Komro, 2003); six incorporated secondary prevention interventions (Foshee, Bauman, 1998; Foshee, Bauman, 2000; Friedman, Terras, 2002; Hanlon, Bateman, 2002; Ludwig, Duncan, 2001; Moore, Armsden, 1998; Simon, Sussman, 2002); and two incorporated tertiary prevention interventions (Henggeler, Clingempeel, 2002; Scott, Tepas, 2002). Of the five RCTs used to evaluate primary prevention interventions, one (Farrell, Meyer, 2003) was reported to be effective (20 percent). Of the six RCTs for secondary prevention interventions, three (Hanlon, Bateman, 2002; Ludwig, Duncan, 2001; Moore, Armsden, 1998) were reported to be effective (50 percent). And of the two RCTs for tertiary prevention interventions (Henggeler, Clingempeel, 2002; Scott, Tepas, 2002), both were found to be effective (100 percent).

Of the 19 interventions using other study designs, 10 evaluated a primary prevention intervention, four evaluated secondary prevention interventions, and five evaluated tertiary prevention interventions. Four primary prevention interventions (40 percent) (DuRant, Treiber, 1996; Hawkins, Catalano, 1999; O'Donnell, Stueve, 1999; Reynolds, Temple, 2001), one secondary prevention intervention (25 percent) (Hammond and Yung, 1991), and three tertiary prevention interventions (60 percent) (Borduin, Mann, 1995; Morrissey, 1997; Stein, 1999) were reported to be effective. The findings of one tertiary intervention (Hagan, King, 1994) were reported to be inconclusive.

Findings: Primary Interventions (RCTs)

All five RCTs testing primary prevention intervention were conducted in a school setting. None of these studies used the student as the unit of randomization; three used the school, one used a student team, and one used the homeroom as the unit of randomization. However, each study compared the pre-test characteristics of the experimental and control groups and adjusted for identified differences in analysis.

The one effective primary prevention intervention was "Responding in Peaceful and Positive Ways for 7th Graders," (RIPP) (Farrell, Meyer, 2003). RIPP is a skills building program offered as an elective class in 12 weekly sessions. The curriculum focuses on conflict resolution and is implemented by trained interventionists. The study used the homeroom or a class period as the unit of randomization. Age and gender at pretest were significantly different between the RIPP and control students, and these differences were adjusted for in the analysis. The adjusted rate of violent behavior per 100 students at one year post-intervention was 11.2 for the experimental group and 23.1 for the control group, with a risk ratio (control to intervention) of 2.1 (95 percent CI: 1.1, 3.7, p<0.05).

Primary interventions reporting no significant effect on violence (RCT). The Safe Dates Program (Herrenkohl, Maguin, 2000; Herrera and McCloskey, 2001) was one of the four programs that reported no significant effect on violence. The Safe Dates Program focused on changing norms associated with partner violence, decreasing gender stereotyping, and improving conflict managing skills. The program was conducted by teachers in ten 45-minute sessions in conjunction with a theater production performed by peers, a poster contest, and 20 workshops for community service providers. This study used the school as the unit of analysis and compared seven experimental schools with seven control schools. Sexual violence was assessed using the mean score at one-month and one-year follow-up. Although all indicators demonstrated lower mean scores for the intervention, the difference did not reach statistical significance. No standard errors or confidence intervals were provided. The long-term effect of the program at one year post-intervention was also reported to be less than the effect one month after the intervention.

The second primary prevention intervention for which no significant effect on violence was reported was the Drug Abuse Resistance Education (DARE and DARE PLUS) program (Perry, Komro, 2003). The DARE program is a 10-week skill-building curriculum taught by police officers, and the DARE PLUS program adds a four-week peer-led parent involvement program, youth-led extracurricular activities, and neighborhood action teams to address neighborhood and school-wide issues. Growth curve analysis based on a three-level linear random-coefficients model was used to assess the efficacy of the program. Neither the DARE nor the DARE PLUS program, when compared to the control group, reported effectiveness in boys or girls. The growth rate (± SE) of self-reported violent behavior and intentions at 18-month follow-up was 0.35±0.08 per year for boys in the DARE PLUS program (n=1381) and 0.54±0.09 per year for boys in the control group (n=1093); p=0.06, a difference that did not reach statistical significance. For girls, the growth rate was 0.23±0.07 for the DARE plus program and 0.30±0.07 for the control group (p=0.24).

The third primary prevention intervention for which no significant effect on violence was reported was the Students Management Anger and Resolution Together (SMART) (Bosworth, Espelage, 2000). SMART is a computer-based multimedia program, used freely and independently by students during a single semester, that includes three major components: anger management, perspective taking, and dispute resolution. The article reported no difference in the mean aggression score (measured over the previous 30 days on four aggressive behaviors at four months after implementation) among boys: 16.1 for the experimental group (n=145) vs. 16.9 for the control group (n=90). No significant difference was reported among girls, either: 14.0 for the experimental group (n=176) vs. 13.9 for the control group (105).

The fourth primary prevention intervention that reported no significant effect on violence was the Student for Peace Program (Orpinas, Kelder, 2000). The program included formation of a school health promotion council, training of peer mediators and peer helpers, training of teachers in conflict resolution, a three-semester violence-prevention curriculum, and monthly newsletters for parents. The evaluation compared the mean reported frequency of fighting, fighting with injuries, and threatening to hurt between the experimental (n=1020 students in four intervention schools) and control (n=1226 students in four control schools) groups at one-year and two-year follow-up. All results were adjusted for academic performance and race/ethnic background and the differences between intervention and control conditions were adjusted for baseline measurement. None of the differences reached statistical significance. The most

promising effect was among boys, where the difference between the treated and untreated groups was -8.8 (95 percent CI: -18.9, 1.3).

Findings: Primary Interventions (Other study designs)

Four of 10 primary prevention interventions that used a study design other than a RCT reported effectiveness. Three were non-randomized controlled trials (NRCT) and one was a single group with pre- and post-test design.

One of the effective programs was the Seattle Social Development Project (Hawkins, Catalano, 1999), which used a NRCT design. The program consisted of a five-day teacher training session that covered proactive classroom management, interactive teaching, and cooperative learning; four hours of student training to recognize and resist social influences to engage in problem behaviors; and voluntary parent training classes in child behavior management skills. A full intervention, provided in grades one through six, consisted of five days of teacher in-service training each intervention year, developmentally appropriate parenting classes offered to parents when children were in grades one through three, five, and six, and developmentally adjusted social competence training for children in grades one and six. A late intervention, provided in grades five and six only, paralleled the full intervention for those grades. The study reported a significant reduction in lifetime violence behavior for the full intervention (-11.4; 95 percent CI: -21.3, -0.4; p=0.04; n=149 for the intervention group and n=206 for the control group) six years after the intervention, when participants were assessed at 18 years of age. No significant reduction was reported for the late intervention (-3.3; 95 percent CI: -12.0, 6.3; p=0.54; n=243 for the intervention group and n=206 for the control group).

The second program that reported effectiveness was the Chicago Child-Parent Center Program (CPC) (Reynolds, Temple, 2001). The CPC was a multi-component program focusing on education and family support. It consisted of year-round structured learning activities, a multifaceted parent program, outreach activities, ongoing staff development, health and nutrition services, and comprehensive school-age services. The intervention (n=989 children) included a half-day preschool for children ages three to four years ("early" intervention), a half- or full-day kindergarten, and school-age services in linked elementary schools for students ages six to nine years ("late" intervention). The comparison group (n=550) consisted of children who participated in alternative early childhood programs. The main outcome measure was the mean number of arrests for violent offenses between the ages of 10 and 18 years, adjusted for gender, race, risk index, early/late program, and site. The authors reported significantly fewer arrests for violent offenses between 10 and 18 years of age (adjusted mean score of 22 percent versus 35 percent, p=0.02; n=837 for the intervention group; n=444 for the control group) for the early (preschool) group, and no significant findings for the late (school-age) group (mean score of 28 percent versus 25 percent, p=0.64; n=729 for the intervention group and n=552 for the control group).

The third program that reported effectiveness was the Reach for Health Community Youth Service (CYS) Program (O'Donnell, Stueve, 1999). This study compared two interventions. The experimental intervention consisted of a 35-session, 6-month curriculum, delivered by trained instructors, that focused on drug and alcohol use, gender, and violence (including 10 sessions focusing on violence prevention) and a 3-hour-per-week community volunteer component (the actual CYS program). The control intervention included only the instructional curriculum. The experimental group consisted of 419 seventh and eighth graders from one school, and the control group consisted of 553 seventh and eighth graders from another school. Regression analyses

were used to assess the influence of treatment condition on violent behavior outcomes, controlling for gender, race, grade, and social desirability. CYS was reported to be associated with a significant reduction in violent behavior among eighth graders, measured "during the past three months" and at six-months following the intervention (regression coefficient [SD]: -0.206 [0.096], p<0.05; n=445). No significant reduction in violence was reported among seventh graders who participated in the CYS program (regression coefficient [SD]: 0.102 [0.079]; p-value not significant; n=469).

Another primary prevention intervention study that reported effectiveness was a comparison of two violence prevention curricula for students in grades six through eight from two middle schools, the Violence Prevention Curriculum (146 students) and the Conflict Resolution Curriculum (63 students) (DuRant, Treiber, 1996). Both curricula consisted of ten 50-minute classroom sessions twice weekly over five weeks. The study compared the mean frequency of use of violence and the mean frequency of fighting during the previous 30 days assessed one week before and one week after participation in the intervention. For the Violence Prevention curriculum, the mean (SD) reported frequency of use of violence decreased from a level of 0.82 (1.79) before the intervention to 0.39 (1.28) after the intervention (p=0.004). For the Conflict Resolution curriculum, the mean (SD) reported frequency of use of violence was reduced from 0.73 (1.65) before the intervention to 0.51 (1.38) after the intervention (p=0.004).

Primary interventions reporting no significant effect on violence (non-RCT). Six primary prevention interventions that used a study design other than the RCT reported no significant effect. The first of these was the Improving Social Awareness-Social Problem Solving Project, a two-year program given to fourth and fifth grade students (Elias, Gara, 1991). Violence outcomes were measured six years after participation in the intervention, when students were in the ninth through eleventh grades. No sample sizes and no standard errors were reported in the article; thus the significance of the differences in the mean scores could not be determined. For boys, the discriminant analysis findings could not be used because they included both violent and non-violent outcomes. For girls, the discriminant function that significantly differentiated the experimental and control students did not include any of the three violent outcomes, indicating that the program had no significant effect on reducing violent behaviors in girls.

The second primary prevention intervention that reported no significant effect on violence was the Peaceful Conflict and Violence Prevention Curriculum (Durant, Barkin, 2001), designed for middle school students living in or around public housing. This program consisted of a 12-week, one-hour-per-week skill-building curriculum based on social cognitive theory. The intent of the program was to teach students to identify situations that could result in violence; and to teach a series of skills: avoidance, confrontation, problem-solving, communication and conflict resolution; the conflict cycle, the dynamics of a fight, and how to express anger without fighting. The study was conducted in four middles schools — two experimental (n=292 students) and two control (n=412 students). Use of violence during the previous 30 days was assessed using a 5-item scale and measured two weeks after participation in the intervention. The evaluation did not demonstrate significant differences between the experimental group [mean (SD) violence score: 1.1 (2.2); n=233] and the control group [mean (SD) violence score: 1.2 (2.4); (n=330)], p=0.63. The pre-test scores did not differ significantly between the two groups [1.4 (2.9) versus 1.1 (2.0); p=0.31].

The third primary prevention intervention that reported no significant effect on violence was the school-based hand-held metal detector program (Ginsberg C, 1993), a year round program in

which a team of security officers visited schools weekly and scanned students at random. This study used a multiple cross-sectional study design in which it measured outcomes at two points in time but with different participants at each contact point. The percent of students that reported having been involved in a physical fight at least once during the school year following participation in the intervention was almost identical between the 243 students in the three experimental schools and the 1156 students in 12 control schools: 26 percent (95 percent CI: 14 percent-38 percent) for the intervention group and 24 percent (95 percent CI: 21 percent-27 percent) for the control group.

The fourth primary prevention intervention that reported no significant effect on violence was the Georgia Juvenile Justice Reform Act of 1994 (Risler, Sweatman, 1998). A study evaluated the impact of this new law, which mandated that adolescents, ages 13 through 17, be tried as adults if arrested for murder, voluntary manslaughter, rape, aggravated sexual battery, aggravated child molestation, aggravated sodomy, or firearm robbery. The study measured the impact of the law using a multiple cross-sectional study design for adolescents 13 through17 arrested for aggravated assault, armed robbery, sex offense, rape, and murder. The mean arrest rate pre- vs. post-intervention was 1833 versus 1726 for aggravated assault; 749 versus 857 for armed robbery; 394 versus 426 for sex offense; 121 versus 118 for rape; and 82 versus 83 for murder. None of the differences were statistically significant. The denominator unit for the rates and sample sizes were not reported.

The fifth primary prevention intervention for which no significant effect on violence was reported was the All Stars Character Education and Problem Behavior Prevention Program (Harrington, Giles, 2001) for sixth and seventh grade students, in which 629 students received the program and 739 did not. The 8-month program included whole classroom sessions, small-group sessions outside of class, and one-on-one sessions between instructor and student. Homework was used to increase interaction between students and parents. The study examined outcomes associated with different types of interventionists (i.e., specialist versus teachers versus control) among youth in three racial/ethnic groups: Whites, African-American, and Latino. The mean scores for ten items of reported violence towards other persons at one-year follow-up for students exposed to the different interventionist types were as follows: for African-American students, 1.54 with the specialist, 1.27 with teachers, and 1.59 with the control group, for Latino students, 2.07 with specialists, 1.22 with teachers, and 1.34 with the control group; for White students, 1.40 with specialists, 1.42 with teachers and 1.37 with the control group. No significant differences in mean violence score were reported at one-year follow-up, or for prevs. post-test, regardless of the type of interventionist.

The sixth primary prevention intervention for which no significant effect on violence was reported was a traditional martial arts training program (Zivin, Hassan, 2001). A martial arts master taught the program three times a week over a 10-week period. The mean \pm SD 9-item violence score rated by the teacher at four-month follow-up was 3.20 ± 1.46 for the experimental group (n=31) and 3.34 ± 1.05 for the control group (n=17). These differences were not statistically significant.

Findings: Secondary Interventions (RCTs)

Of the six RCTs for secondary prevention interventions, three were reported to be effective (Hanlon, Bateman, 2002; Ludwig, Duncan, 2001; Moore, Armsden, 1998) and three reported no significant effect in reducing youth violence (Friedman, Terras, 2002; Herrenkohl, Maguin, 2000; Herrera and McCloskey, 2001; Simon, Sussman, 2002).

One of the three secondary prevention RCTs for which effectiveness was reported was the Moving to Opportunity (MTO) demonstration project, a housing mobility experiment to study the effects of relocating families from high- to low poverty neighborhoods on juvenile crime. One experimental group consisted of 148 families with Section 8 housing vouchers that could be redeemed for housing only in census tracts with 1990 poverty rates less than 10 percent. These families also received housing-search assistance and life-skills counseling. Another experimental group consisted of 92 families with regular Section 8 housing vouchers that provided subsidies to lease private-market housing but with no limitations on where they could be redeemed. The control group consisted of 96 families on the MTO waiting list. The prevalence of arrests for violent crime during the post-program period was 2.4 percent for the MTO group and 5.0 percent for the control group, a difference (\pm SE) of 2.6 percent (\pm 1.4 percent), which was statistically significant (p<0.05). The prevalence was 1.9 percent for the Section 8 group and 3.9 percent for the control group, a difference (±SE) of 2.0 percent (±1.1 percent), also statistically significant (p<0.05). The incidence rate per 100 teens for violentcrime arrests was 2.5 for the MTO program and 5.7 for the control program, a difference (±SE) of 3.2 (\pm 1.5), which was statistically significant (p<0.01). The incidence rate per 100 teens was 1.9 for the Section 8 program and 4.3 for the control program, a difference (\pm SE) of 2.4 (\pm 1.2), which was statistically significant at p<0.01.

Another secondary prevention intervention for which effectiveness was reported was the Early Community-Based Intervention Program for the prevention of substance abuse and other delinquent behaviors (Hanlon, Bateman, 2002) for inner-city youth at high risk of adopting a delinquent lifestyle. The one-year program consisted of individual counseling; group mentoring sessions available four to five days a week after school including structured skill building activities, educational and recreational field trips, and holiday celebrations; and informal parent discussions and parent-child social events. A Poisson regression analysis that compared self-reported violent behaviors between 235 experimental subjects and 193 control subjects during the preceding six months at one-year follow-up revealed significant treatment effects (p=0.003). Means and standard errors for this particular indicator were not provided.

The third secondary prevention intervention for which effectiveness was reported was the Childhaven's Therapeutic Child-Care Program (formerly the Seattle Day Nursery) (Moore, Armsden, 1998) for abused, neglected, and at-risk infants and toddlers and their parents. The program consisted of voluntary parent education, counseling, support groups, and linkage to professional services. The average length of participation was 23 months. The experimental group included 32 children and the control group included 29 children. Nearly two-thirds (n=21) of the parents in the experimental group were substantively engaged in the program, while 25 percent (n=8) did not participate at all. At 12-year follow-up, 21 of the 32 original families in the experimental group and 14 of the 29 original families in the control group were located. During the 12-year follow-up period, significant reduction in mean violent arrests (0.04 vs. 0.30, respectively; p<0.05) and in the incidence of fighting reported in juvenile court records and school files (12 percent vs. 36 percent, respectively; p<0.05) were observed in the experimental group compared to the control.

Secondary interventions reporting no significant effect on violence (RCT). A secondary prevention intervention for which no significant effect on violence was reported was the Safe Dates Program, which also conducted a primary intervention, described above. The secondary intervention targeted eighth- and ninth-grade students who were perpetrators of violence

(Herrenkohl, Maguin, 2000; Herrera and McCloskey, 2001). The Safe Dates Program focused on changing norms associated with partner violence, decreasing gender stereotyping, and improving conflict managing skills. The intervention was delivered in ten 45-minute sessions conducted by teachers together with a theater production performed by peers and included a poster contest and 20 workshops for community service providers. The program also had a primary intervention program component (reported in the previous section). The evaluation of the secondary intervention component focused on perpetrators of violence. The unit of analysis was the school: seven schools carried out the intervention and seven served as controls. The one-month mean score for sexual violence perpetration was 0.07 for the experimental group and 0.18 for the control group, and the one-year mean score was 0.15 for the experimental group and 0.12 for the control group. The one-month mean score for violence reported in a current relationship was 0.17 for the experimental group and 0.16 for the control group; the one-year mean score was 0.15 for the experimental group and 0.12 for the control group. The differences were not statistically significant at a significance level of p less than 0.05.

Another secondary prevention program for which no significant effect on violence was reported was the project Towards No Drug Abuse (TND) (Simon, Sussman, 2002) for youth in continuation high schools. The program consisted of a curriculum of nine, 40-minute sessions delivered over three weeks by trained health educators and was designed to provide motivation, listening skills, information about chemical dependency, coping skills, information about peer norms, and help with decision-making. The study enrolled 14 experimental schools and 7 control schools. The total number of students involved in the program was 850 (no gender breakdown was provided for the sample). Sixty percent of the boys and 56 percent of the girls in the experimental schools, compared with 68 percent of boys and 55 percent of the girls in the control schools reported violence perpetration in the past 12 months. Violence perpetration included slapping, punching, kicking, beating up someone, threatening with a weapon, and injuring someone with a weapon. These differences were not statistically significant at a significance level of p less than 0.05.

The third secondary prevention program for which no significant effect on violence was reported was the Triple-Modality Classroom Program (Friedman, Terras, 2002) for court-referred adolescent males in a residential treatment facility. The intervention included 55 classroom sessions focused on helping participants (1) understand the effects of drugs, alcohol and tobacco on health and behavior and learn how to cope with temptations and pressures to start or to continue using drugs; improve self expression; learn how to control and direct one's behavior, and achieve personal and social skills; (2) control tendencies toward violence; and (3) clarify their values, explore other values, and attempt to develop and identify with a set of socially acceptable and desirable values. Participants attended an average of 34 sessions. The program studied 201 adolescent males — 110 in the intervention group and 91 in the control group. Multiple regression analysis in which the degree of violent offenses was the dependent variable, and age, years of education, race, occupation of head of household, growing up with biological parents, having been physically abused, and problem behavior and attitude were the independent variables reported no significant advantage of the program (t-statistic: +0.44, not statistically significant at p<0.05).

Findings: Secondary Interventions (Other study designs)

Four secondary prevention interventions were studied using study designs other than RCT. Effectiveness was reported for one of the four, the Positive Adolescents Choices Training

(PACT) Program. This program targeted high-risk African-American middle school students; 21 students received the intervention and 13 students did not (Hammond and Yung, 1991). The program blended cognitive methods and skill building to address interpersonal violence delivered in small groups by trainers at school sites in 37 to 38, 50-minute sessions during the school year. Of the 21 students who received the intervention, 15 attended all the sessions and six attended only some of the sessions. No pre-intervention difference was found between students who attended all the sessions, students who attended some of the sessions, and the control students with respect to suspension attributable to violence (13 percent, 33 percent, 23 percent, respectively; p=0.64). However, significant post-intervention differences were observed (0 percent, 16 percent, 54 percent, respectively; p=0.003). The time period for the outcome measure was not specified.

Secondary interventions reporting no significant effect on violence (non-RCT). The Selective Serotonin Reuptake Inhibitors (SSRIs) Treatment Program for psychiatrically hospitalized adolescents (Constantino, Liberman, 1997) was one of three programs for which no effectiveness was reported. The adolescents, who were not selected for aggressiveness, were divided into an experimental group of 19 patients who received SSRI trial for 5 weeks, and a control group of 39 patients who were hospitalized for at least four weeks but did not receive an SSRI trial. The mean number of physical aggression episodes per week for 13 experimental patients was 0.69 on the medication and 0.50 off the medication, a difference that was not statistically significant. The study also compared the mean number of episodes of physical aggression per week between the experimental and the control patients, and controlled for disruptive behavior as well as affective and psychotic disorders. No significant differences were observed, likely due to inadequate power.

The second secondary prevention intervention for which no significant effect on violence was reported was the Conflict Resolution Model of Family-Systems Intervention for Individual Parent-Child Dyads (Dykeman, 2003). This intervention was targeted to students with behavioral problems from recently dissolved families who were referred by special education teachers. Fifteen parent-child dyads met weekly for 90 minutes with a counselor for an average of three months in a community agency. The mean number of physical aggression acts (±SD) at six-month follow-up was 1.33 ± 0.90 compared with 1.73 ± 0.88 prior to intervention (p=0.11).

The third secondary prevention intervention for which no effectiveness was reported was the Alternative to Suspension for Violent Behavior (ASVB) (Breunlin, Bryant-Edwards, 2002) for high school students who have been suspended for physical violence. The program, which also included families, consisted of four, 90-minute sessions dedicated to teaching social problem-solving and thinking skills, family intervention, and anger management. The evaluation was a NRCT with pre- and post-intervention comparison. The percent of re-suspension for physical violence (i.e., fighting) per year was 7 percent for the experimental group (n=42) compared with 11 percent for the control group (n=123), a difference that was not statistically significant.

Findings: Tertiary Interventions (RCTs)

We reviewed two RCTs for tertiary interventions. Effectiveness was reported for both. One was the Turning Point Rethinking Violence (TPRV) Program (Scott, Tepas, 2002), a collaborative program designed to educate, and remediate first-time male violent crime offenders — ages 13 to 18 years — and their parents regarding the consequences of violence. The program consisted of four key components: trauma experience where participants visit a trauma

center, a hospital morgue, and an autopsy room; victim impact panel, to expose participants to the impact of violence on the family and friends of the victim; six weeks of group therapy focusing on conflict resolution and anger management; and referrals for follow-up mental health and health care services. The total face-to-face contact with program activities was approximately 14 hours. The recidivism rate, defined as conviction rate for violent offenses within one year after first violence conviction and completion of court sanctions, was 0.05 for the experimental group (n=38) and 0.33 for the control group (n=38) (p<0.05).

The other tertiary intervention for which effectiveness was reported was the Multi-Systemic Therapy (MST) Program for juvenile offenders meeting the DSM III R criteria for substance abuse or dependence (Henggeler, Clingempeel, 2002). Treatment, which included families, was characterized by intensive family services delivered in community settings (home, school, neighborhood) and the provision of comprehensive services over a 4 to 6 month period with therapists who maintained low case loads and were available on a 24-hour-a-day, 7-day-a-week basis. The mean ±SD four-year conviction rate of aggressive crimes was 0.61±0.90 for the experimental group (n=43) and 1.36±2.21 for the control group (n=37) (p<0.05).

Findings: Tertiary Interventions (Other study designs)

Five tertiary prevention interventions with other study designs were also evaluated. Effectiveness was reported for three of these programs, whereas findings from the evaluation of the fourth program were inconclusive.

One of the tertiary interventions for which effectiveness was reported was the Multi-Modal Treatment Approach, which used behavioral, cognitive-behavioral, and psychological skills training methods (Morrissey, 1997) for incarcerated male juvenile offenders. This trial compared an improved treatment approach (n=36) with an earlier version of the treatment program (n=41). The evaluation reported a one-year mean of violent incidents for each of five types of assaults — violent incidents, assault on residents, assault on staff, restraint for violence, and isolation for violence. Significant differences were reported for all five types of assault between the intervention group and the group exposed to the earlier version of the program. The one-year incidence for violent incidents was 1.5 for the intervention group and 7.1 for the control group (p<0.05). Other findings are provided in **Table 24**

Another tertiary prevention intervention for which effectiveness was reported was the Outpatient Behavioral Management of Aggressiveness in Adolescents (Stein, 1999), a single group, pre- and post-trial assessment that enrolled 16 adolescents with oppositional-defiant disorder and aggressive behaviors. The program consisted of three components — individual cognitive therapy for adolescents, the Real Economy Systems for Teens (REST) program, and the response cost program for parents to introduce the idea of consequences for aggressive behavior. Parental reports of their observations during a 20-week period showed a significant reduction in the mean rate of aggressive acts during the third phase of the program, when the response cost program was added to the cognitive and REST components of the program. After aggression stopped, weekly office visits were discontinued but the REST and response cost programs remained in effect. The parents were instructed to continue observations until the end of the program to secure stabilization of the behaviors. Parents were followed up by phone at one year; however, the findings were not reported.

The third tertiary intervention for which effectiveness was reported compared a Multi-Systemic Therapy (MST) Program (n=77) to an individual therapy (IT) program (n=63) targeting juvenile offenders at high risk for committing additional serious crimes. Findings from the

hierarchical multiple regression analysis on the number of arrests for violent crimes during the four-year follow-up period showed significant effectiveness of the MST program, p<0.003. The program was found to be equally effective with youth of both genders and of differing ethnic backgrounds.

Tertiary interventions reporting no significant effect on violence (non-RCT). One study of a tertiary prevention intervention reported no significant effect on violence. The Project Back-on-Track Program was a multi-faceted after-school diversion program for youths referred for violent offenses, who met criteria for conduct disorder (Myers, Burton, 2000). Treatment included group and family therapies, parent groups, educational sessions, community service projects, and empathy-building exercises. Youth participants met for 32 hours over four weeks, and parents or guardians were required to attend 15 hours of interventions. This program used a NRCT design in which 30 youths participated in the intervention and 30 acted as controls. The evaluation assessed the number of violent crimes (assault, aggravated assault, and attempted aggravated assault) committed over a 12-month period. Two crimes were reported for the intervention group compared with six for the control group, but the difference did not reach statistical significance.

The Stout Cottage Serious Sex Offenders Program (SSOP) (Hagan, King, 1994) was a tertiary prevention program targeting convicted adolescent male rapists. The program used both confrontational and supportive techniques in a group therapy process that met three times a week over an eight-month period. The recidivism rate during the program's two-year post discharge period was 5/50 or 10 percent for convicted sexual assaults and 14/50 or 26 percent for other convicted crimes. However, without a control group, the relevance of the recidivism rates was difficult to interpret. Therefore, we considered the findings of this study inconclusive.

Safety of interventions

The outcome indicators used for our analysis included both the reduction of violent behaviors and adverse health effects and safety. However, only three of the 32 studies considered the issue of intervention safety. The NRCT of the Selective Serotonin Reuptake Inhibitors (SSRIs) treatment program reported adverse effects of the treatment (Constantino, Liberman, 1997). Of the 19 treated patients, two experienced minor adverse effects of SSRIs. One experienced dose-dependent tremor and insomnia and another developed mild recurrent headaches. Neither patient required discontinuation of drugs. The other two studies, Student for Peace (Orpinas, Kelder, 2000) and Violence Prevention Curriculum for Adolescents and Conflict Resolution Curriculum for Youth Provider (DuRant, Treiber, 1996) included "frequency of injuries due to fights" as an outcome measure. No significant differences were found in either study between the treated and the control groups in the frequency of fighting resulting in injury.

Summary of Findings

For this assessment we used the vote-counting method (described in Chapter 2) because better methods of synthesis were not possible due to the heterogeneity of the intervention studies. For example, in terms of the level of intervention analysis, within study comparisons of interventions aimed at different levels would be the strongest level of evidence (since study level variables are controlled for), but that these did not exist. Given the absence of such data, some measure of the effectiveness of interventions at different levels could be made by simply assessing the number of effective studies at each level, although this is an imperfect measure.

Given that this is the best we could do, however, we noted that the effectiveness of the programs appeared to be associated with the level of intervention, that is, tertiary interventions were more likely to be associated with change than were primary interventions. The distinctions in apparent effectiveness among the three levels of intervention were most clearly shown with RCTs. A descriptive summary of the effectiveness of intervention programs by the level of intervention and by study design for 31 studies is provided in **Table 25.** The one study that did not report conclusive findings was excluded.

Key Question #4: Where evidence of safety and effectiveness exists, are there other outcomes beyond reducing violence? If so, what is known about effectiveness by age, sex, and race/ethnicity?

Similar to our assessment with the level of interventions, within study comparisons are the strongest analytic approach to answer this question. However, none of the studies provided the information needed to evaluate differential effects by age, gender, or race/ethnicity. Here we provide a summary of the findings we reported in the Results section for Key Question #3 for those studies that reported effectiveness of intervention programs by gender and/or ethnicity.

For primary interventions, three of the five RCTs reported findings for boys and girls — the DARE and DARE PLUS program (Perry, Komro, 2003), the Students Management Anger and Resolution Together program (Bosworth, Espelage, 2000), and the Student for Peace Program (Orpinas, Kelder, 2000). None of the evaluations of these programs compared the effectiveness of the intervention for boys vs. girls; thus, no findings on differential effectiveness can be reported. Neither of the other two RCTs reported their findings by gender, but they adjusted their findings by gender and other covariates. One of the 10 non-RCT studies reported findings separately for boys and girls (Elias, Gara, 1991). However, the discriminant analysis findings could not be used for boys because they included both violent and non-violent outcomes. For girls, the discriminant function that significantly differentiated the experimental and control students did not include any of the three violent outcomes, indicating that the program had no significant effect in reducing violent behaviors in girls.

None of the RCTs of primary interventions reported their findings by race/ethnicity; however, one study (Orpinas, Kelder, 2000) adjusted its findings by race/ethnicity but did not show the relative effectiveness by race/ethnicity. One of the 10 non-RCT studies reported findings by race/ethnicity (Harrington, Giles, 2001) but found no effectiveness for Whites, African-Americans, or Latinos; no differential effectiveness among ethnic groups within the study was reported

For secondary interventions, only one of six RCTs reported its findings by gender (Simon, Sussman, 2002) and it reported no program effectiveness in either gender group. One RCT did not report its findings by gender or race/ethnic groups but instead adjusted its findings by age, race and other covariates.

For tertiary interventions, only one of the six studies, the Multi-Systemic Therapy program (Borduin, Mann, 1995), reported its findings by gender and ethnicity. The program was associated with equivalent changes in violent behavior for youth of both genders and of different ethnic backgrounds.

We provide a descriptive summary of the effectiveness of interventions by gender and predominant racial/ethnic groups in **Table 26**.

Key Question #5: What are commonalties of the interventions that are effective, and those that are ineffective?

Similar to the assessment of effectiveness by gender and racial/ethnic groups, it is impossible to draw any conclusions about relative effectiveness of the interventions by program characteristics, because no one study explicitly compared effectiveness by characteristics of the interventions. Using the vote-counting method, we examined four characteristics of the intervention program: the setting in which the intervention took place; whether the intervention was a single or a multi-component intervention; the duration of the intervention; and the school level at which the intervention was implemented. Overall, we did not observe any significant variations in intervention effectiveness according to the delivery setting, between single and multi-component interventions, among interventions of different duration, or among interventions implemented at different school levels. However, we did observe that secondary interventions that lasted a year or longer were more likely to be found effective (as reported in four of four articles) than those that lasted six months or less (as reported in five of five articles). We provide a descriptive summary of the reported effectiveness of the interventions by the selected program characteristics in **Table 27**.

Although we intended to perform meta-analysis to pool the findings of homogeneous studies, we were unable to find such a homogeneous stratum of studies. We also planned to use meta-regression to identify the characteristics of interventions that were associated with the effectiveness of programs. However, due to the inadequacy and inconsistency of reporting measures of variation, we could not conduct a meta-regression analysis.

Study Quality of Studies for Key Questions #3, #4 and #5

Of the 32 interventions evaluated, 13 were RCTs, five on primary interventions, six on secondary interventions, and two on tertiary interventions. Eight criteria were used to evaluate the study quality of RCTs: 1) was randomization method adequate to assemble comparable groups? 2) was blinding or concealment method used in treatment allocation? 3) was blinding or concealment method used in outcome assessment? 4) were primary and secondary outcomes reliable and valid? 5) was the comparability of groups maintained throughout the study (80 percent or greater)? 6) was intent-to-treat analysis or similar analytical method used? 7) were important outcomes studied? 8) were all potential confounders accounted or controlled for? Since we selected only those studies with relevant violence outcomes, criterion #7 was common to all studies. In our evaluation we combined criteria #2 and #3 into one. Therefore, we evaluated the quality of the 13 RCTs using six criteria; the findings are presented in **Table 28**.

Although all 13 studies are RCTs, only four randomized the subjects adequately. The other nine studies did not adequately randomize the subjects, as evidenced by significant baseline differences between the intervention and comparison groups. In eight of the nine studies that did not adequately randomize the subjects, the researchers adjusted for the differences in the final analysis. All but one of the 13 RCTs controlled for confounding factors in analysis. Only two of the 13 RCTs used blinding techniques for treatment assignment or for outcome assessment, reflecting the difficulty of blinding in behavioral studies. Intent-to-treat analysis was generally not performed; only four of the 13 RCTs used intent-to-treat analysis. Rate of follow-up of study subjects was not reported in two studies and was over 80 percent in six. The validity of instruments used to measure outcomes was reported in ten studies and was not reported in three.

Only for one study was the instrument not considered valid.

Strictly speaking, none of the 13 RCTs fulfilled all six criteria enumerated here. If we excluded the randomization adequacy criterion, the blinding criterion, and the validity outcome criterion, and evaluated the quality based on the remaining three criteria — the 80 percent or greater follow-up rate, the use of intent-to-treat analysis, and the controlling of confounders in analysis, then two of the 13 RCTs fulfilled these three criteria. We do not believe that this system of evaluating study quality truly reflected the quality of the studies because the OMAR study quality criteria were derived primarily from clinical studies, and many of these criteria are not generally applicable to studies such as those considered in this analysis. The need to develop valid instruments to evaluate the quality of studies in the social sciences is apparent.

Chapter 4. Discussion

Overview

In this report, as in all efforts to systematically review and analyze a vast body of scientific evidence relating to a complex topic, it was necessary to make a number of decisions in an effort to clearly define, and in some cases, narrow the scope of this evidence review. Consequently, this review has a number of limitations. These limitations relate to the definition of violence used and, as a result, behaviors that were excluded from the review; the limitations also include the age range used to define adolescents, the timeframe of the literature reviewed, and because of the heterogeneous nature of the studies identified, the types of analysis and the kinds of conclusions we were able to draw.

First, the research staff decided to use the Centers for Disease Control and Prevention's (CDC's) definition of violence, which defines violence as "the threatened or actual physical force or power initiated by an individual that results in, or has a high likelihood of resulting in, physical or psychological injury or death". We operationalized the definition to include the following types of violent behavior during the adolescent years: murder or homicide, aggravated assault, non-aggravated assault, rape or sexual assault, robbery, gang fight, physical aggression, psychological injury or harm, and other serious injury or harm. By selecting this definition and limiting our focus to violence that was perpetrated by youth, we did not review the growing literature that relates to suicide, verbal aggression, bullying, weapon carrying, externalizing behaviors (e.g., acting out), attitudes about violent behavior, and intent to commit violence. Moreover, we did not review literature related to youth crime against property or materials (such as burglary, theft, vandalism, arson). These violence-related behaviors and attitudes were included in this review only to the extent that they appear in the literature as risk factors for violence.

Based on the CDC's definition, we reviewed interventions that examined only changes in youth violence as an outcome. Consequently, we did not review intervention research that analyzed only other related outcomes such as conflict resolution or negotiation skills, attitudes about violence, bonding with school, or relationships with pro-social peers.

Given the scope of the Task Order, we also chose to limit our focus to address violence as perpetrated by adolescents, ages 12 through 17 years. No universally accepted age definition of adolescence exists. While there is consensus that adolescence is the period between childhood and adulthood, some experts believe that adolescence ends with the age of majority, 18, while others extend adolescence to age 19, 21, or 24. Because of our chosen age parameters, we did not review the literature that describes violence perpetrated by children and pre-adolescents, nor did we review the literature related to violence perpetrated by those we defined as young adults, i.e. those 18 and over. In addition, we included early childhood interventions designed to reduce violence only if they include outcomes reported during adolescence.

Given our limited time and resources, we needed to further limit our evidence review to include only peer-reviewed published articles and articles retrievable by four search engines – MEDLINE®, PsychInfo, SocioAbstracts, and ERIC. We also decided to include only articles that were published in 1990 or later, recognizing that by doing so, we would exclude a considerable segment of the literature. Also excluded were published findings from research conducted outside the United States. To be sure, awareness is growing that violence, including youth violence, is a global problem. Examining risk and protective factors identified within

other regions and countries, and using these data to make international comparisons, would no doubt be an interesting and important endeavor. Unfortunately, such comparisons were outside the scope of this review.

Finally, we made the decision to limit our review to prospective longitudinal cohort studies to examine the evidence on risk and protective factors associated with youth violence. This decision was scientifically driven and made in an effort to ensure that our review was focused on the highest quality and most current literature. To be sure, the numerous cross sectional studies that have been conducted related to youth violence may shed light on risk factors that are worthy of further study. However, longitudinal studies of the same individuals have the greatest power to reveal possible risk and protective factors for and to test the effects of interventions on subsequent outcomes.

In this chapter, we provide a discussion of the findings from this evidence review according to each of the key questions, including a discussion of the methodological challenges inherent in performing this type of evidence review for such a topic. From this discussion, we offer a set of recommendations for future research priorities (Key Questions #6).

Risk Factors Contributing to Youth Violence (Key Questions #1 and #2)

Because few studies examined a comparable set of risk factors (i.e., many risk factors were examined only by a single study), our ability to draw conclusions based on the available evidence was limited. Across all studies, only one risk factor, male gender, was consistently reported as being significantly associated with youth violence perpetration. As an independent factor, low family SES was consistently reported not to be associated with youth violence; however, the co-existence of low SES with other potential risk factors increased the risk of youth violence. No other potential risk factors were consistently associated with increasing the risk for youth violence.

Among studies that specifically focused on adolescent males, we identified a consistent association between violence and anger, cigarette smoking, and non-violent delinquency. For adolescent females, we consistently identified a significant association between violence and non-violent delinquency. For research conducted with at-risk youth populations, being Latino was consistently associated with repeated physical aggression among adolescent males; no consistent findings were identified for research conducted with at-risk adolescent females.

Our attempt to draw conclusions from the literature regarding risk factors for youth violence has raised more questions than it answers. Methodological, analytical, and other issues limit our ability to derive conclusive findings from existing studies. In the following sections, we outline some of these issues to elucidate the challenges that the scientific and policy community must face to truly understand the antecedents to youth violence.

Issues Challenging Analysis of the Data

Definition of violence as an outcome variable. While this evidence review selected and included only studies that examined perpetration of violence as a primary outcome, we saw no uniformity in how violence was defined and measured. Some studies restricted their definition and measure of violence to physical assault, while others clustered homicide, rape/sexual assault, and other types of assault together. Additionally, studies often used different conceptual and theoretical models to guide and inform their research, as well as different approaches to measuring and analyzing these data. In this review, we treated all outcome measures equally,

whether studied individually or as an aggregate. Thus, we were not able to examine the individual risk factors associated with each specific form of violence (e.g., fighting versus homicide versus sexual assault). Ideally, with sufficient power, one would examine the various risk factors associated with each form of violence, and then examine the types of risk factors that are common to or shared across the various forms of violence.

Co-occurring versus independent predictors. The intent and the analytical implication of Key Question # 1 was distinct from those of Key Question #2. While we were looking for independent predictor(s) for youth violence in Key Question #1, we were looking for dependent risk or protective factors that occurred simultaneously in Key Question #2. In our review for Key Question #1, we reported the findings from multivariate models that controlled or adjusted for the effect of other factors included in the models. For Key Question #2, we reported the findings that occurred simultaneously as a cluster. Different from the independent predictors identified in Key Question #1, the factors in a cluster that occurred simultaneously were likely to be highly correlated. Frequently, a factor found statistically significant in a univariate or bivariate analysis was found non-significant after adjusting for other factors in the model. For example, Herrenkohl and colleagues (Herrenkohl, Egolf, 1997; Herrenkohl, Guo, 2001) reported a significant influence of SES in bivariate analysis using data from the Lehigh longitudinal study in 1976 and data from the Seattle Social Development Project in 2001, but the influence of SES was not statistically significant after controlling for the influence of other factors in multivariate analysis. Until both the dependent and independent nature of the risk and protective factors are properly assessed and clearly differentiated, controversies regarding the significance or nonsignificance of those factors will persist.

Non-significant findings. In analyzing the literature to identify independent risk- and protective factors, some factors were consistently found not to be associated with violence. A factor could be found not to be significantly predictive of violence for either of two reasons: either the factor is truly not associated with later violence or it has not heretofore been possible to conduct a study that allows the association to be measured. A factor may or may not appear to be meaningful or significant, depending on whether researchers are interested in identifying independent predictor(s) or dependent predictors that occur simultaneously, that is, whether univariate or bivariate analysis or multivariate analysis is conducted, as discussed above. From an analytical perspective, the non-significance of a finding might be related to sample size and power. Non-significance could be related to small sample size or inadequate power to detect a significant difference. Thus, a non-significant finding in a study with a small sample size may not eliminate the potential importance of a risk factor.

Heterogeneity of study populations and designs. For research syntheses, the number and heterogeneity of studies that assess the same or similar populations becomes important. That is, if the study populations, conditions, independent variables, outcomes, and original method of analysis are sufficiently different, attempting to draw meaningful conclusions from combined data can become difficult. For the current analysis, heterogeneity in both study populations and study characteristics (including dependent variables) limited the numbers of studies whose data could be compared, thus challenging our attempts to discern potentially significant factors.

Risk factor definitions, measures and analysis. Another analytical issue relates to cross-study differences in the definition, measurement, and analysis of risk factors. Major differences were identified in the operational definitions and measurements of risk and protective factors across most of the studies we reviewed. Thus, meta-analytic techniques could not be used to pool those risk/protective factors across the various studies. Such differences have no doubt contributed to some of the confusion that currently exists within the field. For the current evidence assessment, the differential grouping of several factors into constructs presented a problem. For example, some studies considered "alcohol and other drug use" as a risk factor while others considered "illicit drug use". This made it difficult to decide whether findings for them should be pooled because when factors were grouped into domains or constructs, the subtlety and/or uniqueness of individual factors might be lost. In our assessment, we used the factors as defined in the articles with no attempts to combine them into constructs. This may present difficulties in interpretation when one attempts to compare our findings with those in other reviews.

Challenges with Interpretations of Specific Findings

The issues and challenges described above have a significant impact on the interpretation of our findings related to key constructs of interest such as SES, age, and race/ethnicity. The demographic constructs are of interest to the Conference Panel as indicated in Key Questions #4. The socio-economic indicator is of interest as it has been shown to be a confounding factor in racial differences in homicide rates (Hennes, 1998).

Socio-economic status (SES). As we noted earlier, low SES or low family income was not consistently reported as a significant independent risk factor for youth violence. One reason could be that we included only studies that expressly used the term SES rather than including studies of factors such as low parental education or unstable financial base. Therefore, if a study reported that low parental education was a predictor but low SES was not, we reported them as two separate findings. We did not investigate whether the finding would be the same if we combined findings for participants with low parental education and those with low SES as a predictor.

Another reason that low SES was found not to be an independent significant risk factor for youth violence was that, as mentioned, the effect disappeared with multivariate analysis when other confounding factors were taken into consideration (Saner and Ellickson, 1996; Brezina, 1999; Herrenkohl, Egolf, 1997; Herrenkohl, Guo, 2001; Herrera and McCloskey, 2001).

Age. The findings on the effect of age were mixed, depending on many clinical and analytical factors. A significant effect of age was found in two cohort studies but not in seven other cohort studies when all population groups were combined. One study found age to be significant with bivariate analysis but not multivariate analysis (Herrenkohl, Egolf, 1997). A cohort study that examined risk factors from age six through 12 reported that age was a significant factor among boys but not girls (Becker and McCloskey, 2002, Herrenkohl, Hill, 2003). Another study that examined the role of childhood abuse and neglect in violence (Rivera and Widom, 1990) found that age was a significant factor for adult but not juvenile violent crimes. In a study that examined the risk factors for dating violence perpetration (Foshee, Bauman, 2001), age was not reported as a significant risk factor for either boys or girls. However, because the study used a follow-up period of only one year, the true impact of age could not be determined. In a study that examined repeated violent behavior in boys (Beyers, Loeber, 2001), age was found to be a

significant risk factor in low SES areas but not in high SES areas. However, this effect disappeared with multivariate analysis.

Race/ethnicity. Findings regarding the effect of race/ethnicity should also be interpreted with caution. Across all study types, all types of violent behaviors, and all study populations, Latino ethnicity was reported as a significant risk factor in four of seven cohort studies. And those studies that found an effect for Latino ethnicity were no more homogeneous than those that did not. Thus, no real conclusions can be drawn from the existing studies regarding the effect of race or ethnicity as a risk or protective factor.

The following series of findings illustrate the difficulties we faced in generalizing results from studies with different outcome measures of violence. In a large longitudinal cohort study for the general population when only fighting was considered as the violent behavior, being Latino was not a significant risk factor (McNulty and Bellair, 2003). In the article by Loeber et al. (Loeber, Wei, 1999) that reported findings on at-risk boys from three cohort studies, the findings on being Latino were mixed. When "fighting" was considered as the violent behavior, being Latino was a significant risk factor in one cohort study but not in another. When "rape, attack, and strongarm" were considered as the violent behaviors, being Latino was reported as a risk factor in both cohort studies. In another large cohort study for the general population, being Latino was reported as a significant risk factor among boys but not among girls (Dornbusch, Lin, 1999) when interpersonal violence perpetration was the outcome. Lastly, in a large study for inner-city male adolescents, where race/ethnicity was defined more specifically as Cuban, non-Cuban Hispanic, American Black, White, Haitian, Caribbean Black, Nicaraguan, and others (Kingery, Biafora, 1996), being Latino (Cuban or non-Cuban Hispanic) was not reported as a significant risk factor for "gang fights," "using force to get money or items," or "beating someone for no reason." In this study, being Caribbean Black and Nicaraguan were found to be risk factors for these violent behaviors. In a study for at-risk boys, being Latino was not reported as a significant risk factor for repeated violent delinquency either in high SES or low SES areas (Beyers, Loeber, 2001). These mixed findings for race/ethnicity illustrate the difficulties in combining and/or interpreting findings from different studies.

Effectiveness of Interventions for Youth Violence (Key Question #3)

Disregarding study design, we identified 16 articles that addressed 15 primary interventions, 11 articles that addressed 10 secondary interventions, and seven articles that addressed seven tertiary interventions. Thirteen of these studies were RCTs: five (37.5 percent) assessed primary interventions, six (46 percent) assessed secondary interventions, and two (15 percent) assessed tertiary interventions. Focusing only on these RCTs, one of five (20 percent) primary interventions, three of six (50 percent) secondary interventions, and two of two (100 percent) tertiary interventions were effective.

In general, this increasing effectiveness with increasing level of intervention is not unexpected. The overarching goal of most primary prevention interventions is to reduce risk behaviors that have been observed under some conditions to lead to violence. Therefore, their outcome indicators focus primarily on reduction of potential risk behaviors, such as use of illicit drugs. In contrast, the target populations for secondary and tertiary interventions to reduce violent behavior (or any behavior) are those already at heightened risk for or already engaging in the behavior. Thus the goal of those interventions, particularly tertiary interventions is more

likely to be reduction in violence outcomes, the focus of our analysis. We considered an intervention effective only if it was associated with a reduction in violence outcome(s), not if it merely reduced risk behaviors. Therefore, our findings for primary interventions should be interpreted in light of this contrast. What is more, a tertiary intervention is more likely to be successful than a primary intervention, because the target population is small and homogeneous with respect to prior engagement in the behavior of interest, compared with the population for a primary intervention.

In many of the RCTs we reviewed, although the unit of analysis was the individual subject, the unit of randomization was frequently not the individual subject but an aggregated unit of individuals, such as a school, team, homeroom, family, or youth bureau. This inadequacy in randomization results in inherent differences between the experimental group and the control group of subjects as was evidenced by the need for eight of the 13 RCTs to adjust for differences in the characteristics of the two groups in analysis. Further, cross-contamination can occur in group-randomized controlled trials that can influence the apparent effectiveness of programs. However, RCTs that enroll individual participants are extremely difficult to implement in "real world" settings, especially in the behavioral and social sciences; thus, group RCTs are frequently used instead. Therefore, more research should be focused on the design, implementation, and analysis of group RCTs to increase their scientific rigor. For example, the question of what is a sufficient number of groups to detect a minimum level of group difference needs to be addressed, as does the question of how to rigorously analyze the effectiveness of interventions where the group is the target of the intervention and where there are likely to be important group effects. Research in this area will contribute greatly to the rigor of the methods used in the social sciences.

Program Effectiveness by Age, Gender, and Race/Ethnicity (Key Question #4)

Similar to our assessment with the level of interventions, within study comparisons are the strongest analytic approach to answer this question. However, none of the studies provided the information needed to evaluate differential effects by age, gender, or race/ethnicity. Thus we resorted to the use of the "vote-counting" method (see Chapter 2) to summarize the findings.

Effect of age. The focus of this assessment was on violence perpetrated by adolescents, 12 through 17. Thus, we limited our review to published articles that reported intervention effectiveness in this age range. Because of the small number of studies identified, we did not subdivide the data for the 12 through 17 age range into smaller ranges.

Effect of gender. To assess the effect of gender on program effectiveness, we combined all types of study designs, using only studies that reported the gender distribution of their study subjects. Of the 21 studies that assessed effectiveness for both males and females, nine demonstrated effectiveness (43 percent), compared with two of four studies (50 percent) that enrolled only males. Among the five studies that presented findings for males and females separately, all but one found that the effectiveness of the interventions was the same for both genders; the one exception was a NRCT of a secondary prevention intervention.

Effect of race/ethnicity. For race/ethnicity, when we used the predominant ethnic group as the reference and combined all study designs, the effectiveness of interventions was found to be

ethnic-specific: three in 10 (30 percent) studies with predominantly Caucasian subjects, nine in 12 (75 percent) studies with predominantly African-American subjects, and none (0 percent) of the two studies with predominantly Latino subjects. Due to the small number of studies, these statistics should be viewed as descriptive in nature.

Commonalities of the Interventions That Are Effective, and Those That Are Ineffective (Key Question #5)

Similar to the assessment of effectiveness by gender and racial/ethnic groups, it is impossible to draw any conclusions about relative effectiveness of the interventions by program characteristics, because no one study explicitly compared effectiveness by characteristics of the interventions.

The most important characteristic that differentiated the effectiveness of the interventions was the level of the intervention – i.e., whether it was primary, secondary, or tertiary. Based on our analysis of the RCTs, effectiveness was reported in one of five (20 percent) primary interventions, three of six (50 percent) secondary interventions and two of two (100 percent) tertiary interventions. Although the number of studies is too small for statistical significance and although the results were based on the vote-counting method (see Chapter 2), the observed findings are clinically meaningful. The findings from studies using other designs are less clear than those from RCTs. Thus the type of study design might play a role in detecting program effectiveness.

Further, our finding that the effectiveness of interventions increases with the level should not be misconstrued as discrediting primary interventions. Primary interventions are frequently designed with the goal of preventing attitudes and behaviors that could lead to violence and are not directed towards reducing violence itself. Therefore, it would be more appropriate to measure population effectiveness (and use an appropriate intermediate outcome) for primary interventions rather than individual effectiveness as we have used in this review. A growing body of literature assesses the effectiveness of programs targeted to communities or neighborhoods. The efforts by developmental researchers to quantify community or neighborhood effects will no doubt contribute significantly to the evaluation of the effectiveness of primary intervention programs.

In our attempt to evaluate other characteristics of the intervention programs that might distinguish effective programs from ineffective programs, we did not observe any significant variations in intervention effectiveness according to the delivery setting, between single and multi-component interventions, among interventions of different duration, or among interventions implemented at different school levels. However, we did observe that secondary interventions that lasted a year or longer were more likely to be found effective (as reported in four of four articles) than those that lasted six months or less (as reported in five of five articles). Again, it is important to note that this analysis included only a small number of studies; thus, patterns, if any, would require further substantiation.

We believe many other characteristics of an intervention program might play a significant role in that program's effectiveness. One such characteristic is the success or failure related to the implementation of the intervention, such as the degree to which participants attended the sessions; this information was generally not reported within the articles reviewed nor consistently reported. A considerable contribution to the future literature would be the consistent reporting of intervention characteristics, as well as a description of the approach used to implement prevention interventions.

Limitations and Priorities for Future Research (Key Question #6: What are the priorities for future research?)

Given the restricted scope of the project and the methodology required for assessing the evidence, this report can not draw many conclusions, and many of the findings are clinically intuitive (e.g. male gender as a consistent risk factor, polydrug use leading to increased violence in boys and girls, youth exposed to multiple risk factors being more likely to engage in later violence). Much of the value of this report is in the identification of the current status of research on youth violence, the existing research gaps and inconsistencies, and the need for additional scientifically rigorous studies. The inconsistent reporting of the details of various intervention programs made it essentially impossible to evaluate comparative program effectiveness by individual program characteristics.

In the following sections, we address the limitations of our analysis and priorities for future research in five specific areas: 1) risk factors contributing to youth violence, 2) intervention programs for the prevention of youth violence, 3) quality of publications, 4) rating of study quality and 5) evidence assessment methodology. At the outset, we established conceptual and analytic frameworks, i.e., a road map of causal pathways, for organizing exposure to risk and protective factors — including participation in prevention interventions — and violence outcomes. We used these constructs to identify gaps in research with respect to our ability to assess the relationship between exposure to risk/protective factors and violence outcomes.

Risk Factors Contributing to Youth Violence

Definition, scope, and type of youth violence. As previously noted, we found little consistency in the definitions used by the various studies to define youth violence and/or violence related outcomes. Some studies defined violence according to one or more discrete behaviors, others used a composite score, while others combined related violent and non-violent behaviors in their definition of violence. Further, while we had hoped to be able to differentiate between lifethreatening and non-life-threatening violence outcomes, few studies provided the information needed to make such a distinction. We believe that first and foremost, an effort needs to be made to develop some uniformity in the ways that youth violence and violence-related outcomes are both defined and operationalized, and these definitions should be incorporated into future research so that study conditions become more uniform and consistent. We therefore recommend that experts from the fields of psychiatry, psychology, sociology, criminal justice, public policy, and education launch a national effort to develop comparable approaches to defining, measuring, and analyzing research data related to youth violence, and that new initiatives be funded to facilitate the collection of comparable data across multiple sites, with multiple youth populations, by researchers from various theoretical orientations and disciplines. Such multi-site cooperative agreement studies would permit the use of combined prospective cohorts from which a common standardized dataset could be assembled and analyzed.

Framework for studying risk factors. While previous research has largely focused on the identification of risk factors associated with or predictive of youth violence, the ways in which risk and protective factors are defined and measured across studies and study populations show little consistency. This lack of consistency has contributed to difficulties in synthesizing findings across studies for the purpose of ultimately developing a cumulative knowledge base. Moreover, much of the research that has been conducted to examine risk factors has been conducted without

a framework within which to organize and integrate the temporal and lateral co-occurrences of risk factors. Although we have observed increasing efforts in this area, such as the creation of developmental pathways, they represent only a beginning because of the difficulties inherent in longitudinal studies and the requirement for large, uniform, and comprehensive datasets for such endeavors. Considerable effort is needed in this specific area of research. An important starting point would be to convene a consensus conference with experts representing the disciplines mentioned earlier, to develop consensus on how to define, conceptually organize, and measure risk and protective factors that may be associated with youth violence.

Study designs and methods. Of the 233 studies identified as being relevant to risk factors for violence, the majority were cross-sectional studies (71 percent or 165 studies). Cross-sectional studies are important in identifying risk factors that may be associated with violence, but they do not allow assessments of developmental pathways or the temporal and/or lateral causal patterns that culminate in violence. The longitudinal cohort study design is the gold standard and the only design appropriate to draw such conclusions. The ideal design would be a *natural* longitudinal cohort followed from birth and through all stages of childhood and adolescent development. However, longitudinal studies present many obstacles, such as non-participation and attrition. Future research must concentrate on minimizing both non-participation and attrition. While natural longitudinal cohorts must be established, *pseudo* longitudinal cohorts could also be developed. This would involve the coordination of existing longitudinal cohorts focused on various stages of development, different types of study populations, and different types of outcomes in order to assemble a common dataset for analysis. Such an effort would require strong central support and cooperation from all parties involved.

Another area of future research would be to compare the findings from cross-sectional studies with that from longitudinal studies in order to identify how and in what ways findings from cross-sectional studies could be used for longitudinal research. For example, what are the risk or protective factors that could be validly obtained from cross-sectional studies and which ones could not? What are the sources of data or methods of data collection in cross-sectional studies that would produce valid information on an individual equivalent to that from longitudinal studies?

Interventions for the Prevention of Youth Violence

Design and conduct of intervention studies. Of the 32 studies that were relevant to the key questions on interventions, only 13 (41 percent) were RCTs: five for primary prevention interventions, six for secondary prevention interventions, and two for tertiary prevention interventions.

Due to differences in the type of interventions implemented, as well as differences in the types of outcomes evaluated, we were not able to pool studies within a specific level of intervention (e.g., primary versus secondary prevention). We recommend more randomized controlled interventions at each level, as well as trials that enroll sufficient numbers of youths of both genders, the range of ages, varying race/ethnicity, and the spectrum of other characteristics thought to increase the risk of youth violence in order to permit comparative analysis.

What's more, greater effort is needed when the unit of randomization is larger than the individual to minimize differences and increase comparability of groups as well as to ensure that the appropriate analytical techniques are used to adjust for differences, if any. We encourage the use of advanced statistical techniques that allow for complex sampling schemes.

Analytic approach to study effectiveness by population subgroups or program characteristics. The analytic approach taken by researchers of these intervention studies in our review was to examine the effectiveness within each population subgroup rather than investigating the differential effectiveness between population subgroups such as gender or ethnic groups. The intent of Key Question #4 could be interpreted as either or both. If the interest of the researcher is to identify the differential effectiveness of a specific program between gender groups or among ethnic groups, then the researcher must design the study and measure the differential effectiveness of the intervention between and among the subgroups of interest. Evaluating the effectiveness within each subgroup (as most of the intervention studies that we have reviewed) does not provide the same information. Therefore, we recommend that more efforts should be placed in differentiating the two types of analytic approaches to study effectiveness, whether one is interested in within differences or between differences.

The science of intervention development and evaluation. Our finding that the description and the characterization of the intervention programs have not been consistent points to the need not only to standardize the execution and reporting of interventions but also to the need to refine the scientific approaches to translate research into practice, in our case, to translate research findings into intervention development and evaluation. Consensus building efforts are needed to identify and clarify the science related to a) the use of conceptual frameworks and causal pathways for youth violence, b) risk factors and mechanisms leading to violent outcomes, c) strategies and interventions to reduce violent outcomes, d) methodologies and scientifically grounded approaches to evaluate prevention interventions, e) the effective use of policy to reduce youth violence, and f) methodologies for evaluating such policies. We recommend that the field use the greatest scientific rigor possible, including the use of control populations and extended follow-up, to evaluate the sustained effectiveness of youth violence prevention interventions.

Quality of Publications

We attempted to evaluate the quality of each study with a defined set of criteria. However, we were not satisfied with these evaluations because the information provided in the publications was both inconsistent and inadequate. The characteristics of a study such as the study questions, conceptual framework, study design, description of study population, randomization procedures, blinding procedures, data collection procedures and instruments, validity of data collection instruments, definition of and rationale for choice of exposure factors and outcomes, analytical approaches, statistical analysis, and publication of findings could not be properly evaluated on a consistent basis, given the information in the articles. The inadequacy of the description of these methodological issues relates to both the space restriction imposed by journals and the lack of a standard for the type and amount of information to be included in the publication. Special efforts to improve the quality of publications are encouraged.

Rating of Study Quality

When we attempted to evaluate study quality, we found that the available instruments were not appropriate for use in the social sciences. The OMAR study quality criteria were derived primarily from clinical studies, and many are not applicable to studies of social phenomena such as youth violence. We believe that a unique set of instruments should be developed to evaluate the quality of both observational and experimental studies in the social sciences.

For prospective longitudinal studies, we have shown that a high retention rate alone is inadequate to measure sample bias. In general, the sample data on which results were based were subject to three types of bias: non-participation, lost-to-follow-up (addressed by retention rate), and missing data. Therefore, the retention rate represents only one of three components of sample bias. We believe that the participation rate, follow-up or retention rate, and proportion of participants with complete data should be considered when assessing the possibility of bias in the study sample, especially for outcomes such as violence. The risk factors that are likely to contribute to violent outcomes are also likely to contribute to non-participation, loss to follow-up, and missing data.

For intervention studies, we have shown that in a strict sense, none of the 13 RCTs evaluated in our review fulfilled all six criteria put forth by OMAR. However, we do not believe that this system of evaluating study quality truly assessed the quality of the studies we reviewed because the OMAR study quality criteria were derived primarily from clinical studies. Unlike many clinical interventions for medical conditions, youth violence interventions are often multifaceted, involve the efforts of multiple parties (e.g., teachers, parents, school administrators, etc.), are conducted over long periods of time, and can be adversely affected by factors that cannot be anticipated, characteristics that make the studies difficult to evaluate. The nature of the interventions in social science studies can also preclude some of the methodological components critical to clinical trials. For example, many interventions are school or classroom based; thus, random assignment of individual students is not only logistically impossible but could threaten validity in other ways. Nor could randomized trials be used to evaluate the impact of a state law, given the obvious fact that individuals residing in the state cannot be randomly assigned to be subjected or not subjected to the law and the sanctions for breaking it. Even when randomized trials are possible, double blinding is not exactly relevant to some outcome measures (e.g., formal arrests made by the police). The need to develop valid instruments to evaluate the quality of studies in the social sciences is apparent.

Evidence Assessment Methods

Finally, we would like to comment on the methods used to assess the evidence for this topic. The Southern California Evidence-based Practice Center (SC-EPC) has applied these evidence assessment methods to evaluate the literature on a variety of clinical topics in the past. This report, which represents the SC-EPC's first use of the methods to assess evidence for a social science topic, demonstrated to us that such methods have limited value in the study of youth violence. Because of the complexity of the problem, the multi-factorial nature of contributing factors, and the multiple components of violent behaviors, it was virtually impossible to identify sets of data with sufficient homogeneity to allow pooling of data using meta-analytic technique.

Another difficulty we encountered in this assessment was the inability to abstract needed data from some of the articles. For example some articles excluded information that might have permitted data pooling, some combined outcomes of interest with those of no interest, and some reported on studies with vague age limits. A large number of potentially eligible articles within our scope were excluded for reasons such as these; thus, we believe that our assessment was based on only a small subset of potentially relevant studies. Alternative approaches should be considered to assess evidence for topics such as youth violence.

To circumvent the difficulties we described, we recommend that for future systematic reviews, the use of an *individual-level-data meta-analysis* method be considered (Stewart and Clarke, 1995; Stewart and Parmar, 1993) to identify temporal and lateral co-occurrences of

contributing factors. This approach calls for collaboration among investigators from various institutions who have been following cohorts of children prospectively, to contribute data on individual members of their cohorts. Eligible cohorts are identified based on a priori criteria. Risk factors, interventions, and outcomes of interest are also defined a priori. The unique feature of individual-level-data meta-analysis is the ability it confers to retrieve a uniform set of data directly on risk factors, characteristics of intervention, and outcome measures, case by case. This case-specific data set could then be analyzed using advanced statistical techniques such as the trajectory estimating method (Nagin and Tremblay, 1999). A meta-analysis of updated individual patient data has been found to provide the least biased and most reliable means of addressing questions that have not been satisfactorily resolved by individual studies (Stewart and Parmar, 1993). However, the quality of data and the ability for cohort investigators to collect and share relevant data are important factors in the success of this approach (Stewart and Parmar, 1993). Furthermore, when compared with meta-analysis of summary data from the literature, the individual-level-data-meta-analysis is markedly more costly in terms of data retrieval, study management, and monitoring and requires considerable forward planning and incentives for investigators to collaborate on study design, measurement procedures, data analysis, data documentation and archiving, and the sharing of data as well as recognition. The cost efficiency of meta-analysis summary data from the literature over analysis of variance of individual patient data has been shown for multiple homogeneous studies (Olkin and Sampson, 1998; Mathew and Nordstrom, 1999), such as those carried out in clinical research. However, as we have discussed, studies of topics such as youth violence are often beset by complexities that preclude the compilation of homogeneous data for meta-analysis but that increase their suitability for the individual-level-data-meta-analysis approach, despite the cost.

Another factor that complicated our use of evidence assessment methods was the decision to rely solely on published articles. This restriction precluded use of reports that summarized findings from program evaluations (which, typically, are not published as such) and which could have added to the scope and breadth of the review. For future research and program development, it is highly recommended that a survey of federal agencies, foundations, and other appropriate entities be conducted to identify current and recent research and program evaluation activities. Producing a synthesis or summary of study-group findings and other comprehensive activities that respond to the Task Order questions might also be helpful (e.g., the Campbell Collaboration report on evidence-based criminal justice programming; the Surgeon General's report on violence; the National Research Council's *Juvenile Crime/Juvenile Justice*). Such a survey would provide data for the formulation of recommendations regarding the development of a national research and program development agenda.

Summary of Notable Points on the Utility of the Report

The overarching goal of this review is to bring the greatest scientific rigor to the evaluation process to identify the highest quality research findings on the topic of youth violence. With the severely restricted scope of the project, much of the value of this report was the identification of the current status of research on youth violence, the existing research gaps and inconsistencies, and the need for additional scientifically rigorous studies. Some notable points from the review included the following:

• The need for national efforts to develop comparable definitions, measurements, and analytical techniques for research data on youth violence;

- The need to facilitate the collection of comparable data across multiple sites and with multiple youth populations;
- The need to consider the use of individual-level-data-meta-analysis to examine temporal and lateral co-occurrences of risk factors contributing to youth violence;
- The recognized need to minimize non-participation and attrition in research studies;
- The call for recognition of pseudo prospective cohorts from which a common dataset can be assembled and advanced statistical analyses can be conducted;
- The need for conceptual frameworks and causal pathways, risk factors and mechanisms, effective strategies and interventions, scientifically grounded methodologies to evaluate prevention interventions, and effective use of policy and methodologies to evaluate these policies;
- The recognition of essential elements of quality publications; and,
- The need to assess and clearly differentiate the dependent and independent nature of the risk- or protective factors contributing to youth violence perpetration.

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Table 1. Citation counts for 2003 youth violence searches

Database	Search	Number of citations
MEDLINE	Search #1: April - Systematic Reviews	1051
	Search #2: May - General Search	3921
	Search #3: June - Revision	982
	Search #4: July - Search for Direct, etc.	16
	MEDLINE Total:	5970
PsychINFO	Search #1: May - General Search	3488
	Search #2: June - Revision	479
	Search #3: July - Search for Direct, etc.	2
	PsycINFO Total:	3969
ERIC	Search #1: May - General Search	495
	Search #2: June - Revision	101
	Search #3: July - Search for Direct, etc.	0
	ERIC Total:	596
SocioAbstracts	Search #1: May - General Search	183
	Search #2: June - Revision	179
	Search #3: July - Search for Direct, etc.	0
	SocAbs Total:	362

FINAL TOTAL: 10,897*

^{*} After internal elimination of duplicates, the net count was 10,852.

Table 2. Sample size and power considerations for logistic regression model

- Parameters in the Table:
 1. Level of Significance at 0.05
 2. Correlation of this covariate (R) with others in model at 0.3 and 0.5
 3. Probability of violence at mean level of covariates at 0.15, 0.10, and 0.05.
 4. Minimum detectable odds ratio at 1.5 and 2.0.

Probability at		Pov	wer to detect min	imum odds ratio I	evel
mean level of	Sample size	Odds ratio at 1.5		Odds ra	tio at 2.0
covariates		R=0.3	R=0.5	R=0.3	R=0.5
	200	57%	50%	92%	86%
	300	72%	65%	98%	96%
	400	83%	76%	100%	100%
	500	90%	84%	100%	100%
0.15	600	94%	89%	100%	100%
(for high-risk population)	700	96%	93%	100%	100%
population)	800	98%	96%	100%	100%
	900	99%	97%	100%	100%
	1000	100%	98%	100%	100%
	1100	100%	99%	100%	100%
	200	46%	40%	83%	76%
	300	60%	53%	95%	90%
	400	71%	64%	98%	96%
	500	80%	73%	100%	99%
0.10	600	86%	79%	100%	100%
0.10	700	90%	85%	100%	100%
	800	93%	89%	100%	100%
	900	96%	92%	100%	100%
	1000	97%	94%	100%	100%
	1100	98%	96%	100%	100%
	200	30%	27%	62%	54%
	300	40%	35%	78%	71%
	400	49%	43%	88%	82%
0.05	500	57%	50%	94%	89%
(for general	600	64%	57%	97%	94%
population)	700	70%	63%	99%	96%
	800	76%	68%	99%	98%
	900	80%	73%	100%	99%
	1000	84%	77%	100%	99%
	1100	87%	80%	100%	100%

Table 3. Primary screening results before and after discrepancy resolution

(A) Initial searches in April through July 2003

	Before resolution		After resolution		—% of resolution
Outcome	#	%	#	%	resulted in retrieval
Retrieve	1029	9.3	1567	14.4	32.3
Disagree	1664	15.4	0	0.0	
Reject	8159	75.3	9285	85.6	<u></u>
Subtotal	10852	100.0	10852	100.0	

(B) Supplemental searches in November 2003

	Before re	Before resolution		solution	% of resolution
Outcome	#	%	#	%	resulted in retrieval
Retrieve	33	9.6	45	13.1	85.7
Disagree	14	4.1	0	0.0	
Reject	297	86.3	299	86.9	<u></u>
Subtotal	344	100.0	344	100.0	

(C) Combined results of initial and supplemental searches

	Before resolution		After resolution		% of resolution
Outcome	#	%	#	%	resulted in retrieval
Retrieve	1062	9.5	1612	14.4	32.8
Disagree	1678	15.0	0	0.0	
Reject	8456	75.5	9584	85.6	<u></u>
Total	11196	100.0	11196	100.0	

Table 4. Reasons for rejecting 9,584 titles/abstracts during primary review

Rejection reason ^a	Number	Percent
R1: Not a study ^b	3559	37.1
R2: Study outcome is not violence as defined	4725	49.3
R3: Not a human subjects study	15	0.2
R4: Not a US Study	248	2.6
R5: Age of population studied is over 17 years	514	5.4
R6: Study not focused on youth as perpetrators	503	5.2
R7: A duplicate citation	9	0.1
R8: Data not abstractable ^c	0	0.0
R9: Does not addresses our key question(s)	11	0.1
Total	9584	100.0

^a The first reason of rejection between the two reviewers is reflected.

^b Not a study included: case report, editorial, letter, clinical practice, overview, guidelines, consensus statements, methodology, opinion, commentary, description of a program, and review.

^c This rejection reason was not used until the secondary screening of full-length articles.

Table 5: Reasons for rejecting 1,146 full-length articles during secondary review

Rejection reason ^a	Number	Percent
R1: Not a study ^b	243	21.2
R2: Study outcome is not violence as defined	291	25.4
R3: Not a human subjects study	1	0.1
R4: Not a US Study	193	16.8
R5: Age of population studied is over 17 years	144	12.6
R6: Study not focused on youth as perpetrators	115	10.0
R7: A duplicate citation	26	2.3
R8: Data not abstractable ^c	92	8.0
R9: Does not addresses our key question(s)	41	3.6
Total	1146	100.0

^a The first reason of rejection between the two reviewers is reflected.

^b Not a study included: case report, editorial, letter, clinical practice, overview, guidelines, consensus statements, methodology, opinion, commentary, description of a program, and review.

^c Either the outcome of interest (i.e. violence) or the age group of interest is embedded in the findings and cannot be pulled out. The only exception is when the outcome of an article covers an age range larger than our scope, i.e. 12-17, but the mean age is between 12-17, it will not be rejected.

Table 6. Reasons for rejecting 201 full-length articles during data abstraction

Rejection reason ^a	Number	Percent
R1: Not a study ^b	7	3.5
R2: Study outcome is not violence as defined	23	11.4
R3: Not a human subjects study	0	0.0
R4: Not a US Study	1	0.5
R5: Age of population studied is over 17 years	4	2.0
R6: Study not focused on youth as perpetrators	17	8.5
R7: A duplicate citation	12	6.0
R8: Data not abstractable ^c	83	41.3
R9: Does not addresses our key question(s)	54	26.9
Total	201	100.0

^a The first reason of rejection between the two reviewers is reflected.

^b Not a study included: case report, editorial, letter, clinical practice, overview, guidelines, consensus statements, methodology, opinion, commentary, description of a program, and review.

^c Either the outcome of interest (i.e. violence) or the age group of interest is embedded in the findings and cannot be pulled out. The only exception is when the outcome of an article covers an age range larger than our scope, i.e. 12-17, but the mean age is between 12-17, it will not be rejected.

Table 7. Description of original cohort studies

Cohort ID#	Study name	Study purpose, description of cohort, year, frequency of contact
1	Lehigh Longitudinal Study	The Lehigh Longitudinal Study began in the 1970's as a prospective study of children and families to examine the correlates and consequences of child maltreatment. Data were collected from multiple sources at three key developmental points for children (preschool/early childhood, middle childhood/school-age, and adolescence). Study participants were sampled from child welfare abuse and protective service programs, Head Start centers, and from child care programs in Pennsylvania. The sample included 457 children. An initial assessment of children and their families was completed in 1976-77, when children were of preschool age. A second assessment of the children and their families was completed in 1980-1982 when the children were in elementary school. A third and final assessment was completed in 1990-1992 when children were adolescents or young adults. That assessment included 416 (91%) of the original 457 children.
2	Mother- Child Pair Study	Between 1990 and 1991, 363 mother-child pairs recruited from a mid-sized city in the Southwestern US were interviewed to assess the impact of marital violence on children's mental health and development. Participants were recruited from both battered women shelters and the community at large. Subjects included mothers who reported that they had been "abused by a partner in the past year" (n=141) and a comparison group (n=146). Children were between the ages of 6-12 at enrollment. These families were followed up during 1996-1997 and 1998-1999. While the findings are based on a convenience sample, the investigators took steps to ensure that the sample was representative of a wide range of women in the community.
3	Seattle Social Development Project	The Seattle Social Development Project (SSDP) began in 1981 to test strategies for reducing childhood risk factors for school failure, drug abuse, and delinquency. First graders in five Seattle schools were assigned to intervention or control classrooms. Each year through the elementary grades, parents and teachers in intervention classrooms learned how to actively engage children in learning, strengthen bonding to family and school, and encourage children's positive behaviors. In 1985, when the original first graders entered the fifth grade, the panel was expanded to 808 students from 18 Seattle elementary schools. These participants and their parents have been interviewed regularly since 1985. http://depts.washington.edu/ssdp/
4	National Youth Survey	The National Youth Survey began in 1976. At that time 1,725 adolescents between the ages of 11 and 17 years old as well as one of their parents were interviewed. Participants were chosen by a scientific method designed to select individuals representative of the national population. 28 years later this study is ongoing. Now called the National Youth Survey - Family Study (participants who were once 11-17 are now 39-45), this study has followed these individuals throughout time to look at their changing attitudes, beliefs and behaviors about topics such as career goals, involvement with community and family, attitudes about violence, drugs, and social values. http://www.colorado.edu/ibs/NYSFS/index.html
5	RAND Adolescent Panel Study	The RAND Adolescent Panel Study was a longitudinal study of middle (junior) high school students from California and Oregon conducted to evaluate a drug prevention program developed for middle school children. Participants were initially surveyed as seventh graders in 1985 and then, again, five years later. Rigorous tracking enabled the project to retain nearly 70 percent of the seventh grade sample over this five-year period. http://www.rand.org/publications/RB/RB4547/

Table 7. Description of original cohort studies (continued)

Cohort ID#	Study name	Study purpose, description of cohort, year, frequency of contact
6	National Longitudinal Study of Adolescent Health	The National Longitudinal Study of Adolescent Health (ADD Health) is a nationally representative study that explores the causes of health-related behaviors of adolescents in grades 7 through 12 and their outcomes in young adulthood. Add Health seeks to examine how social contexts (families, friends, peers, schools, neighborhoods, and communities) influence adolescents' health and risk behaviors. Initiated in 1994 under a grant from the National Institute of Child Health and Human Development (NICHD) with co-funding from 17 other federal agencies, Add Health is the largest, most comprehensive survey of adolescents ever undertaken. Data at the individual, family, school, and community levels were collected in two waves between 1994 and 1996. Wave I included 90,118 in-School Interviews. Wave 2 included 14,738 adolescent In-Home Interviews. In 2001 and 2002, Add Health respondents, 18 to 26 years old, were re-interviewed in a third wave to investigate the influence that adolescence has on young adulthood. Wave 3 included 15,197 young adult In-Home Interviews and biomarker collection. http://www.cpc.unc.edu/addhealth
7	Widom National Institute of Justice Study	This study was designed to explore the relationship between child abuse and neglect and violent criminal behavior. This study examined the official criminal histories of a large number of people whose sexual victimization during childhood had been validated. These victims of sexual abuse were compared to cases of physical abuse and neglect and to a control group of individuals who were closely matched in age, race, sex and appropriate family socioeconomic status. The subjects were 908 individuals who had been subjected as children to abuse (physical or sexual) or neglect, and whose cases were processed through the courts between 1967 and 1971. All were 11 years of age or younger at the time of the incident(s). The research method used a "matched cohorts" design. Both groups were followed into adolescence and young adulthood to determine if they had engaged in delinquent behavior or had committed crimes as adults. At the time they were chosen for the study, none of them had as yet engaged in delinquent or criminal behavior. The major aim of this study was to determine whether sexual abuse during childhood puts victims at greater risk for criminal behavior later in life than do other types of maltreatment. http://www.ncjrs.org/pdffiles/abuse.pdf
8	Safe Date Program	This prospective cohort study was designed to examine predictors of adolescent dating violence from several domains guided by an ecological perspective. 8 th and 9 th grade students from 14 public schools in Johnston County North Carolina were stratified by grade and matched on school size. One member of each matched school pair was randomly assigned to treatment or control condition. At baseline, 1965 enrolled. Follow up data were collected one month after the program activities and one year after program activities. An additional 5 waves of data collection were gathered later. The study began in 1994.
9	New York Dating Violence Prevention Program	The prospective comparative cohort study was part of an intervention study in Suffolk County, NY examining dating aggression and whether or not psychological victimization at baseline predicted physical aggression (at baseline and follow-up). The sample included ethnically and racially diverse sample of male and female high school students enrolled in a mandatory health education class. The sample size was 206 (selected from sample of 2,320 students). Youth were recruited in the spring of 1995 and the study ended in the Fall of 1996.
10	Offspring of subjects from the Houston Independent School District Study	This prospective cohort study (on the offspring of a cohort of 7th graders from Houston Independent School Districts) was used to examine the relationship between substance use, weapon carrying, and violence. A total of 5887 youth ranging from age 12 – 20 were enrolled and followed for 3 years. At the 3-year follow up, 2,222 youth and young adults were interviewed.

Table 7. Description of original cohort studies (continued)

Cohort ID#	Study name	Study purpose, description of cohort, year, frequency of contact
11	National Education Longitudinal Survey	The National Longitudinal Education Survey of 1988 (NELS:88) is a large-scale longitudinal study of high school students conducted by the National Center for Education Statistics (NCES). Begun in 1988, it provides trend data about critical transitions experienced by 8th grade students as they progressed through high school, secondary school, and/or the work force. Data on student, parent, and teacher attitudes and behaviors, student academic performance, family, school and community background were collected. There were five rounds of data collection. Base Year (BY): 1988; 1st follow-up (FU1): 1990; 2nd follow-up (FU2): 1992; 3rd follow-up (FU3): 1994; 4th follow-up (FU4): 2000. In the base year, 26,432 students were selected for the study, and 24,599 participated. In the first follow-up, 19,363 were subsampled due to budgetary constraints. http://www.wws.princeton.edu/~kling/surveys/NELS88.htm
12	Project Northland	Project Northland is a community- wide alcohol use prevention research trial, sponsored by the National Institute on Alcohol Abuse and Alcoholism of the National Institutes of Health. Project Northland is the largest randomized community trial that has ever been conducted for the prevention of adolescent alcohol use, involving 24 school districts and 28 adjoining communities in northeastern Minnesota and the first prevention trial to systematically link and study behavioral curricula in schools, parental involvement programs, extracurricular peer leadership, and community-wide efforts for young adolescents in grades 6-8. Project Northland addresses both individual behavioral change and environmental change. Project Northland also strives to change how parents communicate with their children, how peers influence each other, and how communities respond to young adolescent alcohol use. Components include parent involvement and education programs, behavioral curricula, peer participation, and community activities. Students in the Class of 1998 from the 24 school districts were the focus of the evaluation of Project Northland. School districts and communities were randomized to intervention or reference condition in 1991. The first phase of Project Northland took place in the intervention schools and communities from 1991 to 1994. Reference schools and communities used their own programs before receiving the Project Northland programs in 1994. Project Northland involved about 2400 students in the Class of 1998 from 24 school districts in northeastern Minnesota during their 6th, 7th, and 8th grade years (1991-1994). The school districts were randomly assigned as intervention or control districts in 1991 before any surveys or programs had begun. Students and parents of the Class of 1998 were surveyed annually. Project Northland's intervention involved three years of behavioral curricula in the classrooms, parental involvement programs, extracurricular peer leadership, and communities over the three years of the study.

Table 7. Description of original cohort studies (continued)

Cohort ID#	Study name	Study purpose, description of cohort, year, frequency of contact
13	Collaborative Perinatal Project	The National Collaborative Perinatal Project (NCPP), 1959-1974, was conducted by NIH's National Institute of Neurological Diseases and Stroke. NCPP data constitute an important resource for biomedical and behavioral research in many areas of obstetrics, perinatology, pediatrics, and developmental psychology. The data also provide a prospective base for examining neurological and neurosensory defects and the relationship of pregnancy and perinatal factors on the health of individual children. The major categories of data collected include obstetrical, pediatric, pathological, serological, socioeconomic and family, genetic history, psychological, speech, language, and hearing. The mother was examined during pregnancy, labor, and delivery. The children were given neonatal examinations and follow-up examinations at four, eight, and twelve months, and three, four, seven, and eight years. Supplemental information was gathered throughout the study, including family linkages between related women participating in the NCPP. There are 6,700 data items on the approximately 58,000 study pregnancies. Among the studies conducted on subsamples of this cohort, one evaluated the impact of pre/perinatal disturbances and disadvantaged familial environment in predicting criminal violent offending. This study used an original cohort of: 2,958 and a final study cohort of 987. http://www.archives.gov/research_room/center_for_electronic_records/national_institutes_of_health.html
14	Durham Longitudinal Study	This prospective, longitudinal study examined peer rejection and aggression in childhood as predictors of the severity and type of delinquency during adolescence. Three cohorts of predominantly low socioeconomic status, urban 3 rd grade African American boys and girls were recruited in 1984, 1985 and 1986 for a total sample of 1,749 third graders. Youth reports of delinquency was gathered at grades 6, 8, and 10 and the most recent follow up was conducted at age 22.
15	Pittsburgh Youth Study	The Pittsburgh Youth Study began with a random sample of boys in the first, fourth, and seventh grades of the Pittsburgh, PA, public school system. Information from the initial screening was used to select the top 30 percent of boys with the most disruptive behavior. This group of boys, together with a random sample of the remaining 70 percent who showed less disruptive behavior, became the sample for the study. The sample contains approximately 500 boys at each grade level, for a total of 1,517 boys. Each student and a primary caregiver were interviewed at 6-month intervals for the first 5 years of the study; teacher ratings of the student were also obtained. The middle sample (fourth grade) was discontinued after seven assessments. The youngest sample (first grade) and oldest sample (seventh grade) are currently being interviewed at annual intervals, with totals of 16 and 14 assessments, respectively. The study has been highly successful in retaining participants, with a retention rate of at least 85 percent for each assessment. http://ojjdp.ncjrs.org/ccd/pittsburgh.html
16	South Florida Longitudinal Study	This prospective cohort study was an investigation of factors associated with health status in the Miami area in 1990. This substudy was designed to compare race/ethnic groups on levels of violence and associated risk factors and to challenge the hypothesis that blacks are more violent than whites within a similar socio-cultural context in an urban area. Eligible subjects included all 6 th and 7 th graders from 48 middle schools in Dade County. Subjects were limited to males except in four randomly selected schools. The sample was 6,760 at baseline. Subjects were interviewed 3 times over three years from 1990 – 1993.

Table 7. Description of original cohort studies (continued)

Cohort ID#	Study name	Study purpose, description of cohort, year, frequency of contact
17	Denver Youth Study	The Denver Youth Survey was a longitudinal study of urban youth projects supported by theOffice of Juvenile Justice and Delinquency Prevention (OJJDP) since 1986 through its Program of Research on the Causes and Correlates of Delinquency (Causes and Correlates). The Denver study followed 1,527 boys and girls from high-risk neighborhoods in Denver who were 7, 9, 11, 13, and 15 years old in 1987. The primary goal of the study was to identify social conditions, personal characteristics, and developmental patterns linked to sustained involvement in delinquency and drug use. The Denver study explored changes in the nature of delinquency and drug use from the 1970's to the 1990's. Researchers compared equivalent measures of self-reported delinquency and drug use from matched samples of the National Youth Survey in 1979 and the Denver Youth Survey in 1991. http://www.casanet.org/library/delinquency/youth-svy.htm
18	Rochester Youth Development Study	The Rochester Youth Development Study sample consists of 1,000 students (729 boys and 271 girls) who were in the seventh and eighth grades of the Rochester NY, public schools during the spring semester of the 1988 school year. Males were oversampled because they are more likely than females to engage in serious delinquency and students from high-crime areas were oversampled based on the assumption that they are at greater risk for offending. This project is a 12- wave prospective panel study in which members of the sample and one of their parents were interviewed at 6-month intervals from 1988 to 1992 and at annual intervals from 1994 to 1996. At the end of wave 12, in spring 1997, 846 of the initial 1,000 subjects were re-interviewed (a retention rate of 85 percent); the retention rate for parents was 83 percent. http://ojidp.ncirs.org/ccd/rochester.html
19	Buffalo Longitudinal Study of Young Men	The Buffalo Longitudinal Survey of Young Men (BLSYM) was a five-year panel study of substance use and delinquency among 625 adolescent males. The initial group of young men was identified by telephone using a brief questionnaire. Face-to-face interviews were conducted by trained interviewers at the Research Institute on Addictions. The first wave of the BLSYM was completed in 1993. http://www.ria.buffalo.edu/summaries/rib/rib981.html
20	Youth in Transition	This dataset consists of a five-wave longitudinal study which collected individual interview and group-administered questionnaire data from a nationwide sample of young men, beginning in the fall of 1966 when they entered tenth grade, and continuing for nearly four years. The 2,213 panel members at the time of the initial survey were clustered in 87 schools. The schools and boys were selected through use of multi-stage probability sampling to provide an essentially bias-free representation of tenth-grade boys in public high schools throughout the United States. Subsequent data collections were carried out with 1,886 young men in the spring of 1968, the end of the eleventh grade for most, with 1,799 young men in the spring of 1969, just before most were graduated, and with 1,620 in June and July 1970. The initial data collection included tests of ability and academic skills, measures of family background characteristics, and a large number of "criterion" dimensions: affective states, self-concepts, values and attitudes, plans and behaviors. Most of the criterion dimensions were repeated in all four data collections. The data from this study are available to researchers. http://dpls.dacc.wisc.edu/newcatalog/study.asp?tid=5454&id=419

Table 7. Description of original cohort studies (continued)

Cohort ID#	Study name	Study purpose, description of cohort, year, frequency of contact
21	Oregon Youth Study	The Oregon Youth Study is a longitudinal study of at risk boys, their families, and their friends that utilized a passive longitudinal cohort sequential design. The study began in 1983-84 and is still on going. The sample was drawn from public schools located in the higher juvenile crime neighborhoods of a medium-sized metropolitan region in the Pacific Northwest. This study recruited at-risk boys 4 th grade boys and examined the link between parental discipline, antisocial behavior, and deviancy. A total of 206 boys were enrolled in the project and interviewed during 5 waves beginning when the boys were 9 and 10 and ending at age 17 and 18. The sample was predominately white. The parents in the sample were predominately working class, with a significant number of families receiving some form of unemployment or welfare assistance.
22	White Male Study	This prospective cohort study was designed to assess the effects of pubertal changes in testosterone on sexual activity during adolescence. Several measures of aggression were also included in the study and used to analyze the influence of testosterone on aggressive behavior in adolescent males. The sample was 127 white males in 7 th grade were recruited from an unspecified school district in a Southeastern State. Subjects completed 5 semiannual questionnaires in their home followed by a sixth questionnaire 1 year later. Blood and saliva samples were also collected semiannually. The study lasted approximately 3 years.
23	Iowa Family Distress and Coping Study	The lowa Family Stress and Coping study, was designed to assess the influence of corporal punishment and witnessing parental marital violence, and the protective effects of involved supportive parenting, on the development of delinquent or antisocial behaviors and dating violence of adolescent boys. Eligible subjects were 7 th grade boys with 2-parent families from private and public schools in 8 counties in North Central Iowa. Youth were followed annually for 5 years. The last two waves of data collection included questions on dating violence. The initial wave included 205 boys. 163 boys participated in all 5 waves of data collection.

Table 8. Characteristics of prospective cohort studies for Key Questions #1 and #2

				Infor	mation obtaine	d from article	е	
Cohort ID#	Prospective cohort study	Article (First author, year of publication)	Gender	Race/ Ethnicity ^a	Age at enrollment in years	Years of follow-up	Sample size	Retention rate b
1	Lehigh Longitudinal Study 1976	Herrenkohl, 1997	M, F	WAA/L	1.5	16	317	69%
		Becker, 2002	M, F	W/AA/API/L/N	6-12	6	M: 141 F: 146	83%
2	Mother-Child Pair Study	McCloskey, 2003	M, F	W/AA/API/L/N	6-12	9	295	82%
		Herrera, 2003	F	WAA/API/L/N	6-12	7	141	79%
		Herrenkohl, 2000	M, F	W/AA/API/O	10	6	720	89%
3	Seattle Social Development Project	Huang, 2001	M, F	W/AA/API/O	10	8	807	94%
3	Joeanie Social Development i Toject	Herrenkohl, 2001	M, F	W/AA/API/O	10	8	808	94%
		Herrenkohl, 2003	M, F	W/AA/O	10	8	154	94%
4	National Youth Survey 1976	Roitberg, 1995	M, F	М	11-17	5	1494	87%
		Saner, 1996	M, F	W/AA/API/L/O	12	6	4586	70%
5	Rand Adolescent Panel Study	Ellickson, 2001	M, F	W/AA/API/L/O	12	5	4327	66%
		Ellickson, 2003	M, F	W/AA/API/L/O	12	5	4265	67%
6	Inational Longitudinal Study of Adolescent	Dornbusch, 1999	M, F	М	12-17	1	M: 5329 F: 3904	65%
0	Health (ADD Health)	Borowsky, 2002	M, F	М	12-17	1	M: 6800 F: 4981	71%
7	Widom National Institute of Justice Study	Rivera, 1990	M, F	W/AA	0-11 ^c	20-26	908	79%
8	Safe Date Program	Foshee, 2001	M, F	W/O	13-14	1	M: 402 F: 529	90%
9	New York Dating Violence Prevention Program	O'Leary, 2003	M, F	W/AA/API/L/O	14-17	1	M: 86 F: 120	NG
10	Offspring of subjects from the Houston Independent School District Study	Kaplan, 2001	M, F	W/AA/API/L	12	3	2138	38%
11	National Education Longitudinal Survey	McNulty, 2003	M, F	W/AA/API/L/N/ O	13	4	14358	66%
12	Project Northland	Komro, 1999	M, F	W/N/O	13-14	1	937	86%
13	Collaborative Perinatal Project	Piquero, 1999	M, F	AA	0	22	867	33%
14	Durham Longitudinal Study	Miller-Johnson, 1999	M, F	AA	8	7	M: 164 F: 163	73%

Table 8. Characteristics of prospective cohort studies for Key Questions #1 and #2 (continued)

				Info	mation obtaine	d from articl	е	
Cohort ID#	Prospective cohort study	Article (First author, year of publication)	Gender	Race/ Ethnicity ^a	Age at enrollment in years	Years of follow-up	Sample size	Retention rate ^b
		Loeber, 1993	М	W/AA	13	5	435	86%
		Zhang, 1997	М	W/AA/O	6-12	4	1517	NG
		Loeber, 1999	М	W/AA	13	5	365	72%
15	Pittsburgh Youth Study	Beyers, 2001	М	W/AA	13	5	420	83%
		Stouthamer-Loeber, 2001	М	W/AA	13	5	506	NG
		Stouthamer-Loeber, 2002	М	W/AA	13	5	470	100%
16	South Florida Longitudinal Study	Kingery, 1996	М	W/AA/L/M/O	11-12	2-3	3228	59%
17	Denver Youth Survey	Loeber, 1999	М	W/AA/L/O	11-15	5	373	80%
18	Rochester Youth Development Study	Loeber, 1999	М	W/AA/L	11-12	4.5	562	77%
19	Buffalo Longitudinal Study of Young Men	Welte, 1998	М	W/AA/O	16-19	1.5	568	95%
20	Youth in Transition	Felson, 1992	М	NG	15	1.5	1886	85%
20	Youri in Transition	Brezina, 1999	М	NG	15	1	1519	85%
21	Oregon Youth Study	Dishion, 1997	М	W	9-10	8	195	95%
22	White Male Study	Halpern, 1993	М	W	12-13	3	64-81	79%
23	lowa Family Distress and Coping Study	Simons, 1998	М	W	13	5	113	79.5%

^a AA=African-American; API=Asian or Pacific Islander; L=Latino; M=Multiple; N=Native American; O=Other; W=Caucasian. ^b NG=Information not given.

Table 9. Cohort studies and articles by study population

Population type	Gender	Race/Ethnicity	Population group#	Cohort ID#	Articles ID#	Total sample size
	Male & Female	Multiple	A-1	4, 5, 10, 11, 12	395, 1573, 6638, 7662, 9629, 10619, 11065	23,597
		Multiple	A-2	5, 6, 8, 9, 20	37, 395, 634, 1573, 5303, 5704, 5894, 11087	11,284
General Population	Male	African-American	A-3	14	7114	164
Population		White	A-4	22, 23	6213, 7870	191
	Female	Multiple	A-5	5, 6, 8, 9	37, 395, 634, 1573, 5704, 9629, 11087	8,106
	remale	African-American	A-6	14	7114	163
	Male &	Multiple	B-1	1, 2, 3, 7	1029, 2658, 2660, 6306, 7020, 8540, 10990	2,345 - 2,998
	Female	African-American	B-2	13	7453	867
At-Risk Population ^a	Male	Multiple	B-3	2, 6, 15, 16, 17, 18, 19	37, 1529, 4495, 4815, 5149, 6595, 6855, 8011, 9447, 9560	7,081 - 8,107
		White	B-4	21	5689	195
	Female	Multiple	B-5	2, 6	37, 5149, 10991	1,520

^a At-risk population included maltreated children, children of abused mothers, delinquent youth, youth considered high risk for aggression or violence, youth from high risk or high crime area, youth from high or low socioeconomic neighborhood, and youth who repeated a grade,

Table 10. Study outcome descriptor for various study populations and recruitment settings

(A) General population

Study outcome descriptor	Recruitment setting	Age at enrollment	Sample size	Cohort ID#	Articles ID#
Fighting	Children of subjects in earlier study recruited from junior high schools	12	2222	10	10619
Fighting	Middle and high schools	13	14358	11	11065
Persistent hitting	Middle schools	12	4586	5	395
Relational violence	Middle schools	12	4327	5	1573, 9629
Hitting or beating up someone	Middle and high school districts	13-14	937	12	6638
Felony assault ^a	Households	11-17	1494	4	7662
A-2: Male, Multiple Race/Ethnicity Persistent hitting	Middle schools	12	2110	5	395, 1573
Physical aggression toward parent	High schools	15	1886	20	5303
Physical violence b	High schools	15	1886	20	5894
	Public schools (8th or 9th grade)	13-14	402	8	634
Dating violence perpetration		4 4 4	86	9	11087
Physical aggression (partner focused aggression)	High schools	14-17	00	9	11007

A-3: Male, African-American

Felony assault	Elementary schools	8	164	14	7114
Minor assault	Elementary schools	8	164	14	7114
Robbery	Elementary schools	8	164	14	7114

A-4: Male, White

Fighting	A County school district	12-13	78	22	6213
Dating violence	Public or private schools (7th grade)	12-15	113	23	7870

Table 10. Study outcome descriptor for various study populations and recruitment settings (continued)

(A) General population (continued)

A-5: Female, Multiple Race/Ethnicity

Study outcome descriptor	Recruitment setting	Age at enrollment	Sample size	Cohort ID#	Articles ID#
Persistent hitting	Middle schools	12	2476	5	395
Relational violence	Middle schools	12	2329	5	1573, 9629
Dating violence perpetration	Public schools (8th or 9th grade)	13-14	529	8	634
Dating aggression	High schools	14-17	120	9	11087
Violent behavior ^d	High schools	12-17	4981	6	37, 5704
Felony assault	Elementary schools	8	163	14	7114
Minor assault	Elementary schools	8	163	14	7114
Robbery	Elementary schools	8	163	14	7114

A-6: Female, African-American

Felony assault	Elementary schools	8	164	14	7114
Minor assault	Elementary schools	8	164	14	7114
Robbery	Elementary schools	8	164	14	7114

(B) At-Risk Population

B-1: Male and Female, Multiple Race/Ethnicity

Study outcome descriptor	Type of at-risk population	Recruitment setting	Age at enrollment	Sample size	Cohort ID#	Articles ID#
Aggression to same sex peers	Abused mother	Community and battered women shelters	6-12	295	2	7020
Dating aggression ^e	Abused mother	Community and battered women shelters	6-12	292	2	7020
Violence against parents	Abused mother	Community and battered women shelters	6-12	267	2	7020
Violent behavior at age 18 f	High crime area	Elementary schools	10	807	3	8540
Violent behavior at age 18 ⁹	High crime area	Elementary schools	10	760, 154	3	2660, 10990
Violent behavior at age 18 h	High crime area	Elementary schools	10	760	3	6306
Assaultive behaviors i	Maltreated	Child welfare agencies, Head Start programs, day care programs, and private nursery schools.	1.5	317	1	2658
Juvenile violent criminal behavior	Abused children	Records of the juvenile court and the adult criminal court	0-11	1575	7	1029

Table 10. Study outcome descriptor for various study populations and recruitment settings (continued)

(B) At-risk population (continued)

B-2: Male and Female, African-American

Violent offending	High risk area	Hospital	0	867	13	7453

B-3: Male, Multiple Race/Ethnicity

Study outcome descriptor	Type of at-risk population	Recruitment setting	Age at enrollment	Sample size	Cohort ID#	Articles ID#
Fighting	At risk boys	Public schools and households	12	500	15	4495, 6855, 9560
Fighting	High risk area	Public schools and households	11-15	373	17	6855
Fighting	High crime area	Public schools and households	12-13	562	18	6855
Gang fight	Inner city	Middle schools	11-12	3955	16	6595
Used force to get things	Inner city	Middle schools	11-12	3955	16	6595
Beat up someone for no reason	nner city	Middle schools	11-12	3955	16	6595
Violence j	At risk boys	Public schools	12	500	15	4495, 6855, 8011, 9560
Violence j	High risk area	Public schools and households	11-15	373	17	6855
Violence j	High crime area	Public schools and households	12-13	562	18	6855
Fighting and violence k	At risk boys	Public schools and households	12	365	15	6855, 9560
Fighting and violence k	High crime area	Public schools and households	12-13	562	18	6855
Violent delinquency 1	Abused mother	Community and battered women shelters	6-12	141	2	5149
Interpersonal violence perpetration m	Repeated a grade	High schools	12-17	1891	6	37
Violent offending ⁿ	Delinquent boys	A city and surrounding suburbs	16-19	596	19	4815
Serious violence °	At risk boys	Public schools	6, 9, 12	500	15	9447
Violent delinquency p	High SES area	Public schools	13	159	15	1529
Violent delinquency p	Low SES area	Public schools	13	261	15	1529
Violent delinquency ^p	At risk boys, high and low SES area	Public schools	13	420	15	1529

B-4: Male, White

Self-reported violence ^r	High crime area	Public schools	13	195	21	5689
Arrested Violence ^r	High crime area	Public schools	13	195	21	5689

Table 10. Study outcome descriptor for various study populations and recruitment settings (continued)

(B) At-risk population (continued)

B-5: Female, Multiple Race/Ethnicity

Study outcome descriptor	Type of at-risk population	Recruitment setting	Age at enrollment	Sample size	Cohort ID#	Articles ID#
Violent delinquency	Abused mother	Community and battered women shelters	6-12	146	2	5149, 10991
Violence against parents ^q	Abused mother	Community and battered women shelters	6-12	141	2	10991
Interpersonal violence perpetration m	Repeated a grade	High schools	12-17	1374	6	37

^a Included aggravated assault, gang fighting, sexual assault.

^b Based on 8 items, 4 were provided in the article: threatened or hurt someone, hit parents or teachers, engaged in gang fights, or used weapons)

^c Got into serious fight, participation in group fight, hurt someone badly enough to require medical care, fighting resulted in personal injury, threaten with weapon, pulled a weapon on someone, use weapon in a fight, shot or stabbed someone.

Included: Got into serious fight, participation in group fight, hurt someone badly enough to require medical care, fighting resulted in personal injury, threaten with weapon, pulled a weapon on someone, use weapon in a fight, shot or stabbed someone.

^e Definition different for boys and girls; see definition table for details.

The 4 items are: picking a fight with someone; hitting someone with intent to hurt; beating someone so badly that required medical attention; and threatening someone with a gun.

⁹ The 6 items are: hit a teacher, picked a fight, hit someone with intent to hurt, threatened someone with a weapon, used force or threats of force to get things from others, beat someone so badly that required medical attention. Three or more acts each required before a youth was identified as having committed a violent act.

^h 7 items: same as c with "hit a parent" added to the list.

¹ 5 of 7 items provided in the article: involved in gang fight, hitting parents or others, hitting with idea to seriously injure or kill, having sexual relations with someone against his/her will, using force or strong-arm methods to get money or things from people.

Referred to the "violence" step in the overt pathway that included attacking someone, strong-arming, and forcing sex.

^k This included the fighting step and violence step of the overt pathway. Fighting included physical fighting and gang fighting.

¹ 5 items: threatened someone with a weapon, hurt someone badly enough that required medical attention, threatened to hurt people, got in many fights, physically attacked people.

The 8 items included: got into serious fight, participation in group fight, hurt someone badly to require medical care, fighting resulted in injury requiring medical care, use or threatened use of a weapon, pulled a knife or gun on someone, use of weapon in fight, shot or stabbed someone.

ⁿ The 5 items included: robbery, rape, gang fights, simple and aggravated assault.

[°] The 2 categories are: severely attacking or hurting people with a weapon, strong-arming; and severely attacking or hurting people with a weapon, strong-arming, gang fighting, killing.

The 5 items are: attacked another with a weapon or with intent to seriously hurt or kill; used a weapon, force, or strong-arm method to get something from someone; physically hurt or threatened to hurt someone to get them to have sex; had sex with someone against their will; and Used force or strong-arm methods to get something from another student.

^q Included: thrown something in anger; hit or pushed parent; physically threatened parent.

This article distinguished self-reported and arrested violence. Adolescent violence referred to self-reported violence in adolescence; Violent offense referred to police contacts for violent offense including arrest assault, menacing, robbery, rape.

Table 11. Summary of findings for total and six large population groups

The first number in parenthesis for each cell is the number of cohorts reported a statistically significant association (p<0.05) in the article. The second number in parenthesis is the number of cohorts that reported no statistically significant association (p \geq 0.05) in the article.

	1	1					
	All study	Study population groups with at least 2 cohort studies and adequate sample size (n=1100 for general and n=500 for at-risk populations)					
	populations	General population		At-risk population			
Risk or protective factors	combined ^a	Male and Female	Male	Female	Male and Female	Male	Female
	23 cohorts 35 articles	5 cohorts 7 articles	5 cohorts 8 articles	4 cohorts 7 articles	4 cohorts 7 articles	7 cohorts 10 articles	2 cohorts 3 articles
Individual Factors - Biological, Physical and Cognitive		1	1	1	Γ	Т	
Age	(2) (7) ^{b, c}	(0) (1)	(1) (1)	(1) (1)	(1) (2) ^c	(1) (1)	(0) (1)
Male gender	(8) (2)	(3) (1)			(4) (1)		
White	(2) (2)	(1) (1)	(1) (0)			(0) (1)	
African American	(5) (3)	(0) (1)	(1) (0)	(1) (0)	(1) (0)	(3) (2)	
Latino	(4) (3)	(0) (1)	(1) (0)	(0) (1)	(1) (0)	(3) (1)	
Asian Pacific Islander	(0) (2)	(0) (1)	(0) (1)	(0) (1)			
American Indian	(1) (0)	(1) (0)					
Cuban	(0) (1)					(0) (1)	
Haitian	(0) (1)					(0) (1)	
Carribean	(0) (1)					(0) (1)	
Nicaraguan	(1) (0)					(1) (0)	
Other ethnicity	(0) (2)	(0) (1)				(0) (1)	
Ethnicity, unspecified	(1) (1)		(1) (0)	(1) (0)		(0) (1)	
Small physical size	(0) (1)		(0) (1)				
Testosterone levels	(0) (1) ^b						
Pubertal development	(0) (1) ^b						
Visual-motor intelligence	(0) (1)					(0) (1)	
Verbal intelligence	(0) (1)					(0) (1)	
Problem communicating with others	(0) (1)		(0) (1)	(0) (1)			
Skills for interactions	(1) (0)				(1) (0)		
Pre/perinatal disturbance	(0) (1) ^b						

Table 11. Summary of findings for total and six population groups (continued)

	Study population groups with at least 2 cohort studies at size (n=1100 for general and n=500 for at-risk p						
	populations combined ^a	General population		At-risk populat		•	
Risk or Protective Factors		Male and Female	Male	Female	Male and Female	Male	Female
	23 cohorts	5 cohorts	5 cohorts	4 cohorts	4 cohorts	7 cohorts	2 cohorts
	35 articles	7 articles	8 articles	7 articles	7 articles	10 articles	3 articles
Individual Factors -Emotional, Psychological and Attitu	ıdinal						
Depression	(2) (2)		(1) (1)	(0) (1)	(1) (1)		
Impulsive-attention deficit or hyperactivity	(1) (2) ^c				(1) (0)	(0) (2) ^c	(0) (1)
Anxiety (worrying about things)	(0) (1)		(0) (1)				
Tension (nervousness)	(1) (0)		(1) (0)				
Suicidal attempts	(1) (1)			(0) (1)		(0) (1)	(1) (0)
Mental health treatment	(1) (0)					(1) (0)	(1) (0)
Anger	(2) (1)		(2) (0)	(0) (1)			
Empathy	(1) (1)				(1) (1)		
Jealous and controlling aggression	(1) (0)		(1) (0)	(1) (0)			
Self-esteem	(0) (1)		(0) (1)	(0) (1)		(1) (0)	(1) (0)
Emotional well-being	(1) (0)					(1) (0)	(1) (0)
Positive attitude toward problem behavior	(1) (1)					(1) (1)	
Lack of guilt	(1) (1) ^c					(1) (1) ^c	
Perceived norms	(1) (1)		(1) (0)	(0) (1)			
Belief wrong to violate law	(0) (1)	(0) (1)					
Perceived risk of untimely death	(1) (1)					(1) (0)	(0) (1)
Somatic symptoms	(2) (1)		(1) (0)			(0) (1)	(1) (0)
Individual Factors - Behavioral							
Risk-taking behavior	(1) (0)				(1) (0)		
Antisocial behavior	(2) (2) ^b				(1) (1)		
Conduct disorder	(0) (1)					(0) (1)	(0) (1)
Disruptive behavior (composite of ADD, ODD, CD) ^d	(1) (0)				(1) (0)		
Runaway	(1) (0)						(1) (0)
Prosocial beliefs	(0) (1)				(0) (1)		

Table 11. Summary of findings for total and six population groups (continued)

	All study	Study popula size	tion groups v (n=1100 for g	vith at least 2 general and r	cohort studies n=500 for at-risk	and adequat	e sample
	populations	Gen	eral populatio	on	At-ri)	
Risk or Protective Factors	combined ^a	Male and Female	Male	Female	Male and Female	Male	Female
	23 cohorts	5 cohorts	5 cohorts	4 cohorts	4 cohorts	7 cohorts	2 cohorts
	35 articles	7 articles	8 articles	7 articles	7 articles	10 articles	3 articles
Alcohol use	(3) (1)	(2) (1)	(1) (0)	(1) (0)		(1) (0)	(1) (0)
Alcohol/drug use	(3) (1)	(2) (0)	(0) (1)	(0) (1)		(1) (0)	
Cigarette use/smoking	(2) (1)	(1) (0)	(2) (0)	(1) (1)			
Had sexual intercourse	(1) (1)					(1) (1)	
General health	(1) (0)					(1) (0)	(1) (0)
Verbal aggression	(1) (0)		(1) (0)	(1) (0)			
Physical aggression	(2) (1) ^b		(1) (1)	(0) (1)		(1) (0)	
Aggression ^e	(1) (0)					(1) (0)	
Illicit drug use	(2) (3)	(1) (2)	(1) (1)	(0) (2)		(1) (0)	(0) (1)
Selling drugs	(2) (0)	(1) (0)	(1) (0)	(1) (0)	(1) (0)		
Weapon carrying	(3) (2) ^c	(1) (0)	(0) (1)	(0) (1)		(1) (1) ^c	(1) (0)
Non-violent delinquency	(2) (0)	(1) (0)	(2) (0)	(2) (0)			
Non-violent felony offense	(1) (0)	(1) (0)	(1) (0)	(1) (0)			
Violent and non-violent delinquency	(1) (0)		(1) (0)				
Fighting	(2) (1)	(1) (0)	(0) (1)	(0) (1)		(1) (0)	
Serious injury/harm to others	(1) (0)					(1) (0)	
Violent behavior	(2) (1)	(1) (0)	(1) (0)	(1) (0)		(1) (1)	(1) (0)
Violence at age 10	(1) (0)				(1) (0)		
Violence at age 13	(1) (0)				(1) (0)		
Individual Factors - Other involvements			1	, ·		_	
Religiosity ^f	(2) (1)	(0) (1)	(0) (1)	(1) (0)	(1) (0)		
Same sex attraction	(1) (1)					(1) (0)	(0) (1)
Accept prescribed social norms	(1) (1)		(1) (0)	(0) (1)			
Perceived negative sanctions	(0) (1)		(0) (1)	(0) (1)			
Gender stereotyping	(0) (1)		(0) (1)	(0) (1)			

Table 11. Summary of findings for total and six population groups (continued)

	All study	Study population groups with at least 2 cohort studies and adequate sample size (n=1100 for general and n=500 for at-risk populations)						
	populations	Gen	eral population	on	At-risk population			
Risk or Protective Factors	combined ^a	Male and Female	Male	Female	Male and Female	Male	Female	
	23 cohorts	5 cohorts	5 cohorts	4 cohorts	4 cohorts	7 cohorts	2 cohorts	
	35 articles	7 articles	8 articles	7 articles	7 articles	10 articles	3 articles	
Pro-antisocial involvement	(1) (0)				(1) (0)			
Belief in moral order	(1) (0)		•		(1) (0)			
Individual Factors - Life Experiences		·	-II					
Victim of abuse	(0) (1)				(0) (1)			
Occupational strain	(1) (2)	(1) (1)	(1) (0)	(0) (1)				
Victim of violence	(1) (0)					(1) (0)	(1) (0)	
Death of parent(s)	(0) (1)	(0) (1)	(0) (1)	(0) (1)				
Perceived difficulty of college education	(0) (1)	(0) (1)						
Individual Factors - School Related								
School drop-out	(0) (1)	(0) (1)	(0) (1)	(0) (1)				
Truancy	(1) (0)					(1) (0)	(1) (0)	
Poor academic performance	(3) (2) ^c	(1) (0)	(0) (1)	(1) (0)	(1) (0) ^c	(1) (1)	(1) (0)	
Repeating a grade	(1) (0)		(1) (0)	(1) (0)				
Low school commitment	(1) (2) ^c	(0) (1)			(1) (0)	(0) (1) ^c		
School transitions	(1) (0)				(1) (0)			
Involvement in prosocial activity	(1) (1)				(1) (1)			
Bonding to school	(1) (0)				(1) (0)			
School functioning factor, unspecified	(1) (0)					(1) (0)	(1) (0)	
Feel safe at school	(1) (1)					(0) (1)	(1) (0)	
Home/Family Factors - Environment and Characteristics								
Large family size	(0) (1)	(0) (1)						
Low socioeconomic status or low family income	(0) (7) ^c	(0) (2)	(0) (2)	(0) (1)	(0) (3) ^c	(0) (1)	(0) (1)	
Access to weapons	(1) (1) ^b				(1) (0)			
High mobility	(1) (1)	(0) (1)	(0) (1)	(0) (1)	(1) (0)			
Non-Intact family structure	(2) (1) ^c	(0) (1) ^c	(1) (2)	(2) (1)				

Table 11. Summary of findings for total and six population groups (continued)

	All study				cohort studies =500 for at-ris		
	populations	Gen	eral population	on	At-risk population		
Risk or Protective Factors	combined ^a	Male and Female	Male	Female	Male and Female	Male	Female
	23 cohorts	5 cohorts	5 cohorts	4 cohorts	4 cohorts	7 cohorts	2 cohorts
	35 articles	7 articles	8 articles	7 articles	7 articles	10 articles	3 articles
Recent separation/divorce	(0) (1)	(0) (1)	(0) (1)	(0) (1)			
Remarriage	(0) (1)	(0) (1)	(0) (1)	(0) (1)			
Single parent	(0) (1)					(0) (1)	
Female head	(1) (1)		(1) (0)	(0) (1)			
Parent(s) age	(1) (0)		(1) (0)				
Unstable financial base	(1) (2)	(1) (1)	(0) (1)	(1) (0)			
Low parental education	(1) (3)	(1) (1)	(1) (2)	(0) (3)			
Social capital parent(s)	(1) (0)	(1) (0)					
Family criminal behavior	(1) (0)				(1) (0)		
Pro-violence attitude	(2) (2) ^c	(0) (1)	(1) (0)		(1) (1) ^c		
Suicidal behavior of family member	(1) (1)					(1) (0)	(0) (1)
Parent(s) drug use	(1) (1)	(1) (0)	(0) (1)	(1) (0)			
Parental violence	(1) (2)				(1) (2)	(0) (1)	(0) (1)
Sibling delinquency	(1) (0)				(1) (0)		
Poor family management	(1) (0)				(1) (0)		
Physical hitting between parents	(0) (1)		(0) (1)	(0) (1)			
Family conflict	(1) (0)				(1) (0)		
Family cohesion	(0) (1)				(0) (1)		
Family connectedness	(1) (2)	(0) (1)			(0) (1)	(1) (0)	(1) (0)
Home/Family Factors - Parent-Child Relationship						•	
Physical abuse	(3) (2) b, c		(1) (1)	(0) (1)		(0) (1)	(2) (1) ^c
Sexual abuse	(1) (2) b, c				(0) (1) ^c		(1) (1) ^c
Parental supervision or monitoring	(1) (2) ^c					(1) (1) ^c	(0) (1)
Rejection by parent	(1) (0)	(1) (0)	(1) (0)	(1) (0)			
Poor communication patterns	(2) (1)	(1) (0)				(1) (1)	

Table 11. Summary of findings for total and six population groups (continued)

	All study				cohort studies n=500 for at-ris		
	populations	Gen	eral population	on	At-ri	1	
Risk or Protective Factors	combined ^a	Male and Female	Male	Female	Male and Female	Male	Female
	23 cohorts	5 cohorts	5 cohorts	4 cohorts	4 cohorts	7 cohorts	2 cohorts
	35 articles	7 articles	8 articles	7 articles	7 articles	10 articles	3 articles
Discipline not persistent	(0) (1)		<u> </u>			(0) (1)	
Parental discipline in childhood	(0) (1) b, c						•
Child lack involvement	(0) (1) ^c					(0) (1) ^c	
Positive interaction	(0) (1) ^c				(0) (1) ^c		
Negative interaction	(1) (0)				(1) (0)		
Parental attachment	(2) (0)		(1) (0)		(1) (0)		
Corporal punishment	(1) (0) ^b						
Prosocial activities	(1) (0) ^c				(1) (0) ^c		
Reward for prosocial involvement	(1) (0)				(1) (0)		
Parental school expectation	(1) (1)					(1) (0)	(0) (1)
Maltreatment composite index ^g	(1) (0)				(1) (0)		
Peers	·						
Deviant peers	(2) (1) ^b				(1) (1)		
Associate with gangs	(1) (0)				(1) (0)		
Delinquent or violent peers	(3) (2) ^c	(1) (0)	(1) (0)	(0) (1)	(1) (0)	(0) (1) ^c	
Little sense of peer connectedness	(0) (1)	(0) (1)	(0) (1)	(0) (1)			
Rejected by peer status group	(1) (2) ^b	(0) (1)					
Peer victimization	(1) (1)		(0) (1)	(1) (0)			
Peer(s) drug use	(1) (1)	(0) (1)	(0) (1)	(1) (0)			
Nonconventional peers	(0) (1)					(0) (1)	
Aggressive friends	(1) (0)		(1) (0)	(1) (0)			
Bad friends	(0) (1) ^c					(0) (1) ^c	
Suicidal behavior of friends	(1) (0)					(1) (0)	(1) (0)
School Factors							
Low test scores	(0) (1)				(0) (1)		

Table 11. Summary of findings for total and six population groups (continued)

	All study	Study population groups with at least 2 cohort studies and adequate sample size (n=1100 for general and n=500 for at-risk populations)						
	populations	Gen	eral populatio	on	At-risk population			
Risk or Protective Factors	combined ^a	Male and Female	Male	Female	Male and Female	Male	Female	
	23 cohorts	5 cohorts	5 cohorts	4 cohorts	4 cohorts	7 cohorts	2 cohorts	
	35 articles	7 articles	8 articles	7 articles	7 articles	10 articles	3 articles	
Lack parental involvement	(0) (1)	(0) (1)						
Approve negative behaviors	(0) (1)	(0) (1)						
Community Factors						•		
Perceived caring by adults	(1) (1)					(1) (0)	(0) (1)	
Feel safe in neighborhood	(1) (0)					(1) (0)	(1) (0)	
Social deprivation	(0) (1)				(0) (1)			
Economic deprivation	(1) (0)				(1) (0)			
Community disorganization	(1) (0)				(1) (0)			
Low neighborhood attachment	(1) (1)				(1) (1)			
Urban residence	(0) (2)	(0) (2)						
Easy access to alcohol and drugs	(0) (1) ^c				(0) (1) ^c			
Owner occupied housing units	(0) (1)	(0) (1)						
High crime rate	(1) (0)					(1) (0)		
Law enforcement against crime	(0) (1)				(0) (1)			
Population between 15-24 years	(0) (1)	(0) (1)						
Multiple Factors							•	
More than 5 risk factors	(1) (0)				(1) (0)			
4-5 risk factors	(1) (0)				(1) (0)			
2-3 risk factors	(1) (0)				(1) (0)			
0-1 risk factors	(0) (1)				(0) (1)			
Familial environment + pre/perinatal disturbance	(1) (0) ^b							
Multiple factors in low SES neighborhood ^h	(1) (0)					(1) (0)		
High SES neighborhood+physical aggression	(1) (0)					(1) (0)		
Low SES neighborhood+one other risk factor i	(0) (1)					(0) (1)		
High SES neighborhood+one other risk factor ^j	(0) (1)					(0) (1)		

Table 11. Summary of findings for total and six population groups (continued)

Risk or Protective Factors	All study populations combined ^a	Study population groups with at least 2 cohort studies and adequate sample size (n=1100 for general and n=500 for at-risk populations) General population At-risk population						
		Male and Female	Male	Female	Male and Female	Male	Female	
	23 cohorts 35 articles	5 cohorts 7 articles	5 cohorts 8 articles	4 cohorts 7 articles	4 cohorts 7 articles	7 cohorts 10 articles	2 cohorts 3 articles	
				Y				
3 protective factors vs less	(1) (0)					(1) (0)	(1) (0)	
Poly drug use vs single drug use	(1) (0)		(1) (0)	(1) (0)				
Repeat physical aggression vs experimenter	(2) (0)					(2) (0)		

^a The total number of cohorts or articles may not equal to the sum of cohorts or articles of the study populations because of the following rules used. We counted the same findings from different articles from the same cohort only once. However, findings for different outcomes were not considered the same. We counted the same findings from different types of analysis within an article once. When the result of a finding was reported both in a bivariate analysis and a multivariate analysis in which the effects of other covariates were adjusted, the result of the finding from the multivariate analysis was used.

b Some or all of the findings were based on single cohort study on study populations not included in this table.

^c Some or all of the findings were analyzed by both the bivariate and multivariate analysis. The adjusted finding(s) from multivariate analysis is(are) reported here.

d ADD=attention deficit/hyperactivity disorder; ODD=oppositional defiant disorder; CD=conduct disorder.

e Included "annoying others" and "bullying".

Included "religious service attendance" and "low religiosity".

⁹ The maltreatment composite index was based on the Maltreatment Classification System consisted of, measured on a 5-point scale, the following: physical abuse, sexual abuse, failure to provide, lack of supervision, emotional maltreatment, moral-legal maltreatment, educational maltreatment and incorrigibility.

^h Low SES neighborhood + lack of guilt +had sex + carried hidden weapon + poor communication.

Low SES neighborhood + one or combination of the following: age, impulsive-hyperactive, low school motivation, pro problem behavior, not involved, poor supervision, peer delinquency, bad friends.

High SES neighborhood + one or combination of the following: impulsive-hyperactive, pro problem behavior, lack of guilt, had sex, peer delinquency.

Table 12. Composite Findings for All study populations ^a 23 Cohort Studies, 35 Articles

Only factors with 2 or more cohorts are included

The first number in parenthesis for each cell is the number of cohorts reported a statistically significant association (p<0.05) in the article. The second number in parenthesis is the number of cohorts that reported no statistically significant association (p≥0.05) in the article.

Domain	Factors consistently reported as being associated with violence b	Factors consistently reported as being not associated with violence ^b	Mixed findings
Individual	(8) (2) Male gender (3) (1) Antisocial behavior (3) (1) Alcohol use (3) (1) Alcohol/drug use (2) (0) Selling drugs (2) (0) Non-violent delinquency (2) (0) Repeated physical aggression	(2) (7) Age (0) (2) Asian Pacific Islander (0) (2) Other ethnicity	(2) (2) White (5) (3) African-American (4) (3) Latino (1) (1) Ethnicity unspecified (2) (2) Depression (1) (2) Impulsive-attention deficit or hyperactivity (1) (1) Suicidal attempts (2) (1) Anger (1) (1) Empathy (1) (1) Positive attitude toward problem behavior (1) (1) Lack of guilt (1) (1) Perceived norms (1) (1) Perceived risk of untimely death (2) (1) Somatic symptoms (2) (1) Cigarette use/smoking (1) (1) Had sexual intercourse (2) (1) Physical aggression (2) (3) Illicit drug use (3) (2) Weapon carrying (2) (1) Fighting (2) (1) Violent behavior (2) (1) Religiosity (1) (1) Same sex attraction (1) (1) Accept prescribed social norms (1) (2) Occupational strain (3) (2) Poor academic performance (1) (2) Low school commitment (1) (1) Feel safe at school

Table 12. Composite findings for all study populations ^a (continued)

Domain	Factors consistently reported as being associated with violence ^a	Factors consistently reported as being not associated with violence ^a	Mixed Findings
Home/Family	(2) (0) Parental attachment	(0) (7) Low socioeconomic status or low family income (1) (3) Low parental education (1) (3) Parental violence	(1) (1) Access to weapons (1) (1) High mobility (2) (1) Non-intact family structure (1) (1) Female head (1) (2) Unstable financial base (2) (2) Pro-violence attitude (1) (1) Suicidal behavior of family member (1) (1) Parent(s) drug use (1) (2) Family connectedness (3) (2) Physical abuse (1) (2) Sexual abuse (1) (2) Parental supervision or monitoring (2) (1) Poor communication patterns (1) (1) Parental school expectation
Peer			(2) (1) Deviant peers (3) (2) Delinquent or violent peers (1) (2) Rejected by peer status group (1) (1) Peer victimization (1) (1) Peer(s) drug use
Community		(0) (2) Urban residence	(1) (1) Perceived caring by adults (1) (1) Low neighborhood attachment

^a The findings in this table are presented without regard to the type of violent outcome, without regard to the age at enrollment in the cohort, without regard to the type of at-risk population, and without regard to the type of analysis. Thus, additional research is needed to assess whether these associations vary by these factors.

^b Consistency here is defined as at least 75% of the cohort studies reporting a statistically significant association.

Table 13. Findings for general population
Only factors with 2 or more cohorts are included
The first number in parenthesis for each cell is the number of cohorts reported a statistically significant association (p<0.05) in the article. The second number in parenthesis is the number of cohorts that reported no statistically significant association (p≥0.05) in the article.

Study population	Domain	Factors consistently reported as being associated with violence ^a	Factors consistently reported as being not associated with violence ^a	Mixed findings
General Population Male and Female	Individual	(3) (1) Male gender (2) (0) Alcohol/drug use		(1) (1) White (2) (1) Alcohol use (1) (2) Illicit drug use (1) (1) Occupational strain
(5 cohort studies; 7 articles)	Home/Family		(0) (2) Low socioeconomic status or low family income	(1) (1) Unstable financial base (1) (1) Low parental education
	Community		(0) (2) Urban residence	
General Population Male	Individual	(2) (0) Anger (2) (0) Cigarette use/smoking (2) (0) Non-violent delinquency		(1) (1) Age (1) (1) Depression (1) (1) Physical aggression (1) (1) Illicit drug use
(5 cohort studies; 8 articles)	Home/Family		(0) (2) Low socioeconomic status or low family income	(1) (2) Non-intact family structure (1) (2) Low parental education (1) (1) Physical abuse
General Population Female	Individual	(2) (0) Non-violent delinquency	(0) (2) Illicit drug use	(1) (1) Age (1) (1) Cigarette use/smoking
(4 cohort studies; 7 articles)	Home/Family		(0) (3) Low parental education	(2) (1) Non-intact family structure

^a Consistency here is defined as at least 75% of the cohort studies reporting a statistically significant association.

Table 14. Findings for the at-risk population

Only factors with 2 or more cohorts are included

The first number in parenthesis for each cell is the number of cohorts reported a statistically significant association (p<0.05) in the article. The second number in parenthesis is the number of cohorts that reported no statistically significant association (p≥0.05) in the article.

At-Risk population	Domain	Factors consistently reported as being associated with violence ^a	Factors consistently reported as being not associated with violence b	Mixed findings
At-Risk Population Male and Female	Individual	(4) (1) Male gender		(1) (2) Age (1) (1) Depression (1) (1) Empathy (2) (2) Antisocial behavior (1) (1) Involvement in prosocial activity
(4 cohort studies; 7 articles)	Home/Family		(0) (3) Low socioeconomic status or low family income	(1) (1) Pro-violence attitude (2) (1) Parental violence
	Peer			(1) (1) Deviant peers
	Community			(1) (1) Low neighborhood attachment
At-Risk Population Male (7 cohort studies; 10 articles)	Individual	(3) (1) Latino (2) (0) Repeated physical aggression	(0) (2) Impulsive-attention deficit/hyperactivity	(2) (1) Age (3) (2) African-American (1) (1) Positive attitude toward problem behavior (1) (1) Lack of guilt (1) (1) Had sexual intercourse (1) (1) Weapon carrying (1) (1) Violent behavior (1) (1) Poor academic performance
	Home/Family			(1) (1) Parental supervision or monitoring (1) (1) Poor communication patterns
At-Risk Population Female (2 cohort studies; 3 articles)	Home/Family	of the apport atualize reporting a statistical		(2) (1) Physical abuse (1) (1) Sexual abuse

^a Consistency here is defined as at least 75% of the cohort studies reporting a statistically significant association.
^b Firm conclusions cannot be drawn for factors consistently reported as being not associated with violence because of low statistical power and inconsistency in the definition of risk factors.

Table 15. Quality of the prospective cohort studies for Key Questions #1 and #2

			Stu	udy quality cri	teria		Supplementa	I information	
Cohort ID#	Prospective cohort name	Initial cohort size	Retention rate >=80%?	Validated instrument?	Appropriate control of confounding factors?	% (#) participated	% (#) retained	% (#) analyzed	% of initial cohort analyzed
1	Lehigh Longitudinal Study	457	No	Yes	Yes (M)	100% (457) ^b	51-69% (235-317)	100% ^c (235-317)	51-69%
		363	Yes	Yes	Yes (P)	100% (363) ^b	82% (299)	96% (287)	79%
2	Mother-Child Pair Study	363	Yes	Yes	Yes (M)	100% (363) ^b	82% (296)	90-100% (267-295)	74-81%
		179	No	Yes	Yes (M)	100% (179) ^b	79% (141)	100% (141) ^c	79%
		1053	Yes	Yes	Yes (M)	77% (808)	89% (720)	100% (720) ^c	68%
3	Seattle Social Development	1053	Yes	Yes ^f	Yes (P)	77% (808)	94% (757)	107% (807) ^d	77%
3	Project	1053	Yes	Yes ^f	Yes (M)	77% (808)	94% (757)	107% (808) ^d	77%
		200 ^e	Yes	Yes ^f	Yes (M)	77% (154)	94% (144) ^e	107% (154) ^d	77%
4	National Youth Survey	2363 ^e	Yes	Yes	Yes (M)	73% (1725)	87% (1494)	100% (1494) ^c	63%
		6527 ^f	No	Yes	Yes (M)	100% (6527) b	70% (4586)	100% (4586) ^d	70%
5	Rand Adolescent Panel Study	6527	No	Yes ^f	Yes (M)	100% (6527) b	66% (4327)	100% (4327) ^d	66%
		6527	No	Yes ^f	Yes (M)	97% (6338)	67% (4265)	100% (4265) ^d	65%
	National Longitudinal Study of	27012 ^f	No	Yes ^f	Yes (M)	77% (20745) ^f	65% (13568)	68% (9293)	34%
6	Adolescent Health (ADD Health)	27012 ^e	No	Yes	Yes (M)	77% (20745)	71% (14738)	80% (11781) ^d	44%
7	Widom National Institute of Justice Study	1152 ^g	No	Yes	Yes (M)	100% (1152)	79% (908)	100% (908) ^c	79%
8	Safe Date Program	1390 ^e	Yes	Yes	Yes (M)	81% (1126) ^e	90% (1013)	92% (931)	67%
9	New York Dating Violence Prevention Program	206 ^h	Yes	Yes	Yes (M)	100% (206) ^h	100% (206) ^h	100% (206) ^h	NG ^h
	Offspring of subjects from the Houston Independent School District Study	6359	No	Unsure	Yes (M)	93% (5887)	38% (2222)	96% (2138) ^d	34%
1 11	National Education Longitudinal Survey	25000 ^e	No	Unsure	Yes (M)	100% (25000) b	66% (16489)	87% (14358)	57%
12	Project Northland	1266	Yes	Unsure	Yes (M)	100% (1266) ^b	86%(1088)	86% (937)	74%
13	Collaborative Perinatal Project	2958	No	Unsure	Yes (M)	100% (2958)	33% (987)	88% (867)	29%
14	Durham Longitudinal Study	622 ⁱ	No	Yes	Yes (M)	100% (622) ^b	73% (454)	72% (327)	53%

Table 15. Quality of the prospective cohort studies for Key Questions #1 and #2 (continued)

			Stu	udy quality cri	teria		Supplemental	linformation	
Cohort ID#	Prospective cohort name	Initial cohort size	Retention rate >=80%?	Validated instrument?	Appropriate control of confounding factors?	% (#) participated	% (#) retained	% (#) analyzed	% of initial cohort analyzed
	Pittsburgh Youth Study ⁹	597 ^f	Yes	Yes ^f	Yes (P)	85% (506)	86% (435)	100% (435) ^c	73%
		1517 ^h	Yes	Yes	Yes (P)	100% (1517) ^h	100% (1517) ^h	100% (1517) ^h	NG ^h
15		597 ^e	No	Yes	Yes (P)	85% (506)	72% (365)	100% (365) ^c	61%
13		603 ^e	Yes	Yes	Yes (M)	84% (506)	83% (420)	100% (420) ^c	70%
		603 ^e	Yes	Yes ^f	Yes (P)	84% (506) ^f	100% (506) ^h	100% (506) ^h	NG ^h
		588 ^e	Yes	Yes ^f	No	86% (506)	100% (506)	93% (470)	80%
16	South Florida Longitudinal Study	9763	No	Yes	No ^k	69% (6760)	59% (3955)	82% (3228)	33%
17	Denver Youth Survey j	1527	Yes	Yes	Yes (P)	30% (464)	80% (373)	100% (373) ^c	24%
18	Rochester Youth Development Study ^j	729 ^b	No	Yes	Yes (P)	100% (729) ^b	77% (562)	100% (562) °	77%
19	Buffalo Longitudinal Study of Young Men	933 ^e	Yes	Yes	Yes (M)	67% (625)	95% (596)	95% (568)	61%
20	Youth in Transition	2213 ^f	Yes	Unsure	Yes (M)	100% (2213) b	85% (1886)	100% (1886) ^c	85%
20	Touti iii ITansition	2213	Yes	Unsure	Yes (P)	100% (2213) b	85% (1886)	81% (1519)	69%
21	Oregon Youth Study	277	Yes	Yes	Yes (M)	74% (206)	95% (195)	100% (195) ^c	70%
22	White Male Study	254 ^e	No	Yes	No	50% (127)	79% (100)	64-81% (64-81)	25-32%
23	lowa Family Distress and Coping Study	263 ^e	No	Yes	Yes (P)	78% (205)	79.5% (163)	69% (113)	43%

^a M=Multivariate analysis or modeling; P=Path analysis or structural equation modeling.

b Initial cohort size or participation rate not given. Thus initial cohort size was assumed to be the same as the number of participants.

^c Sample size in analysis assumed the same as sample size retained.

^d Missing data estimation techniques or sample weights were used to minimize attrition bias.

^e Estimated from information given in article.

f Information obtained from another article that published finding from the same cohort study.

⁹ Information obtained from an additional reference (Widom, 1989) provided by one of the TEG members.

^h This article did not provide number or percent for participation, retention, or analysis.

Stratified random sample from 1749 students.

^j The numbers provided here were based primarily on article (Loeber, Wei, 1999) where all three cohort studies were described. Only the number of subjects at the beginning of the studies and the number of participants with complete data were provided. The numbers used in the analysis in the Tables did not match the numbers of subjects with complete data.

^k The findings used in this assessment had not been adjusted although multivariate techniques have been used to study other outcomes.

Table 16. Assessment of the strength of evidence for Key Questions #1 and #2 (A) Factors consistently reported as being associated with violence

Study Population		Factor Domain	Factors consistently reported as being a ssociated with violence a	All studies	Only studies with adequate sample size	Only studies with good study quality
Туре	Gender	Domain	associated with violence	23 cohort studies, 35 articles ^b	13 cohort studies, 20 articles ^b	9 cohort studies, 16 articles ^b
All	Both	Individual	+++ Male gender 0+0 African-American +00 Antisocial behavior +00 Alcohol use ++0 Alcohol/drug use ++0 Selling drugs 0+0 Weapon carrying 0+0 Violent behavior +00 Non-violent delinquency 0+0 Poor academic performance +00 Repeated physical aggression	(8) (2) (5) (3) (3) (1) (3) (1) (3) (1) (2) (0) (3) (2) (2) (1) (2) (0) (3) (2) (2) (0)	(5) (0) (3) (1) (1) (1) (2) (1) (2) (0) (2) (0) (2) (0) (2) (0) (1) (0) (3) (1) (1) (0)	(3) (1) (2) (2) (2) (2) (0) (0) (1) (1) (1) (0) (1) (2) (1) (1) (1) (0) (1) (1) (1) (0)
		Home/Family	+ + o Parental attachment	(2) (0)	(2) (0)	(1) (0)
	Both	Peer Individual	o + o Delinquent or violent peers + + o Male gender + o + Alcohol/drug use	(3) (2) (3) (1) (2) (0)	(2) (0) (2) (0) (1) (0)	(3) (2) (1) (0) (0) (0)
General population	Male	Individual	+ o o Anger + + o Cigarette use/smoking + o o Non-violent delinquency	(2) (0) (2) (0) (2) (0)	(1) (0) (2) (0) (1) (0)	(1) (0) (0) (0) (0) (0)
	Female	Individual	+ o o Non-violent delinquency	2) (0)	(1) (0)	(0) (0)
	Both	Individual	+ + o Male gender	(4) (1)	(2) (0)	(2) (1)
At-risk population	Male	Individual	o + o African-American + + o Latino + + o Repeated physical aggression	(3) (2) (3) (1) (2) (0)	(2) (0) (3) (0) (2) (0)	(2) (2) (1) (2) (1) (0)
	Female	Individual	+ o o Non-violent delinquency	(2) (0)	(1) (0)	(0) (0)

^a '+' denotes consistent association; 'o' denotes no consistent association; a string of '+' and 'o' denotes findings reported in the three groups of studies, the first being all studies, the second being only studies with adequate sample size; and the third being only studies with good study quality.

^b The first number in parenthesis is the number of cohorts that reported a statistically significant association (p<0.05) in the article. The second number in

parenthesis is the number of cohorts that reported no statistically significant association (p≥0.05) in the article.

Table 16. Assessment of the strength of evidence for Key Questions #1 and #2 (continued)

(B) Factors consistently reported as being NOT associated with violence

Study population		Factor	Factors consistently reported as being NOT appointed with violance ^a	All studies	Only studies with adequate sample size	Only studies with good study quality
Туре	Gender	Domain	being NOT associated with violence ^a 23 cohort studies, 35 articles ^b	13 cohort studies, 20 articles ^b	9 cohort studies, 16 articles ^b	Only studies with good study quality ^b
		Individual	++ o Age + o o Asian Pacific Islander ++ o Other ethnicity	(2) (7) (0) (2) (0) (2)	(1) (3) (2) (2) (0) (2)	(2) (4) (0) (0) (0) (1)
All	Both	Home/Family	+++ Low socioeconomic status + o o Low parental education + o o Parental violence o o + Family connectedness	(0) (7) (1) (3) (1) (3) (1) (2)	(0) (4) (1) (2) (0) (1) (0) (2)	(0) (3) (0) (1) (1) (2) (0) (1)
		Community	+ + o Urban residence	(0) (2)	(0) (2)	(0) (1)
	Both	Home/Family	+ + o Low socioeconomic status	(0) (2)	(0) (2)	(0) (1)
	- 1	Community	+ + o Urban residence	(0) (2)	(0) (2)	(0) (1)
General population	Male	Home/Family	+ + o Low socioeconomic status o + o Low parental education	(0) (2) (1) (2)	(0) (2) (0) (2)	(0) (0) (0) (1)
	Female	Individual	++o Illicit drug use	(0) (2)	(0) (2)	(0) (0)
	1 omaio	Home/Family	+ + o Low parental education	(0) (3)	(0) (2)	(0) (1)
At-risk	Both	Home/Family	+ o o Low socioeconomic status	(0) (3)	(0) (0)	(0) (0)
population	Male	Individual	+ o + Impulsive-attention deficit	(0) (2)	(0) (0)	(0) (2)

^a '+' denotes consistent association; 'o' denotes no consistent association; a string of '+' and 'o' denotes findings reported in the three groups of studies, the first being all studies considered, the second being only studies with adequate sample size considered; and the third being only studies with good study quality.

^b The first number in parenthesis is the number of cohorts reported a statistically significant association (p<0.05) in the article. The second number in parenthesis is the number of cohorts that reported no statistically significant association (p≥0.05) in the article.

Table 17. Intervention articles by type and study design

Intervention level ^a	Study design	Number of article b	Number of intervention
Primary	Total	16	15
(Interventions that are universal, intended to prevent the onset of violence and related risk factors)	Randomized controlled trial Non-randomized controlled trial Prospective comparative cohort Cross-sectional comparative cohort Single cohort pre and post design Incomplete randomized controlled trial Partially randomized with cross-over design	6 5 0 2 1 1	5 5 0 2 1 1
Secondary	Total	11	10
(Interventions that are implemented on a selected scale for children/youth at enhanced risk for youth violence, prevent onset and reduce the risk of violence)	Randomized controlled trial Non-randomized controlled trial Prospective comparative cohort Cross-sectional comparative cohort Single cohort pre and post trial Non-randomized pre and post trial	7 2 0 0 1 1	6 2 0 0 1
Tertiary (Interventions that are targeted to youth who have already demonstrated violent or seriously delinquent behavior)	Total Randomized controlled trial Non-randomized controlled trial Prospective comparative cohort Cross-sectional comparative cohort Single cohort pre and post design Retrospective single group time series Pre and post trial with comparison group	7 2 2 0 0 1 1	7 2 2 0 0 1 1 1
Total		34	32

^a Source: Definitions from the Surgeon General's Report on Youth Violence.

^b Two articles involved both primary and secondary interventions. Thus the total number of articles is 34.

Table 18. Intervention studies categorized by level and study design

Level	Study type	Unit of randomization	Intervention	Article ID#
		School	Safe Dates Program	2260, 2261
	Randomized	School	Drug Abuse Resistance Education (DARE and DARE PLUS)	
	controlled trial	School	Student for Peace (Multi-component violence-prevention program)	739
	(RCT)	Team of students	Students Management Anger and Resolution Together (SMART Talk)	5246
		Homeroom	Responding in Peaceful and Positive Ways - 7th grade (RIPP-7)	5871
			Improving Social Awareness-Social Problem Solving Project (ISA-SPS)	5796
			Teacher training, parent education, and social competence training	117
Primary	Non-randomized co	ontrolled trial (NRCT)	Chicago Child-Parent Center (CPC) Program	3965
			Peaceful Conflict and Violence Prevention Curriculum (13 modules)	1579
			Reach for Health Community Youth Service program	3680
	Cross-sectional stu	ıdv	Georgia's legislative waiver in deterring juvenile crime	7615
	C1055-5ECIIONAI SIU	luy	School-based metal detector program	4048
	Single cohort pre a	nd post design	Violence prevention program and conflict resolution curriculum	393
	Incomplete random	nized controlled trial	All Stars character education and problem behavior prevention program	
	Partially randomize	ed with cross-over	A traditional martial arts training program (Koga Ha Kosho Shorei Ryu Kempo)	
		School	Safe Dates Program	2260, 2261
		School	Project Towards No Drug Abuse (TND)	4315
	Randomized	Family	Moving to Opportunity (MTO) demonstration project	10598
0	controlled trial (RCT)	Youth bureau	Early community-based intervention for prevention of substance abuse and delinquent behavior	6221
Secondary		Subject	Triple modality social learning program	5995
		Subject	Childhaven's therapeutic child-care program (formerly Seattle Day Nursery)	7158
	Non-randomized co	ontrolled trial	Positive Adolescents Choices Training (PACT)	2563
			5 weeks treatment of SSRI (selective serotonin reuptake inhibitors)	1308
	Single cohort pre a	nd post design	Conflict resolution model of family-systems intervention for individual parent-child dyads	5758
	Non-randomized pr	re-and post- trial	Alternative to Suspension for Violent Behavior (ASVB)	5301
	Randomized	Subject	Turning Point: Rethinking Violence (TPRV)	40
	controlled trial (RC	T) Subject	Multi-systemic therapy (MST)	2644
	Nia a mandanai a di a		Project Back-on-Track (an after school diversion program)	692
Tertiary	Non-randomized co	ontrolled trial	A multimodal treatment approach with two orientations	
	Single cohort pre a	nd post design	Outpatient Behavioral Management of Aggressiveness in Adolescents	
		vith comparison group	Multi-systemic Therapy (MST) vs. Individual therapy	1729
	•	e group time series	Stout Cottage Serious Sex Offenders Program (SSOP)	6187

Table 19. Program characteristics and findings for <u>primary</u> interventions evaluated with <u>randomized controlled trials</u>

(A) Primary intervention reporting effectiveness, randomized controlled trial

Program name and Study		,	Description of program	Findings				
setting	popu	lation						
RIPP- 7th grade (RIPP-7) (#5871)	7th gi	aders	12 weekly session skills building program, focused on conflict resolution,	Violent behavior follow-up,	or per 100 s	tudents a	t post-test and	1-year
School setting	M F	47% 53%	 implemented by trained preventionists, use of experiential activities. 	1,		d rate Control (n=237)		p
	AA O	97% 3%		Post-test:1-year:	2.9 11.2	3.7 23.1	1.3 (0.4, 4.0) 2.1 (1.1, 3.7)	ns <0.05

(B) Primary intervention not reporting effectiveness, randomized controlled trial

Program name and Study		Description of program	Findings
setting	population		
Safe Dates Program (#2260 & #2261)	8th and 9th graders reported not a victim or	This program consists of school and community activities. Key components: • 10 45- minute sessions conducted by teachers	Mean score, treated (n=7 schools) vs control (n=7 schools) • Sexual violence perpetration at 1 month: 0.01 vs 0.04, p=ns
School setting community setting	perpetrator of dating violence	focused on changing norms associated with partner violence, decreasing gender stereotyping, and improving conflict	Violence in current relationship at 1 month: 0.01 vs 0.03, p=ns
	M 49% F 51%	management skills, • a theater production performed by peers,	Mean score, treated (n=7 schools) vs control (n=7 schools) • Sexual violence perpetration at 1 year: 0.05 vs 0.07, p=ns
	W 77% AA 19% O 4%	a poster contest for dating violence prevention20 workshops for community service providers.	Violence in current relationship at 1 year: 0.05 vs 0.08, p=ns
		Control group had the theater and community activities.	(No measures of variation reported)
DARE (#0009)	7th and 8th graders	DARE • 10 week skill-building curriculum taught by police	Growth rate±SE of self-reported violent behavior derive from 18-month follow-up.
School setting	M 52% F 48%	officers DARE PLUS • 10 week skill-building curriculum taught by police	Male, treated (DARE: n=1269; DARE plus: n=1381) vs control (n=1093): • DARE: vs control: 0.57±0.09 vs 0.54±0.09 , p=0.41
	W 67% AA 8% API 13%	officers	 DARE: vs control: 0.57±0.09 vs 0.54±0.09 , p=0.41 DARE plus vs control: 0.35±0.08 vs 0.54±0.09 , p=0.06 Female, treated (DARE: n=1249; DARE plus: n=1254) vs
L 4% O 9%		Neighborhood action teams to address neighborhood and school-wide issues.	control (n=1015): • DARE vs control: • DARE plus vs control: • DARE plus vs control: • 0.26±0.07 vs 0.30±0.07, p=0.34 • 0.23±0.07 vs 0.30±0.07, p=0.24

Table 19. Program characteristics and findings for primary interventions evaluated with randomized controlled trials (continued)

(B) Primary intervention not reporting effectiveness, randomized controlled trial (continued)

Program name and Study		Description of program	Findings		
setting population					
SMART Talk (#5246) • School setting	6th - 8th graders M 46% F 54% W 84% AA 9% O 7%	computer based multimedia program used independently by students during a single semester three major components include anger management, perspective talking, and dispute resolution. Free access to program during semester	Mean±SD aggressive score over past 30 days measured on 4 aggressive behaviors at 4 months after implementation of intervention. Male, treated (n=145) vs control (n=90): 16.1±6.2 vs 16.9±6.2, p=ns Female, treated (n=176) vs control (n=105): 14.0±5.2 vs 13.9±5.6, p=ns		
Student for Peace (#0739) • School setting • Home setting	6th graders followed through 7th and 8th grades M 50% F 50% W 8% AA 17% API 4% L 68% O 3%	Formation of a School Health Promotion Council Training of peer mediators and peer helpers Training of teachers in conflict resolution, A 3-semester violence-prevention curriculum Monthly newsletters for parents.	Adjusted difference between treated (n=929) and control (n=1161) at 1-year follow-up and between treated (n=788) and control (n=975) at 2-year follow-up on frequency (sample sizes not broken down by gender): Male, 1-year follow-up, difference (95% CI): Fighting: Fighting: Fighting with injuries: Fighting: Fighti		

Notes: AA African American, API Asian Pacific Islander, CI Confidence Interval, DARE Drug Abuse Resistance Education, F female, L Latino/Latina, M Male, O Other, RIPP Responding in Peaceful and Positive Ways, SMART Students Management Anger and Resolution Together, W White

Table 20. Program characteristics and findings for <u>primary</u> interventions evaluated with <u>other study designs</u>

(A) Primary intervention reporting effectiveness, other study design

Program name and setting	Study design	Study population	Description of program	Findings
Seattle Social Development Project Intervention (#0117) • School setting	Non- randomized controlled trial	Full: 1 - 6 grades Late: 5 - 6 grades M 51% F 49% W 45% O 55%	5 day teacher training on proactive classroom management, interactive teaching, and cooperative learning 4 hours of student training (grade 6) to recognize and resist social influences to engage in problem behaviors voluntary parent training classes in child behavior management skills	Reduction in lifetime violent behavior 6 year after intervention at age 18 years. Early (n=149) vs Control (n=206): Difference (95% CI): -11.4 (-21.3 to -0.4), p=0.04 Late (n=243) vs Control (n=206): Difference (95% CI): -3.3 (-12.0 to 6.3), p=0.54
Chicago Child-Parent Center Program (CPC) (#3965) Settings: • Preschools • Kindergarten • 1st, 2nd, 3rd graders • Neighborhood centers	Non- randomized controlled trial	Preschool and kindergarten inner city children Gender: not specified AA 93% L 7%	Multi-component on education and family support. • structured learning activities • multifaceted parent program • outreach activities • ongoing staff development • health and nutrition services • comprehensive school-age service • year round • full day or part day	Adjusted mean arrests for violent offenses between ages 10 and 18 years (adjusted for gender, race, risk index, early/late program, and site) • Preschool children, treated (n=837) vs control (n=444) Mean arrest: • School-age children, treated (n=729) vs control (n=552) Mean arrest: • 0.28 vs 0.25, p=0.64
Reach for Health Community Youth Service (CYS) Program (#3680) Setting: • School • Community site	Non- randomized controlled trial	7th and 8th graders in inner cities M 46% F 54% AA 80% L 15% O 5%	Curriculum Only: 35-session curriculum over 6 months focused on drug and alcohol use, violence and sex delivered by trained teachers, including 10-session focusing on violence prevention. Curriculum + CYS: Curriculum described above plus CYS program where students spend approx 3 hours a week at a community site.	(No measures of variation reported) Regression coefficient (SD) for violent behavior in past three months measured at 6-month follow-up (gender, race, grade, and social desirability are covariates.) Both 7th and 8th graders (n=914): Curriculum + CYS: -0.037 (0.028), p=ns Curriculum Only: -0.016 (0.068), p=ns 7th graders (n=469): Curriculum + CYS: 0.102 (0.079), p=ns Curriculum Only: 0.010 (0.083), p=ns 8th graders (445): Curriculum + CYS: -0.206 (0.096), p<0.05 Curriculum Only: -0.036 (0.113), p=ns

Table 20. Program characteristics and findings for <u>primary</u> interventions evaluated with <u>other study designs (continued)</u>

(A) Primary intervention reporting effectiveness, Other study design (continued)

Program name and setting	Study design	Study population	Description of program	Findings
Violence Prevention Curriculum for Adolescents and Conflict Resolution Curriculum for Youth Providers (#0393) • School setting	Single group pre and post design	6th-8th graders M 48% F 52% W 10% AA 89% O 1%	Two curricula 1) violence prevention curriculum: • 10 50-minute sessions in a classroom • focused on violence and violence prevention. 2) conflict resolution curriculum: • 10 50-minute sessions in a classroom • focused on conflict resolution.	Frequency of fighting, and frequency of injury in previous 30 days measured at 1 week pre and 1 week post intervention Mean±SD for Violence Prevention (n=146), after vs before Violence scale: 0.39±1.28 vs 0.82±1.79 p=.004 Frequency of fighting: 0.51±1.26 vs 1.37±1.75 p=.001 Fighting resulted in injury: 0.20±0.78 vs 0.15±0.48 p=.105 Mean±SD for Conflict Resolution (n=63), after vs before Violence scale: 0.51±1.38 vs 0.73±1.65 p=.004 Frequency of fighting: 1.03±1.51 vs 1.74±1.99 p=.001 Fighting resulted in injury: 0.28±0.63 vs 0.59±1.08 p=.105

(B) Primary intervention not reporting effectiveness, other study design

Improving Social Awareness-Social	Non- randomized	4th and 5th graders	social decision-making, problem- solving and social awareness skills	Mean score measured 6 years after intervention at 9th-11th grades (n=unknown)	
Problem Solving Project	controlled	gradoro	program	Male, mean score treated vs control:	
(ISA-SPS) (#5796)	trial	Gender and	• 2 year program with 3 phases:	• striking/threatening students .69 vs .59	
		race/ethnicity	readiness, instructional and application	• attack with intent to injure .37 vs .46	
School setting		not specified	том по предоставления в	• striking/attacking parents .15 vs .23	
				Female, mean score treated vs control:	
				• striking/threatening students .77 vs .76	
				 attack with intent to injure .68 vs .79 	
				• striking/attacking parents .04 vs .05	
				(No measures of variation reported)	
			Notes:		
				divided into high fidelity and low fidelity. No differences	
				ort here the findings of the combined experimental group.	
			2) No sample sizes and no standard errors were provided. Significance of differences could not be determined.		
			3) For males, the discriminant analysis fir non-violent outcomes.	ndings could not be used because it included both violent and	
				that significantly differentiated the experimental and control	
				violent outcomes indicating their insignificant contributions.	

Table 20. Program characteristics and findings for <u>primary</u> interventions evaluated with <u>other study designs</u> (continued)

(B) Primary intervention not reporting effectiveness, other study design (continued)

Program name and	Study	Study	Description of program	Findings	
setting	design	population			
Peaceful Conflict and Violence Prevention Curriculum (#1579) • School setting -	Non- randomized controlled trial	Middle school students living in or around public housing	Skill-building curriculum based on Social Cognitive Theory 13-week session, one hour per week	Use of violence in previous 30 days, assessed on a 5-iter scale ranged from 0 to 20, at 2-week pre and 2-week pos intervention. Mean±SD violence score, treated (n=233) vs control (n=330)	
health education		M 49%		• Pre-test 1.4±2.9 vs 1.1±2.0, p=0.31	
classes		F 51%		• 2-week post-test 1.12.2± vs 1.2±2.4, p=0.63	
		AA 89% O 11%		Mean±SD score for fighting requiring medical attention, treated n=233 vs control n=330): • Pre-test 0.28±0.81 vs 0.14±0.50, p=0.01 • 2-week post-test 0.17±0.57 vs 0.17±0.56, p=0.97	
School-based hand-	Cross-	9th - 12th	school-based metal detector	Percent (95% CI) students involved in a physical fight at	
held metal detector	sectional	graders	program	least once during school-year after intervention	
program (#4048)	study	gradoro	one school year	load ond daming conden your and intervention	
program (" to to)	otady	Gender and	weekly visit by a team of security	Treated (n=243) vs control (n=1156):	
 School setting 		Ethnicity not	officers	Anywhere 26.2 (14.4, 38.0) vs 24.4 (21.5, 27.3) p=ns	
- Concor county		specified	students scanned at random	To/From school 9.4 (6.4, 12.3) vs 9.1 (5.6, 12.6) p=ns	
			• students scanned at random	Inside school 7.5 (0.4, 14.5) vs 7.8 (4.9, 10.7) p=ns	
Juvenile Justice	Cross-	Adolescent	Study the effects of new law on	Mean arrest rate for aggravated assault, robbery, sex	
Reform Act 1994 of	sectional	population in	serious juvenile crime. Georgia's	offense, rape, murder (unit not provided)	
Georgia - legislative	study at 2	the State of	Juvenile Justice Reform Act mandated		
waiver in deterring	time points,	Georgia	that adolescents 13-17 arrested for	Mean arrest rate, after vs before(n not given)	
juvenile crime (#7615)	one before		murder, voluntary manslaughter, rape,	Aggravated assault 1726 vs 1833, p=ns	
	and one	No breakdown	aggravated sexual battery, aggravated	Armed robbery 857 vs 749, p=ns	
 State of Georgia 	after	by age, gender	child molestation; aggravated sodomy,	Sex offense 426 vs 394, p=ns	
		or race	or firearm robbery, be tried as adult.	Rape 118 vs 121, p=ns	
				Murder 83 vs 82, p=ns	
				Total 3211 vs 3179, p=ns	
				(No measures of variation reported)	

Table 20. Program characteristics and findings for <u>primary</u> interventions evaluated with <u>other study designs</u> (continued)

(B) Primary intervention not reporting effectiveness, other study design (continued)

Program name and	Study	Study	Description of program	Findings
setting	design	population		
All Stars Character Education and Problem Behavior Prevention Program (#2588) • School setting	Incomplete randomized controlled trial	6th or 7th graders M	Character education and problem behavior prevention program facilitated by trained adult interventionists and teachers in classrooms. • Program includes whole classroom sessions, small-group sessions outside of class, and one- on-one sessions between instructor and student. • Homework is used to increase interaction between students and parents. • Study examines difference in impact by type of instructor • 8-month duration	Mean of 10 items on violence towards other persons at post-test and at 1-year follow-up. (Treated n=629; Control n=739; not broken down by race/ethnicity) African-American, Specialist vsTeacher vs Control Pre-test 1.41 vs 1.35 vs 1.35, p=ns Post-test 1.38 vs 1.32 vs 1.40, p=ns 1-year follow-up 1.54 vs 1.27 vs 1.59, p=ns Latino, Specialist vs Teacher vs Control Pre-test 1.28 vs 1.24 vs 1.19, p=ns Post-test 1.34 vs 1.22 vs 1.18, p=ns 1-year follow-up 2.07 vs 1.22 vs 1.34, p=ns White, Specialist vs Teacher vs Control Pre-test 1.26 vs 1.28 vs 1.25, p=ns Post-test 1.31 vs 1.27 vs 1.27, p=ns 1-year follow-up 1.40 vs 1.42 vs 1.37, p=ns (No measures of variation reported)
A traditional martial arts training program (Koga Ha Kosho Shorei Ryu Kempo) (#4962) • School setting	Partially randomized controlled trial with cross-over	6th and 7th graders M 100% Race/Ethnicity not specified	 a traditional martial arts training program course was taught by a martial arts master 30 sessions 3 times per week 45 minutes each 	9-item violence score, rated by teacher, at 4-month follow-up Mean±SD violent score, treated (n=31) vs control (n=17): 3.20±1.46 vs 3.34±1.05, p=ns

Table 21. Program characteristics and findings for <u>secondary</u> interventions evaluated by <u>randomized controlled trials</u>

(A) Secondary intervention reporting effectiveness, randomized controlled trial

Program name and setting	Study population	Description of program	Findings
Moving to Opportunity (MTO) demonstration - A Housing Mobility Experiment with 2 programs (#10598) • Community setting	Teens in high-poverty neighborhoods who are "at risk" for criminal involvement M 47% F 53% AA 97% O 3%	 Housing mobility experiment to study the effects of relocating families from high to low poverty neighborhoods on juvenile crime. MTO group: experimental families with section 8 housing vouchers that can only be redeemed for housing in census tracts with 1990 poverty rates less than 10% and received housing-search assistance and life-skills counseling. Section 8 group: families with section 8 housing vouchers which provide subsidies to lease private-market housing. Control group: families on MTO waiting list 	Incidence and prevalence of regression-adjusted violent- crime arrest rates per quarter over an average of 3.7 years post-program (assault, robbery, attempted murder) Incidence per 100 teens MTO(n=148) Control(n=96) Diff (SE) 2.5 5.7 -3.2 (1.5) p<0.01 Section 8(n=92) Control (n=96) Diff (SE) 1.9 4.3 -2.4 (1.2) p<0.01 Prevalence during post-program period in % MTO (n=148) Control (n=96) Diff (SE) 2.4 5.0 -2.6 (1.4) p<0.05 Section 8 (n=92) Control (n=96) Diff (SE) 1.9 3.9 -2.0 (1.1) p<0.05
Early community-based intervention for the prevention of substance abuse and other delinquent behavior (#6221) • Community-based "youth bureaus" clinic Childhaven's therapeutic child-care program (formerly Seattle Day Nursery) (#7158) • Child care center	Inner-city youth at high risk of adopting a deviant lifestyle M 59% F 41% W 3% AA 97% Abused, neglected, and at risk infants and toddlers (ages 1 month through 5 years of age) and their parents Gender and race: not reported	Early intervention and risk reduction program: • individual counseling • group mentoring (no group counseling) sessions available 4-5 days a week including structured skill building activities, educational and recreational field trips, and holiday celebrations • informal parent discussions and parent child social events • 4-5 days per week after school and weekends over about 1 year or more Therapeutic childcare program for abused, neglected, and at risk infants and children. Parent program elements include: • voluntary parent education • counseling • support groups • linkage to professional services • average length of participation is 23 months (62% parents had major participation; 25% parents had no participation)	6-month self-report physical violence behavior (physical assault, mugging, robbery with weapon, arson, gang fight, shooting at someone) at 1-year follow-up (Treated: n=235; Control: n=193) Poisson regression results for violent activity during the preceding 6 months at 1-year follow-up revealed significant treatment effects at p=0.0026. (No descriptive statistics for this indicator reported) 1. Violent crimes (assault) from juvenile court and school files during 12 years of follow-up 2. Incidence of "fighting" from school files during 12 years of follow-up Violent crimes, treated (n=21) vs control (n=14) % reported yes 4% vs 24%, p<0.08 Mean violent arrests 0.04 vs 0.30, p<0.05 Incidence of fighting, treated (n=21) vs control (n=14) % reported yes 12% vs 36%, p<0.05 Mean times fighting 0.2 vs 0.8, p=ns

Table 21. Program characteristics and findings for <u>secondary</u> interventions evaluated by <u>randomized controlled trials</u> (continued)

(B) Secondary intervention not reporting effectiveness, randomized controlled trial

Program name and setting	Study population	Description of program	Findings
Safe Dates Program (#2260, #2261)	8th and 9th graders who were perpetrators of	This program consists of school and community activities. Key components: • 10 45- minute sessions conducted by teachers focused	Mean score at 1 month, treated (n=7 schools) vs control (n=7 schools) • Sexual violence perpetration:
Setting School community	violence M 49% F 51%	on changing norms associated with partner violence, decreasing gender stereotyping, and improving conflict management skills,	0.07 vs 0.18 , p=ns • Violence in current relationship: 0.17 vs 0.16, p=ns
	W 77% AA 19% O 4%	 a theater production performed by peers, a poster contest for dating violence prevention, and 20 workshops for community service providers. Control group had the theater and community activities.	Mean score at 1 year, treated (n=7 schools) vs control (n=7 schools) • Sexual violence perpetration: 0.15 vs 0.12, p=ns • Violence in current relationship: 0.15 vs 0.12, p=ns
Project Towards No Drug Abuse (TND) (#4315) • School setting	Youth in continuation high schools M 55% F 45% W 34% AA 9% API 4% L 49% O 4%	9 session curriculum delivered in 3 weeks by trained health educators. Each session lasted about 40 minutes. Curriculum designed to provide motivation, listening skills, information about chemical dependency, coping skills, peer norms, and decision making for students in continuation schools	(No measures of variation reported) Perpetration of violence in past 12 months (slapped, punched, kicked, or beat up someone; threatened with a weapon; injured someone with weapon). Percent reporting any perpetration, Treated (n=14 schools) vs control (n=7 schools) Male 60% vs 68%, p=ns Female 56% vs 55%, p=ns Adjusted odds ratio for control to treatment (95% CI), adjusted for baseline violence, survey procedure, and race/ethnicity: Male 1.23 (0.79, 1.90)

Table 21. Program characteristics and findings for <u>secondary</u> interventions evaluated by <u>randomized controlled trials</u> (continued)

(B) Secondary intervention not reporting effectiveness, randomized controlled trial (continued)

Program name and	Study population	Description of program	Findings
setting			
Triple-modality classroom program: (#5995)	Court referred adolescent males in a residential treatment facility.	 Botvin life skills training Prothrow-Stith anti-violence program Values clarification 55 classroom sessions (average 34 attended) 	Violent behavior measured at 15 months follow-up based on a formula that assigned various weights to 8 of the 20 illegal offenses in the "Legal" problem section of the Adolescent Drug Abuse Diagnosis. (Treated: n=110;
Residential treatment facility setting	M 100% W 17% AA 69% API 3% O 9%		Control: n=91) Multiple regression analysis (Dependent variable: degree of violent offenses; covariates: age, years of education, race, occupation of head of household growing up with biological parents, been physically abused, and problem behavior and attitude) concluded: Triple-modality classroom program did not show a significant advantage for reducing the degree of illegal or violent behavior. (No descriptive statistics reported)

Table 22. Program characteristics and findings for <u>secondary</u> interventions evaluated with <u>other study designs</u>

(A) Secondary intervention reporting effectiveness, other study design

Program name and setting	Study design	Study population	Description of program	Findings
Positive Adolescents Choices Training (PACT) (#2563) • School setting	Non- Randomized Controlled Trial	Selected high risk African American middle school students Gender not specified AA 100%	Health promotion /risk reduction program targeted specifically to African American adolescents blending cognitive methods and skill building to address interpersonal violence. • Small group training by interventionists at school sites • Students received 37-38 50-minute sessions during the school year.	Suspension attributed to violence (time period not specified). Percent suspension attributed to violence, Intervention (n=15) vs Partially Trained (n=6) vs Control (n=13): Before 13% vs 33% vs 23%, p=0.57 After 0% vs 16% vs 54%, p=0.003 Treated (n=15) vs Control (n=13): Before 13% vs 23%, p=0.64 After 0% vs 54%, p=0.001

(B) Secondary intervention not reporting effectiveness, other study design

Program name and setting	Study design	Study population	Description of program	Findings
Selective serotonin reuptake inhibitors (SSRIs) treatment ((#1308)	Non- Randomized Controlled Trial	Psychiatrically hospitalized adolescents (not selected for aggressiveness	To determine if a class of drugs, selective serotonin reuptake inhibitors (SSRIs), reduces aggressive behavior in adolescents • Experimental group: patients with a minimum trial of 5 weeks with SSRIs	Mean±SD number of physical aggression episodes toward other people per week based on a modified Overt Aggression Scale Mean±SD/week, On SSRI vs Off SSRI vs Control Disruptive
Psychiatric hospital		Treated group: M 58% F 42% Ethnicity not given	initiated and completed during hospitalization • Control group: patients hospitalized for at least 4 weeks and did not receive an SSRI trial during hospitalization. •Starting dose: 15±5mg • dose raised 5mg every 4 days up to 25±10mg.	0.49±0.38 vs 0.32±0.45 vs 0.64±0.71, p=ns (n=8 vs n=7 vs n=19) Affective 0.18±0.39 vs 0.23±0.43 vs 0.19±0.41, p=ns (n=9 vs n=5 vs n=15) Psychotic 2.21±2.54 vs 3.08±0.00 vs 1.49±2.33, p=ns (n=2 vs n=1, vs n=5) Mean±SD number of aggressive events between the first and last 2 weeks of the 5-week trial
				Mean±SD per week (n=13), On vs Off SSRIs: All subjects 0.69±1.09 vs 0.50±0.88, p=ns

Table 22. Program characteristics and findings for <u>secondary</u> interventions evaluated with <u>other designs</u> (continued)

(B)Secondary intervention not reporting effectiveness, other study design (continued)

Program name and setting	Study design	Study population	Description of program	Findings
Conflict resolution model of family-systems intervention for individual parent-child (#5758) Setting: Community agency	Single group pre and post design	Junior high students with behavioral problems from recently dissolved families referred by teachers for special education M 87% F 13% W 53% AA 20%	Conflict resolution model of family systems intervention with parent (or guardian)/ child dyads. Services provided by agency counselor. • Dyads met weekly for 90 minutes with a counselor • Dyads continued to meet for an average of 3 months	Frequency of physical aggression acts (measured by subscale of the Conflict Tactics scale) at 6-month follow-up (n=15). Mean±SD at 6-month follow-up, after vs before 1.33±0.90 vs 1.73±0.88, p=ns
Alternative to Suspension for Violent Behavior (ASVB) (#5301) Setting: • Community agency	Non- Randomized Controlled study with pre and post intervention comparison	L 27% High school students who have been suspended for physical violence and their families M 82% F 18% W 74% AA 10% API 2% L 12% O 2%	teaching social problem-solving and thinking skills family intervention anger management 4 90-minute sessions	Rate of resuspension for fighting physical violence per year (measured by Physical Violence Index) Percent re-suspended for fighting physical violence, treated (n=42) vs control (n=123): 7% vs 11%, p=ns

Table 23. Program characteristics and findings for <u>tertiary</u> interventions evaluated with <u>randomized controlled trials</u>

(A) Tertiary intervention reporting effectiveness, randomized controlled trial

Program name and setting	Study population	Description of program	Findings
Turning Point: Rethinking Violence (TPRV) (#0040)	First time male violent crime offender, ages 13-18 years, and their	A collaborative program designed to expose, educate, and remediate first time violent offenders and their parents regarding the consequences of violence. The 4 key components are:	Conviction for violent offense within one year after first violent conviction and completion of court sanctions
Setting: • Health care center	parents M 100%	 trauma experience where participants visit a trauma center, a hospital morgue, and an autopsy room. victim impact panel to expose participants to the aftermath of 	Violence conviction rate per year, treated (n=38) vs control (n=38):
	W 34% AA 63% O 3%	 violence on the family and friends of the victim 6 weeks group therapy focusing on conflict resolution and anger management referrals for follow up mental health and health care services Total face to face contact is approximately 14 hours 	0.05 vs 0.33, p<0.05 (No measures of variation reported)
Multi-systemic therapy (MST) (#2644)	Juvenile offenders meeting DSM III R criteria for substance abuse or dependence and	Multi-systemic Therapy focuses on individual, family, peer, school, and social network issues that contribute to identified problems. Treatment was characterized by: • low case loads per clinician allowing for intensive services to each family (average of 46 hours of service and 130 days of	4-year aggressive crimes score (major assaults, minor assaults, and strong-armed robbery) (covariates: age and marijuana use at baseline)
(home, school, neighborhood)	their families M 76% F 24% W 40% AA 60%	treatment) • delivery of services in community settings (home, school, neighborhood) • time- limited treatment (4-6 months) • 24/ 7 availability of therapists • provision of comprehensive services	4-year conviction rate±SD, treated(n=43) vs control(n=37): 0.61±0.90 vs 1.36±2.21, unadjusted p<0.05 adjusted p<0.05

Table 24. Program characteristics and findings for <u>tertiary</u> interventions evaluated with <u>other study designs</u>

(A) Tertiary intervention reporting effectiveness, other study design

Program name and	Study	Study	Description of Program	Findings
setting	Design	Population		
Multi-modal treatment approach that utilized behavioral, cognitive-behavioral, and psychological skills training methods (#10786) Setting: Treatment facility	Non- Randomized Controlled Trial Comparison of 2 programs	Incarcerated male juvenile offenders M 100% AA 34% L 21% W 42% O 3%	A comparison of two programs. Group A was an earlier program and Group B was a later program that had been improved over time. Group A characteristics: on a behavioral point level system: allowed staff to use their discretion for assigning consequences for minor rule violations. individual counseling done by master's level clinicians group counseling assigned to those who seemed most motivated for treatment and did not pose serious behavioral problems. participation mandatory but residents often gained release from school for medical or behavioral reasons. Group B characteristics: treatment has been changed: behavioral contracts a gradual reintegration over a period of days or weeks into all aspects of the program individual and group counseling continued to be offered by Master's level clinicians with assistance by direct care staff.	1-year mean of violent incidents (assaults) Mean per year, Group B (n=36) vs Group A (n=41) Violent incidents 1.5 vs 7.1, p<0.05 Assault on residents 0.0 vs 1.8, p<0.05 Assault on staff 0.0 vs 1.8, p<0.05 Restraint for violence 0.5 vs 3.8, p<0.05 Isolation for violence 0.8 vs 72.1, p<0.05 (No measures of variation reported)

Table 24. Program characteristics and findings for <u>tertiary</u> interventions evaluated with <u>other study designs</u> (continued)

(A) Tertiary intervention reporting effectiveness, other study design (continued)

Program name and	Study	Study	Description of Program	Findings
setting	Design	Population		
Outpatient Behavioral Management of Aggressiveness in Adolescents - 3 programs combined (#7973) Setting: • Home • Psych health clinic	Single group time series	Adolescents with oppositional- defiant disorder and aggressive behaviors M 81% F 19% Race/ethnicity not given	Cognitive/behavioral services provided by a private psychologist included: • parent training in the Real Economy System for Teens (REST) program • parent implementation of the REST program in the home • weekly individual cognitive therapy with the adolescent • weekly brief consultation and coaching with parents • implementation of response cost program by parents to provide consequences for aggressive behavior • REST and response cost programs continue after aggression stops and therapy is discontinued	Actual violent contact with either hands or feet or using or throwing an object at parents, siblings, or any other person in home or other settings. Each subject studied for 1 year. Total study period was 5 years. Mean rate of aggressive acts for 20 weeks program duration (n=16): Week Mean rate Week Mean rate 1*
Multi-systemic Therapy (MST) - part of Missouri Delinquency Project (#1729) Setting: • Home • Community	Pre- and Post design with comparison group	Juvenile offenders at high risk for committing additional serious crimes M 68% F 32% W 70% AA 30%	Compared multi-systemic therapy (MST) to Individual Therapy (IT): • present-focused, action oriented • directly address intrapersonal and systemic factors • individualized and highly flexible • mean of 24 hours of treatment	Findings from hierarchical multiple regression analysis, controlled for number of arrests for violent crimes prior treatment, on the number of arrests for violent crimes during 4-year follow-up [MST: 77 completers, 15 dropouts; IT: 63 completers, 21 dropouts]: Completers and dropouts F(2, 173) =11.74, p<0.0008 Completers only F(2, 137)=8.66, p<0.003 MST found equally effective with youths of different gender and ethnic background. (No measures of variation reported)

Table 24. Program characteristics and findings for <u>tertiary</u> interventions evaluated with <u>other study designs</u> (continued)

(B) Tertiary intervention not reporting effectiveness

Program name and setting	Study Design	Study Population	Description of Program	Findings
Project Back-on- Track - An after school diversion program (#0692)	Non- Randomized Controlled Trial	Youths referred for violent offenses and met criteria for	Multifaceted approach designed to target factors contributing to delinquent behavior and included child-specific interventions, parent specific interventions, and combined parent/child	Number of violent crimes committed at 12- month follow-up (assault, aggravated assault, attempted aggravated assault)
program (#0032)	ITIAI	conduct	interventions, and combined parentering	Number of violent crimes committed,
Setting		disorder and	Youth participants met 2 hours per day after	treated (n=30) vs control (n=30):
 Child and adolescent 		their parents	school, 4 days per week, for 4 weeks (total of 32 hours)	2 vs 6, p=ns
psychiatry outpatient clinics		M 37% F 63%	Parents/guardians required to attend 15 hours of interventions	(No measures of variation reported)
		W 33% AA 63% L 3%	• Treatment included group and family therapies, parent groups, educational sessions, community service projects, and empathy building exercises.	

(C) Tertiary intervention with inconclusive finding

Program name and setting	Study Design	Study Population	Description of Program	Findings
Stout Cottage Serious Sex Offenders Program (SSOP) (#6187) Setting: • Secure residential facility for offenders	Retrospective single group pre and post study	Convicted adolescent male rapists. All had a conduct disorder of an aggressive type M 100% Race/Ethnicity not given	 group therapy process issues relate to delinquent and sex offenders both confrontational and supportive techniques 8 months process 3 one-hour sessions per week 	Recidivism rate of sexual assaults and criminal activities during 2-year post discharge from program (n=50). Convicted additional sexual assault: 5/50 10% Convicted another crime 14/50 28% "The 10% and 28% can be considered as failure rates of the program."

Table 25. Summary of findings ^a for Key Questions #3, #4 and #5

Level of intervention	Randomized controlled tri	al (RCT)	Design other than RCT		Total ^b	
Primary	Reporting effectiveness	1 (25%)	Reporting effectiveness	4 (40%)	Reporting effectiveness	5 (33%)
	Not reporting effectiveness	4	Not reporting effectiveness	6	Not reporting effectiveness	10
Secondary	Reporting effectiveness	3 (50%)	Reporting effectiveness	1 (25%)	Reporting effectiveness e	4 (40%)
	Not reporting effectiveness	3	Not reporting effectiveness	3	Not reporting effectiveness	6
Tertiary	Reporting effectiveness	2 (100%)	Reporting effectiveness	3 (75%)	Reporting effectiveness	5 (83%)
	Not reporting effectiveness	0	Not reporting effectiveness	1	Not reporting effectiveness	1
All levels	Reporting effectiveness	6 (46%)	Reporting effectiveness	8 (44%)	Reporting effectiveness	14 (45%)
	Not reporting effectiveness	7	Not reporting effectiveness	10	Not reporting effectiveness	17

^a A finding was considered effective when one or more violent outcome indicators in the study reported p<0.05. Number (percent) of studies are reported here by finding, level and study design.
^b Excluded one study that reported inconclusive findings.

Table 26. Summary of program effectiveness by gender and predominant race/ethnicity in study population

(A) Effectiveness of intervention by gender of study population

Level of intervention	Effectiveness of program	Male and female	Male	Total
Primary Intervention	Reporting effectiveness	4 (40%)	0 (0%)	4 (36%)
	Not reporting effective	6 (60%)	1 (100%)	7 (64%)
	Subtotal ^a	10	1	11
Secondary Intervention	Reporting effectiveness	2 (29%)	0 (0%)	2 (25%)
	Not reporting effective	5 (71%)	1 (100%)	6 (75%)
	Subtotal ^a	7	1	8
Tertiary Intervention	Reporting effectiveness	3 (75%)	2 (100%)	5 (83%)
	Not reporting effective	1 (25%)	0 (0%)	1 (17%)
	Subtotal ^a	4	2	6
All levels	Reporting effectiveness	9 (43%)	2 (50%)	11 (44%)
	Not reporting effective	12 (57%)	2 (50%)	14 (56%)
1	Total ^a	21	4	25

(B Effectiveness of intervention by predominant race/ethnic group ^b

Level of intervention	Effectiveness of program	White	African-American	Latino	Total
Primary Intervention	Reporting effectiveness	1 (20%)	4 (80%)	0 (0%)	5 (45%)
	Not reporting effective	4 (80%)	1 (20%)	1 (100%)	6 (55%)
	Subtotal ^a	5	5	1	11
Secondary Intervention	Reporting effectiveness	0 (0%)	3 (75%)	0 (0%)	3 (38%)
	Not reporting effective	3 (100%)	1 (25%)	1 (100%)	5 (62%)
	Subtotal ^a	3	4	1	8
Tertiary Intervention	Reporting effectiveness	2 (100%)	2 (67%)	0 ()	4 (80%)
	Not reporting effective	0 (0%)	1 (33%)	0 ()	1 (20%)
	Subtotal ^a	2	3	0 ()	5
All levels	Reporting effectiveness	3 (30%)	9 (75%)	0 (0%)	12 (50%)
	Not reporting effective	7 (70%)	3 (25%)	2 (100%)	12 (50%)
	Total ^a	10	12	2	24

^a Excluded studies that did not report gender distribution. Primary group had 4 unknowns, secondary group had 2 unknowns and tertiary group had 1 unknown, a total of 7 unknowns. The study that reported inconclusive findings was excluded.

^b The race/ethnicity group that had the highest percentage in the study population (or mode).

Table 27. Summary of effectiveness of interventions by selected program characteristics

(A) Effectiveness of intervention by setting

Level of intervention	Effectiveness of program	School	Community	Home	Other	School & Community	Home & Community	Home & Facility	Total
Primary	Reporting effectiveness	3 (30%)			0 (0%)	2 (67%)	0 (0%)		5 (33%)
Intervention	Not reporting effectiveness	7 (70%)			1 ^b (100%)	1 (33%)	1 (100%)		10 (67%)
	Subtotal	10			1	3	1		15
Secondary	Reporting effectiveness	1 (50%)	3 (60%)		0 (0%)	0 (0%)			4 (40%)
Intervention	Not reporting effectiveness	1 (50%)	2 (40%)		2 ° (100%)	1 (100%)			6 (60%)
	Subtotal	2	5		2	1			10
Tertiary	Reporting effectiveness			1 (100%)	2 ^d (67%)		1 (100%)	1 (100%)	5 (83%)
Intervention	Not reporting effectiveness			0 (0%)	1 ^e (33%)		0 (0%)	0 (0%)	1 (17%)
	Subtotal ^a			1	3		1	1	6
All levels	Reporting effectiveness	4 (33%)	3 (60%)	1 (100%)	2 (33%)	2 (50%)	1 (50%)	1 (100%)	14 (45%)
	Not reporting effectiveness	8 (67%)	2 (40%)	0 (0%)	4 (67%)	2 (50%)	1 (50%)	0 (0%)	17 (55%)
	Total ^a	12	5	1	6	4	2	1	31

(B) Effectiveness of intervention by single or multiple component program

Level of intervention	Effectiveness of program	Single	Multiple	Total
Primary	Reporting effectiveness	2 (25%)	3 (43%)	5 (33%)
Intervention	Not reporting effectiveness	6 (75%)	4 (57%)	10 (67%)
	Subtotal	8	7	15
Secondary	Reporting effectiveness	1 (20%)	3 (60%)	4 (40%)
Intervention	Not reporting effectiveness	4 (80%)	2 (40%)	6 (60%)
	Subtotal	5	5	10
Tertiary	Reporting effectiveness	2 (100%)	3 (75%)	5 (83%)
Intervention	Not reporting effectiveness	0 (0%)	1 (25%)	1 (17%)
	Subtotal ^a	2	4	6
All levels	Reporting effectiveness	5 (33%)	9 (56%)	14 (45%)
	Not reporting effectiveness	10 (67%)	7 (44%)	17 (55%)
	Total ^a	15	16	31

Table 27. Summary of effectiveness of interventions by selected program characteristics (continued)

(C) Effectiveness by duration of program

Level of intervention	Effectiveness of program	<3 months	3-<6 months	6-<12 months	≥12 months	Total
Primary	Reporting effectiveness	3 (50%)	0 (0%)	1 (50%)	1 (20%)	5 (33%)
Intervention	Not reporting effectiveness	3 (50%)	2 (100%)	1 (50%)	4 (80%)	10 (67%)
	Subtotal	6	2	2	5	15
Secondary	Reporting effectiveness	0 (0%)	0 (0%)		4 (100%)	4 (44%)
Intervention	Not reporting effectiveness	4 (100%)	1 (100%)		0 (0%)	5 (56%)
	Subtotal ^f	4	1		4	9
Tertiary	Reporting effectiveness	2 (100%)	2 (100%)	0 (0%)	1 (100%)	5 (83%)
Intervention	Not reporting effectiveness	0 (0%)	0 (0%)	1 (100%)	0 (0%)	1 (17%)
	Subtotal ^a	1	2	1	1	6
All levels	Reporting effectiveness	5 (42%)	2 (40%)	1 (33%)	6 (60%)	14 (47%)
	Not reporting effectiveness	7 (58%)	3 (60%)	2 (67%)	4 (40%)	16 (53%)
	Total a, f	12	5	3	10	30

(D) Effectiveness by School Level of Implementation

Level of intervention	Effectiveness of program	Preschool	Elementary school	Middle school	High school	Middle & High schools	Total
Primary	Reporting effectiveness	1 ^g (100%)	1 (50%)	3 (30%)	0 (0%)	0 (0%)	5 (33%)
Intervention	Not reporting effectiveness	0 (0%)	1 (50%)	7 ^h (70%)	1 (100%)	1 (100%)	10 (67%)
	Subtotal	1	2	10	1	1	15
Secondary	Reporting effectiveness	1 (100%)		1 (33%)	0 (0%)	2 ¹ (67%)	4 (40%)
Intervention	Not reporting effectiveness	0 (0%)		2 (67%)	3 (100%)	1 (33%)	6 (60%)
	Subtotal	1		3	3	3	10
Tertiary	Reporting effectiveness				2 (100%)	3 (75%)	5 (83%)
Intervention	Not reporting effectiveness				0 (0%)	1 ^j (25%)	1 (17%)
	Subtotal				2	4	6
All levels	Reporting effectiveness	2 (100%)	1 (50%)	4 (31%)	2 (33%)	5 (62%)	14 (45%)
	Not reporting effectiveness	0 (0%)	1 (50%)	9 (69%)	4 (67%)	3 (38%)	17 (55%)
	Total	2	2	13	6	8	31

a The study that reported inconclusive findings was excluded.

Cone residential treatment facility and one psychiatric hospital.

Psychiatric outpatient clinics.

One included kindergarten

ⁱ One included 9th grade

^b State.
^d One health care center and one treatment facility.
^f One study that did not report on duration excluded.
^h Two included 6th grade and one included 9th grade.
^j One included 9 year olds.

Table 28. OMAR study quality criteria applied to randomized controlled trials

				OMAR Study Quality Criteria ^a						
Level	Intervention	Article ID#	Unit of randomization	Adequate randomi- zation ^b	Blinded enrollment and outcome ^c	Validated instrument	Follow-up >=80% °	Intent-to- treat analysis ^c	Controlled for confounders °	
	Safe Dates Program	2260 & 2261	School	yes	no	yes	yes	no	yes	
	Drug Abuse Resistance Education (DARE, DARE PLUS)	9	School	yes	no	yes	yes	yes	yes	
Primary	Student for Peace (Multi- component violence-prevention program)	739	School	no ^d	no	yes	no	no	yes	
	Students Management Anger and Resolution Together (SMART Talk)	5246	Team of students	no ^d	no	yes	yes	no	yes	
	Responding in Peaceful and Positive Ways - 7th grade (RIPP-7)	5871	Homeroom	no ^d	no	yes	no	yes	yes	
	Safe Dates Program	2260 & 2261	School	yes	no	yes	yes	no	yes	
	Project Towards No Drug Abuse (TND)	4315	School	no ^d	no	Not reported	no	no	yes	
	Moving to Opportunity (MTO) demonstration project.	10598	Family	no ^d	no	yes	Not reported	yes	yes	
Secondary	Early community-based intervention for prevention of substance abuse and delinquent behavior	6221	Youth bureau	no ^d	no	no	Not reported	no	yes	
	Triple modality social learning program	5995	Subject	no ^d	no	Not reported	yes	no	yes	
	Childhaven's therapeutic child- care program (formerly Seattle Day Nursery)	7158	Subject	no	yes	yes	no	no	no	
Tertiary	Turning Point: Rethinking Violence (TPRV)	40	Subject	yes	yes	Not reported	yes	yes ^e	yes ^f	
,	Multi-systemic therapy (MST)	2644	Subject	no ^d	no	yes	no	no	yes	

Table 28. OMAR study quality criteria applied to randomized controlled trials (continued)

^a Criteria number 7 addressed whether all important outcomes were considered. Since we selected only articles with violence outcome, this criterion was common

^b If baseline characteristics were compared and found no differences, we considered "yes" for this criterion. If baseline characteristics were compared and found differences, we considered "no" for this criterion.

^c Considered fatal flaws according to OMAR guideline.

^d Significant baseline factors found between the two groups were adjusted in analysis.

^e When all subjects were used in the analysis, intent-to-treat analysis was not necessary and a 'yes' was given to this criterion.

f Factors controlled by design.

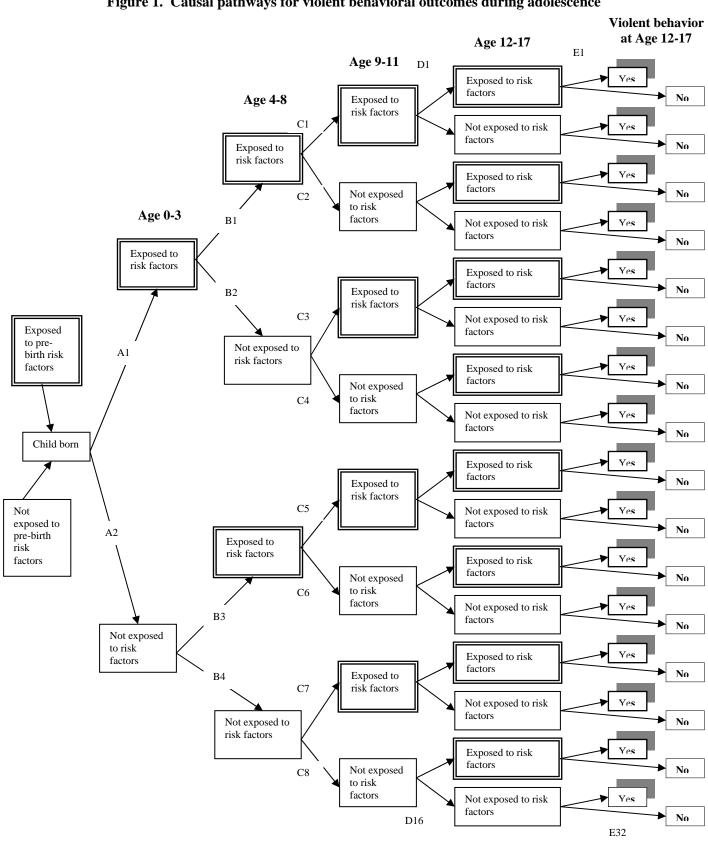


Figure 1. Causal pathways for violent behavioral outcomes during adolescence

Figure 2. Conceptual framework for risk and protective factors by age of exposure

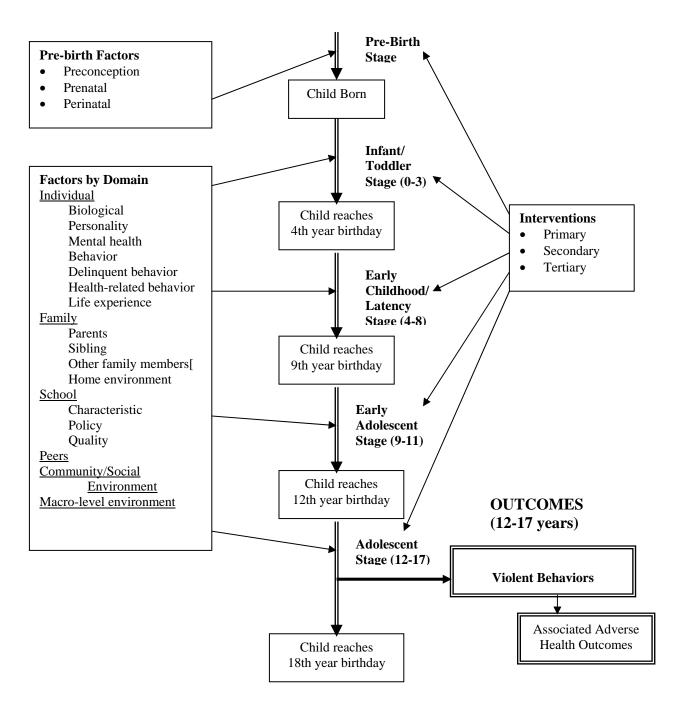
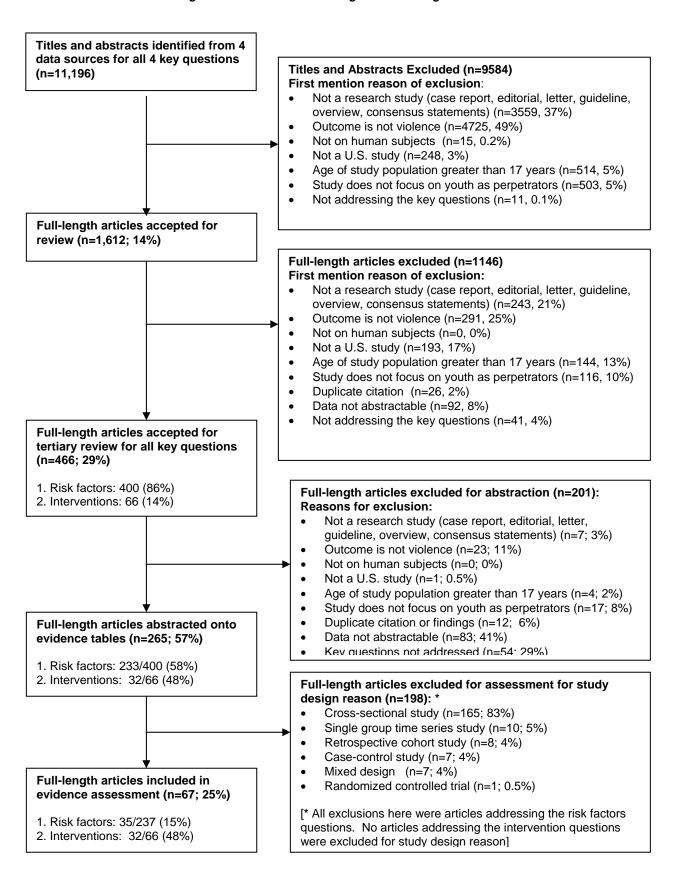


Figure 3. Process of screening and reviewing



DIALOG Strategy for MEDLINE #1

- 1. EX SD054
- S DANGEROUS BEHAVIOR/DE OR VIOLENCE/DE OR DOMESTIC VIOLENCE!/DE OR TORTURE/DE OR RAPE/DE OR HOMICIDE!/DE
- 3. S DC=C21.866? AND CRIME!/DE [wounds and injuries]
- 4. S VIOLENCE/TI OR VIOLENT/TI OR RAPE/TI OR RAPED/TI OR RAPING/TI OR VIOLENT(W)CRIME? OR DANGEROUS(W)BEHAVIOR?
- 5. S CHILD/DE,TI OR CHILD, PRESCHOOL/DE OR CHILDREN/TI OR ADOLESCEN?/DE,TI OR YOUTH/TI OR TEEN/TI OR TEENS/TI OR TEENAGER?/TI
- 6. S YOUTH(W)VIOLENCE OR ADOLESCEN?(W)VIOLENCE OR TEEN(W)VIOLENCE OR TEENAGER?(W)VIOLENCE OR CHILD(W)VIOLENCE OR STUDENT(W)VIOLENCE OR SCHOOL(W)VIOLENCE
- 7. S AFRICA!/DE OR ANTARCTIC REGIONS/DE OR ARCTIC REGIONS/DE OR ASIA!/DE OR ATLANTIC ISLANDS!/DE OR AUSTRALIA!/DE
- 8. S EUROPE!/DE OR INDIAN OCEAN ISLANDS!/DE OR PACIFIC ISLANDS!/DE OR USSR!/DE OR CARIBBEAN REGION!/DE OR CENTRAL AMERICA!/DE OR LATIN AMERICA/DE
- 9. S SOUTH AMERICA!/DE OR CANADA!/DE OR MEXICO/DE OR GREENLAND/DE OR LONDON/DE OR PARIS/DE OR BERLIN/DE OR ROME/DE OR TOKYO/DE OR MOSCOW/DE
- 10. S PUERTO RICO/DE OR UNITED STATES!/DE
- 11. S PRACTICE GUIDELINES/DE OR GUIDELINES/DE OR DT=PRACTICE GUIDELINE OR DT=GUIDELINE OR DT=LETTER OR DT=EDITORIAL OR DT=NEWS
- 12. C 2 OR 3 OR 4
- 13. C 12 AND 5
- 14. C 13 OR 6
- 15. C 7 OR 8 OR 9
- 16. C 14 NOT 15
- 17. C 14 AND 10
- 18. C 16 OR 17
- 19. C 18 NOT 11
- 20. c 19 AND 1
- 21. S WAR!/DE OR PRISONS!/DE OR PRISONERS/DE
- 22. C 20 NOT 21
- 23. S22/HUMAN
- 24. S S23/ENG

Appendix A-1 (continued)

DIALOG Systematic Reviews, etc., Search Strategy for MEDLINE #1A

EXS SD054

- 1. S META(W)ANALYSIS OR METAANALY? OR EVIDENCE(W)BASED
- 2. S RANDOMI?ED(N3)(TRIAL?? OR CONTROLLED OR STUDY OR STUDIES OR DOUBLE)
- S (CONTROLLED OR INTERVENTIONAL OR DRUG OR THERAPEUTIC OR CLINICAL OR PLACEBO)(W3)TRIAL??
- 4. S BLIND?(W)(TRIAL?? OR STUDY OR STUDIES)
- 5. S DOUBLE(W)BLIND? AND (TRIAL?? OR STUDY OR STUDIES)
- 6. S SINGLE(W)BLIND? AND (TRIAL?? OR STUDY OR STUDIES)
- 7. S (SINGLE?? OR DOUBLE?? OR TRIPLE?? OR TREBLE?)/TI,AB,DE,ID AND (BLIND?? OR MASK?)/TI,AB,DE,ID
- 8. S CASE(W)CONTROL?(W)(STUDY OR STUDIES)
- 9. S COHORT(N3)(STUDY OR STUDIES OR STUDIED)
- 10. S RCT/TI,AB AND TRIAL??/TI,AB,DE
- 11. S RCTS(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 12. S TRIAL??(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 13. S STUDIES(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 14. S MEDLINE(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 15. S LITERATURE(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 16. S CRITICAL?(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 17. S EVIDENCE(N4)(ANALYSIS OR ANALYZ? OR REVIEW? OR EXAMIN? OR EVALUAT?)
- 18. S SYSTEMATIC?(N2)(REVIEW? OR OVERVIEW?? OR SURVEY OR SURVEYS OR STUDY OR STUDIES OR LITERATURE)
- 19. S (COCHRANE??(W)(DATABASE OR STUDY OR STUDIES OR REVIEW??))/TI,AB,DE
- 20. S QUANTITATIV?(W2)REVIEW(W5)EVIDENCE
- 21. S CONSENSUS(W)DEVELOPMENT OR PRACTICE(W)GUIDELINE? OR REVIEW??/TI,DE,ID
- 22. C 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21

DIALOG Strategy for MEDLINE #2

- S CHILD/DE,TI OR CHILD, PRESCHOOL/DE OR CHILDREN/TI OR ADOLESCEN?/DE.TI OR TEEN/TI OR TEENS/TI OR TEENAGER?/TI
- S DANGEROUS BEHAVIOR/DE OR VIOLENCE/DE OR TORTURE/DE OR RAPE/DE OR HOMICIDE!/DE OR DOMESTIC VIOLENCE/DE
- 3. S DC=C21.866? AND CRIME!/DE [WOUNDS AND INJURIES]
- S (DATE OR DATING OR COURTSHIP OR PARTNER OR SPOUSE OR SPOUSAL)(N3)VIOLENCE OR DATE(W)RAPE
- 5. S PHYSICAL?(W)(VIOLENCE OR ASSAULT? OR ATTACK?? OR AGGRESSION OR AGGRESSIVE)
- 6. S (GANG OR GANGS OR GUN OR GUNS OR FIREARM?? OR WEAPON?)(N3)VIOLENCE
- 7. S (GANG OR GANGS OR GUN OR GUNS OR FIREARM?? OR WEAPON?)(N3)VIOLENT
- S (SCHOOL? OR CLASSROOM?? OR STUDENT?? OR COLLEGE?? OR UNIVERSITY OR UNIVERSITIES OR INTERPERSONAL)(N3)VIOLENCE
- 9. S (SCHOOL? OR CLASSROOM?? OR STUDENT?? OR COLLEGE?? OR UNIVERSITY OR UNIVERSITIES OR INTERPERSONAL)(N3)VIOLENT
- 10. S (YOUTH OR YOUTHS OR ADOLESCEN? OR TEEN OR TEENS OR TEENAGER? OR CHILD OR CHILDREN OR JUVENILE??)(N3)VIOLENCE
- 11. S (YOUTH OR YOUTHS OR ADOLESCEN? OR TEEN OR TEENS OR TEENAGER? OR CHILD OR CHILDREN OR JUVENILE??)(N3)VIOLENT
- 12. S VIOLENT(W)(CRIME OR CRIMES OR CRIMINAL? OR DEATH OR DEATHS OR INTERACTION?) OR ARMED(W)ROBBER? OR ANIMAL??(N2)CRUEL?
- S DRUG(W)RELATED(W)VIOLENCE OR VIOLENCE(W)RELATED OR SADISM OR SADOMASOCHIS? OR SADISTIC
- 14. S (DESTRUCTIVE OR PHYSICAL OR ABUSIVE OR ATTACK? OR CRUEL OR VIOLENT)(N3)BEHAVIOR??
- 15. C 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14
- 16. S CHILD ABUSE/DE OR CHILD ABUSE, SEXUAL/DE OR ELDER ABUSE/DE OR SPOUSE ABUSE/DE OR BATTERED WOMEN/DE OR BATTERED CHILD SYNDROME/DE
- 17. S SEX OFFENSES/DE OR INCEST/DE OR AGGRESSION/DE OR SUBSTANCE-RELATED DISORDERS!/DE OR MUNCHAUSEN SYNDROME BY PROXY/DE OR CIVIL DISORDERS!/DE
- 18. S KNIFE OR KNIVES OR KNIFING OR STAB OR STABBING OR STABBED OR TORTURE OR TORTURING OR TORTURED
- 19. S GUNSHOT? OR GUN OR GUNS OR RIFLE OR RIFLES OR FIREARM? OR WEAPON? OR SHOOTING?
- 20. S MURDER? OR HOMICID? OR FEMICID? OR FILICID? OR MUTILATION?? OR MUTILATE?? OR RAPE OR RAPED OR RAPING OR RAPES OR RAPIST?
- 21. S INJUR? OR ASSAULT? OR BATTER OR BATTERY OR BATTERING OR BATTERED OR ARSON OR FIRE(N2)(SET OR SETTING) OR FIRESETT?

Appendix A-2 (continued)

- 22. S BULLY OR BULLIES OR BULLIED OR BULLYING OR BRUTAL? OR BLUDGEON? OR VIOLENT OR VIOLENCE OR BURN OR BURNS OR BURNING OR STALKING OR STALKER?
- 23. C 18 OR 19 OR 20 OR 21 OR 22
- 24. C 16 OR 17
- 25. C 23 AND 24
- 26. C (1 AND 15) OR (1 AND 25)
- 27. S AFRICA!/DE OR ANTARCTIC REGIONS/DE OR ARCTIC REGIONS/DE OR ASIA!/DE OR ATLANTIC ISLANDS!/DE OR AUSTRALIA!/DE
- 28. S EUROPE!/DE OR INDIAN OCEAN ISLANDS!/DE OR PACIFIC ISLANDS!/DE OR USSR!/DE OR CARIBBEAN REGION!/DE OR CENTRAL AMERICA!/DE OR LATIN AMERICA/DE
- 29. S SOUTH AMERICA!/DE OR CANADA!/DE OR MEXICO/DE OR GREENLAND/DE OR LONDON/DE OR PARIS/DE OR BERLIN/DE OR ROME/DE OR TOKYO/DE OR MOSCOW/DE
- 30. S PRACTICE GUIDELINES/DE OR GUIDELINES/DE OR DT=PRACTICE GUIDELINE OR DT=GUIDELINE OR DT=LETTER OR DT=EDITORIAL OR DT=NEWS
- 31. S DT=INTERVIEW OR DT=LEGAL CASES OR DT=CONSENSUS DEVELOPMENT CONFERENCE OR DT=CONGRESSES OR DT=LECTURES
- 32. S DT=PATIENT EDUCATION HANDOUT OR DT=LEGISLATION OR DT= REVIEW OR CASE REPORT/DE
- 33. S WAR!/DE OR PRISONS!/DE OR PRISONERS/DE OR DETENTION(W)CENTER?
 OR IMPRISONMENT OR INCARCERAT? OR REFORMATORY OR REFORMATORIES OR JAILS
- 34. S COMBAT OR VIETNAM OR MILITARY OR ARMED(W)(FORCES OR SERVICES)
- 35. S PROSTITUTION/DE OR SUICIDE!/DE OR SELF-INJURIOUS BEHAVIOR/DE OR MASOCHISM/DE
- 36. C 27 OR 28 OR 29
- 37. C 26 NOT 36
- 38. S PUERTO RICO/DE OR UNITED STATES!/DE
- 39. C 26 AND 38
- 40. C 37 OR 39
- 41. C 30 OR 31 OR 32 OR 33 OR 34 OR 35
- 42. C 40 NOT 41
- 43. S S42/HUMAN
- 44. S S43/ENG

DIALOG Strategy for MEDLINE #3

- 1. S ADOLESCEN?/DE,TI,AB OR TEEN/TI,AB OR TEENS/TI,AB OR TEENAGER?/TI,AB
- 2. S JUVENILE/TI,AB OR JUVENILES/TI,AB OR YOUTH/TI,AB OR YOUTHS/TI,AB
- 3. C1 OR 2
- 4. S VIOLENCE OR VIOLENT
- 5. C 3 AND 4
- 6. S (SCHOOL? OR CLASSROOM?? OR STUDENT??) AND (VIOLENCE OR VIOLENT)
- 7. S DANGEROUS BEHAVIOR/DE OR VIOLENCE/DE OR RAPE/DE OR HOMICIDE!/DE OR DOMESTIC VIOLENCE/DE
- 8. S (DATE OR DATING OR COURTSHIP OR INTERPERSONAL)(N5)VIOLENCE OR DATE(W)RAPE
- 9. S (DATE OR DATING OR COURTSHIP OR INTERPERSONAL)(N5)VIOLENT
- 10. S PHYSICAL?(W)(ASSAULT? OR ATTACK?? OR AGGRESSION OR AGGRESSIVE) OR ARMED(W)ROBBER?
- 11. S KNIFING/TI,AB OR STAB/TI,AB OR STABBING/TI,AB OR STABBED/TI,AB OR GUNSHOT?/TI,AB OR SHOOTING?/TI,AB OR BRUTAL?/TI,AB OR BLUDGEON?/TI,AB
- 12. S MURDER?/TI,AB OR HOMICID?/TI,AB OR FEMICID?/TI,AB OR FILICID?/TI,AB OR RAPE/TI,AB OR RAPED/TI,AB
- 13. S RAPING/TI,AB OR RAPES/TI,AB OR RAPIST?/TI,AB OR ASSAULT??/TI,AB OR BULLY/TI,AB OR BULLIES/TI,AB OR BULLIED/TI,AB OR BULLYING/TI,AB
- 14. C 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13
- 15. C 3 AND 14
- 16. C 5 OR 15
- 17. S AFRICA!/DE OR ANTARCTIC REGIONS/DE OR ARCTIC REGIONS/DE OR ASIA!/DE OR ATLANTIC ISLANDS!/DE OR AUSTRALIA!/DE
- 18. S EUROPE!/DE OR INDIAN OCEAN ISLANDS!/DE OR PACIFIC ISLANDS!/DE OR USSR!/DE OR CARIBBEAN REGION!/DE OR CENTRAL AMERICA!/DE OR LATIN AMERICA/DE
- 19. S SOUTH AMERICA!/DE OR CANADA!/DE OR MEXICO/DE OR GREENLAND/DE OR LONDON/DE OR PARIS/DE OR BERLIN/DE OR ROME/DE OR TOKYO/DE OR MOSCOW/DE
- 20. S PRACTICE GUIDELINES/DE OR GUIDELINES/DE OR DT=PRACTICE GUIDELINE OR DT=GUIDELINE OR DT=LETTER OR DT=EDITORIAL OR DT=NEWS
- 21. S DT=INTERVIEW OR DT=LEGAL CASES OR DT=CONSENSUS DEVELOPMENT CONFERENCE? OR DT=CONGRESSES OR DT=LECTURES
- 22. S DT=PATIENT EDUCATION HANDOUT OR DT=LEGISLATION OR DT= REVIEW OR CASE(W)REPORT?
- 23. S WARI/DE OR COMBAT OR VIETNAM OR MILITARY OR ARMED(W)(FORCES OR SERVICES)

Appendix A-3 (continued)

- 24. S PTSD/TI,AB OR POST(W)TRAUMATIC(W)STRESS OR POSTTRAUMATIC(W)STRESS OR STRESS DISORDERS, POST-TRAUMATIC/DE
- 25. S PROSTITUTION/DE OR SUICIDE!/DE OR SELF-INJURIOUS BEHAVIOR/DE OR MASOCHISM/DE OR BATTERED CHILD SYNDROME/DE OR SHAKEN(W)(BABY OR INFANT)
- 26. C 17 OR 18 OR 19
- 27. C 16 NOT 26
- 28. S PUERTO RICO/DE OR UNITED STATES!/DE
- 29. C 16 AND 28
- 30. C 27 OR 29
- 31. C 20 OR 21 OR 22 OR 23 OR 24 OR 25
- 32. C 30 NOT 31
- 33. S S32/HUMAN
- 34. S S33/ENG

DIALOG Strategy for MEDLINE #4

- 1. s adolescen?/de,ti,ab or teen/ti,ab or teens/ti,ab or teenager?/ti,ab or juvenile/ti,ab or juveniles/ti,ab or youth/ti,ab or youths/ti,ab
- 2. s (direct(w)aggression) OR (overt(w)aggression)
- 3. c1 AND 2
- 4. s war!/de OR combat OR vietnam OR military OR armed(W)(forces OR services)
- 5. s ptsd/ti,ab or post(w)traumatic(w)stress OR posttraumatic(W)stress OR stress disorders, post-traumatic/de
- 6. s prostitution/de OR suicide!/de OR self-injurious behavior/de OR masochism/de OR battered child syndrome/de OR shaken(W)(baby OR infant)
- 7. c4 OR 5 OR 6
- 8. c3 NOT 7
- 9. s s8/HUMAN
- 10. s s9/ENG
- 11. t 10/4/1-1000

DIALOG Strategy for PsycINFO #1

- 1. s child/ti or childhood/ti or ag=100 or children/ti or ag=160 or ag=180 or adolescen?/ti or ag=200 or teen/ti or teens/ti or teens/ti or teens/ti or teens/ti
- 2. s aggressive behavior/de or violence/de or torture/de or rape/de or homicide/de OR family violence/de
- 3. s crime/de AND (wounds/de OR injuries/de)
- 4. s (date OR dating OR courtship OR partner OR spouse OR spousal)(n3)violence OR date(w)rape
- 5. s physical?(w)(violence OR assault? OR attack?? OR aggression OR aggressive)
- 6. s (gang OR gangs OR gun OR guns OR firearm?? OR weapon?)(n3)violence
- 7. s (gang OR gangs OR gun OR guns OR firearm?? OR weapon?)(n3)violent
- 8. S (school? OR classroom?? OR student?? OR college?? OR university OR universities OR interpersonal)(n3)violence
- 9. S (school? OR classroom?? OR student?? OR college?? OR university OR universities OR interpersonal)(n3)violent
- 10. s (youth OR youths OR adolescen? OR teen OR teens OR teenager? OR child OR children OR juvenile??)(n3)violence
- 11. s (youth OR youths OR adolescen? OR teen OR teens OR teenager? OR child OR children OR juvenile??)(n3)violent
- 12. s violent(w)(crime OR crimes OR criminal? OR death OR deaths OR interaction?) OR armed(w)robber? OR animal??(n2)cruel?
- 13. s drug(w)related(w)violence OR violence(w)related OR sadism OR sadomasochis? OR sadistic
- 14. s (destructive OR physical OR abusive OR attack? OR cruel OR violent)(n3)behavior??
- 15. c 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14
- 16. s child abuse/de OR elder abuse/de OR partner abuse/de OR battered females/de OR battered child syndrome/de OR battered child/de
- 17. s sex offenses/de OR incest/de OR aggressive behavior/de OR drug abuse/de OR riots/de OR civil(w)disorder?
- 18. s knife OR knives OR knifing OR stab OR stabbing OR stabbed OR torture OR torturing OR tortured
- 19. s gunshot? OR gun OR guns OR rifle OR rifles OR firearm? OR weapon? OR shooting?
- 20. s murder? OR homicid? OR femicid? OR filicid? OR mutilation?? OR mutilate?? OR rape OR raped OR raping OR rapes OR rapist?
- 21. s injur? OR assault? OR batter OR battery OR battering OR battered OR arson OR fire(n2)(set OR setting) OR firesett?
- 22. s bully OR bullies OR bullied OR bullying OR brutal? OR bludgeon? OR violent OR violence OR burn OR burns OR burning OR stalking OR stalker?
- 23. c 18 OR 19 OR 20 OR 21 OR 22
- 24. c 16 OR 17

Appendix A-5 (continued)

- 25. c 23 AND 24
- 26. c (1 AND 15) OR (1 AND 25)
- 27. s war/de OR prisons/de or prisoners/de OR correctional institutions/de OR detention(w)center? OR imprisonment OR incarcerat? OR reformatory OR reformatories OR jails
- 28. s combat OR Vietnam OR military OR armed(w)(forces OR services)
- 29. s prostitution/de OR suicide/de OR self destructive behavior/de OR masochism/de
- 30. c 27 OR 28 OR 29
- 31. c 26 NOT 30
- 32. s s31/ENG
- 33. s dt=journal article
- 34. c 32 AND 33
- 35. s s34/1990:2003
- 36. t 35/7,id,de,la,sh,ag,dt,kc,su,gn/all tag

DIALOG Strategy for PsycINFO #2

- 1. s ag=adolescent OR adolescen?/ti,ab OR teen/ti,ab OR teens/ti,ab OR teenager?/ti,ab OR juvenile/ti,ab OR juveniles/ti,ab OR youths/ti,ab OR youths/ti,ab
- 2. s violence OR violent
- 3. c1 AND 2
- 4. s (school? OR classroom?? OR student??) AND (violence OR violent)
- 5. s violence/de OR rape/de OR homicide/de OR family violence/de
- 6. s (date OR dating OR courtship OR interpersonal)(n5)(violence OR violent) OR date(W)rape
- 7. s physical?(W)(assault? OR attack?? OR aggression OR aggressive) OR armed(W)robber?
- 8. s knifing OR stab OR stabbing OR stabbed OR gunshot? OR shooting? OR brutal? OR bludgeon?
- 9. s murder? OR homicid? OR femicid? OR filicid? OR rape OR raped OR raping OR rapes OR rapist?
- 10. s bully OR bullies OR bullied OR bullying OR assault?
- 11. c 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10
- 12. c1 AND 11
- 13. c3 OR 12
- 14. s war/de OR combat OR vietnam OR military OR armed(W)(forces OR services)
- 15. s posttraumatic stress disorder/de OR posttraumatic(W)stress OR post(W)traumatic(W)stress OR ptsd
- 16. s prostitution/de OR suicide/de OR self destructive behavior/de OR masochism/de OR battered child syndrome/de OR shaken(W)(baby OR infant)
- 17. c 14 OR 15 OR 16
- 18. c 13 NOT 17
- 19. s s18/ENG
- 20. s dt=journal article
- 21. c 19 AND 20
- 22. s s21/1990:2003
- 23. t 22/7,id,de,la,sh,ag,dt,kc,su,gn/all tag

DIALOG Strategy for PsycINFO #3

- 1. s ag=adolescence OR adolescen?/ti,ab OR teen/ti,ab OR teens/ti,ab OR teenager?/ti,ab OR juvenile/ti,ab OR juveniles/ti,ab OR youth/ti,ab OR youths/ti,ab
- 2. s (direct(w)aggression) OR (overt(w)aggression)
- 3. c1 AND 2
- 4. s war/de OR combat OR vietnam OR military OR armed(W)(forces OR services)
- 5. s posttraumatic stress disorder/de OR posttraumatic(W)stress OR post(W)traumatic(W)stress OR ptsd
- 6. s prostitution/de OR suicide/de OR self destructive behavior/de OR masochism/de OR battered child syndrome/de OR shaken(W)(baby OR infant)
- 7. c4 OR 5 OR 6
- 8. c3 NOT 7
- 9. s s8/ENG
- 10. s dt=journal article
- 11. c 9 AND 10
- 12. s s11/1990:2003
- 13. t 12/7,id,de,la,sh,ag,dt,kc,su,gn/all tag

DIALOG Strategy for SocAbs #1

- 1. s children/de,ti OR child/ti or adolescen?/de,ti or teen/ti or teens/ti or teenager?/ti
- 2. s violence/de or torture/de or rape/de or homicide/de OR family violence/de
- 3. s crime/de AND injuries/de
- 4. s (date OR dating OR courtship OR partner OR spouse)(n3)violence OR date(w)rape
- 5. s physical?(w)(violence OR assault? OR attack?? OR aggression OR aggressive)
- 6. s (gang OR gangs OR gun OR guns OR firearm?? OR weapon?)(n3)violence
- 7. s (gang OR gangs OR gun OR guns OR firearm?? OR weapon?)(n3)violent
- 8. S (school? OR classroom?? OR student?? OR college?? OR university OR universities OR interpersonal)(n3)violence
- 9. S (school? OR classroom?? OR student?? OR college?? OR university OR universities OR interpersonal)(n3)violent
- 10. s (youth OR youths OR adolescen? OR teen OR teens OR teenager? OR child OR children OR juvenile??)(n3)violence
- 11. s (youth OR youths OR adolescen? OR teen OR teens OR teenager? OR child OR children OR juvenile??)(n3)violent
- 12. s violent(w)(crime OR crimes OR criminal? OR death OR deaths OR interaction?) OR armed(w)robber? OR animal??(n2)cruel?
- 13. s drug(w)related(w)violence OR violence(w)related OR sadism OR sadomasochis? OR sadistic
- 14. s (destructive OR physical OR abusive OR attack? OR cruel OR violent)(n3)behavior??
- 15. c 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14
- 16. s child abuse/de OR child sexual abuse/de OR elder abuse/de OR spouse abuse/de OR battered women/de
- 17. s sex offenders/de OR incest/de OR aggression/de OR substance abuse/de OR civil disorders/de OR riots/de
- 18. s knife OR knives OR knifing OR stab OR stabbing OR stabbed OR torture OR tortured
- 19. s gunshot? OR gun OR guns OR rifle OR rifles OR firearm? OR weapon? OR shooting?
- 20. s murder? OR homicid? OR femicid? OR filicid? OR mutilation?? OR mutilate?? OR rape OR raped OR raping OR rapes OR rapist?
- 21. s injur? OR assault? OR batter OR battery OR battering OR battered OR arson OR fire(n2)(set OR setting) OR firesett?
- 22. s bully OR bullies OR bullied OR bullying OR brutal? OR bludgeon? OR violent OR violence OR burn OR burns OR burning OR stalking OR stalker?
- 23. c 18 OR 19 OR 20 OR 21 OR 22
- 24. c 16 OR 17

Appendix A-8 (continued)

- 25. c 23 AND 24
- 26. c (1 AND 15) OR (1 AND 25)
- 27. s war/de OR vietnam war/de OR prisons/de or prisoners/de OR detention(w)center? OR imprisonment OR incarcerat? OR reformatory OR reformatories OR jails
- 28. s combat OR Vietnam OR military OR armed(w)(forces OR services)
- 29. s prostitution/de OR suicide/de OR self destructive behavior/de OR masochism
- 30. c 27 OR 28 OR 29
- 31. c 26 NOT 30
- 32. s s31/ENG
- 33. s DT=FEATURE ARTICLE
- 34. c 32 AND 33
- 35. s s34/1990:2003
- 36. t 35/7,de,la,dt,gn/all tag

DIALOG Strategy for SocAbs #2

- 1. s adolescen?/de,ti,ab or teen/ti,ab or teens/ti,ab or teenager?/ti,ab
- 2. s violence or violent
- 3. c1 AND 2
- 4. s (school? OR classroom?? OR student??) AND (violence or violent)
- 5. s violence/de or rape/de or homicide/de OR family violence/de
- 6. s (date OR dating OR courtship OR interpersonal)(n5)(violence OR violent) OR date(W)rape
- 7. s physical?(W)(assault? OR attack?? OR aggression OR aggressive) OR armed(W)robber?
- 8. s gunshot? OR shooting? OR knifing OR stab OR stabbing OR stabbed OR brutal? OR bludgeon?
- 9. s murder? OR homicid? OR femicid? OR filicid? OR rape OR raped OR raping OR rapes OR rapist?
- 10. s bully OR bullies OR bullied OR bullying OR assault?
- 11. c 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10
- 12. c 1 AND 11
- 13. c 3 OR 12
- 14. s war/de OR combat OR vietnam war/de OR Vietnam OR military OR armed(W)(forces OR services)
- 15. s posttraumatic stress disorder/de OR posttraumatic(W)stress OR post(w)traumatic(w)stress OR ptsd
- 16. s prostitution/de OR suicide/de OR self destructive behavior/de OR masochism OR battered(W)child(W)syndrome OR shaken(W)(baby OR infant)
- 17. c 14 OR 15 OR 16
- 18. c 13 NOT 17
- 19. s s18/ENG
- 20. s DT=FEATURE ARTICLE
- 21. c 19 AND 20
- 22. s s21/1990:2003
- 23. t 22/7,de,la,dt,gn/all tag

Form 1: Title and Abstract Screening Form

1.	Reviewer ID (initials):			
2.	Review Date://			
3.	Record #:			
4.	Search Rejection Criteria			
	GO IN ORDER FROM R1 TO R6, STOP AT FIRST "NO"			
	R1: Not a case report/editorial/letter/clinical practice/overview/ Practice guidelines/consensus statements/methodology/opinion/ Commentary/description/review	Yes	No	Unsure
	R2: Study outcome is violence	Yes	No	Unsure
	R3: A human subjects study	Yes	No	Unsure
	R4: A US Study	Yes	No	Unsure
	R5: Age of population studied is 17 or under	Yes	No	Unsure
	R6: Study focuses primarily on youth as perpetrators	Yes	No	Unsure
5.	Key Questions Addressed			
	Risk Factors for youth violence (Questions 1 and 2)	Yes	No	Unsure
	Intervention/Prevention of Violence (Questions 3, 4, and 5)	Yes	No	Unsure
6.	Review Outcome Pull	Yes	No	Unsure
7.	Is it a review article of youth violence?	Yes	No	Unsure

Definition of Violence

A threatened or actual physical force or power initiated by an individual that results in, or has a high likelihood of resulting in, physical or psychological injury or death.

Form 2: Secondary Screening Form for Full-length articles

1.	Reviewer Initials:			
2.	Record #:			
3. G	Reason(s) of Rejection: O IN ORDER FROM R1 TO R9, STOP AT FIRST "NO"			
	R1: Not a case report/editorial/letter/clinical practice/overview/ Practice guidelines/consensus statements/methodology/opinion/ Commentary/description/review	Yes	No	Unsure
	R2: Study outcome is violence	Yes	No	Unsure
	R3: A human subjects study	. Yes	No	Unsure
	R4: A US Study	Yes	No	Unsure
	R5: Age of population studied is 17 or under	Yes	No	Unsure
	R6: Study focuses primarily on youth as perpetrators	Yes	No	Unsure
	R7: Not a duplicate citation	Yes	No	Unsure
	R8: Data abstractable	Yes	No	Unsure
	R9: Addresses the key question(s)	Yes	No	Unsure
4.	Key question(s) addressed are:			
	Q1, Q2: Risk Factors Associated with Violent behavior			
	Q3,Q4,Q5: Interventions			
5.	Study Design (According to Figure 1 in Grading Scientific Evidence)			
	Randomized/Nonrandomized control trial (group or individual)1Prospective Comparative Cohort Study2Retrospective Comparative Cohort Study3Other Cohort Design with Concurrent Comparison Group4Case Control Study5Single Group Study (Before-After, Time series)6Cross-Sectional Study7Noncomparative Study8			
	I I a surra			

Form 3: Study Quality Review Form

1. Reviewer Initial: 2. Record Number 3. Study Design: (from Form 2)							
4.	QUAI	LITY OF RANDOMIZED CONTROLLED TRIALS (types 1)	yes	unsure	no		
	1.	Was randomization method adequate to assemble comparable group?	1	0.5	0		
	2.	Was blinding or concealment method used in treatment allocation?	1	0.5	0		
	3.	Was blinding or concealment method used in outcome assessment?	1	0.5	0		
	4.	Were primary and secondary outcomes reliable and valid?	1	0.5	0		
	5.	Was the comparability of groups maintained throughout the study (>=80%)?	1	0.5	0		
	6.	Was intent-to-treat analysis or similar analytical method used?		1	0.5	0	
	7.	Were all important outcomes studied?	1	0.5	0		
	8.	Were all potential confounders accounted or controlled for?	1	0.5	0		

Individual Study Rating System:

Good: At least partially fulfills (adequate or uncertain) all of the above criteria (i.e. no "0"s).

Comparable groups are assembled initially through adequately concealed randomization and maintained throughout the study (follow-up at least 80 percent). Intention to treat analysis is used.

Fair: At least partially fulfills (adequate or uncertain most criteria). Studies will be graded "fair" if any or all of the following problems occur, without the fatal flaws noted in the "poor" category below: Generally comparable groups are assembled initially but some question remains whether some (although not major) differences occurred with follow-up; and generally applied equally; some but not all important outcomes are considered; and some but not all potential confounders are accounted for. Intention to treat analysis is done for RCTs.

Poor: Fails to partially fulfill most criteria or any of the following fatal flaws exists:

Groups assembled initially are not close to being comparable or maintained throughout the study; failure to mask outcome assessment; and key confounders are given little or no attention. Intention to treat analysis is lacking.

Appendix B-3 (continued)

Form 3: Study Quality Review Form

1. 2. 3.	Recor	Reviewer Initial: Record Number Study Design: (from Form 2)										
5.	QUAI	LITY OF OBSERVATIONAL STUDIES (types 2, 3, 4, 5, 7, and 8)	yes	unsure	no	n/a						
	1.	Were the groups at baseline comparable?	1	0.5	0	-9						
	2.	Were concurrent controls used?	1	0.5	0	-9						
	3.	Was follow-up rate at each assessment >=80%?	1	0.5	0	-9						
	4.	Were instruments used to assess exposure or outcome valid and reliable?	1	0.5	0	-9						
	5.	Were measurements applied equally to all groups?	1	0.5	0	-9						
	6.	Were all important outcomes considered?	1	0.5	0	-9						
	7.	Were all potential confounders appropriately controlled for in study or analysis?	? 1	0.5	0	-9						

Individual Study Rating System:

Good: Meets all criteria: Comparable groups are assembled initially and maintained throughout the study (follow-up at least 80 percent); reliable and valid measurement instruments are used and applied equally to the groups; all important outcomes are considered; and appropriate attention to confounders in analysis.

Fair: Studies will be graded "fair" if any or all of the following problems occur, without the fatal flaws noted in the "poor" category below: Generally comparable groups are assembled initially but some question remains whether some (although not major) differences occurred with follow-up; measurement instruments are acceptable (although not the best) and generally applied equally; some but not all important outcomes are considered; and some but not all potential confounders are accounted for.

Poor: Studies will be graded "poor" if any of the following fatal flaws exists: Groups assembled initially are not close to being comparable or maintained throughout the study; unreliable or invalid measurement instruments are used to assess exposure or outcomes or not applied at all equally among groups, and key confounders are given little or no attention. Lack of a control group or single group study.

References

Procedures for EPC Reports for ODS and OMAR, August 2003

West S, King V, Carey TS, et al. Systems to Rate the Strength of Scientific Evidence. Evidence Report/Technology Assessment No. 47 (Prepared by the Research Triangle Institute-University of North Carolina Evidence-based Practice Center under Contract No. 290-97-0011). AHRQ Publication No. 02-E016. Rockville, MD: Agency for Healthcare Research and Quality. April 2002.

Fletcher, RH, Fletcher SW, Wagner EH. Clinical Epidemiology—the essentials. Baltimore: Williams & Wilkins, 1982.

Jadad AR, Moore AR, Carroll D, et al. Assessing the quality of reports of randomized clinical trials: is blinding necessary? Controlled Clinical Trials 1996;17:1-12.

Evidence Table 1: Risk Factors	Contributing to Violent Behavior as	nd Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria		
	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
			Outcome measure	Give a brief statement of the primary objective of the
	Study Quality Score:	Place (city, state):		study, then concisely and systematically record the
	Element score:		<u>Definition</u>	findings.]
	Domain score:	Study Setting:		G.13-77-77-70-71-71-71-71-71-71-71-71-71-71-71-71-71-
		G. I.B. I.I	<u>Instrument used to measure</u>	SAMPLE FORMAT
	Sample size:	Study Population:	<u>outcome</u>	W/0/\ ::1 : 1
		Inclusion criteria:	Tuna	# (%) with violence outcome Risk Factor Grp 1 Grp 2 Effect size
	Description of cohort(s) by	inclusion criteria.	Type	Risk Factor Grp 1 Grp 2 Effect size
	age, gender, &	Exclusion criteria:	Circumstance/Situational Context	
	race/ethnicity	Exclusion criteria.	Circumstance/Situational Context	
	<u>race, emmery</u>		Proactive/Reactive	
	Age	Main independent factor(s):		
		1	Weapon used	
	Gender			
		Instrument used to measure	Victim-offender relationship	Associated Adverse Health Outcome
	Race	factors:		
				SAMPLE FORMAT
			Adverse Health Outcome:	11/0/2
		Covariates	T	# (%) with outcome
			Type	Risk Factor Grp 1 Grp 2 Effect size
			Definition	
			Definition	
			Are mechanisms of violence	
			theorized?	
			Yes	
			No	
			If yes, state the theory:	

Appendix B-5

Evidence Table 2: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Time/Place Prevention Intervention: Definition Findings

Record #	Study Quality	Time/Place	Prevention Intervention: Definition	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl		Outcome Definition		
		·		,
	Study Design:	Time (begin, end):	Description of Program	[Give a brief statement of the primary
				objective of the study, then concisely and
	Individual study quality score	Place (city, state):	Name of program	systematically record relevant findings.]
		Study Population:	<u>Level</u>	SAMPLE FORMAT
	Sample size (initial and actual):	<u>Inclusion criteria</u> :	Kind of program	
	Overall			# (%) with outcome
	Intervention Group (Grp 1)	Exclusion criteria:	Mechanism of delivery	Outcome 1 Treated Control
	Control Group (Grp 2)			
		Moderating/mediating factors	Target population	
	Age, gender & race groups:			
	All Grp1 Grp2	Outcome 1: violence	Setting where intervention took place	Outcome 2 Treated Control
	Age	Measure		
		Definition	Setting where subjects were recruited	
	Gender	How measured		
	, n	Type	Person delivering program	
	Race	Circumstance	T:	Outcome 3 Treated Control
		Proactive/reactive	Time period/duration/frequency	
		Weapon used		
		Victim-offender relationship	Nata Can	
		O-4 2. Eff. 4:	Notes if any	O torrest to Treated Control
		Outcome 2: Effectiveness		Outcome 4 Treated Control
		Definition of outcome measure(s)		
		Outcome 3: Adverse Health		
		Definition of outcome measure(s)		
		Definition of outcome measure(s)		
		Outcome 4: Safety		
		Definition of outcome measure(s)		
		Definition of outcome measure(s)		
			ļ	

Appendix C1: Evidence Table 01: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Outcome (Violence) Definition Findings

Study Characteristic

Record #

Study Quality

Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications			
				.			
, , ,	1						
Author Year, Jnl 5149 Becker 2002 Am J Orthopsychiatry	Group(s) Demographics Sample Size Study Design: Prospective cohort study Study Quality Score: Poor (retention rate 79%) Sample size: Original sample at Time 1: n=363 Total sample at Time 2: n=287 (79% of original) Index group: n=141 Comparison group: n=146 Description of cohort(s) by age, gender, & race/ethnicity Age: Time 1: Median = 9.3 yrs	Risk Factors Studied Inclusion/Exclusion Criteria Study Period (begin, end): Time 1: 1990 – 1991 Time 2: 1996 – 1997 Place (city, state): Unspecified Study Setting: Time 1: Research laboratories or shelters Time 2: Research laboratories, shelters, or telephone Study Population: Index group: Mother-child pairs who had been "abused by a partner in the past year" Comparison group: Mother-child pairs who responded to an invitation to participate in a "University study of the family" Inclusion criteria: Family must have one child between ages 6-12 living with the mother during the past year	and characterization. Outcome (violence): Outcome measure Adolescent violent behavior measured at Time 2 Definition • Threatened someone with a weapon • Hurt someone badly enough that they needed bandages/doctor • Threatened to hurt people • Got in many fights • Physically attacked people Type: Physical aggression Instrument: Self-reporting to 5 questions. Circumstance/Situational Context; Proactive/Reactive; Weapon used; Victim-offender	Timplications Violence Outcome To measure the direct effects of family violence and attention problems in childhood on violent behaviors at adolescence. Time 1 predictors of violent behaviors among adolescent boys at Time 2: Path Risk Factor Coefficient p-value Marital Violence NS Paternal Abuse NS Attention Problems NS Conduct Problems NS Age 0.20 >0.05 Violence-Nonviolence** Correlation at time 2 0.58 >0.05 (Goodness-of-fit test, χ²(2, N=141) = 1.51; comparative fit index = 1.00) Time 1 predictors of violent behaviors among adolescent girls at Time 2:			
	Range = 6-12 yrs Time 2: Range = 12-18 yrs Gender: Male: n=141 (49%) Female: n=146 (51%) Race: Anglo-European 53% Hispanic 35% African American 6% Native American, Asian, or Pacific Islander 6%	Exclusion criteria: Children with: Various developmental disabilities Serious birth complications Prematurity Long-term chronic illnesses Main independent factor(s): Marital violence (mother's reporting on Conflict Tactics Scale (CTS; Straus, 1979) Paternal abuse (mother and child reporting) ADHD and Conduct Disorder (CD) (Mother reporting on Child Assessment Schedule (CAS) Covariates: Age	Weapon used; Victim-offender relationship: Unspecified Adverse Health Outcome: None reported Are mechanisms of violence theorized? Yes If yes, state the theory: "Cycle of violence" – exposure to family conflict at an early age, particularly child abuse or coercive parenting, underlie childhood conduct problems and adolescent delinquency	adolescent girls at Time 2: Path Risk Factor Marital Violence Paternal Abuse O.33 O.05 Attention Problems Conduct Problems Age Violence-Nonviolence** Correlation at time 2 O.54 (Goodness-of-fit test, $\chi^2(2, N=145) = 3.31$; comparative fit index = 0.99) **nonviolent delinquency includes "snuck into house/building to steal something", "hurt someone else's property", "exchange money/drugs/food for sex", "taken something worth less than \$50", "taken something worth more than \$50", "stolen a car", "set fire to property", "sold drugs to strangers", and "sold drugs to friends"			
	Anglo-European 53% Hispanic 35% African American 6% Native American, Asian, or	 Main independent factor(s): Marital violence (mother's reporting on Conflict Tactics Scale (CTS; Straus, 1979) Paternal abuse (mother and child reporting) ADHD and Conduct Disorder (CD) (Mother reporting on Child Assessment Schedule (CAS) Covariates: 	Yes If yes, state the theory: "Cycle of violence" – exposure to family conflict at an early age, particularly child abuse or coercive parenting, underlie childhood conduct problems and	Violence-Nonviolence** Correlation at time 2 0.54 >0.05 (Goodness-of-fit test, $\chi^2(2, N=145) = 3.31$; comparatifit index = 0.99) **nonviolent delinquency includes "snuck into house/building to steal something", "hurt someone else's property", "exchange money/drugs/food for sex "taken something worth less than \$50", "taken something worth more than \$50", "stolen a car", "set fire to property", "sold drugs to strangers", and "sold			

Appendix C1: Evidence Table 02: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Definition Findings

Record #

Study Quality

Record #	Study Quanty	Study Characteristic	Outcome (violence) Definition	Findings			
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria					
1529	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective cohort study	Baseline: 1987 and 1988 Follow-	Outcome measure	What are the predictors	of repeated viole	nce amo	ong male
Beyers	(Pittsburgh Youth Study)	up through 1993-1995.	Repeated violent delinquency	adolescents living in adv	antaged neighbor	rhoods?	,
	- Oldest of 3 cohorts over	Place (city, state):	Definition		Total	High	Low
2001	6.5 years, from age 13-	Pittsburgh	Violent delinquency:	Prevalence in %	Sample	SES	SES
	19.5)	Study Setting:	1) attacked another with a	Violent delinquency	31.1	20.8	37.2
J	[First 5 follow-up	Advantage and disadvantaged	weapon or with the intent to	Repeated violent delinque	ncy 14.1	9.8	16.8
Abnormal	conducted every 6 months	neighborhoods	seriously hurt or kill;	Official serious delinquen	cy 7.3	2.9	9.9
Child	and subsequent 4 every 12	Study Population:	2) used a weapon, force or	Unadjusted Odds Ratio (9)	5% CI)		
Psycho-	months.]	Students with highest risk score	strong arm method to get		High SES (159)	Low S	ES (261)
logy		based on # of antisocial or	something from someone;	<u>Demographic</u>			
	Study Quality Score:	delinquent act from random	3) physically hurt or threatened	Older Age	0.97 (0.46,2.06)	1.88 (1	.24,2.84)
	Good	samples of students provided by	to hurt someone to get them to	Race/Ethnicity	2.14 (0.69,6.63)	1.92 (0	0.74,5.04)
		Education Board who participated	have sex and	Single parent status	1.00 (0.35,2.89)	1.41 (0	0.71,2.84)
	Sample size:	in initial screening	4) had sex with someone against	Family SES	0.94 (0.90,0.97)	0.74 (0	0.72,0.76)
	Origninal: 506	Inclusion criteria:	their will.	<u>Individual</u>			
	Analysis: 420 (83%)	• Participated in at least 6 of 8	Must be endorsed by youth or by	Physical aggression	3.09 (2.09,4.56)	1.49 (1	.22,1.82)
		assessments subsequent to first	teacher regarding youth.	Impulsive/Hyperactive	4.68 (3.40,6.44)	1.61 (1	.43,1.81)
	Description of cohort(s)	follow-up assessment	Repeated violence: if one of	Low academic achievement	1.75 (0.79,3.89)	1.47 (0	0.85,2.54)
	by age, gender, &	• Lived at address that permitted	these items was endorsed on	Low school motivation	2.03 (1.37,3.02)	1.98 (1	.53,2.56)
	race/ethnicity	determination of	two or more interviewing	Pos attitude to problem beh	2.19 (1.97,2.44)	1.89(1.	.77,2.03)
		neighborhood membership at	phases.	Lack of guilt	2.33 (1.74,3.12)		
	Age	first assessment	<u>Instruments</u> :	Had sex (<13.5y)	3.70 (1.26,10.9)	5.69 (2	2.47,13.1)
	13-19.5 y, 13 years old at	Exclusion criteria:	SRD (Elliott) and TRF	Carried hidden weapon	2.42 (0.82,7.13)	3.77 (1	.83,7.78)
	time of initial assessment	Engaged in repeated violence	(Archenbach)	<u>Family</u>			
		before second follow-up	<u>Type:</u> see definition	Low communication	1.16 (1.09,1.22)		
	Gender: all males	assessment	Circumstance/Situational	Boy not involved	1.72 (1.30,2.28)	1.56 (1	.32,1.86)
		Main independent factor(s):	Context: see definition		1.10 (0.75,1.62)	1.05 (0	0.86,1.28)
	Race	Neighborhood SES	Proactive/Reactive	Poor supervision	0.90 (0.58,1.39)	1.43 (1	.17,1.73)
	African American 57%	Other risk factors	Not explicitly stated, but	<u>Peer</u>			
		A total of 19 predictors in four	proactive by implication	Peer delinquency	4.43 (1.42,13.8)		
		domains: Demographic, individual,	Weapon used: Not specified	Nonconventional peers	0.80 (0.73,0.88)		
		family and peer. [See Findings	Victim-offender relationship	Bad friends	1.41 (1.06,1.86)	1.58 (1	.32,1.88)
		column for list]:	Not stated.	Adjusted Odds Ratio for s			
		<u>Instruments</u> : Several sources:	Adverse Health Outcome:	Physical aggression	3.09		
		Neighborhood SES based on 1990	Not studied	Lack of guilt		1.53	
		U.S. Census; Achenbach Child	Are mechanisms of violence	Had sex		3.94	
		Behavior Checklis; Self-Reported	theorized?	Carried hidden weapon		2.50	
		Delinquency Scale, and Denver	Yes. The Bioecological model	Poor communication		1.57	
		High Risk Delinquency Survey.	(Bronfenbrenner et al)				

Appendix C1: Evidence Table 03: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.	

37	Study Design:	Time (begin, end):	Outcome (violence):	Violence Outcome				
	Prospective cohort study	Time 1 interview: Apr-Dec 95	Outcome 1:	1) To compare violence perpetration	n betwe	en youth	who hav	e and have
Borowsky	(ADD Health - a national	Time 2 interview: Apr-Aug 96	Violence perpetration	not reported a history of repeating	a grade l	v gendei	*	
	study of adolescents in	Place (city, state): US	Measure: 8 items (see list	Repeat a grade		No	Yes	No
2002	grades 7-12).	Study Population:	Findings), equally	Outcome	Girls	Girls	Boys	Boys
		Analysis 1: Adolescents	weighted, reflecting	Got into serious fight	20.6	13.3	33.2	25.5
Ambula-	Individual study quality	in grades 7-12	serious interpersonal	Participation in group fight	19.9	13.7	31.1	21.0
tory	score	Analysis 2: Adolescents	violence perpetration	Hurt someone badly enough to				
Pediatrics	Poor (attrition > 20%)	repeating a grade	within the past 12 months.	require bandages or medical care	6.8	4.4	17.5	11.5
		Inclusion criteria: Not	Scale was dichotomized	Fighting that resulted in personal				
		specified	at the 80th percentile.	Injury requiring medical care	4.7	2.5	9.5	4.3
Page 1 of	Sample size (initial and	Exclusion criteria: Not	<u>Type</u> : See list of outcome	Use or threatened use of a weapon	5.6	1.8	7.1	3.9
2	actual):	specified	measures in Findings	Pulled a knife or gun on someone	5.0	1.9	12.9	5.4
	CompletedTime 1	Main independent factor(s):	<u>Instruments Used</u> :	Use of weapon in fight	3.2	1.4	8.5	3.8
	interviews:	History of grade retention	Not specified	Shot or stabbed someone	1.4**	0.7	5.7	2.0
	20,745 (77% of	Risk/Protective Factors	Circumstance,	*p<.001 for all comparisons excep	t as note	d		
	invited to participate)	Community characteristics:	Proactive/reactive,	**p=.01				
	Completed Time 2	• Fear of violence in school	<u>Victim-offender</u>					
	interviews:	or neighborhood,	<u>relationship</u> :	2) To identify risk factors for Time	2 violer	ice perpe	tration a	mong youth
	14,738 (71%)	• peer suicide involvement,	Not specified	who have repeated a grade				
	Completed Time 1 & 2:	perceived racism,	Weapon used:			dds Ratio		<u>CI)</u>
	13,781 (66%)	connectedness with	See measures	Risk Factors	Girls		Boys	
	Analysis: 11,781 (57%)	school		Community context				
		Family factors:	Adverse Health	Suicidal behavior of friend	2.16 (1	45-3.21)	1.80 (1.29-2.50) ^c
	Index group defined as	Parent-family	Outcome:	Family context				h
	those with history of grade	relationships,	Not studied	Suicide behav of family member				1.28-3.31) b
	retention: 3,265	• parental expectations for		Gun in home	1.30 (0	71-2.37)	1.37 (1.00-1.90) ^a
		adolescent behavior,	Are mechanisms of	Individual characteristics	0.00.41	0 < 7 70	C 4 -= 4	0.00.000
	Subjects in analysis 1:	• parental modeling, and	violence theorized?	Suicide attempt				0.92-3.03)
	Total: 11,781 (57%)	household features	Yes. A risk and resiliency	Mental health treatment				1.06-2.23) a
	Repeated a grade	Individual characteristics:	framework which	Perceived risk of untimely death				1.20-1.79) ^c
	Yes No Girls 1374 3607	Academic performance,	proposes that	Somatic symptoms				1.53-4.58)
		• violence-related	vulnerability to health-	Poor perceived general health Same sex attraction				1.27-3.66) ^b
	Boys 1891 4909	behaviors,	jeopardizing outcomes					1.29-3.26) ^b 1.91-4.95) ^c
	Subjects in analysis 2.	• substance use	among youth is affected by the number and nature	School problems				1.91-4.93) 1.77-3.91)°
	Subjects in analysis 2: Total: 3,265	• employment,	of life stressors as well as	Skipping school Violence victimization				1.77-3.91) 2.90-4.94) ^c
	Girls 1374	 Emotional well-being, 	the presence of protective	Weapon carrying				2.38-4.24) ^c
	Male: 1891	health status,	factors that buffer the					2.36-4.24) 3.72-6.01) °
	Wiale. 1091	nearm status,perceived risk of	impact of these stressors.	Violence perpetration at Time 1 Alcohol use				3.00-8.07) °
	Ethnicity/Race:	-	impact of these stressors.	Marijuana use				2.25-5.28)°
	not reported	premature mortality, and		Other illicit drug use				2.23-3.28) 1.96-4.28) °
	not reported	 religious identity 		Continued	2.10 (1	(2.90 (1.70-4.20)
	l	I .	1	Commuea				

Appendix C1: Evidence Table 03: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findir	ngs						
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications							
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.								
37				2) To 3	dontifre	mataatirra	footoma f	or Time 2	riolonos		tion among
37							e tactors fo ed a grad				
Poroweky						-	e u a grau lfare statu		ed for age	e, race/eu	illicity,
Borowsky				Tallilly	Structure	e, and we		_{us)} djusted C	Ada Dat	ios (0 5 9/-	CD
2002				Rick I	actors		A	Girls	<u>Juus Kai</u>	Boys	<u>(CI)</u>
2002					unity con	ntext		GILIS		Doys	
Ambula-					t caring	10710		0.46(0.	20-1.09)	0.45(0.	26-0.76) ^b
tory					ol connec	tedness		`	,	,	27-0.70) ^c
Pediatrics					ol safety			,	,	,	49-1.24)
					context			`	,	`	,
				Parer	ital prese	nce		0.72(0.	35-1.50)	0.49(0.	27-0.89) a
Page 2 of				Parer	nt-family	connecte	dness	0.36(0.	21-0.62)	c 0.33(0.	20-0.54) ^c
2					ital schoo			1.51(0.	86-2.65)	0.48(0.	32-0.73)°
					dual char		<u>s</u>			_	
				Emotional well-being $0.36(0.20-0.64)^{\circ} 0.51(0.30-0.85)^{\circ}$							
				Grade point average $0.36(0.15-0.91)^{a} 0.23(0.13-0.41)^{c}$					13-0.41)		
				^a p<0.0	05; ^b p<0.	01; ° p<0	0.001				
				4) Pred	dicted pro	obabilitie	s that an a	adolescer	nt who h	as reneat	ed a grade
							f violent b			as repeat	eu u gruue
								Girls	Girls	Boys	Boys
				<u>P(N)</u>	P(A)	P(B)	P(C)	R(H)	R(L)	R(H)	R(L)
				0	0	0	0	56.7	12.3	52.4	23.8
				1	1	0	0	54.9	11.5	49.9	22.0
				1	0	1	0	54.2	11.3	47.6	20.4
				1	0	0	1	48.7	9.2	35.3	13.4
				2	1	1	0	52.4	10.6	45.0	18.8
				$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	1 0	0	1	46.9	8.7	33.0	12.2
				2 3	1	1 1	1 1	46.2 44.4	8.4 7.9	31.0 28.9	11.3 10.3
				$\frac{3}{P(N)}$	number o	f protect	ive factor		1.9	20.9	10.5
							A - parent		onnected	ness	
							B - school				esence
							C - grade p				
					High in a				C		
							ization or	r perpetra	tion,		
						nce use		- •	•		
					school	problem	S				
				R(L):	Low in al	ll 3 risk f	actors.				

Appendix C1: Evidence Table 04: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s)	Risk Factors Studied	Definition and	Implications
Year, Jnl	Demographics	Inclusion/Exclusion	characterization.	
	Sample Size	Criteria		
<u>-</u>				

Sample Size Criteri	a
1 1	
5303 <u>Study Design</u> : <u>Study F</u>	Period (begin, end):
Prospective cohort study 1966-19	
	city, state):
	wide sample of male
	nigh school students
	ed in 87 schools.
	Setting: School
	Population:
	obtained from first
	ond waves of Youth
Poor if retention rate and in Trans	sition Study (1966) at
	tute for Social
considered (69%) Research	ch, Univ. of Michigan
(Bachm	nan, O'Malley
Sample size: &Johns	son, 1978)
Wave 1: N =2213 Inclusion	on criteria:
Wave 2: N =1883 (85%) Male, 1	0 th grade, but
Analysis: N=1519 (69%) otherwi	ise unspecified
	on criteria: Female,
	erwise unspecified
	ndependent factor(s):
	l Aggression
	nent used to measure
Age: <u>factors:</u>	₫'
	oort: How often do
	rents actually slap
	ikert scale: 1 (never)
Wave 2: 11 th grade boys to 5 (al	ways)
(completion of year, age	
I - I	ndependent factors:
• SE	2
I	rental attachment
	arental Attachment
	ale)
	titude toward
	gression (Approval of
	gression Scale)
	rents' mean age
	ysical size-respondent
• Ra	ce (white/non-white

Outcome (violence):

Outcome measure Child Aggression toward parents Parental aggression toward

Definition

- # times a) hit their mother and b) hit their father (past 3 years, W1, past 1.5 years W2).
- Measured in a Likert scale: 1 (never) to 5 (always)
- 2-item scale created to index overall level of child-to-parent assault.
- Mean of these items constitutes scale score Instrument used to measure

outcome Child's self-report Type

Physical aggression toward

Circumstance/Situational Context

Child-to-parent in response to parent-to-child aggression Proactive/Reactive

Hypothesized to be reactive Weapon used

Hitting Victim-offender relationship Family

Violence Outcome

This study tests the reciprocal relationship between parental and child aggression, characterized by countervailing effects. Two models of reciprocity: A) cross-lagged, i.e., parental aggression at T1 is assumed to have a lagged effect on child aggression in T2 and child aggression in Time 1 is assumed to have a lagged effect (negative/deterrent) on parental aggression in T2. B) contemporaneous, i.e., reciprocal effects are simultaneous, concurrent or occur in proximate time. The current level of aggression toward the child is likely to stimulate immediate reactive aggression toward the parents.

	Model A		Model B		
	Aggression	n 2	Aggres	ssion 2	
Independent variables	Parental	Child	Parenta	al Child	
Parental aggression 1	.49(.03)*	.20(.03)*	.53(.03)*		
Child aggression 1	08(.03)*	.46(.03)*		49(.03)*	
Parental aggression 2				.40(.07)*	
Child aggression 2			19(.06)*	٠	
Socio-economic status	07(.03)	.03(.02)	06(.03)	.06(.02)	
Race	10(.04)	.26(.02)*	06(.03)	.30(.03)*	
Parental attachment	04(.03)	13(.02)*	07(.03)	11(.02)*	
Approval of aggression		.08(.02)*		.08(.02)*	
Parents' age	06(.02)*	.06(.02)*	05(.02)	.08(.02)*	
Physical size-respondent	02(.02)	.02(.01)	01(.02)	.02(.02)	
R**2	.17	.36	.25	.37	

Are mechanisms of violence theorized?

Yes, Strain Theory, Social Learning Theory, and Coercion Theory.

Consistent with theorectical accounts, the results indicate a reciprocal relationship between parental and child aggression, characterized by countervailing effects. Although aggression by parents (slapping) tends to foster aggression on the part of the male adolescent child, aggression by the male adolescent child tends to deter the assaultive behavior of parents.

Appendix C1: Evidence Table 05: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Findings

Record #

Study Quality

Record #	Study Quanty	Study Characteristic	Outcome (violence)	Findings			
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.				
5689	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective cohort study	1983 - 1992	Outcome measure	With infrequent violence reported du	uring adolesc	ence, a wa	ave by
Dishion	(Oregon Youth Study)	Place (city, state):	Number of violent acts	wave growth model was difficult to			
		Medium-sized metropolitan	committed in past year	violence (self report and juvenile rec			
1997	Study Quality Score:	region of the Pacific Northwest	Definition	throughout adolescence and analyzed			
	Good if only retention rate	Study Setting: School	Self report: Assault, robbery	procedures.			
Social	is considered.	Study Population:	and rape.	F			
Develop-	Poor if both participation	At-risk boys, their parents and	Arrest: assault, menacing,	Correlations between constructs (N=195)		
ment	and retention rates are	friends, sampled from public	robbery, rape.	Corrections between constructs (1	11-1707		
THE IT	considered.	schools in higher juvenile crime	Instrument used to measure	Construct 1	2 3	4	5
	considered.	neighborhoods.	outcome	Constituct	- 5	•	
	Sample size:	Inclusion criteria: 4th grade	Child's self-report (Elliot's	1. Parental discipline 1.00			
	N=206 (of 277 eligible)	boys	delinquency interview, 1983)	2. Child antisocial65*** 1.0	00		
	Cohort 1: '83-84 (n=102)	Exclusion criteria: Female	Juvenile court records from		.42*** 1.00		
	Cohort 2: '84-85 (n=104)	Main independent factor(s) and	county of residence – all			* 1.00	
		instruments used:			34*** .32**		1.00
	Analysis: 195 (95%)		police contacts, excluding				
		Antisocial behavior (Child-	child neglect or abuse	Note: * p <.05; ** p <.01; ***	p < .001		
	Description of cohort(s)	interview; parent and	Type: see above		•		
	by age, gender, &	teacher: CBC-L	<u>Circumstance/Situational</u>	Multiple regression analyses for So	elf-reported	violence	
	race/ethnicity	Externalizing (Achenbach)	Context		βt	p	
		Parental Discipline (Family)	Except gang-related violence,	, · · · · · · · · · · · · · · · · · · ·	0.44 5.59	< 0.00)1
	Age:	Process Code for nattering	not specified		0.11 n/r	ns	'-
	Wave 1: 9-10 years	and abusive cluster and	Proactive/Reactive		0.29 4.48	< 0.01	1
	Wave 2: 11-12 years	Discipline questionnaire)	Not specified	Beviancy training	0.27 4.40	<0.01	-
	Wave 3: 13-14 years	Deviancy training (Topic	Weapon used	Model R**2 is 0.32, F=31.02, p<0.0	001		
	Wave 4: 15-16 years	Code rule- breaking talk	Not specified	Woder K 2 is 0.32, 1 = 31.02, p<0.0	501.		
	Wave 5: 17-18 years	and Dyad Violence	<u>Victim-offender relationship</u>	Logistic regression analyses for Po	olico contacto	for viole	onco
		questionnaire)	Peer and other unspecified	offense (n=194):	once contacts	101 11010	ince
	Gender: Boys only				β Wal	1 n	
			Adverse Health Outcome:		0.48 3.16)
	Race: "predominently		None				
	white"		Are mechanisms of violence		-0.48 3.55		
			theorized?	Deviancy training	0.78 11.2	< 0.01	L
			Yes	TI 11 .: C A			1 *1*.
				The odds ratio for Arrest was 2.14, c			
			If yes, state the theory:	of 0.76. Thus controlling for the infl			
			Coercion Model of Antisocial	child antisocial behavior and parenta			
			Behavior	who engage in deviancy training wit			
				probability of being arrested for a vi-		those wh	ose
				friendships were based on normative	e topics.		
			<u> </u>	<u> </u>			

Appendix C1: Evidence Table 06: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #		Study Characteristic	Outcome (Violence)	Findings	Adverse Health	Outcome	
	Study Quality	· ·					
Author	Group(s)	Risk Factors Studied	Definition and	Implications			
Year, Jnl	Demographics	Inclusion/Exclusion	characterization.				
	Sample Size	Criteria					
	T			T =			
5704	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective cohort	1995-1996	Outcome measure	To study the effects of		of substances on th	e longitudinal
Dornbusch	study (ADD Health		Violent behavior at Time 2	change in adolescent vi	olence.		
	- the National	Place (city, state): U.S.A.					
1999	Longitudinal Study		<u>Definition</u>	Multivariate Regressi	on-Baseline Mode	el 1:	
	of Adolescent	Study Setting:	Any of the following in the		Time 2 violence		
Intl J	Health)	School-based	preceding 12 months:		<u>Everyone</u>	<u>Male</u>	<u>Female</u>
Adolesc			•pulled knife/gun	\mathbb{R}^2	0.277	0.239	0.318
Medicine	Study Quality	Study Population:	•shot/stabbed someone	Factor	Coeff. p-value	Coeff. p-value	Coeff. p-value
and Health	Score: Poor	A nationally	•in a serious physical fight	Female gender	-0.014 < 0.001		_
	(attrition believed	representative sample of	•used a weapon in a fight	Age	-0.002 < 0.05	-0.001 ns	-0.003 < 0.001
	to be >20%)	7 th -12 th grade students in	•victim needed bandages or	Parent education	-0.002 < 0.01	-0.003 < 0.05	-0.001 ns
Page 1 of	,	the U.S., surveyed in	medical care	Intact family structure	-0.009 < 0.001	-0.012 < 0.01	-0.006 < 0.01
5	Sample size:	Waves I and II of the	•used or threatened to use	African American	0.006 ns	0.005 ns	0.006 ns
	13,568	National Longitudinal		Hispanic American	0.009 < 0.05	0.015 < 0.05	0.003 ns
	[n used in the	Study of Adolescent	weapon to get something	Asian American	0.003 ns	0.008 ns	-0.002 ns
	analysis not	Health, 1994-1996	•in a group against group	Time 1 violence	0.073 < 0.001	0.071 < 0.001	0.076 < 0.001
	reported.	, , , , , , , , , , , , , , , , , , , ,	fight				
	However, Figure 2	Inclusion criteria:	T	Multivariate Regressi	on w/ Cigarettes-	Model 2:	
	gave an n=9,233 in	All adolescents who	<u>Instrument used to measure</u>		Time 2 violence		
	the cross-lagged	participated in both Wave	<u>outcome</u>		Everyone	Male	<u>Female</u>
	model. The	I (1995) and Wave II	None	R^2	0.288	0.258	0.323
	question is raised	(1996) in-home data	_	Factor	Coeff. p-value	Coeff. p-value	Coeff. p-value
	as to whether 9,233	collection, and for whom	Type	Female gender	-0.016 < 0.001	Octiv p varae	<u>coerri</u> <u>p varae</u>
	cases were used in	sample weights were	Physical aggression/fight, use	Age	-0.003 < 0.001	-0.003 < 0.05	-0.004 < 0.001
	all analyses]	available.	or threat to use a weapon	Parent education	-0.002 < 0.01	-0.003 < 0.05	-0.001 ns
	an analyses	Exclusion criteria: None		Intact family structure	-0.006 < 0.01	-0.008 < 0.05	-0.005 < 0.05
	Description of	<u> </u>	<u>Circumstance/Situational</u>	African American	0.013 < 0.001	0.014 < 0.05	0.010 < 0.05
	cohort(s) by age,	Main independent	Context	Hispanic American	0.013 < 0.001	0.019 < 0.01	0.005 ns
	gender, &	factor(s):	Not specified	Asian American	0.007 ns	0.019 <0.01 0.014 ns	-0.000 ns
	race/ethnicity	•Cigarette smoking		Time 1 violence	0.068 < 0.001	0.064 < 0.001	0.074 < 0.001
	race, cumienty	•Alcohol use	Proactive/Reactive	Cigarettes	0.005 < 0.001	0.004 < 0.001	0.002 < 0.001
	Age:		Not specified	2154101105	0.003 \0.001	J.000 \0.001	0.002 (0.001
	Not specified	•Marijuana		Multivariate Regressi	on w/ Alcohol-Ma	del 3·	
	1 tot specified	•Cocaine	Weapon used	Transfer at the tree to see	Time 2 violence		
	Gender:	•Inhalants	Not specified		Everyone Everyone	Male	Female
	Not specified	 Other illicit drugs 		\mathbb{R}^2	0.285	0.247	0.327
	110t specificu	 Polydrug use (multiple 	Victim-offender relationship	Factor	Coeff. p-value	Coeff. p-value	Coeff. p-value
	Race:	drugs) - 2 derived	Not specified	Female gender	-0.015 < 0.001	cocii. p-vaiue	cocii. p-vaiuc
	Not specified	indicators		Age	-0.013 < 0.001	-0.003 < 0.05	-0.004 < 0.001
	140t specified			ngu	100.00	-0.003 <0.03	-0.00 1 \0.001
		<u>Continued</u>	<u>Continued</u>	<u>Continued</u>			
				Commueu			

Appendix C1: Evidence Table 06: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings	raverse meanin	Guttome	
Author	Group(s)	Risk Factors Studied	Definition and	Implications			
Year, Jnl	Demographics	Inclusion/Exclusion	characterization.	implications			
1 cai, Jiii	Sample Size	Criteria	Characterization.				
	Sample Size	Criteria					
5704			Adverse Health Outcome:		Time 2 violence		
3704		Covariates	Not studied			Mala	Eamala
Dornbusch		<u>Covariates</u> Gender	Not studied	Easter	Everyone Coeff p velue	Male Coeff p value	<u>Female</u> <u>Coeff.</u> p-value
Domousch		Family structure	Are mechanisms of violence	Factor Parent education	<u>Coeff.</u> <u>p-value</u> -0.002 <0.01	<u>Coeff.</u> <u>p-value</u> -0.003 <0.01	-0.001 ns
1999			theorized?		-0.002 <0.01	-0.010 < 0.01	-0.001 lis -0.005 <0.05
1999		Parent education	No	Intact family structure African American	0.009 < 0.01	0.010 <0.01	0.003 < 0.03
Intl J		Age Race	NO	Hispanic American	0.009 < 0.01	0.015 < 0.05	0.009 < 0.1 0.005 ns
Adolesc		Ethnicity		Asian American	0.011 < 0.01 0.006 ns	0.013 < 0.03 0.012 ns	-0.000 ns
Medicine		Ethnicity		Time 1 violence	0.068 < 0.001	0.012 iis 0.065 < 0.001	0.072 <0.001
and Health		Instrument used to				0.005 < 0.001	0.072 < 0.001
and Health		Instrument used to		Alcohol	0.005 < 0.001	0.000 <0.001	0.004 <0.001
		measure factors:		M-14	/ N/	M - J - J - 4.	
		Add Health designed		Multivariate Regressi		-Model 4:	
page 2 of 5		questionnaire			Time 2 violence	Mala	F1-
3				\mathbb{R}^2	Everyone 0.282	<u>Male</u> 0.245	Female 0.323
				Factor	Coeff. p-value	Coeff. p-value	Coeff. p-value
				Female gender	-0.015 < 0.001	0.002	0.002 -0.001
				Age	-0.003 < 0.001	-0.002 ns	-0.003 < 0.001
				Parent education	-0.002 <0.01	-0.003 < 0.01	-0.001 ns
				Intact family structure	-0.007 < 0.001	-0.009 < 0.05	-0.005 < 0.05
				African American	0.007 < 0.05	0.006 ns	0.008 < 0.1
				Hispanic American	0.010 < 0.01	0.014 < 0.05	0.004 ns
				Asian American	0.004 ns	0.009 ns	-0.002 ns
				Time 1 violence	0.068 < 0.001	0.065 < 0.001	0.073 < 0.001
				Marijuana	0.005 < 0.001	0.007 < 0.01	0.004 < 0.01
				3.6.14	10 . 34	115	
				Multivariate Regressi		odel 5:	
					Time 2 violence	N. 1	Б 1
				\mathbb{R}^2	Everyone	Male	Female
					0.277	0.239	0.319
				<u>Factor</u>	Coeff. p-value	Coeff. p-value	Coeff. p-value
				Female gender	-0.014 < 0.001	0.001	0.002 <0.001
				Age	-0.002 < 0.05	-0.001 ns	-0.003 <0.001
				Parent education		-0.003 < 0.05	
				Intact family structure	-0.009 <0.001	-0.012 < 0.01	-0.006 <0.01
				African American	0.006 ns	0.005 ns	0.007 ns
				Hispanic American	0.009 < 0.05	0.014 < 0.05	0.003 ns
				Asian American	0.003 ns	0.008 ns	-0.002 ns
				Time 1 violence	0.073 < 0.001	0.071 < 0.001	0.075 <0.001
				Cocaine	-0.001 ns	-0.005 ns	0.007 ns
				Continued			
				<u>Continued</u>			

Appendix C1: Evidence Table 06: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome Study Characteristic Outcome (Violence) Findings

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings			
Author Year, Jnl	Group(s) Demographics Sample Size	Risk Factors Studied Inclusion/Exclusion Criteria	Definition and characterization.	Implications			
5704	T	<u> </u>	<u> </u>	Multivariate Regress	ion w/ Inhalant M	Indal 6.	
3704				Withtivariate Regressi	Time 2 violence	iouei o:	
Dornbusch				\mathbb{R}^2	Everyone 0.278	<u>Male</u> 0.240	Female 0.319
1999				<u>Factor</u>	Coeff. p-value	Coeff. p-value	Coeff. p-value
Intl J				Female gender Age	-0.014 <0.001 -0.002 <0.05	-0.001 ns	-0.003 < 0.001
Adolesc Medicine				Parent education Intact family structure	-0.002 <0.01 -0.009 <0.001	-0.003 <0.05 -0.012 <0.01	-0.001 ns -0.006 <0.01
and Health				African American	0.006 <0.1 0.010 <0.05	0.005 ns 0.015 <0.05	0.007 ns 0.003 ns
				Hispanic American Asian American	0.003 ns	0.009 ns	-0.002 ns
page 3 of 5				Time 1 violence Inhalant	0.071 <0.001 0.007 ns	0.069 <0.001 0.008 ns	0.075 <0.001 0.006 ns
				Multivariate Regression w/ Other Illicit Drugs-Model 7:			
					Time 2 violence		
				\mathbb{R}^2	Everyone 0.278	<u>Male</u> 0.239	Female 0.321
				<u>Factor</u> Female gender	<u>Coeff.</u> <u>p-value</u> -0.015 <0.001	Coeff. p-value	Coeff. p-value
				Age Parent education	-0.002 <0.01 -0.002 <0.01	-0.001 ns -0.003 <0.05	-0.003 <0.001 -0.001 ns
				Intact family structure	-0.009 < 0.001	-0.011 < 0.01	-0.006 < 0.01
				African American Hispanic American	0.007 <0.1 0.010 <0.01	0.006 ns 0.015 <0.05	0.008 <0.1 0.004 ns
				Asian American	0.003 ns	0.009 ns	-0.002 ns
				Time 1 violence Other illicit drugs	0.071 <0.001 0.004 ns	0.069 <0.001 0.004 ns	0.073 <0.001 0.005 <0.1
				Multivariate Regressi	ion w/ All Substar	nces-Model 8:	
					Time 2 violence		
				\mathbb{R}^2	Everyone 0.292	<u>Male</u> 0.263	<u>Female</u> 0.329
				<u>Factor</u> Female gender	<u>Coeff.</u> <u>p-value</u> -0.016 <0.001	Coeff. p-value	Coeff. p-value
				Age Parent education	-0.004 <0.001 -0.002 <0.01	-0.004 <0.01 -0.003 <0.01	-0.004 <0.001 -0.001 ns
				Intact family structure African American	-0.006 < 0.01	-0.008 < 0.05	-0.005 < 0.05
					0.013 < 0.001	0.015 < 0.01	0.011 < 0.05
				<u>Continued</u>			

Appendix C1: Evidence Table 06: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings	
Author	Group(s)	Risk Factors Studied	Definition and	Implications	
Year, Jnl	Demographics	Inclusion/Exclusion	characterization.		
	Sample Size	Criteria			
5704		1		Time 2 violence	
3704				Everyone Male	<u>Female</u>
Dornbusch				Factor Coeff. p-value Coeff. p	
Domousen				Hispanic American 0.013 <0.001 0.019 <	
1999				Asian American 0.008 ns 0.015 n	
1,,,,				Time 1 violence 0.066 <0.001 0.062 <	
Intl J				Cigarettes 0.004 < 0.001 0.007 <	
Adolesc				Alcohol 0.003 < 0.01 0.003 <	
Medicine				Marijuana 0.002 ns 0.002 n	
and Health				Cocaine -0.008 ns -0.014 n	
				Inhalant 0.005 ns 0.010 n	
				Other illicit drugs 0.000 ns -0.000 n	
page 4 of					
5				Mean level of Time 2 Violence by prevalence of sp	pecific drug use and of
				polydrug use:	
				Number of substances used	
				<u>0</u> <u>1</u> <u>2</u> <u>3</u>	<u>4 5 6 </u>
				Mean T2 Violence 0.054 0.090 0.124 0.201	0.214 0.243 0.550
				Ever used alcohol 0.093 0.120 0.201	0.216 0.246
				p-value* ns ns ns	ns ns
				Ever used cigarettes 0.084 0.116 0.200	0.213 0.236
				p-value* ns <0.01 ns	ns ns
				Ever used marijuana 0.168 0.190 0.201	0.214 0.245
				p-value* ns <0.01 ns	ns ns
				Ever used cocaine 0.000 0.180 0.288	0.246 0.258
				p-value* ns ns <0.1	ns ns
				Ever used inhalants 0.046 0.166 0.208	0.234 0.236
				p-value* <0.1 ns ns	ns ns
				Ever used other drugs p -value* 0.334 0.115 0.169 0.334 0.115 0.169	0.201 0.242
				p-value* <0.1 ns ns	ns ns
				*p-value for significance test comparing users of a d	rug with non users
				controlling for number of substances used	rug with hon-users,
				controlling for number of substances used	
				<u>Continued</u>	

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s)	Risk Factors Studied	Definition and	Implications
Year, Jnl	Demographics	Inclusion/Exclusion	characterization.	
	Sample Size	Criteria		
	•		<u> </u>	
5704				Mean level of Time 2 Violence by specific substance use and overall
				frequency of polydrug use:
Dornbusch				Frequency score of polydrug use
				0 1 2 3 4 to 5 6 to 7 8 to 18
1999				Mean T2 Violence 0.054 0.089 0.103 0.129 0.153 0.185 0.298
				Ever used alcohol 0.088 0.107 0.120 0.150 0.183 0.301
Intl J				p-value* ns ns ns ns ns <0.1
Adolesc				Ever used cigarettes 0.086 0.095 0.119 0.149 0.185 0.295
Medicine				p-value* ns ns <0.1 ns ns
and Health				Ever used marijuana 0.175 0.155 0.126 0.164 0.194 0.301
				p-value* ns <0.1 ns ns <0.05 ns
				Ever used cocaine 0.000 0.118 0.158 0.197 0.210 0.373
page 5 of				p-value* ns ns ns ns ns <0.05
5				Ever used inhalants 0.052 0.279 0.250 0.163 0.140 0.338
				p-value* ns <0.1 <0.05 ns <0.05 ns
				Ever used other drugs 0.180 0.204 0.227 0.086 0.170 0.293
				p-value* ns ns ns <0.05 ns ns
				P value in
				*p-value for significance test comparing users of a drug with non-users,
				controlling for frequency of polydrug use
				Mean level of Time 2 violence by gender and by prevalence and frequency
				of polydrug use:
				Mean level of T2 violence Mean level of T2 violence
				Number of Frequency score
				substances used Boys Girls of polydrug use Boys Girls
				$0 \qquad 0.07 \qquad 0.04 \qquad 0 \qquad 0.07 \qquad 0.04$
				1 0.12 0.06 1 0.13 0.05
				2 0.16 0.08 2 0.12 0.09
				3 0.28 0.12 3 0.17 0.08
				4 0.30 0.13 4 to 5 0.22 0.09
				5 0.31 0.17 6 to 7 0.23 0.14
				6 0.66 0.41 8 to 18 0.40 0.18
				Associated Adverse Health Outcome
				Not studied

Appendix C1: Evidence Table 07: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Definition Findings

Record #

Study Quality

Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria					
1572	Study Daviery	Ct. d. David (basin and)	0-4(-2-1)	77:-1			
1573	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome		. d. 7	
F11: 1	Prospective cohort study;	Baseline: 1985	Outcome measure	To demonstrate that smol			
Ellickson	secondary data analysis of	Assessment: 1990	predatory violence	other problem behaviors both concurrently or after five			
2001	RAND Adolescent Panel	Place (city, state):	relational violence	years.			
2001	Study.	California and Oregon	<u>Definition</u>				(31033)
		Study Setting: Schools	Predatory violence: Gang fighting,	Weighted percentages (
J Adoles-	Study Quality Score:	Study Population:	using force to get money or things	Experimenters (EXP) a	nd Smok	ers (SMI	K) with Violent
cent	Poor (retention rate <80%)	Grade 7 students recruited from	from others, carrying a hidden	Behaviors at Grade 12			
Health		30 schools	weapon other than a pocket knife,				
	Sample size:	Inclusion criteria:	disorderly conduct, or attacking	Total			
	6527 reduced to 4327 (66%)	Participate in RAND	someone with the intent to		NON	EXP	SMK
	after exclusions from 30	Adolescent Panel Study	seriously harm or kill. Relational		(2230)		(775)
	schools at Grade 7 and	Exclusion criteria:	violence (hitting or threatening to	% Predatory violence	16.1	26.4	35.4
	assessed at Grade 12.	Dropped out of study, lost to	hit family or non family)	% Relational violence	42.5	57.8	60.1
	Nonsmoker (NON): 2230	follow-up failed to complete					
	Experimental (EXP): 1322	grade 12 survey, missing	Type: see definition	Male			
	Smoker (SMK): 775	smoking information grade 7	Circumstance/Situational Context		NON	EXP	SMK
		Main independent factor(s):	9-predatory violence including 4		(994)	(703)	(301)
	Description of cohort(s) by	 Smoking status 	gang fighting, 5 robbery, 3 assault,	% Predatory violence	24.7	36.4	51.7
	age, gender, &	Other risk factors:	7 relational violence	% Relational violence	52.9	64.9	69.6
	race/ethnicity	Academic problems:	Proactive/Reactive, Weapon used.				
	-	• Skipped or been sent out of	Victim-offender relationship:	Female			
	Age	school	Not specified		NON	EXP	SMK
	Grade 7 to 12	 Missed 5 + days over last 	1		(1236)	(619)	(474)
		year	Adverse Health Outcome:	% Predatory violence	7.6	11.9	21.2
	Gender: 48% female	 Earned grades C or less 	Not studied	% Relational violence	32.4	47.5	51.8
	52% male	 Repeated grade 					
	male female	Substance Use:	Are mechanisms of violence	All are significant at p<	0.05.		
	NON 994 1236	 Weekly marijuana use 	theorized?				
	EXP 703 619	• •	Yes	[Multivariate analysis fin	dings not	usable b	ecause it did not
	SMK 301 474	Weeking alreador ase	Problem Behavior Theory	separate predatory and re			
		Binge drinking		problem behavior.]			
	Race	• Hard drug use ever		,			
1	African American 10.2%	Other Problem Behavior:					
1	Hispanic: 9.8 %	• Stealing					
	Asian: 8.2 %	<u>Instruments Used</u> :					
1	White: 68%	Investigator-developed					
	Other: 4.2%						
1							
1							
1	•		1	1			

Appendix C1: Evidence Table 08: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

| Study Characteristic | Outcome (Violence) Definition | Findings |

Record #

Study Quality

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year,Jnl	Sample Size	Inclusion/Exclusion Criteria		
9629 Ellickson 2003 Pediatrics	Sample Size Study Design: Prospective cohort study (Rand Adolescent Panel Study - 30 California and Oregon schools) Study Quality Score: Poor (Attrition rate > 20%)	Inclusion/Exclusion Criteria Study Period (begin, end): 1985-1995 Place (city, state): California and Oregon Study Setting: schools Study Population: All 7 th grade students at 30 study schools who completed a survey Inclusion criteria: see above Exclusion criteria:	Outcome (violence): Outcome measure Predatory violence, Relational violence Definition • Predatory violence: gang fighting, using force to get money or things from others, carrying a hidden weapon, attacking	Violence Outcome To study the association between early adolescent drinking status (at grade 7) and later problem behavior such as violence (at grade 12). Problem Behavior At Grade 12 Predatory Relational Violence Violence Drinking status n Weighted % Weighted % Nondrinkers 1059 17.4 a 43.9 a Experimenters 1964 21.7 b 51.1 b
	Sample size: Final sampe used: Grade 7: 6338 Grade 12: 4265 (67%) Nondrinkers: 1059 Experimenters: 1964 Drinkers: 1242 Age: Baseline: grade 7 Violence outcome measured at grade 12 Gender: 48% female at baseline Race: Unspecified (32% self-classified as minority at baseline)	 Missing drinking information at grade 7 Dropped out of the study at grade 12 or age 23 Lost to follow up Failed to complete the survey Main independent factor(s): Drinking status at grade 7 Nondrinkers (never had a drink of alcohol, not even a few sips), experimenters (drank alcohol <3 times in the past year and not in the past month), and drinkers (drank alcohol 3 or more times in the past year or drank alcohol in the past month) Instruments Used: Investigator-developed Covariates Measured at baseline (grade 7): Demographic variables Substance use Academic problems Problem behaviors (stealing) 	someone with the intent to seriously harm or kill Relational violence = hitting or threatening family or nonfamily Type: See definition Circumstance/Situational Context; Proactive/Reactive; Weapon used; Victim-offender relationship: Unspecified Adverse Health Outcome: Not studied Are mechanisms of violence theorized? No	Experimenters 1964 21.7 b 51.1 b 55.7 v 30.8 v 60.05.

Appendix C1: Evidence Table 09: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings	
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications	
	Sample Size	Inclusion/Exclusion Criteria	and characterization.	Implications	
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria			
5894	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome	
3094	Prospective Comparative	T1- 10 th grade students in the	Outcome (violence): Outcome measure	Evening the internal of	tionship between stressful life
Felson	Cohort Study	fall	Physical violence	events, negative affect,	
reison	Study Quality Score:	T2- same students 18 months	Definition	events, negative affect,	and aggression.
1992	Good if only retention rate	later in the spring of their junior	An 8-time scale measure including:	Zero Order Correlation	as Moons and SD
1992	is considered (85%)	vear.	 Threatened or hurt someone 	Zero Order Correlation	Time 2 Variable
The	Poor if retention rate and %	Year not specified		Time 1 Variable	Physical Aggression
Socio-	used in analysis are	Teal not specified	Hit their parents or teachers	Anxiety	.08
logical	considered (69%)	Place (city, state):	Engaged in gang fights	Tension	.09
Quarterly	Collisidered (03%)	Not reported	• Used weapons	Somatic Symptoms	.20
Quarterry	Sample size:	(The Youth in Transition	Type: See above	Depression	.12
	Wave 1: N = 2213	project was started by	Circumstance/Situational Context,	Anger	.20
	Wave 1: N = 2213 Wave 2: N = 1883 (85%)	University of Michigan, in	Not reported	Verbal Aggression	.27
	Analysis: N=1519 (69%)	1966.)	Proactive/Reactive	Physical Aggression	.39
	(Information obtained from	1900.)	This study is looking to correlate	School Deviance	.26
	#5303)	Study Setting: School.	that frustration and stress increases	Theft/ Vandalism	.22
	#3303)	Study Setting. School.	the likelihood of aggression	There validarism	.22
	Sample size:	Study Population	Weapon used	Mean	123.8
	1886 (sample taken from the	10 th grade boys	Included in definition but not in	SD	44.7
	Youth in Transition project-	10 grade boys	analysis	30	44.7
	Bachman, 1970)	Inclusion criteria:	<u>Victim-offender relationship</u>	Standardized Coefficien	nts Representing Effects of
	Bacillian, 1970)	Not reported	Not reported	Distress and Anger (T1	
	Description of cohort(s) by	Exclusion criteria:		controlling for behavior	
	age, gender, &	Not reported	Adverse Health Outcome:	controlling for behavior	(11)
	race/ethnicity	1 tot reported	Not reported		Dependent Variable
	<u>race/ethinerty</u>	Main independent factor(s):			Physical Aggression
	Age: 10th grade students at	Anxiety (7-item scale)	Are mechanisms of violence	Anxiety	.04
	baseline	• Tension (5-item scale)	theorized?	Tension	.06*
	Cascinic	` ,	Yes	Symptoms	.11*
	Gender: all male	Depression (6-item scale) Constitution (18)	If yes, state the theory:	Depression	.04*
	Gender, an male	• Somatic symptoms (18-	Aversive events in general lead to	Anger	.10*
	Race- Not reported	item scale)	aggression because they produce	1111501	.10
	riot reported	• Anger (7-item scale)	negative affect. This emphasizes	* p<.05	
			subjective states rather than	P <.05	
		Instruments Used:	external events as determinants of	Anger predicts chan	ge in aggressive behavior over
		Youth in Transition	aggression.	time.	ge in aggressive behavior over
		questionnaire: Cronbach's		unic.	
		alphas for the 5 independent			
		measures are 0.76, 0.51, 0.83,			
	1	0.58, 0.63 respectively.			

Appendix C1: Evidence Table 10: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome
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Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings	
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications	
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	and characterization.	Implications	
1 cai, 3 iii	Sample Size	Inclusion/Exclusion Criteria	<u> </u>	<u> </u>	
634	Study Design:	Study Period (begin, end):	Outcome (violence):	The purpose of this study is to exa	mine predictors of
	Prospective Cohort Study	Baseline: Oct 1994;	Outcome measure	adolescent dating violence from se	
Foshee	(Safe Date Program)	Program activities: Nov 94	Dating violence perpetration	an ecological perspective.	guided by
	(Sure Build Fragram)	- Mar 1995;	Zumg violence perpenanon	an occorogram perspective.	
2001	Study Quality Score:	Follow-up: 1 year after	<u>Definition</u>	Domain-Specific Models for Idea	
	Fair (if 90% retention rate is	program activities	Violence was defined on a three-	Predictors of Dating Violence Pe	erpetration
Preventive	used. Evidence of validity	Place (city, state):	level ordinal variable on ever done		_
Medicine	check of instrument for	Johnston County, North	the following:		Females Males
	measuring risk factors and	Carolina	• Severe (2): Choked, burned		OR+ OR+
Page 1 of	outcomes not provided):	Study Setting:	them, hit with a fist or		
2	_	14 public schools	something hard, beat, assault	Peer environment	(n=514) (n=415)
		Study Population:	with knife or gun	Friends who are victims	1.65* 0.75
	Sample size:	8 th and 9 th grade students	• Mild (1): Slapped, scratched,	Friends who are perpetrators	1.28 3.27**
	Eligible: 2,434	Inclusion criteria:	bent back their fingers, bit,	Family Environment	(n=504) (n=435)
	Consented: 2,045 (84%)	Those who completed baseline	pushed, grabbed or shoved,	Family Structure	1.14 0.69
	Baseline: 1,965 (96%)	and follow-up, who reported at	dumped out of a car, threw	Supervision by Mom	0.79 0.72*
	1 year followup: 1759	follow-up that they had begun	object at, forced sex, forced	Being hit by Mom	0.92 0.78
	(90%)	dating, who lived with a	doing unwanted sexual things.	Being hit by an adult	1.16 1.10
		mother, and who reported at	• none	Seen a parent hit a parent	1.04 1.15
	1,013 subjects who met	baseline that they had never	- Hone	Social Norms	(n=523) (n=452)
	eligibility;	been a perpetrator of dating	Type: Dating violence	Acceptance of prescribed norms	1.48 1.92*
	931 subjects in multivariate	violence.	Circumstance/Situational Context	Negative sanctions	0.83 1.12
	analysis: 529 female;	violence.	On a date	Perceived normalcy	1.00 1.44*
	402 male	Exclusion criteria:	Proactive/Reactive: Proactive	Gender Stereotyping	1.02 1.30
		Not specified	Weapon used: Not specified	Personal competencies	(n=526) (n=443)
	Description of cohort(s) by	Main independent factor(s):	Victim-offender relationship	Self-esteem	0.96 0.95
	age, gender, &	Social-environmental:	a person that the respondent dated	Destructive responses to anger	1.05 1.60*
	race/ethnicity	Peer environment	Adverse Health Outcome:	Poor communication skills	1.33 0.93
			Not specified	Depressed affect	1.21 0.98
	Age: 8 th or 8 th graders		Are mechanisms of violence	Other problem behavior	(n=536) (n=460)
	Gender: 51.4% female		theorized?	Physical fight with same gender	1.36 1.23
	Race: 77.3% white	Individual	Ecologic perspective with 6	Brought weapon to school	0.72 1.61
		Personal competency	domains as opposed to the more	Alcohol use	1.20 1.08
		Involvement in other	typical approach of examining only	Demographic characteristics	(n=514) (n=450)
		problem behaviors	individual level predictors.	Age	1.10 1.13
		Demographic	marviduar iever predictors.	Race	0.59* 0.47**
		characteristics		Mom education	1.00 0.95
				+ Adjusted for other variables in the	
		Instruments used: Investigator-developed.		* significant at p=05; ** significan	
				<u>Continued</u>	
	l .	l .	I	l	

Appendix C1: Evidence Table 10: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings				
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications				
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria						
	Γ			1				
634							-	
Foshee				Final Cumulative Model Predictors of Dating Vio				dinal
				Females (n=529)				
2001					b	SE	OR+	р
Preventive								
Medicine				Intercept 1	-2.72	.35	0.00	.000
				Intercept 2	-1.11	.31	0.00	.000
Page 2 of				Friends who are victims	.50	.24	1.65	.035
2				Alcohol use	.17	.09	1.19	.046
				Race	60	.25	.56	.017
				Final Cumulative Model				dinal
				Predictors of Dating Vio	lence P	erpetrat	ion	
				Males (n=402)				
					b	SE	OR+	<u>p</u>
				Intercept 1	-2.44	.83	.00	.003
				Intercept 2	-1.29	.82	.00	.112
				Friends who are				
				Perpetrators	.56	.41	1.75	.171
				Supervision by mom	12	.18	.89	.494
				Acceptance of prescribed				
				Norms	.57	.29	1.77	.053
				Perceived normalcy	33	.19	1.39	.075
				Destructive responses to				
				anger	03	.22	.97	.894
				Brought weapon to schoo	1 .33	.32	1.40	.281
				Race	44	.33	.65	.182
				+ Adjusted for all variable	ac in the	model		
				Aujusted for all variable	o m uic	model.		

Appendix C1: Evidence Table 11: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Definition Findings

Record #

Study Quality

κετοι α π	Study Quanty	Study Characteristic	Outcome (violence) Definition	
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria		
6213	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
	Prospective cohort study	Not specified.	Outcome measure	The primary objective of this study was to assess the
Halpern		5 semiannual interviews	• self reported fighting:	influence of pubertal increases of testosterone on aggressive
1	Study Quality Score:	followed by a sixth	a) fights; b) fights non-family at 6-	behavior of adolescent males.
1993	Poor (only 50-60% of	questionnaire 1 year later	month or 1-year follow-up.	
	subjects were used in	(about 3 years in duration)	Provoked aggression scale	Mean (SD) of Aggression Measures by Rounds
Social	analysis.)	Place (city, state):	score at the last followup.	
Biology		Southeastern state	Aggression scale scores from	T Pubertal Fights Fights
	Sample size:	Study Setting: interviews at	the Adjective Checklist and	(ng/dl) Development. Non-Family
	Initial: 127 (≈ 50% of	subject's home	the Personality Research Form	Round* (n=64) (n=81) (n=78) (n=73)
	eligible)		Definition:	
	Analysis: 64-81 (50-64%)	Study Population:	<u>Deminion.</u>	1 157(122) -0.83(0.98) 2.08(1.26) 1.65(1.30)
	7 marysis. 04 01 (30 0470)	7 th and 8 th grade white males	Instrument used to measure	1 157(122) 0.05(0.50) 2.00(1.20) 1.05(1.50)
	Description of cohort(s) by	age 12 and 13 in school district	outcome	2 242(165) -0.12(0.87) 2.24(1.35) 0.97(1.22)
	age, gender, &	Inclusion criteria:	·	2 212(103) 0.12(0.07) 2.21(1.33) 0.57(1.22)
	race/ethnicity	inclusion criteria.	Self-report on questionnaire, items taken from the	3 294(154) 0.17(0.82) 2.06(1.18) 0.89(1.24)
	race, enimerty	Exclusion criteria:		2) 1(121) 0.17(0.02) 2.00(1.10) 0.05(1.21)
	Age: 12-13 year old at entry	Parental consent not given	Interpersonal Competence	4 339(191) 0.41(0.80) 2.14(1.32) 0.97(1.31)
	Age. 12-13 year old at entry	Tarentar consent not given	Scale-S (Cairns et al., 1989)	337(171) 0.41(0.00) 2.14(1.32) 0.77(1.31)
	Gender: All males	Main independent factor(s):	Personality Research Form,	5 369(179) 0.65(0.83) 2.12(1.16) 0.87(1.30)
	Gender. An maies	Testosterone levels	Form E	305(175) 0.03(0.03) 2.12(1.10) 0.07(1.30)
	Race: White	Testosterone revers	Adjective Checklist	6 433(187) 0.99(0.65) 2.01(1.11) 1.08(1.39)
	Race. White	<u>Covariates</u>	Interpersonal Competence	2.01(1.11) 1.00(1.57)
		None mentioned.	Scale-S	
		Tyone mentioned.	Olweus Multifaceted	*Round 1 ratings reflect frequency in past year. Rounds 2-
		Instrument used to measure	Aggression Inventory (OMAI)	6 reflect frequency in past 6 months.
		factors:	Scales	o refrect frequency in past o months.
		Self-reported questionnaire		Repeated measure ANOVA for change scores, 6-month
			Type: physical fighting	change periods, lagged by 6 months showed no significance
		Physical exam (Tanner	Circumstance/Situational Context	difference for testosterone change, time, and pubertal
		stage)	Proactive/Reactive	change as well as the interactions between time and
			Weapon used	testosterone and pubertal change.
			<u>Victim-offender relationship:</u> see	testosterone and pubertal change.
			above	
			Adverse Health Outcome:	
			Not studied	
			Are mechanisms of violence	
			theorized?	
			No	

Appendix C1: Evidence Table 12: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record # Author	Study Quality Group(s) Demographics	Study Characteristic Risk Factors Studied	Outcome (Violence) Definition and	Findings Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.	Implications			
		Includion Discussion Office in		l.			
2658	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective comparative	Time 1: 1976-1977	Outcome measure	To examine the relation	ship betwe	een prescho	ool
Herrenkohl	cohort study (16-year study)	Time 2: 1990-1992	An Adolescent assaultive	parenting-based variabl			
		Place (city, state):	behavior score based on 7 items	adolescence			
1997	Study Quality Score:	Bethlehem, Pennsylvania	rated for frequency on a 9-point				
	• Retention rate unknown.	Study Setting:	scale. Range: 0-35; mean 3.83.	Zero-order correlation	nal relatio	nship (R)	between
Am J	• % in analysis: 66%-69%.	Time 1: Observations of parent-	<u>Definition</u>	preschool parenting, S	ES, Age,	and Sex ar	ıd
Ortho-		child interactions in home	Being involved in a gang	adolescent assaultive behavior:			
psychiatry	Sample size:	Time 2: Unspecified	fight	Risk Factor	<u>R</u>	<u>p</u>	<u>N</u>
	Total initial sample: n=457	Study Population:	Hitting parents, people at	SES	- 0.23	p≤0.001	
	children from 297 families.	Preschool maltreated and non-	work, or others	Age	+0.14	p≤0.01	418
	Final sample:	maltreated children recruited from	Hitting with the idea of	Sex	- 0.27	p≤0.001	418
	Parent-child interaction:	5 sources:	seriously injuring or killing	Maternal discipline		Ι	
	n=317 (69%);	Child welfare abuse programs	Having sexual relations	Emotional	+0.04	ns	418
	Adolescent sexual abuse:	Protective service programs	with someone against his	Physical	+0.22	p≤0.001	418
	n=303 (66%)	Head-Start classrooms	or her will	Mother interaction		Ι	
		Day-care programs	Using force or strong-arm	Positive	+0.18	p≤0.01	317
		Private nursery programs	methods to get money or	Negative	+0.27	p≤0.001	317
	Description of cohort(s) by	Inclusion criteria:	things from people	Neglect	+0.16	p≤0.05	317
	age, gender, & race/ethnicity	Children from one of the above	Instrument(s) Used	Tiograph	10.10	P=0.05	517
		from a family with at least one	Items were taken from the	Regression Coefficient	s (B) from	Multinle	
	Age:	preschool child between the ages	Elliott et. Al. (1987) national	Regression Analysis (r		Linumpie	
	Time 1: Range 18 mos – 6 yrs	of 18 months and 6 years	survey instrument.	220510001211111119005 (1			
	Time 2: Range 14 – 22 yrs	Exclusion criteria: Unspecified	Type	Variable	<u>B</u>	SE(B)	f
	(90% between 14 – 20 yrs)		Aggravated assault, non-	Age	+0.20		1.37
		1	1	1 - 5 -	. 0.20	3.15	2.07

Gender: Main independent factor(s): Severity of the following do:

Severity of the following domains based on mean weighted mean scores of items during the past 3 months at interview: [see finding list]

Race:

Initial sample:

Initial sample:

White 83% Spanish surname 12% African American 5%

Female n=209 (45.7%)

n=248 (54.3%)

• Mother's physical and emotional discipline

- Evidence of neglect
- Occurrence of sexual abuse
- Quality of mother-child interactions

Covariates

- Age
- Sex
- SES

Aggravated assault, nonaggravated assault, gang fight, robbery, physical aggression, rape/sexual assault Circumstance/Situational Context, Proactive/Reactive Weapon used Victim-offender relationship Unspecified

Adverse Health Outcome:

None

<u>Are mechanisms of violence theorized?</u>

No

<u>Variable</u> Age	<u>β</u> +0.20	<u>SE(β)</u> 0.15	<u>t</u> 1.37
Sex	- 2.44	0.43	-5.67****
SES	- 0.13	0.79	-1.67
Maternal discipline			
Physical	+0.43	0.15	2.89**
Emotional	- 0.64	0.15	<1
Neglect	+0.06	0.12	<1
Mother interaction			
Negative	+0.16	0.07	2.31*
Positive	+0.02	0.06	<1

*p<0.05; **p<0.01; ****p<0.0001.

In a sub-sample of 235, sexual abuse was the significant risk factor (p<=0.05), replacing that of negative mother interaction.

Appendix C1: Evidence Table 13: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

D 1.11			ractors Contributing to Violent Den		Outcom		
Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings			
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion					
		Criteria					
2660	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective Comparative	Baseline: 1985	Violence at age 18	To replicate earlier resear	ch finding	s and to ex	plore the effects of
Herrenkohl	Cohort Study (Seattle	Follow-up: annually though	Definition	risk factors on violent beh		,	1
	Social Development	1991 and at age 18 in 1993	Acts involving serious harm or			ted Odds R	tatios (OR)
2000	Project (SSDP)	1991 and at age 10 in 1995	threats of harm to other persons in	Age risk factor measured			16 (720)
2000	Troject (BBD1)	Place (city, state):	the past year. Measured with a	Risk Factor)R
J Adoles-	Study Quality Sagra	Seattle, Washington	single dichotomous variable.	Individual	OK	OK C	ж
	Study Quality Score:	Seattle, washington	_		2 21 444	2 21 444	0.21***
cent Health	Good		Type	Male gender		2.31***	2.31***
		Study Setting:	Hit a teacher	Hyperactive-teacher	2.17***	1.98**	nd
Page 1 of 2	Sample size:	Looked at various domains	Picked a fight*	Hyperactive-parent	1.67	2.11***	1.96**
	Eligible: 1053	of individual, family,	Hit someone with intent of	Risk Taking	nd	3.18***	3.50***
	Participation: 808 (77%)	school, peer, and	hurting him or her*	Drug Selling	nd	3.34***	4.55***
	Retention:	community.	Threatened someone with a	Early Violence (12-13)	nd	3.71***	nd
	Age 14: 96%		weapon	Pro-Violence attitude	nd	2.09**	nd
	Age 16: 95%	Study Population:	Used force or threats of force	Family			
	Age 18: 94%	5 th grade cohort from public	to get things from others	Parental Violemce	nd	1.84*	1.35
	Analysis:	elementary schools serving		Parent Criminal	nd	2.16**	2.03**
	Age 14: 715 (88%)	high crime areas.	Beat someone so badly he or	Poor family Mgmt	1.29	2.11***	2.63***
	Age 16: 720 (89%)	ingii orinic areas.	she required medical attention.	Family conflict	1.05	1.61*	2.16***
	11ge 10. 720 (05/0)	Inclusion criteria:	*3 or more acts each required	Parent favored violence	2.32**	nd	nd
		See above	before a youth was identified as	Residential mobility	nd	1.32	2.69***
	A	See above	having committed a violent act	School	IIu	1.32	2.09
	Age:	Estados division	with these indicators		1 <i>(5</i> \)	2 5 6 4 4 4	0.71***
	Baseline: Median 10.7	Exclusion criteria:	<u>Instrument(s) Used,</u>	Low Acad Performance	1.65*	2.56***	2.71***
	Follow-up: at 14, 16, 18	Lack of consent	<u>Circumstance/Situational Context;</u>	Low School Commitment	1.10	1.87**	1.80**
			Proactive/Reactive; Weapon used;	Low education aspiration		1.86**	1.60*
	<u>Gender</u> :	Risk factors studied:	Victim-offender relationship	School transitions	nd	1.82**	2.97***
	396 (49%) female	Factors in 5 domains [see	Not specified	Antisocial behavior	2.66***	2.46***	nd
		Findings column for list]:	Adverse Health Outcome:	Peer			
	Race:	Individual	Not reported	Sibling Delinquency	1.79	1.40	2.26***
	Caucasian: 372 (46%)	Family	Are mechanisms of violence	Peer Delinquency.	2.25***	2.82***	3.95***
	African Am: 195 (24%)	• School	theorized?	Gang Membership	nd	3.39***	4.58***
	Asian Am: 170 (21%)	• Peer	Yes. Demonstrates the	Community			
	Other 72 (9%)	• Community		Economic deprivation	1.61*	1.33	1.51*
		Community	significance of non-familial social	Community disorganization		2.19***	
		In strange and a III and	influences on violent behavior	Low nghbrhd attachment		1.00	1.69*
		Instruments Used:	during adolescence. There is a	Available drugs	1.77**	2.63***	
		A combination of Youth	dynamic influence of risk factors	Adults involved in crime			3.90***
		Interview, school records,	during different developmental	Law enforcement			1.38
		and Teacher/Child Behavior	periods.	Law emorcement	nd	1.11	1.30
		Checklist.		\$	31 1		
				*.p<05 **p<.01 ***p<.00	Ji nd= no	ot measure	a.
				<u>Continued</u>			

Appendix C1: Evidence Table 13: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record # Author Year, Jnl Study Quality Group(s) Demographics Sample Size Study Characteristic Risk Factors Studied Inclusion/Exclusion Criteria Outcome (Violence) Definition and characterization. Implications Implications	
Year, Jnl Sample Size Inclusion/Exclusion Criteria 2660 Additive risk for violence at age 18 years express ratios (odds for violence based on comparison to category) 2000 Number of Age 10 Age 14	
Criteria Additive risk for violence at age 18 years express ratios (odds for violence based on comparison to category) Number of Age 10 Age 14	
Additive risk for violence at age 18 years express ratios (odds for violence based on comparison to category) Number of Age 10 Age 14	
Herrenkohl 2000 ratios (odds for violence based on comparison to category) Number of Age 10 Age 14	
ratios (odds for violence based on comparison to category) 2000 Number of Age 10 Age 14	
Herrenkohl category) 2000 Number of Age 10 Age 14	very low-risk
2000 Number of Age 10 Age 14	
	<u>Age 16</u>
	$\frac{\text{Ngc To}}{\text{OR (n)}}$
J Adoles- 0-1 1.0 (268) 1.0 (239)	1.0 (240)
cent Health 2-3 3.0 (328) 2.0 (206)	1.8 (206)
4-5 6.1 (169) 5.9 (149)	4.1 (139)
Page 2 of 2 >5 10.2 (43) 7.2 (214)	10.9 (223)

Appendix C1: Evidence Table 14: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record # Author Year, Jnl	Study Quality Group(s) Demographics Sample Size	Study Characteristic Risk Factors Studied Inclusion/Exclusion Criteria	Outcome (Violence) Definition and characterization.	Findings Implications

		Cittia
6306	Study Design:	Study Period (begin, end):
	Prospective cohort study	T1: 1985
Herrenkohl	(3 waves of data from the	T2: 1989
	Seattle Social	T3: 1993
2001	Development Project	Place (city, state):
	(SSDP))	Seattle, WA
J Early	(~~= - //	Study Setting:
Adolescence	Study Quality Score:	school
1100100001100	Good	Study Population:
		5 th grade students from 18
	Sample size at assessment	Seattle public elementary
	time points:	schools
Page 1 of 2	Study population: 1053	Inclusion criteria:
rage rorz	Consented participants:	Consented to participate
	T1 (age 10): 808	Exclusion criteria:
	T2 (age 14): 776 (96%)	Not specified
	T3 (age 18): 760 (94%)	Main independent factor(s):
	Analysis: 808 (using	<u>Main independent factor(s).</u>
	missing data techniques)	Management of 10 years
	missing data techniques)	Measured at 10 yrs:
	Description of achort(s)	• male gender,
	Description of cohort(s)	• teacher-rated
	by age, gender, &	hyperactivity/low attention,
	race/ethnicity	• teacher-rated antisocial
	A 2 4	behavior,
	Ages at 3 time points:	• perceived parental attitudes
	T1 10 yrs	favorable toward violence,
	T2 14 yrs	• low academic performance,
	T3 18 yrs	• involvement with antisocial
	G 1 (T)	peers,
	Gender at T1	• low family income,
	51% male	• availability of drugs in the
	49% female	neighborhood,
	70	• low neighborhood
	Race at T1	attachment
	European american	Measured at 14 yrs:
	372 (46%)	• family domain (low
	African american	bonding to parents, poor
	195 (24%)	family management, family
	Asian american	conflict);
	170 (21%)	commet),
	Other	(continued)
	72 (9%)	(commuea)

Outcome (violence): Outcome measure

Violent behavior at age 18 Definition

- Hit a teacher,
- picked a fight,
- hit someone with intent of hurting him/her,
- threatened someone with weapon,
- used force or threats of force to get things from others,
- beat someone so badly he/she required medical attention.
- hit a parent Instrument(s) Used:
- Annual assessment through 1991 and at age 18 in 1993.
- Teachers' annual assessment through 1989Official school records
- <u>Type:</u> See definition <u>Circumstance/Situational</u> Context;

Proactive/Reactive;

Weapon used;

Victim-offender

<u>relationship</u>

Not specified except by definition

Adverse Health Outcome:

Not addressed

Are mechanisms of violence theorized?

1. To estimate effect of early risk factors on violent behavior at age 18, as well as estimate risk factor's direct and indirect effect on violence, having controlled for predictors in each and all of the three domains at 14 yrs of age

Regression coefficients (and SE) reflecting total, direct, and indirect effects of childhood risks on violent behavior at age 18

Di	rect Effects	of Violen	ce Controll	ing for: (S	<u>E)</u>
Risk	Total	Family	School	Peer	All
Male	$.73(.18)^{c}$.76(.18) ^c	.70(.18) ^c	.68(.18) ^c	.67(.19)°
Hyperactivity/L	ow attentio	n			
	.83(.21) ^c	.79(.22)°	$.60(.22)^{b}$	$.73(.23)^{b}$	$.58(.23)^{b}$
Antisocial behav					
	.85(.27) ^c	.77(.20) ^c	.66(.21) b	.67(.21)°	$.56(.21)^{b}$
Parental Attitude					
	.84(.27) ^c	.74(.27) b	$.70(.28)^{b}$	$.72(.28)^{b}$.59(.29) a
Low academic F					
	.48(.19) b	.51(.19) ^b	.27(.20)	.42(.19) a	.31(.21)
Involvement wit	h Antisocia	al peers			
	$.83(.21)^{c}$.77(.21)°	$.72(.22)^{b}$.66(.22) b	.61(.23) b
Low family inco					
	$.45(.20)^{b}$.42(.21) a	.35(.21)	.37(.20)	.33(.21)
Availability of d					
	$.56(.20)^{b}$.43(.21) ^a	.44(.21) a	.41(.21)	.31(.23)
Low neighborho					
	.45(.19) a	$.42(.20)^{a}$.45 (.20) a	.44(.20) a	.43(.21) a
^a p<.05 ^b p<.01	° p<.00	1			
Notes:					

Notes:

- 1. Total effect is the bivariate estimate of each childhood risk factor with the violence outcome measure.
- 2. Direct effect is the effect of each childhood risk factor's total effect mediated by each domain at 14 years of age (expressed as a change in the regression coefficient and as a percentage of the risk factor's total effect involved in that change.

(continued)

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion	characterization.	
		Criteria		
		<u>, </u>		_
6306		• school domain(low		Indirect Effects of Age 10 Predictors Through: (%)
		academic performance, low		Risk Family School Peer All
Herrenkohl		school commitment, low		Male .00 (0) .03 (4) .05 (7) .06 (8)
		educational Aspirations);		Hyperactivity/low attention
2001				.04 (5) .23 (28) .10 (12) .25 (30)
		• peer domain (involvement		Antisocial behavior
J Early		with antisocial peers, gang		.08 (9) .19 (22) .18 (21) .29 (34)
Adolescence		membership)		Parental Attitudes Favorable toward Violence
		memeersmp)		.10 (12) .14 (17) .12 (14) .25 (30)
Page 2 of 2		Instrument(s) Used:		Low academic Performance
		A combination of Youth		.00 (0) .21 (44) .06 (13) .18 (38)
		Interview, school records,		Involvement with Antisocial peers
		and Teach/Child Behavior		.06 (7) .11 (13) .17 (21) .22 (27)
		Checklist.		Low family income
		Checkist.		.03 (7) .10 (22) .08 (18) .12 (27)
				Availability of drugs
				.13 (23) .12 (21) .15 (27) .25 (45)
				Low neighborhood Attachment
				.03 (7) .00 (0) .01 (2) .02 (4)
				Note: Larger indirect effects reflect stronger mediation.
				2. Added percentage of variance explained in violent behavior at
				18 for each domain at 14 beyond that for each childhood risk
				Variance ExplainedAdditional Variance Explained:
				Risk Childhood Family School Peer All
				Male 3.3 4.9 6.1 3.8 9.4
				Hyperactivity/Low attention
				3.7 4.4 4.7 3.4 8.2
				Antisocial behavior
				4.0 4.0 4.8 2.6 7.8
				Parental Attitudes Favorable toward Violence
				2.0 4.4 5.9 3.8 9.2
				Low academic Performance
				1.2 5.0 5.8 4.1 9.6
				Involvement with Antisocial peers
				3.7 4.3 5.5 2.9 8.4
				Low family income
				1.3 4.8 6.1 4.0 9.7
				Availability of drugs
				1.6 4.3 5.9 3.6 9.2
				Low neighborhood Attachment
	<u> </u>	L		1.0 4.8 6.6 4.4 10.2

Appendix C1: Evidence Table 15: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome
Study Quality Study Characteristic Outcome (Violence) Definition Findings

and characterization.

Implications

Record #

Group(s) Demographics

Risk Factors Studied

Author

Year, Jnl	Sample Size	Inclusion/Exclusion Criteria		
10990	Study Design:	Study Period (begin, end):	Outcome (violence):	Identify risk factors for violence and determine to what
	Prospective cohort study	1985 - 1993	Youth violence at age 18	extent does exposure to multiple protective factors decreases
Herrenkohl	(a subsample of the	Place (city, state):	<u>Definition</u>	probability of violence.
	Seattle Social	Seattle, Washington	Youth as committing any of the	Likelihood of violence at age 18
2003	Development Project	Study Setting:	following violent acts in the past	% Violence in
	cohort)	18 public elementary schools	year:	Factors at age 15 β SE OR Exposed Not Exp.
Social	Í	Study Population:	picked a fight	Community
Work	Study Quality Score:	Subsample of aggressive fifth	• hit someone with intent of	Prosocial Neighborhood opportunities
Research	Good	grade students defined as	hurting him or her	.03 .29 1.03 36 35
		those scored above 3 on their	• threatened someone with a	Neighborhood attachment
	Sample size:	childhood aggression measure.	weapon	63 .46 0.53 25 38
	Baseline: n=154	Inclusion criteria: Need	 used force or threats of force 	Religious service attendance
Page 1 of 2		consent	to get things from others	73 .40 0.47* 25 41
	At baseline:	Exclusion criteria: unspecified		Family
	Age: 10 yrs	Main independent factor(s):	beat someone so badly he or	Bonding to family
	<u>go</u> . 10 y15	•Childhood aggression at	she required medical	39 .52 0.68 28 37
	Gender: N %	age10	attention	Positive family involvement
	Boys 99 64	•Factors at age15 in the	• hit a parent	06 .39 0.94 34 35
	Boys 99 04	following domains (see results	Dichotomous variable (engaged	Good family management
	Race: N %	for individual factors)	or not engaged in violence)	-1.25 .50 0.29* 17 41
	European-Am 52 34	,	determined if:	School -1.25 .50 0.29 17 41
	African-Am 76 49	•Community	1) engaged in three or more	Bonding to school
	Afficali-Affi 70 49	● Family	incidents of picking a fight	99 .51 0.37* 20 40
	Other/mixed 26 17	•School	and hitting someone with	
	Other/mixed 26 17	•Peer	intent of hurting someone	Positive school involvement
		Prosocial beliefs	2) one or more acts of violence	07 .43 0.93 34 36
		 Neighborhood 	on the remaining indicators	High academic achievement
		disorganization	Instrument used: Annual	87 .70 0.42* 20 37
	NOTEG D : G, 1	Instrument used to measure	assessment and school records.	Peer
	NOTES: Design: Students	factors:	Type: see definition	Prosocial peer involvement
	followed for eight years	•Child Behavior Checklist	Other Characteristics:	08 .46 0.92 34 36
	from 1985 with annual	rated by teachers (10 items to	Not specified	Individual
	assessments through 1991	form composite measure of	Adverse Health Outcome:	Prosocial beliefs
	and a final assessment in	aggression)	Not addressed	86 .53 0.42 21 39
	1993 (age 18). Data used	•Self-report to measure	Are mechanisms of violence	Risk Factors
	in this study were at age	attachment to socialization	theorized? Yes	Neighborhood Disorganization
	10, 15 and 18.		Social Development model: risk	.88 .39 2.41* 48 28
		factors (peer, family, school, community and individual)	of antisocial behavior in	Antisocial peer opportunities
			adolescence be reduced when	.91 .36 2.48* 48 27
		Covariates	youths encounter prosocial	Antisocial peer involvement
		•Gender	influences in the community,	1.18 .37 3.25* 53 26
		•Race/ethnicity	families, schools and peer	*p<=.05
			networks.	<u>Continued</u>
			HOLWOIKS.	

Appendix C1: Evidence Table 15: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings				
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications				
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria						
10990		T	T					
10990					Prob	ability of	violence	at age 18**
Herrenkohl					1100	ability of	violence	at age 10
					Good	Family N	A anagem	ent at age 15
2003					Expo	sed	Unex	posed
				African American	11		49	
Social				European American	30		32	
Work								
Research					ъ.	1 '1'4 6		4 1044
					Prob	ability of	violence	at age 18**
Page 2 of 2					# Pro	tective fa	ctors	
				# Risk Factors	0	1	2	<u>3</u> 7
				0	30	20	12	
				1	41	29	19	18
				2	55	40	28	18
				3	67	53		
				**Estimated probability	from ho	r aranha		
				Estimated probability	i iioiii ba	i grapiis		
				Associated Adverse Ho	ealth Ou	tcome		
				None		<u> </u>		
				*Note: Multiple imputa				data,
				Socialization factors we	ere measu	red at ag	e 15.	

Appendix C1: Evidence Table 16: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria		
10991	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
	Prospective cohort study	1990-1997	1. violent delinquency	Aim was to test the relative influence of domestic
Herrera		Place (city, state):	2. violence against parents	violence and physical/sexual abuse during early
	Study Quality Score:	Mid-size city, Southwestern US	<u>Definition</u>	childhood on later violence among adolescent girls.
2003	Poor (retention rate 79%	Study Setting:	1. Self –reports, past year:	
		Place of interview not	Gotten in many fights	Correlations between violent outcomes and other study
Violence	Sample size:	specified. Recruited by public	Physically attacked people	variables:
and	141 Mother-daughter pairs	announcements.	Threatened to hurt someone	Violent Violence
Victims	(79%)	Study Population:	Threatened someone w/ weapon	Delinquency Against Parents
	(Original sample size= 179)	55 girls whose mother reported	Hurt someone badly	<u>Variable</u> r <u>r</u>
		being abused by partner.		Marital violence NS NS
	Description of cohort(s) by	86 comparison girls.	2.Self-reports, ever engaged in at	Physical abuse .21 .40
	age, gender, &		least one of the following (yes/no):	Sexual abuse .27 .36
	race/ethnicity	Inclusion criteria:	Thrown or hit something in anger	Runaway .33 .39
		Daughter lived with mother	Hit or pushed parent	Non-violent delinquency .49 .42
	Age: 9.1 years at baseline	over the past year.	Physically threatened parent	Note. Correlation between violent delinquency and
	14.9 yrs. at followup	Between ages 6-12.		violence against parents= .43.
	(range: 11-18)	Mother and daughter consent.	<u>Instrument used to measure</u>	
		Exclusion criteria:	outcome Investigator-developed	Simultaneous Regression of Violent Delinquency
	Gender: all females	Specified above.		Predictors B SE β
			The following are not specified:	Age 0.01 0.07 0.01
	Race	Main independent factor(s):	Type, Circumstance/Situational	Family income 0.00 0.00 -0.08
	56% Anglo European	(All measured at baseline)	Context, Proactive/Reactive,	Marital violence 0.29 0.27 0.09
	34% Hispanic/ Mexican	1.Marital violence	Weapon used	Physical abuse 0.46 0.29 0.14
	4% African American	2.Physical abuse on child		<u>Sexual abuse 0.84 0.29 0.25*</u>
	4% Native American	3.Child sexual abuse	<u>Victim-offender relationship</u>	Note. R-squared model= .10; F (5, 135) = 3.29, p= .0007.
	2% Asians, Pacific	T	#1 is violence on anyone.	*p<.001.
	Islanders, and unclassified	Instrument used to measure	#2 is violence on parents.	
	groups.	factors:		Simultaneous Regression of Violence Against Parents
		1. Modified Conflict Tactics	Adverse Health Outcome:	Predictors B χ^2 OR
		Scale (CTS) (Mother's report) 2. CTS "Escalated abuse"	(not abstractable)	Age 0.11 1.10 1.12
			Type: physical injury	Family income 0.00 0.04 1.00
		tactics. (Mother and child's report on paternal abuse, child's	<u>Definition:</u> hurting someone badly enough that victim needed	Marital violence 0.16 0.16 1.17
				Physical abuse 0.93 5.24 2.54*
		report of maternal abuse.) 3. No instrument used. Open-	bandages or a doctor.	Sexual abuse 0.53 1.59 1.70
		ended questions for mothers	A vo machanisms of violence	Note. χ^2 -model (5df)= .13.48, p= .01.
		and daughters.	Are mechanisms of violence theorized?	*p<.05.
		and daugnters.	No.	
		Covariates	INU.	

Covariates

family income, age

Appendix C1: Evidence Table 17: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome **Study Quality Study Characteristic Outcome (Violence) Definition** Findings

Record #

Record #	Study Quanty	Study Characteristic	Outcome (violence) Definition	rindings	
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications	
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria			
8540	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome	
00.0	Prospective cohort study	Baseline: 1985	Violent behavior at age 18 yrs	Factor correlation with violence at	а с е 18 (12)
Huang	(Seattle Social	Follow-ups: 1988, 1989, 1991,	Violent behavior at age 10 yis		R p-value
Truang	Development Project	and 1993	Definition		.23 <.001
2001					
2001	(SSDP))	Place (city, state):	• Picking a fight with someone,		.07 ns
		Seattle, WA	• hitting someone with the		.36 <.001
Criminology	Study Quality Score:	Study Setting:	intention of hurting,		.09 <.05
	Good	• 5th grade survey-group	• beating someone so badly that a		.39 <.001
		administered in school	doctor's help was needed, and	6. Skills for interaction -	.31 <.001
	Sample size:	• Follow-up individual interviews	• threatening someone with a gun	7. Prosocial rewards -	.19 <.001
	Study population: 1053	in person	ameutening someone with a gain	8. Antisocial rewards	.28 <.001
	Acceptance of	Study Population:	Type: See definition		.22 <.001
	participation: 808	5 th grade students enrolled in 18	Type. see definition		.17 <.001
	Analysis: 807		G: 1G 1		.31 <.001
	Anarysis.	Seattle elementary schools in	Circumstance/Situational Context;		.38 <.001
	A	1985	Proactive/Reactive; Weapon used	13. Violent behavior (age 13)	.36 <.001
	Age:	Inclusion criteria:	See definition	Carred De de Estimate	
	1985: 10	Student and parent consent to		Structural Path Estimates	001.1
	1988: 13	participate in study	<u>Victim-offender relationship:</u>		Path coefficient
	1989: 14	Exclusion criteria:	Not specified	1→12 .15*	
	1991: 16	Not specified	Adverse Health Outcome:	1→213** 2→4	.85***
	1993: 18	Main independent factor(s):	Not addressed	4→7	.76***
		• Early violent behavior at age 10			.40***
	<u>Gender</u>	and 13	Are mechanisms of violence		.53***
	Male 411	Prosocial and antisocial	theorized?	11→12 -	
	Female 396	opportunities	Yes		
		1.1	1		.80***
	Race	Prosocial and antisocial	If yes, state the theory:		.38***
	White 46%	involvement	The social development model	8→10	.24***
	Black 24%	Skills for interaction	(SDM) integrates key features of	10→11 -	.08*
		Prosocial and antisocial rewards	differential association, social	11→12 -	
	Asian-American 21%	Prosocial and antisocial bonding	learning, and social control		.40***
	Native American 6%	Belief in the moral order	theories to more fully describe		
	Other 3%	Instrument(s) Used: A	causal and mediating processes		.53***
		combination of Youth Interview,	hypothesized to predict behavior	11→12 -	
		school records, and Teach/Child	over the course of development		.24***
			(Catalano and Hawkins, 1996).	10→11 -	.08*
		Behavior Checklist.	The SDM hypothesizes parallel	11→12 -	.17***
			developmental processes leading to	10→12 .04	
		Covariates	prosocial and antisocial outcomes.	8→12 .16**	
		Gender	prosociai and antisociai outcomes.	0-712 .10	
		Ethnicity		4 .07 44 .01 444 001	
				*<.05; **<.01; ***<.001	
				[Second-order factor model findings	not reported here]
<u> </u>	1	1	1	1	

Appendix C1: Evidence Table 18: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria		
			<u></u>	
10619	Study Design:	Study Period (begin, end):	Outcome (violence):	(A) Zero-Order Correlation of Behavioral Variables at
	Prospective cohort study	Interviews initiated in 1994,	Fights in the last year at 3 year	Baseline Controlling for Demographic Variables for
Kaplan	(offspring of cohort of 7th	followup interview in 1997	follow-up	Total Sample
	graders from Houston	Place (city, state):	<u>Definition</u>	Correlation with Fights
2001	Independent School	Houston, Texas	Fist fights, gang fights and beating	Variable at Baseline Reported at 3 Year Follow-up
	Districts)	Study Setting:	up someone within the last year	Alcohol use .017 ns
Crimino-			<u>Instrument used to measure</u>	Marijuana use .017 ns
logy	Study Quality Score:	Study Population:	outcome: Investigator-developed	Illicit drug use .041 ns
	Poor (retention rate <80%)	Offspring of a study cohort who	<u>Type:</u> see definition	Carrying weapon .053 <.05
		had been followed since 7th	Circumstance/Situational Context	Fights .186 <.05
	Sample size:	grade from 18 of 36 junior high	Proactive/Reactive	
	Eligible: 6359	schools in 1971	Weapon used	(B) Structural Model of Standardized Effects of Early
	Baseline: 5887		Victim-offender relationship	Substance Use on Later Violence
	3 year follow-up: 2,222	Inclusion criteria:	Not specified	
	(38%)	consented to participate	Adverse Health Outcome:	<u>Pathway</u> <u>Coefficients</u>
		Exclusion criteria:	Substance use after violence. See	T1Substance use→T2Fights35 <.05
	Age:	None	(C) under Findings.	T1Violence*→T2Fights .82 <.05
	At time of initial interview:			Č
	Age %	Main independent factor(s):	Are mechanisms of violence	* included both weapon carrying and fights.
	12 22%	At baseline, use in past year:	theorized?	
	13-14 25%	• Alcohol use (score 0 to 15)	Yes	(C) Structural Model of Standardized Effects of
	15-16 21%	• Marijuana use (0 to 5)	The theoretical model	Violence on Concurrent and Later Substance Use
	17-18 16%	• Illicit drug use (0 to 65)	hypothesized positive within-wave	
	19-20 9%	• Carrying weapons (0 to 5)	relationships between substance	Pathway Coefficients
	>20 7%	• Fights (0 to 15)	use and violence and a direct	T1Violence* ↔ T1Substance Use .67 < .05
		rights (o to 15)	INVERSE effect of substance use	T1Violence*→T2Substance Use .06 ns
	<u>Gender</u> :	Instrument used to measure	at time 1 on violence at time 2.	T2Violence*↔T2Substance Use .43 <.05
	49% male	factors:	They hypothesized inverse effects	12 (1010100 (712)40044100 000 110 (100
	51% female	Investigator-developed	of drug use on later violence was	*included both weapon carrying and fights.
		investigator developed	predicated primarily on the	meraded both weapon earlying and rights.
	Race:	Covariates	assumptions that motivation to	
	45% white	Covariates	engage in violence is associated	

engage in violence is associated

negative self-feelings motivate

use functions to alleviate the negative self-feelings associated with the disposition to engage in violence. The findings support this

theoretical orientation.

with distressful self-feelings, that

substance use, and that substance

45% white

38% African American

16% Mexican American

Gender

Black

Latino

Social class (1 lowest; 6 highest)

Appendix C1: Evidence Table 19: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.	

At time 2 and 3 measured over the past month of part	To test the hypothesis that blacks are more violent than	Outcome (violence):	Study Period (begin, end):	Study Design:	6595
1996	whites within a similar socio-cultural context in an urban	Violence-related behaviors	Baseline – 1990	Prospective cohort study (2 nd and	
1996 in South Florida which began in 1990. Social Psychology International Study Ouality Score: Poor (Attrition rate >20%) Sample size: Eligible: 9763 Baseline n=6760 (69%) Final sample n=3955 (59% of baseline) Description of cohort(s) by age. gender. & race/ethnicity Age: Baseline measured at grade 8 (n=1704) and grade 9 (n=2251) Gender: 3955 male (100%) Size Main independent factor(s): Name (Raplan is Description) of Cuban 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) Non-Cuban Hisp	er the area.			3 rd waves of a longitudinal study	Kingery
Social Psychology International Psychology International Study Ouality Score: Poor (Attrition rate >20%) Study Population International Poor (Attrition rate >20%) Poor	Beat	past month.			
Social Psychology International Psychology I				in South Florida which began in	1996
Psychology International Proportion are >20% Study Population Poor (Attrition rate >20%) Study Population Internetity make adolescents living in South Florida (around Miami) Inclusion criteria: All 6 th and 7 th grade males from 48 middle schools in Dade county Exclusion criteria: Parents did not allow participation Parents did not allow participatio			Dade County, Florida	1990.)	
International Poor (Attrition rate >20%) Sample size: Eligible: 9763 Baseline =6760 (69%) Final sample n=3955 (59% of baseline) Description of cohort(s) by age gender. & race/ethnicity Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 6.1 White 640 6.3 Seating someone up for no reason 1 mercity male adolescents living in lnen-city male adolescents living in least some one up for no reason Type Age: Nicaraguan 340 10.7* Nicaraguan 340 10.7* Noho-aggravated assault Non-aggravated assault Non-aggravated assault Age: Circumstance/Situational Context; Proactive/Reactive; Weapon used; Victim-offender relationship: Unspecified Adverse Health Outcome: Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under violence among young adolescent boys living under living and interpressonal violence among young adolescent boys living under living a living and interpressonal violence among yo		 Taking part in gang fights 			
Inner-city male adolescents living in South Florida (around Miami) Inclusion criteria: Eligible: 9763 Baseline n=6760 (69%) Final sample n=3955 (59% of baseline) Description of cohort(s) by age. gender. & race/ethnicity Age: Parents did not allow participation of system before the conclusion of the study Absent during second and third wave data collection Admitted to answering questions dishonestly Missing key response components of the violence composite Normative values (Normative Values Scales) Parcian Black: 100 (27.2%) American Black: 170 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Cocaine & crack use (composite score by author) South Florida (around Miami) Inclusion criteria: South Florida (around Miami) Inclusion criteria: Pxpe Nicaraguan 340 10.7* Other 101 7.1* Other 101 Other		 Using force to get money or 			
Sample size: Eligible: 9763 Baseline n=6760 (69%) Final sample n=3955 (59% of baseline) Description of cohort(s) by age, gender. & race/ethnicity Parents did not allow participation of system before the conclusion of the study Absent during second and third wave data collection Admitted to answering questions dishonestly Main independent factor(s): Race: Race/ethnicity Race: Sample n=3955 (59% of baseline) South Florida (around Miami) Inclusion criteria: All 6 hand 7 mg ade males from 48 middle schools in Dade county Exclusion criteria: Permale adolescents Did not return consent forms Parents did not allow participation Moved away or out of the school system before the conclusion of the study Absent during second and third wave data collection Admitted to answering questions dishonestly Missing key response components of the violence composite Race: Main independent factor(s): Race/ethnicity Normative values (Normative Values Scale by Kaplan 1986) Derogation (Kaplan's Derogation Scales) Cocaine & crack use (composite score by author) Cocaine & crack use (composite sco		items		Poor (Attrition rate >20%)	International
Eligible: 9763 Baseline n=6760 (69%) Final sample n=3955 (59% of baseline) Description of cohort(s) by age, gender, & race/ethnicity Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Inclusion criteria: Inclusion		 Beating someone up for no 			
Baseline n=6760 (69%) Final sample n=3955 (59% of baseline) Description of cohort(s) by age. gender, & race/ethnicity Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) All 6th and 7th grade males from 48 middle schools in Dade county Exclusion and 7th grade males from 48 middle schools in Dade county Exclusion or tierait. - Female adolescents - Did not return consent forms - Parents did not allow participation - Moved away or out of the school system before the conclusion of the study - Absent during second and third wave data collection - Admitted to answering questions dishonestly - Missing key response components of the violence composite Main independent factor(s): - Race: - Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) All 6th and 7th grade males from 48 middle schools in Dade county Exclusion criteria: - Female adolescents - Did not return consent forms - Parents did not allow participation - Moved away or out of the school system before the conclusion of the school system before the conclusion of the school system before the conclusion of the school sin Dade county - Moved away or out of the school sin Dade county - Moved away or out of the school sin Dade county - Moved away or out of the school sin Dade county - Moved away or out of the school sin Dade county - Moved away or out of the school system before the conclusion of the school single fight - Non-aggravated assault - Non-aggravated assault - Mon-aggravated assault - Mon-agravated assault - Mon-aggravated assault - Mon-a		reason	` ,		
Final sample n=3955 (59% of baseline) Description of cohort(s) by age, gender, & race/ethnicity Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251) Gender:					
baseline) Description of cohort(s) by age. gender. & race/ethnicity Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: Cuban: Litz (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Age: Lizclusion criteria: • Female adolescents • Did not return consent forms • Parents did not allow participation • Moved away or out of the school system before the conclusion of the study • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite Main independent factor(s): • Race/ethnicity • Normative values (Normative Values Scale by Kaplan 1986) • Derogation (Kaplan's Derogation Scales) • Non-Cuban Hisp: 1109 (27.2%) • American Black: 503 (12.4%)		<u>Type</u>	All 6 th and 7 th grade males from 48		
Description of cohort(s) by age, gender, & race/ethnicity Parents did not allow participation	Other 101 7.1 6.1 4.0	Aggravated assault			
Female adolescents Did not return consent forms Parents did not allow participation Moved away or out of the school system before the conclusion of the study Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: Cuban: Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Pemale adolescents Did not return consent forms Parents did not allow participation Moved away or out of the school system before the conclusion of the study Absent during second and third wave data collection Admitted to answering questions dishonestly Main independent factor(s): Race: Cuban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Pemale adolescents Did not return consent forms Did not return consent forms Parents did not allow participation Moved away or out of the school system before the conclusion of the study Absent during second and third wave data collection Admitted to answering questions dishonestly Missing key response components of the violence composite Main independent factor(s): Race: Cuban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Pemale adolescents Did not return consent forms Parents did not allow participation Moved away or out of the school system before the conclusion of the study Main true presponse components of the violence composite Main independent factor(s): Proactive/Reactive: Weapon used: Victim-offender relationship: Unspecified Adverse Health Outcome: Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under				baseline)	
Description of cohort(s) by age, gender, & race/ethnicity Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Parents did not allow participation • Parents did not allow participation • Moved away or out of the school system before the conclusion of the study • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite Main independent factor(s): • Race/ethnicity • Normative values (Normative Values Scale by Kaplan 1986) • Did not return consent forms • Parents did not allow participation • Moved away or out of the school system before the conclusion of the study • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite • Race/ethnicity • Normative values (Normative Values Scale by Kaplan 1986) • Derogation (Kaplan's Derogation Scales) • Cocaine & crack use (composite score included carry an on-violent behavior according to the definition. Stepwise logistic regression results not composite violents core included carry an on-violent behavior according to the definition. **Adverse Health Outcome** Not Studied **Are mechanisms of violence theorized?* Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under	* p<0.05 by Chi-square test.		 Female adolescents 		
Parents did not allow participation Moved away or out of the school system before the conclusion of the study Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Parents did not allow participation Moved away or out of the school system before the conclusion of the study Absent during second and third wave data collection Admitted to answering questions dishonestly Main independent factor(s): Pace (composite violent score included carry a non-violent behavior according to the definition. Stepwise logistic regression results not composite violent score included carry a non-violent behavior according to the definition. Adverse Health Outcome: Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under			 Did not return consent forms 		
• Moved away or out of the school system before the conclusion of the study • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite • Moved away or out of the school system before the conclusion of the study • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite • Main independent factor(s): • Race: Cuban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) • Moved away or out of the school system before the conclusion of the study • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite • Main independent factor(s): • Race/ethnicity • Normative values (Normative Values Scale by Kaplan 1986) • Derogation (Kaplan's Derogation Scales) • Cocaine & crack use (composite score included carry annon-violent behavior according to the definition. **Adverse Health Outcome** Not Studied **Are mechanisms of violence theorized?* Yes The study attempts to dispel the "race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under	Stepwise logistic regression results not used because the	Robbery	 Parents did not allow participation 	gender, & race/ethnicity	
Age: Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: Cuban: Non-Cuban Hisp: Non-Cuban Hisp: Non-Cuban Hisp: Non-Cuban Hisp: Absent during second and third wave data collection Adsent during second and third wave data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite Main independent factor(s): • Race/ethnicity • Normative values (Normative Values Scale by Kaplan 1986) • Derogation (Kaplan's Derogation Scales) • Cocaine & crack use (composite score by author) Accerbance: Context; Proactive/Reactive; Weapon used; Victim-offender relationship: Unspecified Adverse Health Outcome: Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under	composite violent score included carrying a weapon which is	Circumstance/Situational	 Moved away or out of the school 		
Baseline measured at grades 6 and 7 Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: Cuban: Non-Cuban Hisp: 1172 (28.8%) Non-Cuban Hisp: Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) study Absent during second and third wave data collection Admitted to answering questions dishonestly Missing key response components of the violence composite Main independent factor(s): Race/ethnicity Normative values (Normative Values Scale by Kaplan 1986) Derogation (Kaplan's Derogation Scales) Cocaine & crack use (composite score by author) study Weapon used; Victim-offender relationship: Unspecified Adverse Health Outcome: Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under			system before the conclusion of the	Age:	
Absent during second and third wave data collection Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: Gender: 3955 male (100%) Race: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Admitted to answering questions dishonestly • Absent during second and third wave data collection • Admitted to answering questions dishonestly • Adwerse Health Outcome: Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under	1 6 4		study		
wave data collection Violence outcome measured at grade 8 (n=1704) and grade 9 (n=2251)) Gender: 3955 male (100%) Race: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Main independent factor (s): • Race data collection • Admitted to answering questions dishonestly • Missing key response components of the violence composite • Admitted to answering questions dishonestly • Missing key response components of the violence composite • Main independent factor(s): • Race/ethnicity • Normative values (Normative Values Scale by Kaplan 1986) • Derogation (Kaplan's Derogation Scales) • Cocaine & crack use (composite score by author) Wave data collection • Admitted to answering questions dishonestly Not Studied Are mechanisms of violence theorized? Yes The study attempts to dispel the "race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under	<u>er</u>		 Absent during second and third 		
dishonestly Missing key response components of the violence composite Gender: 3955 male (100%) Race: Cuban: Cuban: Non-Cuban Hisp: 1172 (28.8%) Non-Cuban Hisp: American Black: 1179 (27.2%) American Black: Missing key response components of the violence composite Main independent factor(s): Race/ethnicity Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Derogation (Kaplan's Derogation Scales) Cocaine & crack use (composite score by author) Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under		relationship: Unspecified		and 7	
dishonestly Missing key response components of the violence composite Gender: 3955 male (100%) Race: Cuban: Cuban: Non-Cuban Hisp: 1172 (28.8%) Non-Cuban Hisp: American Black: 1179 (27.2%) American Black: Missing key response components of the violence composite Main independent factor(s): Race/ethnicity Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Derogation (Kaplan's Derogation Scales) Cocaine & crack use (composite score by author) Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under		A decessor Hoolth Ontonno.	 Admitted to answering questions 		
• Missing key response components of the violence composite Gender: 3955 male (100%) Race: Cuban: Cuban: Non-Cuban Hisp: Non-Cuban Hisp: Are mechanisms of violence theorized? Yes The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under		Not Studied			
of the violence composite Main independent factor(s):		Not Studied	• Missing key response components		
Gender: 3955 male (100%) Race: Outain: Non-Cuban Hisp: Non-Cuban Hisp: American Black: 1172 (28.8%) American Black: Main independent factor(s): Race/ethnicity Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Outain: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: Main independent factor(s): Race/ethnicity Normative values (Normative Values Scale by Kaplan 1986) Outain: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Main independent factor(s): Race/ethnicity Normative values (Normative Values Scale by Kaplan 1986) Outain: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Main independent factor(s): Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Outain: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%)		A re mechanisms of violence		(n=2251))	
Main independent factor(s): 3955 male (100%) Race/ethnicity Normative values (Normative Values Scale by Kaplan 1986) Yes					
Race: Race: Normative values (Normative Values Scale by Kaplan 1986) Ouban: Non-Cuban Hisp: Non-Cuban Hisp: American Black: 1172 (28.8%) Non-Cuban Hisp: American Black: Race/ethnicity Normative values (Normative Values Scale by Kaplan 1986) Ouban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: Normative values (Normative Values Scale by Kaplan 1986) Ouban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: Normative values (Normative Values Scale by Kaplan 1986) Ouban: Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Ouban: Ouban: Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Ouban: Ouba			Main independent factor(s):	Gender:	
Normative values (Normative Values Scale by Kaplan 1986) Cuban: Cuban: Non-Cuban Hisp: 1172 (28.8%) Non-Cuban Black: 1179 (27.2%) American Black: O Normative values (Normative Values (Normative Values Scale by Kaplan 1986) Derogation (Kaplan's Derogation Scales) Cocaine & crack use (composite score by author) The study attempts to dispel the "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under		ies	Race/ethnicity	2055 1 (1000/)	
Values Scale by Kaplan 1986) Ouban: Cuban: Non-Cuban Hisp: American Black: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: Values Scale by Kaplan 1986) • Derogation (Kaplan's Derogation Scales) Occasine & crack use (composite score by author) Values Scale by Kaplan 1986) • Cocaine & crack use (composite score by author) "race hypothesis" and show that race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under	he	The study attempts to dispel the	1	3955 male (100%)	
Cuban: Non-Cuban Hisp: American Black: O Derogation (Kaplan's Derogation Scales) O Derogation (Kaplan's Derogation Scales) O Cocaine & crack use (composite score by author) O Cocaine & crack use (composite score by author) O Cocaine & crack use (composite score by author) O Derogation (Kaplan's Derogation race and ethnicity do not play a large role in weapon carrying and interpersonal violence among young adolescent boys living under				_	
Cuban: 1172 (28.8%) Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) Scales) • Cocaine & crack use (composite score by author) large role in weapon carrying and interpersonal violence among young adolescent boys living under				Race:	
Non-Cuban Hisp: 1109 (27.2%) American Black: 503 (12.4%) • Cocaine & crack use (composite score by author) • Cocaine & crack use (composite score by author) • Cocaine & crack use (composite score by author) • Cocaine & crack use (composite score by suthor)				4.50.000	
American Black: 503 (12.4%) score by author) young adolescent boys living under			,		
American black. 303 (12.4%)					
L TO A CONTROL OF THE CONTROL OF THE COMP CONT	under	the same deprivations.	Marital & education status of		
winte. 040 (13.7%)		the same deprivations.			
Haitian. 70 (2.470) ^			•		
Carlobean Black. 110 (2.770)					
1 (10 (11 (1) (1) (1) (1) (1) (1) (1) (1) (1)					
Others: 101 (2.5%) • Behaviors (Likelihood that, when insulted by someone, would hit them				Others: 101 (2.5%)	
or try to get even)					
of thy to get even)			of try to get even)		
Instruments Used: Indicated above			Instruments Used: Indicated above		

Appendix C1: Evidence Table 20: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome **Study Quality Study Characteristic** Outcome (Violence) Findings

Record #

Record #	Study Quanty	Study Characteristic	Outcome (violence)	Findings	
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications	
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.		
	·				
6638	Study Design:	Study Period (begin, end):	Outcome (violence):	Longitudinal associations between	n race, gender, MMPI-
	Prospective cohort study	Spring 1994 and 1995 (8 th and 9 th	Violence behaviors	A high risk status, and alcohol use	
Komro	(part of a 9-year community	grades)	Violence senaviors	Ti mgn Tion status, and arconol as	Will Violent Sona Viol
Konno	trial, Project Northland, in	Place (city, state):	Definition	(A) Alcohol Use	
1999	rural northeastern	Rural Northeastern Minnesota	• Hit or beat up someone	Independent factors	N OR (95%CI)
1999	Minnesota)	Study Setting: Classroom-based in		Race	N OR (93/0CI)
J Child &	Willinesota)	10 school districts	• Pulled a weapon such as	Other	27 1.00
	St. 1. O. 11t. Seems		gun or knife on someone		
Adolescent	Study Quality Score:	Study Population:		White	896 0.29 (0.12, 0.70)
Substance	Poor (attrition > 20%)	8 th and 9 th grade students	Type:	Gender	155 100
Abuse		<u>Inclusion criteria:</u> see above	Physical aggression	Girls	455 1.00
	Sample size:	Exclusion criteria:		Boys	468 2.78 (2.09, 3.72)
	Initial cohort: 1266	• Did not complete a survey in both	Circumstance/Situational	MMPI-A risk status	
	Both surveys: 1088	8 th and 9 th grade	Context;	Low	611 1.00
	Analysis sample: 937 (74%	 Moved between intervention and 	Proactive/Reactive; Victim-	High**	312 2.40 (1.76, 3.28)
	of initial cohort; 86% of	reference conditions	offender relationship:	Alcohol use	
	those completed both	• Did not meet criteria for valid	Unspecified	None in past mo.	663 1.00
	surveys)	responding (i.e., response		Use past mo./no binge drinking	168 1.33 (0.92, 1.93)
		inconsistencies or exaggerations)	Weapon used	Use past mo./binge drinking	92 2.06 (1.26, 3.36)
	Description of cohort(s) by	medisistencies of exaggerations)	Hitting, Threatening (with		, , ,
	age, gender, &	Main independent factor(s):	gun or knife)	(B) Acknowledgment of Alcohol/D	rug Problems Use
	race/ethnicity	MMPI-A (the Minnesota	gun or kinic)	(2) 1101110 (1100101)	1100101115 050
	<u>race, earmerty</u>		Adverse Health Outcome:	Race	
	Age:	Multiphasic Personality Inventory-	Not studied	Other	24 1.00
	9th grade students	Adolescent) classification on 5	Not studied	White	880 0.21 (0.08, 0.57)
	(study also reports non	scales:		Gender	880 0.21 (0.08, 0.57)
	violence-related outcomes	1. Family Problems Scale	Are mechanisms of	Girls	450 1.00
		2. School Problems Scale	violence theorized?		450 1.00
	of same cohort measured in	3. Low Aspirations Scale	No	Boys	454 2.83 (2.11, 3.79)
	8th grade)	4. Alcohol/Drug Problem		MMPI-A risk status	7 00 100
		Proneness Scale		Low	588 1.00
	Gender:	5. Alcohol/Drug Problem		High**	316 2.36 (1.71, 3.26)
	Male: 51% (478)	Acknowledgement Scale		Acknowledgment of Alcohol/drug p	
	Female: 49% (459)	• Alcohol use:		Low	813 1.00
		Past month alcohol use		High	91 2.15 (1.29, 3.57)
	Race:	2. Binge drinking (5 or more			
	White: 97% (909)	drinks in a row in the last 2		**MMPI-A high risk status is define	ed as students with at
	American Indian: 2% (19)	weeks)		least one elevated MMPI-A scales s	
	Other: 1% (9)	<u>Covariates</u>		scales	
	` ′	' -		Note: Rates of having ever "pulled a	weapon such as a gun
		• Race		or knife on someone" were too low	
		• Gender		regression analysis to be valid.	111 111 1111111111111111111111111111111
		<u>Instruments Used</u> : see above		12512001011 unuij 010 to 00 vund.	

Appendix C1: Evidence Table 21: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings			
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion	characterization.	•			
	_	Criteria					
9560	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective cohort study (3	1987-1990	Violence for the study	To identify developm	ental pathwa	ays in disruptive	e child behavior,
Loeber	year follow-up data from the		period (age 16)	such as violence.	•	•	,
	Pittsburgh Youth Study)	Place (city, state):	<u>Definition</u>				
1993		Pittsburgh, PA	•Attacking someone	Overt pathway behav	<u>ior rates</u>		
	Study Quality Score:		•Strong arming				
Develop-	Good	Study Setting:	•Forcing sex				value for
ment and		Public schools		Behavior N (%			hi-sq
Psycho-	Sample size:		Instrument used to measure			102 (47.4) ns	
pathology	7th grade cohort: 506	Study Population:	outcome		(45.4)	` '	0.01
	Analysis: 435 (86%)	A sample of 1 st , 4 th , and 7 th	•Self-reported Delinquency	Violence 72	(24.7)	28 (13.0) <	0.01
		grade boys enrolled in	Scale				
		Pittsburgh public schools		Overt pathway seque	nce* for tho	se showing 1 or	more forms of
	Age: Mean (SD)	and their primary caretakers	Type: see definition	overt behavior			
	13.4 (0.9)	(Only the 7th grade cohort	Not specified		Total	Afric-Amer	Caucasian
		findings are reported here).	Circumstance/Situational	<u>Behavior</u>	N (%)	N (%)	N (%)
	Gender: 100% male		Context;	•Sequences starting wi	ith Aggressio	n	
		<u>Inclusion criteria</u> : see above	Proactive/Reactive;	A→F→V	15 (5.3)	12 (7.0)	3 (2.7)
	Race	Exclusion criteria: None	Weapon used: Victim-	A→F	48 (17.0)	23 (13.5)	25 (22.3)
	African Amer 291 (57.5%)		offender relationship:	A only	73 (25.8)	32 (18.7)	41 (36.6)
	Caucasian 215 (42.5%)	Main independent factor(s):	Not specified	A→V	9 (3.2)	3 (1.8)	6 (5.4)
		Aggression	F	Total	145 (51.2)	70 (40.9)	75 (67.0)
		•Fighting	Adverse Health Outcome:	•Sequences starting wi	ith Fighting		
			Not studied	F→V	24 (8.5)	18 (10.5)	6 (5.4)
		<u>Instrument used to measure</u>		F only	47 (16.6)	32 (18.7)	15 (13.4)
		factors:	Are mechanisms of	Total	71 (25.1)		21 (18.8)
		Maternal Child Behavior	violence theorized?	•Sequences starting wi	ith Violence	, ,	` ′
		Checklist	Yes	V only	13 (4.6)	11 (6.4)	2 (1.8)
		Diagnostic Schedule for		•Nonfitting sequences			14 (11.8)
		Children-revised	If yes, state the theory:	•No overt behavior	152 (34.9)		66 (37.1)
		•Self-reported Delinquency	Violent behavior develops	Sample size	435	257	178
		Scale	via the overt pathway:			 ·	*
		Youth Self Report	1: Aggression (annoying	*A=Aggression			
			others, bullying)	F=Fighting			
		<u>Covariates</u>	2: Fighting (physical	V=Violence			
		•Age group	fighting, gang fighting)				
		•Race	3: Violence				
		-itacc					
			1				

Appendix C1: Evidence Table 22: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion	characterization.	
1 (41, 511	Sumple Size	Criteria	Character 12actors	
6855	Study Design:	Study Period (begin, end):	Outcome (violence):	To replicate a developmental pathway to violent juvenile
Loeber	Prospective cohort study	1987-1993	Violent behavior	delinquency across different studies.
1999	(Joint analysis of 3	Place (city, state):	Definition	Prevalence of behaviors:
1,,,,	longitudinal studies:	Pittsburgh, PA	•Attacking someone	Fighting (Step 2) Violence (Step 3)
Studies on	Pittsburgh Youth Study,	Study Setting:	•Strong-arming	#(%) p-value for $#(%)$ p-value for
Crime and	Denver Youth Survey, and	Public schools	•Rape	racial diff. racial diff.
Crime	Rochester Youth	Study Population:	Instrument used to measure	Pittsburgh, PA N=447 <0.01 N=417 <0.0001
Prevention	Development Study)	Adolescent males	outcome	Total 268 (60.0) 155 (37.2)
Tievention	Beveropment Study)	Inclusion criteria:	•37-item Self-Reported	African American 172 (65.6) 108 (44.3)
	Study Quality Score:	Boys randomly drawn from		Caucasian 96 (51.9) 47 (27.2)
	Poor (attrition rate >20%)	the 7 th grades, over-sampled	Delinquency Scale (SRD),	70 (5117) 17 (2712)
Page 1 of	1 oor (attrition rate > 20%)	"at risk" population; A total	improved version of the SRD	Fit in the overt developmental pathway:
3	Sample size:	of 9 assessments: 6-months	scale used by National Youth	Pittsburgh, PA
3	Pittsburgh:	for first 6 follow-up and	Survey	Persisters: Steps 2 to 3 Step 2 only Step 3 only Total
	Baseline: 506 (84.7% of	yearly thereafter.	•Extended version of the	#(%) #(%) #(%) #(%)
The	eligible)	Exclusion criteria: None	Maternal Child Behavior	Total 76 (15.0) 65 (12.8) 4 (0.8) 145 (28.7)
Pittsburgh	Analysis: 365 (72%)	Main independent factor(s):	Checklist (Pittsburgh only)	Afr Amer 53 (18.2) 40 (13.7) 3 (1.0) 96 (33.0)
Youth	7 Harysis. 303 (7270)	•Age of onset of physical	•Extended version of the	Caucasian 23 (10.7) 25 (11.6) 1 (0.5) 49 (22.8)
Study	Description of cohort(s) by	fighting, gang fighting or	Youth Self-Report	23 (10.7) 23 (11.0) 1 (0.3) 17 (22.0)
Study	age, gender, &	violent behavior.	(Pittsburgh only)	Exper.: Excl./miss.: Nonfitters: No overt behav.:
	race/ethnicity	Overt developmental	•Parent version of the	# (%) # (%) # (%) # (%)
	<u>race/ethnicity</u>	pathway:	Diagnostic Interview	Total 73 (14.4) 37 (7.3) 41 (8.1) 210 (41.5)
	Age: Not specified	1. Persisters: Those who	Schedule for Children	Afr Amer 41 (14.1) 21 (7.2) 31 (10.7) 102 (35.1)
	rige. Two specified	engaged in any violent	(Pittsburgh only)	Caucasian 32 (14.0) 16 (7.4) 10 (4.7) 215 (22.8)
	Gender: 100% Male	behavior at more than 1	Type: Rape, attack	22 (11.0) 10 (1.1) 10 (1.1) 213 (22.0)
	Gender. 10070 Wate	annual assessment.	Circumstance/Situational	Entry into overt developmental pathway:
	Race:	2. Experimenters: Those	Context; Proactive/Reactive;	Looking at proportion of Persisters and Experimenters entering at
	Pittsburgh	who engaged in any violent	Weapon used; Victim-	Step 2:
	African Amer 291 (57.5%)	behavior only once.	offender relationship:	Proportion (%)
	Caucasian 215 (42.5%)	3. Nonfitters: Those whose	Not specified	Pittsburgh 90
	213 (12.370)	ordering of reported	Adverse Health Outcome:	Denver 98
	Total	behaviors was the inverse of	Not studied	Rochester 98
	African Amer 916 (53.9%)	that postulated by the overt		Comparing Persisters with Experimenters on the proportion entering
	Caucasian 380 (22.4%)	development pathway.	Are mechanisms of violence	at Step 2*:
	Hispanic 357 (21.0%)	development pattiway.	theorized?	Odds ratios (95%CI)
	Other 46 (2.7%)	Instrument used to measure	Yes	Pittsburgh 11.5 (3.7-35.7)
	10 (2.770)	factors: See Instruments	Overt pathway to boys'	Denver Not reported

violent behavior stems from

minor aggression (step 1) to physical fighting (step 2) to violent behavior (step 3).

<u>factors:</u> See Instruments

Covariates Race

used to measure outcome.

Denver Not reported

10.1 (1.9-52.6) Rochester

*Details on regression model not provided in study.

Appendix C1: Evidence Table 22: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings				
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications				
Year, Jnl	Sample Size	Inclusion/Exclusion	characterization.	Implications				
rear, Jin	Sample Size	Criteria	characterization.					
		Criteria						
6855	Study Design:	Study Period (begin, end):	Outcome (violence):	To replicate a developmental pathway to violent juvenile				
0033	Prospective cohort study	1987-1993	Violent behavior	delinquency across different studies.				
Loeber	(Joint analysis of 3	Place (city, state):	<u>Definition</u>	Prevalence of behaviors:				
Lococi	longitudinal studies:	Denver, CO	•Attacking someone	Fighting (Step 2) Violence (Step 3)				
1999	Pittsburgh Youth Study,	Study Setting:	_	# (%) p-value for # (%) p-value for				
1999	Denver Youth Survey, and	Households in high risk	•Strong-arming	racial diff.				
Ctudios on	Rochester Youth		•Rape					
Studies on		neighborhoods						
Crime and	Development Study)	Study Population:	<u>Instrument used to measure</u>	Total 248 (59.2) 66 (17.3)				
Crime		Adolescent males	<u>outcome</u>	African American 95 (65.5) 36 (27.9)				
Prevention	<u> </u>		•37-item Self-Reported	Caucasian 16 (53.3) 2 (6.9)				
	Good Boys aged 11, 13, or 15		Delinquency Scale (SRD),	Hispanic 117 (57.9) 27 (14.5)				
		time of study enrollment;	improved version of the SRD	Other 20 (47.6) 1 (2.6)				
	Sample size:	first 5 yearly interviews	scale used by National Youth	Fit in the overt developmental pathway:				
Page 2 of	Denver:	were analyzed.	Survey	Denver, CO				
3	Baseline: 464	Exclusion criteria:		Persisters: Steps 2 to 3 Step 2 only Step 3 only Total				
	Analysis 373 (80%)	None	Type	#(%) #(%) #(%)				
The			Rape, attack	Total 47 (10.1) 107 (23.1) 2 (0.4) 156 (33.6)				
Denver	Description of cohort(s) by	Main independent factor(s):		Afr Amer 25 (15.5) 38 (23.6) 2 (1.2) 65 (40.4)				
Youth	age, gender, &	•Age of onset of physical	Circumstance/Situational	Caucasian 1 (3.2) 7 (22.6) 0 (0.0) 8 (25.8)				
Survey	race/ethnicity	fighting, gang fighting or	Context; Proactive/Reactive;	Hispanic 21 (9.3) 52 (23.0) 0 (0.0) 73 (32.3)				
		violent behavior.	Weapon used; Victim-	Other 0 (0.0) 10 (21.7) 0 (0.0) 10 (21.7)				
	Age: Not specified	Overt developmental	offender relationship:	Exper.: Excl./miss.: Nonfitters: No overt behav.:				
		pathway:	Not specified	#(%) #(%) #(%)				
	Gender: 100% Male	1. Persisters: Those who	_	Total 58 (12.5) 34 (7.3) 7 (1.5) 209 (45.0)				
		engaged in any violent	Adverse Health Outcome:	Afr Amer 21 (13.0) 11 (6.8) 3 (1.9) 61 (37.9)				
	Race:	behavior at more than 1	Not studied	Caucasian 5 (16.1) 2 (6.5) 1 (3.2) 15 (48.4)				
	Denver	annual assessment.		Hispanic 26 (11.5) 17 (7.5) 3 (1.3) 107 (47.3)				
	African Amer 161 (34.7%)	2. Experimenters: Those	Are mechanisms of violence	Other 6 (13.0) 4 (8.7) 0 (0.0) 26 (56.5)				
	Caucasian 31 (6.7%)	who engaged in any violent	theorized?	Entry into overt developmental pathway:				
	Hispanic 226 (48.7%)	behavior only once.	Yes	Looking at proportion of Persisters and Experimenters entering at				
	Other 46 (9.9%)	3. Nonfitters: Those whose	Overt pathway to boys'	Step 2: <u>Proportion (%)</u>				
		ordering of reported	violent behavior stems from	Pittsburgh 90				
	Total	behaviors was the inverse of	minor aggression (step 1) to	Denver 98				
	African Amer 916 (53.9%)	that postulated by the overt	physical fighting (step 2) to	Rochester 98				
	Caucasian 380 (22.4%)	development pathway.	violent behavior (step 3).	Comparing Persisters with Experimenters on the proportion				
	Hispanic 357 (21.0%)	Instrument used to measure		entering at Step 2*:				
	Other 46 (2.7%)	<u>factors:</u> See Instruments		Odds ratios (95%CI)				
		used to measure outcome.		Pittsburgh 11.5 (3.7-35.7)				
				Denver Not reported				
		<u>Covariates</u>		Rochester 10.1 (1.9-52.6)				
		Race		*Details on regression model not provided in study.				

Appendix C1: Evidence Table 22: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion	characterization.	Implications
1 cui, sin	Sumple Size	Criteria	characterization.	
6855	Study Design:	Study Period (begin, end):	Outcome (violence):	To replicate a developmental pathway to violent juvenile
	Prospective cohort study	1987-1993	Violent behavior	delinquency across different studies.
Loeber	(Joint analysis of 3	Place (city, state):		Prevalence of behaviors:
	longitudinal studies:	Rochester, NY	Definition	Fighting (Step 2) Violence (Step 3)
1999	Pittsburgh Youth Study,	Study Setting:	•Attacking someone	# (%) p-value for $#$ (%) p-value for
	Denver Youth Survey, and	Public schools	•Strong-arming	racial diff. racial diff.
Studies on	Rochester Youth	Study Population:	•Rape	Rochester, NY N=668 <0.01 N=606 <0.0001
Crime and	Development Study)	Adolescent males	Tape	Total 462 (69.2) 165 (27.2)
Crime	Inclusion criteria:		Instrument used to measure	African American 315 (73.4) 121 (31.1)
Prevention	Study Quality Score: 7 th and 8 th grade boys		outcome	Caucasian 70 (58.8) 14 (12.6)
	Poor (attrition rate >20%) enrolled in study in		•37-item Self-Reported	Hispanic 77 (64.2) 30 (27.5)
		1988, over-sampled from	Delinquency Scale (SRD),	Fit in the overt developmental pathway:
Page 3 of	Sample size:	high-crime neighborhoods	improved version of the SRD	Rochester, NY
3			scale used by National Youth	Persisters: Steps 2 to 3 Step 2 only Step 3 only Total
			Survey	#(%) #(%) #(%)
	Analysis: 562 (77%) <u>Exclusion criteria:</u>			Total 130 (17.8) 201 (27.6) 2 (0.3) 333 (45.7)
The		None	Type: Rape, attack	Afr Amer 95 (20.5) 125 (26.9) 2 (0.4) 222 (47.8)
Rochester	Description of cohort(s) by	Main independent factor(s):	= <u>Jp</u>	Caucasian 12 (9.0) 41 (30.6) 0 (0.0) 53 (39.6)
Youth	age, gender, &	 Age of onset of physical 	Circumstance/Situational	Hispanic 23 (17.6) 35 (26.7) 0 (0.0) 58 (44.3)
Develop-	race/ethnicity	fighting, gang fighting or	Context; Proactive/Reactive;	Exper.: Excl./miss.: Nonfitters: No overt behav.:
ment		violent behavior.	Weapon used; Victim-	#(%) #(%) #(%) #(%)
Study	Age: Not specified	Overt developmental	offender relationship:	Total 87 (11.9) 35 (4.8) 16 (2.2) 258 (35.4)
		pathway:	Not specified	Afr Amer 64 (13.8) 23 (5.0) 13 (2.8) 142 (30.6)
	Gender: 100% Male	1. Persisters: Those who		Caucasian 13 (9.7) 4 (3.0) 0 (0.0) 64 (47.8)
		engaged in any violent	Adverse Health Outcome:	Hispanic 10 (7.6) 8 (6.1) 3 (2.3) 52 (39.7)
	Race:	behavior at more than 1	Not studied	Entry into overt developmental pathway:
	Rochester	annual assessment.		Looking at proportion of Persisters and Experimenters entering at
	African Amer 464 (63.6%)	2. Experimenters: Those	Are mechanisms of violence	Step 2:
	Caucasian 134 (18.4%)	who engaged in any violent	theorized?	Proportion (%)
	Hispanic 131 (18.0%)	behavior only once.	Yes	Pittsburgh 90
	m . 1	3. Nonfitters: Those whose	Overt pathway to boys'	Denver 98
	Total	ordering of reported	violent behavior stems from	Rochester 98
	African Amer 916 (53.9%)	behaviors was the inverse of	minor aggression (step 1) to	Comparing Persisters with Experimenters on the proportion
	Caucasian 380 (22.4%)	that postulated by the overt	physical fighting (step 2) to	entering at Step 2*:
	Hispanic 357 (21.0%)	development pathway.	violent behavior (step 3).	Odds ratios (95%CI)
	Other 46 (2.7%)	Instrument used to measure		Pittsburgh 11.5 (3.7-35.7)
		factors: See Instruments		Denver Not reported
		used to measure outcome.		Rochester 10.1 (1.9-52.6)
		Covariates		*D-4-11
		Race		*Details on regression model not provided in study.

Appendix C	1: Evidence Table 23: Risk Facto	rs Contributing to Violent Beh	avior and Adverse Health Outcome
y	Study Characteristic	Outcome (Violence)	Findings
nographics	Risk Factors Studied	Definition and	Implications

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings	e Health Out	come		
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications				
				implications				
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.					
7020	Stada Dasiana	Ct. d. D. si. d (b. s.i d).	0-4	T- 1-4	4]	4		•
7020	Study Design:	Study Period (begin, end): 1990-1999	Outcome (violence):	To determine wh				
M.Cl., L	Prospective comparative		Adolescent aggression	childhood predicts later adolescent aggression		ression in	amerent	
McCloskey	cohort study	Place (city, state): southwestern mid-size city	(provided by youth at time 3)	relationships.				
2003	Study Quality Score:	Study Setting:	<u>Definition</u>	Prevalence of Ph		ession		
	Fair (differences found	Low-income community	Physical or threatened	<u>Type</u>	Boys (%)	Girls (%)		
J Inter-	between lost to follow-up	Study Population:	physical aggression towards	Same-sex peer	77.4	58.0	12.70 0	0.001
personal.	and remaining cohort;	Women from shelters and the	same-sex peers, dating	Dating partner	11.1	20.3	4.61 0	0.03
Violence	analysis didn't take this	community who had	partners, and to parent	Child-to-parent	NA	NA	NA n	ıs
	into consideration).	experienced partner abuse in						
		the past year and their child;	<u>Instrument used to measure</u>	Physical Aggress	sion by Child			<u> Iarital</u>
Page 1 of 2	Sample size:	and comparison women without	<u>outcome</u>	<u>Violence</u>	Exposed	Unexp	osed	
	No. of Mother-child pairs:	recent history of marital	 PI developed instrument 	<u>Type</u>	N (%)	N (%)		
	Time 1 (1990) 363	violence and their child	•Child Behavior Checklist	Same-sex peer	109 (73.6)	91 (62	2.0)	
	Time 2 (1996-7) 310	Inclusion criteria:	Conflict Tactics Scale	Dating partner	26 (17.7)	20 (13	3.8)	
	Time 3 (1998-9) 296	Mother-child pairs who	modified by PI	Child-to-parent	16 (12.6)	19 (13	3.6)	
	(82%)	completed interviews at all 3						
		time periods	Type	Logistic Regress	ions Predicti	ng <i>Peer A</i>	ggression (N=295)
	Marital violence 193	Exclusion criteria:	Physical or threatened	<u>Factor</u>	β (SE)	<u>OR</u>	95% CI	<u>p-value</u>
	Comparison group 170	None specified	physical aggression	•Regression 1				
				Marital violence	0.32 (0.10)	1.37	1.12-1.68	3 < 0.01
	Description of cohort(s) by	Main independent factor(s):	Circumstance/Situational	Child's sex (girl)	-0.72 (0.27)	0.41	0.24-0.69	< 0.001
	age, gender, &	provided by mother	Context; Proactive/Reactive;	Older than 18	0.62 (0.29)	1.87	1.05-3.30	< 0.05
	race/ethnicity	•Childhood exposure to marital	Weapon used: not specified					
		violence		•Regression 2				
	Age	∙Sex	Victim-offender relationship	Marital violence	0.25 (0.11)	1.28	1.04-1.58	3 < 0.05
	Time 1 Mean 9.2	•Child age	•Peers	Child's sex (girl)	-1.02 (0.28)	0.36	0.21-0.62	2 < 0.001
	Range 6 - 12	•Child depression symptoms	•Dating partners	Older than 18	0.62 (0.30)	1.86	1.04-3.36	< 0.05
	Time 2 Mean 14.7	•Child's capacity for empathy	•Parents	Depression	1.22 (0.34)	3.40	1.74-6.63	< 0.001
	Time 3 Mean 16.4							
		Instrument used to measure	Adverse Health Outcome:	•Regression 3				
	Gender Not specified	factors:	Not studied	Marital violence	0.31 (0.11)	1.36	1.11-1.67	< 0.01
	_	•Conflict Tactics Scale		Child's sex (girl)	-0.72 (0.28)	0.49	0.28-0.85	< 0.05
	Race	modified by PI	Are mechanisms of violence	Older than 18	0.70 (0.30)	2.02	1.12-3.63	3 < 0.01
	African American 4.7%	Catchment Epidemiologic	theorized?	Empathy	-0.65 (0.28)	0.52	1.12-3.63	3 < 0.01
	Anglo European 53.7%	Survey for Depression	Yes	-				
	Asian American 0.7%	•PI developed instrument	Depression and empathy are					
	Hispanic 35.8%		plausible mediators in the					
	Native American 4.4%	<u>Covariates</u>	cycle of violence.					
	Other 0.7%	•Child's empathy	_					
		•Child's depression		<u>Continued</u>				
		Cilia o depression						

Appendix C1: Evidence Table 23: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings				
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications				
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.					
7020				Logistic Regressions Prediction	D	. A (N. 202)	
7020				Factor β (SE)		95% CI	<u>p-value</u>	
McCloskey					<u>OR</u>	95% CI	p-value	
Wiccioskcy				•Regression 1	0.04	0.72 4.20		
2003				Marital violence -0.07 (0.13)	0.94 0.10	0.73 - 4.20 0.006- 1.86		
2003				Child's sex (girl) -2.28 (1.48)				
J Inter-				Older than 18 1.35 (0.37)	3.86	1.87 - 7.97		
				Depression 0.18 (0.67)	1.19	0.32 - 4.44		
personal.				Depression x Sex 1.74 (0.83)	5.70	1.12 -28.93	3 <0.05	
Violence								
Page 2 of 2				•Regression 2	1.04	0.02 1.20	`	
1 age 2 01 2				Marital violence 0.03 (0.12)	1.04	0.82 - 1.30		
				Child's sex (girl) 1.18 (0.39)	3.26	1.54 - 6.94		
				Older than 18 1.37 (0.36)	3.92	1.95 - 7.85		
				Empathy -0.94 (0.32)	0.39	0.21 - 0.73	3 <0.01	
				Logistic Regressions Prediction	ng Child-i	Child-to-Parent Aggression		
				(N=267)	_		<u> </u>	
				$\overline{\text{Factor}}$ β (SE)	<u>OR</u>	95% CI	p-value	
				•Regression 1			•	
				Marital violence -0.28 (0.21)	0.76	0.50-1.15	ns	
				Child's sex (girl) 0.13 (0.38)	1.14	0.54-2.42	ns	
				Older than 18 -0.09 (0.58)	0.91	0.29-2.82	ns	
				Marital violence x 0.48 (0.28)	1.62	0.94-2.78	< 0.10	
				Older than 18				
				Depression 0.72 (0.39)	2.05	0.96-4.40	< 0.10	
ı				•Regression 2				
				Marital violence 0.23 (0.21)	0.80	0.53-1.20	ns	
				Child's sex (girl) 0.30 (0.40)	1.35	0.62-2.96	ns	
				Older than 18 -0.02 (0.57)	0.98	0.32-3.00	ns	
				Marital violence x 0.49 (0.28)	1.63	0.95-2.79	ns	
				Older than 18	1.03	0.73-2.17	113	
				Empathy -0.38 (0.38)	0.68	0.33-1.43	ns	
1				Empatify -0.38 (0.38)	0.08	0.33-1.43	113	
	L							

Appendix C1: Evidence Table 24: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Definition Findings

Record #

Study Quality

Record #			Outcome (violence) Definition	r mangs				
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications				
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria						
7114	Study Design:	Study Period (begin, end):	Outcome (violence):	To examine peer rejection and aggression as predict				edictors of the
	Prospective cohort study	1984-1993	Serious offenses scale at Grade	severity and type of adolescent delinquency				
Miller-	(part of an ongoing		6, 8 and 10 over the past year.					
Johnson	longitudinal study of the	Place (city, state):		Serious offer	ise rates by Se	X		
	development of antisocial	Durham, NC	Definition		Boys (%)	Girls (%)	Chi-sq	p-value
1999	behavior from childhood to	,	Part of the FBI's measure of	Grade 6	30.1	15.9	9.34	<0.01
	young adulthood)	Study Setting:	serious crime and include felony,	Grade 8	30.7	15.2	11.01	< 0.01
J Emo-	J g	Public school system	theft, felony assault, robbery	Grade 10	27.6	21.3	NA	ns
tional &	Study Quality Score:	Tuene sensor system	dieti, tetany disauti, tessety	01440	27.0		- 1	
Behav	Poor (attrition rate > 20%)	Study Population:	Instrument used to measure					
Disorders		A subsample of 3 rd graders	outcome	Log-linear a	nalyses exami	ning 3 <u>rd</u> grad	e reiectio	n and
215014015	Sample size:	from 12 elementary schools in	National Youth Survey	aggression a	s predictors of	serious scal	e rejectio	
	3rd grade participants 1749	the local district who	Translat Touti Survey	aggi coston a	For Be		<u>ು</u> For Gir	·ls
[Longitu	6th grade participants 622	participated in follow-up at 2-	Type			(p-value)	Chi-sq (
dinal	Completed followup: 327	year intervals across	Not specified	Aggression			4.02 (<0	
study	(53%)	adolescence, beginning in 6th	Not specified	Rejection	ns	(0.01)	ns	
descriptio	(3370)	grade.	Circumstance/Situational	Rejection x	7.73 (<	(0.01)	ns	
n in Coie	Description of cohort(s) by	grade.	Context	Aggressic	*	(0.01)	113	
et al.,	age, gender, &	Inclusion criteria:	Not specified	Agglessic	ЛІ			
1992 and	race/ethnicity	Study participation in grades	Not specified	Log lincon o	nalygag of Dai	oction and A	aanoggion	as predictors
Coie et	lace/enimenty	6, 8, and 10	Proactive/Reactive		ault, felony as			as predictors
	A ===	6, 8, and 10	Not specified	of fillior ass	auit, leiony as	saunt, and ro	<u>obery</u>	
al., 1995]	Age Baseline: Grade 3	E-alasian suitanias	Not specified	Dana	Minan	E-1		
		Exclusion criteria:	XX	Boys	Minor	Felony	D . 1.1	L
	Follow-up: Grades 6	Students who were not	Weapon used	D'.1. E	Assault	Assault	Rob	
	Grade 8 and	African American	Not specified	Risk Factor		ue) OR (p-va		
	Grade 10	N 5	A77	Rejection	(ns)	,		- (ns)
	G 1 164 (50 20)	Main independent factor(s):	<u>Victim-offender relationship</u>	Aggression	1.22 (<.01			(<0.01)
	<u>Gender</u> 164 (50.2%) male	•Measures of peer social	Not specified	Interaction	(ns)	(<.0	1)	- (ns)
		status		~	3.51			
	Race 100% African Amer	 Measures of social behavior 	Adverse Health Outcome:	Girls	Minor	Felony		
		and aggression	Not studied		Assault	Assault	Rob	•
				Risk Factor		ue) OR (p-va		(p-value)
		<u>Instrument used to measure</u>	Are mechanisms of violence	Rejection		1) (ns)		(ns)
		factors:	theorized?	Aggression	(ns)	(ns)		
		PI developed instrument	Yes	Interaction	(ns)	(ns)		(ns)
			No					
		Covariates						
		•Gender	If yes, state the theory:					

Appendix C1: Evidence Table 25: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Findings

Definition and

Implications

Record #

Author

Study Quality

Group(s) Demographics

Risk Factors Studied

Group(s) Demographics	Risk Factors Studied	Definition and	Implications				
Sample Size	Inclusion/Exclusion Criteria	characterization.					
			T-11 - 0				
		Fighting					
cohort							
	1992 (wave 3)	<u>Definition</u>		ghting (v	ariables (entered s	<u>separately)</u>
Study Quality Score:	Place (city, state): U.S.	Number of times	<u>Variable</u>	1	2	3	<u>4</u>
Poor	Study Setting:	respondents had been in a	Race-Ethnicity				
(attrition >20%)	School from 2,988 locales	physical fight at or on the	White (ref)				
	Study Population:	way to or from school over	Asian	.08	.07	.07	.02
Sample size:	25 8 th graders each from 1000	the previous half year	Am. Indian	.95**	.76*	.85**	.94**
Target: 25,000	middle schools followed to	(once or more)	Black	.51**	.32	.42**	.48**
3 waves: 16,489 (66%)	1992		Latino	.41**	.32*	.21	.37**
	Inclusion criteria: 8 th graders	Instrument used to	Other	.02	03	05	02
		'T	Community Context				
		Survey	% urban		00		
Age Not specified			% owner		00		
1		Type	% aged 15-24				
Gender							
		8					
		Circumstance/Situational				04	
Race Mean SD	_		*				
· · · · · · · · · · · · · · · · · · ·							
	-	Proactive/Reactive.		ref)			
			· ·	/		45**	
	_	1					
		Adverse Health					
				parents			
	= -						
							25**
		Are mechanisms of					29**
	v			with Adu	lts		
		Yes					
		If ves, state the theory:	` ′				30**
							20**
				chool			01
					-1.58	-1.37	-1.50
							.19
	-		N	•=/			/
	• parental education		= '	d. prior fi	,	erception	is okay to fight
				., г-тог т	65, P		
	<u>Continued</u>		Continued				
	Sample Size Study Design: Prospective comparative cohort Study Quality Score: Poor (attrition >20%) Sample size: Target: 25,000 3 waves: 16,489 (66%) Analysis:14,358 (57%) Age Not specified Gender Male 50% Race Mean SD Asian 4% 19% Am. Indian 1% 9% Black 12% 33% Latino 9% 29% Other 1% 9%	Study Design: Prospective comparative cohortStudy Period (begin, end): 1988 (wave 1) 1990 (wave 2) 1992 (wave 3) Place (city, state): U.S. Study Setting: School from 2,988 locales Study Population: 25 8th graders each from 1000 middle schools followed to 3 waves: 16,489 (66%) Analysis:14,358 (57%)25 8th graders each from 1000 middle schools followed to 1992 Inclusion criteria: 8th graders Exclusion criteria: Missing values on violence outcome but missing values on explanatory measures were imputed. Main independent factor(s): Race-ethnicity Community-level measures - Concentrated disadvantage composite index of • % persons with 1989 incomes below poverty threshold • % households headed by	Study Design: Prospective comparative cohort 1988 (wave 1) 1990 (wave 2) 1992 (wave 3) 1992 (wave 4) 1992 (wave 4)	Study Design: Prospective comparative cohort 1988 (wave 1) 1990 (wave 2) 1992 (wave 3) 1992 (wave 4) (wave 4) 1992	Study Design: Prospective comparative cohort 1988 (wave 1) 1992 (wave 3) 1992 (wave 3) 1992 (wave 3) 1994 (wave 2) 1992 (wave 3) 1994 (wave 2) 1995 (wave 3) 1996 (wave 3) 1996 (wave 3) 1996 (wave 3) 1998 (wave 3) 1999 (wave 3)	Study Design: Prospective comparative cohort 1988 (wave 1) 1990 (wave 2) 1990 (wave 3) 1990 (wave	Study Design: Prospective comparative cohort 1988 (wave 1) 1990 (wave 2) 1992 (wave 3) 1992 (wave

Appendix C1: Evidence Table 25: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Study Characteristic Outcome (Violence) Findings

Record # Study Quality

Author Year, Jnl	Group(s) Demographics Sample Size	Risk Factors Studied Inclusion/Exclusion Criteria	Definition and characterization.	Implications					
	1								
11065		Measures of Social Capital		Logistic regression of fi				_	<u>ally)</u>
		• parental interaction with		Variable	1	2	3	4	<u>5</u>
McNulty		other parents (Parents know		Race-Ethnicity					
2003		friends' parents)		White (ref)					
		 parental interaction at 		Asian	.07	.03	02	.01	.01
Justice		school (how often discuss		Am. Indian	.76*	.72*	.73*	.76*	.84**
Quarterly		things with other parents at		Black	.32	.27	.25	.30	.39**
		school)		Latino	.32*	.15	.11	.28*	.17
		 adolescent interaction with 		Other	03	08	11	06	08
		adults (time adolescent spends		Community Context					
Page 2 of		talking or doing things with		% urban	00	00	00	00	
2		parents)		% owner	00	00	00	00	
				% aged 15-24	01	01	01	01	
		Instrument used to measure		Concentrated disadv.	.04**	.03	.03	.03*	
		factors:		Family Well-being					
		Race-ethnicity and		Live with both parents		03	03		04
		individual data: Survey		Family income		00	00		00
		• Community-level measures:		Welfare receipt		.70	.70		.68
		derived from zip code-level		Parents' Education					
		data from 1990 U.S. Census		Less than High School (ref)				
		• Parent well-being data from		High school degree		42**	42**		49**
		parent survey		Some college		44**	43**		46**
		Covariates		College degree		51**	51**		54**
		Individual controls		Professional degree		-1.11**	-1.09**	:	-1.08**
		• Gender		Social Capital					
				Parents Know Friends'	oarents				
		• Moved in the past two years		No parents (ref)					
		• Prior fighting		Some parents			24*	25*	25*
		Perception of fighting		Many parents			26*	29**	26*
		(often/sometimes okay vs.		Adolescent's Interaction	with Adu	lts			
		rarely/never okay to fight)		Rarely/never (ref)					
		• School achievement (grades		Sometimes			28**	28**	29**
		in English, math, history,		Frequently			21*	20*	22*
		science)		Parents' Interaction at So	chool		01	01	01
		 Alcohol/drug use in the past 		Constant	-1.58	-1.20	97	-1.31	-1.13
		30 days		Pseudo R-square	.19	.20	.20	.19	.20
		Community		N		14,358			
		• % housing units owner		Controlled for gender, m	oved. pri			tion okav	to fight.
		occupied		school grades, drug use	, , , , , , , , , , , , , , , , , , ,	8	r ۲		
		• % population in crime-		**p<.01, *p<.05 (two-ta	iled test)				
		prone ages (15-24)		F, P (****)					
		• % urban							

Appendix C1: Evidence Table 26: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings		
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Impl1ications		
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	and characterization.	Imprications		
rear, Jiii	Sample Size	metasion/Exclusion Criteria				
11087	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome		
11007	Prospective comparative	Beginning of Spring, 1995	physical aggression	Objectives were the following:		
O'Leary	cohort, although data is	End of Fall, 1996	physical aggression	1. Examine stability of dating aggre	ession	
O Leary	from an intervention study.	End of Fan, 1990	Definition	2. Determine whether psychologic		ntion at
2003	from an intervention study.	Place (city, state):	Ever threw something at, kicked,	baseline predicted physical aggre		
2003	Study Quality Score:	Seven Suffolk County, NY	bit, hit, or restrained partner.	and followup)	ossion (at o	ascime
J Clinical	Unknown (attrition rate not	Beven Burronk County, 141	or, me, or restrained partitor.	and follow up)		
Child and	reported).	Study Setting: high schools	Instrument used to measure	Correlations between physical aggressi	on and oth	er
Ado-			outcome: mCTS		cal aggress	
lescent		Study Population:	(Modified Conflict Tactics Scale)		w - up T2	
Psych-	Sample size:	Ethnically and racially diverse	,	Variable Boys		
ology	206 (a subset of 2,320	sample of high school students	The following not specified:	Verbal Aggression .45**		
	students included in a	enrolled in a mandatory health	Type, Circumstance/Situational	Jealous Aggression .25*	.21*	
	psychometric study)	education class.	Context, Proactive/Reactive,	Controlling Aggression .41**	.22*	
			Weapon used, adverse health	Verbal Victimization .61**	.43**	
	Age:	Inclusion criteria:	outcome.	Jealous Victimization .39**	.16	
	Boys= $16.51 \text{ years } \pm 0.70$	Student consent and passive		Controlling Victimization .42**	.33**	
	Girls= $16.40 \text{ years } \pm 0.73$	parental consent	Victim-offender relationship	Physical Aggression T1 .55**		
	-	Students reported that they	in a romantic relationship.	Physical Victimization T1 .77**	.67**	
	<u>Gender</u> :	were in the same relationship at		*p<.05; **p<.001.		
	86 boys, 120 girls	baseline and 14-week followup.	Are mechanisms of violence			
		Exclusion criteria:	theorized?	STRUCTURAL EQUATION MODEL		
	Race:	See inclusion criteria.	Yes	Regression Coefficient	(from T1	to T2)
	Boys% Girls%				Boys	<u>Girls</u>
	White: 69.8 59.2	Main independent factors	If yes, state the theory:	Own psych aggression T1→		
	Black: 12.8 17.5	1. Psychological aggression and	The notion of male dominance	Own phys aggression T1	.50**	.58**
	Latino: 7.0 9.2	victimization (verbal, jealous	within a patriarchical marriage	Own phys. aggression T1→		
	Asian: 4.7 3.3	behavior, controlling behavior)	(Dobash & Dobash, 1979)	Own phys. aggression T2	17	.13
	Mixed: 5.8 8.3	2. Physical victimization		Own phys. aggression T1→		
	Other: 0 2.5		The background-situational model	Partner's phys aggression T2	.53**	.54**
		<u>Instrument used to measure</u>	of dating aggression (Riggs &			
		factors:	O'Leary 1989, 1996).	Partner's psych aggression T1→		
		1. Verbal= mCTS		Partner's phys aggression T1	.72**	.61**
		Jealous and controlling		Partner's phys aggression T1→		
		behaviors= Control and Jealous		Own phys aggression T2	.77**	.57**
		scales from the Psychological		Partner's phys aggression T1→		
		Maltreatment of Women		Partner's phys aggression T2	.23	.20
		Inventory				
		2. mCTS				
		Covariates None specified.				
		None specified.				

Appendix C1: Evidence Table 27: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion		
		Criteria		
7453	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
7433	Prospective cohort study	Initial cohort: 1959-1962	Outcome (violence): Criminal violent offending	To evaluate the impact of pre/perinatal disturbances and
Diguero	(from the Collaborative	Follow-up: until age 22	between 7 and 22	disadvantaged familial environment in predicting criminal
Piquero	Perinatal Project (CPP), a	Follow-up: until age 22	between 7 and 22	violent offending.
1999	nationwide study of	Place (city, state):	Definition	
	genetic, biological, and	Philadelphia, PA	Violent/injury offenses:	Prevalence of violent offending
Studies on	environmental influences		•murder	Both sexes Male Female p
Crime and	on child development	Study Setting:	•assault with intent to kill	Number (%) 38 (4.4%) 33 (7.8%) 5 (1.1%) < .001
Crime	(Niswander & Gordon,	Recruited from Pennsylvania	•aggravated assault	
Prevention	1972)	Hospital	•simple assault	Logistic regression predicting violent offending (n-867)
			•rape	<u>Factor</u> <u>β</u> <u>SE</u> <u>p-value</u>
	Study Quality Score:	Study Population:	•robbery with injury	Pre/perinatal disturbances 0.0717 0.3521 ns
	Unsure (attrition rate is High risk inner city sample of		•any other offense that involved	Disadv. familial environ. 0.0918 0.0647 ns
	not clear.)	children born to women who	injury to the victim	Biosocial interaction* 0.2484 0.1293 <0.05
		attended Pennsylvania	injury to the victim	Sex -2.0635 0.4874 <0.05
	Sample size:	Hospital between 1959 and	Instrument used to measure	Constant -0.4489 0.5799 ns
	Original cohort: 2,958	1962	outcome	-2 Log Likelihood 280.585
	Study cohort: 987 (33%)		Official Philadelphia Police	Chi-square/df (p-value) 31.411/4 (<0.05)
	Analysis: 867 (88%)	Inclusion criteria: see above Exclusion criteria:	Department records	*Biosocial interaction modeled as a continuous variable.
	The study cohort was	•Unregistered emergency	Type: see above	Logistic regression of 4 category biosocial interaction on
	taken from the ICPSR	deliveries	Type. see above	violent offending (n=867)
	secondary data analysis	•Women planning to deliver	Circumstance/Situational Context;	<u>Factor</u> <u>β</u> <u>SE</u> <u>p-value</u>
	archive assembled by	elsewhere	Proactive/Reactive; Weapon used;	Biosocial interaction* ns
	Denno (1990).		Victim-offender relationship:	Disadvantaged Pre/perinatal
		Main independent factor(s):	Not specified	<u>familial envir.</u> <u>disturbances</u>
	Age:	Pre/perinatal disturbances	ī	yes no -0.1874 0.5800 ns
	Followed from birth to	•Disadvantaged familial	Adverse Health Outcome:	no yes -0.2076 0.4097 ns
	late adolescence	environment	Not studied	yes yes 0.8874 0.4672 0.057
	Candan	•Biosocial interaction of		Sex -2.048 0.4874 <0.05
	Gender: 425 (49%) male	pre/perinatal disturbances	Are mechanisms of violence	Constant -0.4555 0.6103 ns
	` '	and disadvantaged familial	theorized?	-2 Log Likelihood 281.873
	442 (51%) female	environment	Yes	Chi-square/df (p-value) 30.123/4 (<0.05)
	Race:	<u>Instrument used to measure</u>	Biosocial interaction hypothesis:	*Biosocial interaction modeled as a categorical variable: 0=no
	African Amer: 100%	factors:	Pre/perinatal disturbances, when	in both factors; 1=weak familial environment and no
	Affican Amer. 10070	•PI of Collaborative Perinatal	combined with disadvantaged	pre/perinatal disturbance; 2=pre/perinatal disturbance and no
		Project developed	familial environment at age seven,	weak familial environment, 3=both present. Reference group includes those who did not have a weak familial environment
			increase the chances of criminal	and no pre/perinatal disturbance.
		Covariates	offending during early adulthood.	and no pre/permatar disturbance.
		∙Sex		

Appendix C1: Evidence Table 28: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.	
1029	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
Rivera	Prospective comparative	Initial cohorts: 1967 thru 1971;	Outcome measure	To examine the role of childhood abuse and neglect in
1990	cohort study (a National	Follow-up 1987 and 1988	Violent criminal behavior as	violent offending.
	Institute of Justice funded	Place (city, state):	a juvenile (less than 18 years	
Violence	project)	Midwest	of age)	Percentage of violent offenders
and		Study Setting:		<u>Victimized</u> <u>Controls</u> <u>Chi-sq</u> <u>p-value</u>
Victims	Study Quality Score:	Metropolitan area	<u>Definition</u>	All 4.2 2.8 1.97 ns
	Fair (attrition rate not known)	Study Population:	Arrests for:	Male 6.5 5.4 0.45 ns
[Findings		All cases of physical and sexual	•murder/attempted murder	Female 1.9 0.3 2.79 <0.10
on	Sample size:	abuse and neglect processed in	•manslaughter/involuntary	White 2.0 1.6 0.18 ns
juveniles	Victimized Group: 908	the county juvenile court and	manslaughter/reckless	Black 9.2 5.2 3.09 <0.10
were also	Control Group: 667	matched control children.	homicide	
reported in		Inclusion criteria:	•rape/sodomy	Logistic regression for violent arrest as a juvenile
a later	Description of cohort(s) by	Victimized group:	•robbery/robbery with injury	Factor Coefficent (SE) Coeff greater than 2x SE?
publicatio	age, gender, & race/ethnicity	All cases of physical and sexual	•assault/assault and	Male 1.67 (0.35) yes
n by		abuse and neglect processed in	battery/aggravated assault	Black -1.51 (0.29) yes
Maxfield	Victimzed Group (n=908)	the county juvenile court	•battery/battery with injury	Age (in years) 0.02 (0.04) no
in 1996,	Age Mean/SD 25.69/3.53	Control group:	-battery/battery with highly	Victimized 0.53 (0.29) no
ID#437].	Range 16-32	Children matched to controls	Instrument used to measure	Constant -4.88 (1.27) no
		on sex, race, date of birth, and	outcome	
	Gender 49% Male	hospital of birth or under school	• Juvenile probation	Chronicity of violent offending
		age or class.	department files	Arrests for violent crime (%)
	Race 67% White	Exclusion criteria:	department mes	None One 2 or more Chi-sq p-value
	31% Black	Victimized group:	Type,	Victimized 95.8 3.0 1.2 5.86 0.053
		Children who were not less	Circumstance/Situational	Controls 97.2 2.7 0.1
	Control Group (n=667)	than 11 years of age at the time	Context, Proactive/Reactive,	
	Age Mean/SD 25.76/3.53	of abuse or neglect	Weapon used, and Victim-	
	Range 16-33	Control Group:	offender relationship:	
		Any evidence that the child had	Not specified	
	Gender Not specified	been abused or neglected	The specifica	

Adverse Health Outcome:

Are mechanisms of violence

Not studied

theorized?

No

("equal numbers of males

35% Black

and females")

Race 65% White

Main independent factor(s):

Physical abuse, sexual abuse,

Instrument used to measure

Juvenile court and juvenile

probation department files

Other risk factors

and neglect

factors:

Sex Race Appendix C1: Evidence Table 29: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

| Study Characteristic | Outcome (Violence) | Findings |

Risk Factors Studied | Definition and

Implications

Record #

Author

Study Quality

Group(s)

T 7 T 1	Group(s)	Kisk Factors Studied	Definition and	Implications				
Year, Jnl	Demographics	Inclusion/Exclusion	characterization.					
	Sample Size	Criteria						
				_				
7662	Study Design:	Study Period (begin,	Outcome (violence):	To test an integra	ated theory of ille	egal behavior for n	on-profitable illeş	gal violent
	Prospective, cohort	<u>end):</u>	Outcome measure	behavior.				
Roitberg	study (taken from	1976-1980	Felony assault scale, 2	Standardized reg	gression coefficier	nts for FREQUEN	CY of felony assa	ult:
_	the first 5 years of		measures:	•Model 1 (no time	e-lagged endogeno	ous variable)	•	
1995	the National Youth	Place (city, state):	 annual frequency 	`	1977	1978	1979	1980
	Survey (NYS))	United States	• prevalence during	Factor	β p-val	β p-val	β p-val	β p-val
Studies on	-		year (yes or no)	DPGB	0.323 le 0.01	0.232 le 0.01	0.415 le 0.01	0.260 le 0.01
Crime and	Study Quality	Study Setting:		Belief	0.072 le 0.05	-0.080 le 0.01	0.057 ns	-0.051 ns
Crime	Score: Unsure	Household-based	Definition	Family involve.	-0.045 ns	0.007 ns	-0.009 ns	-0.008 ns
Prevention	•Poor if		•Aggravated assault	School involve.	0.035 ns	-0.030 ns	-0.047 ns	0.055 ns
	participation rate is	Study Population:	•Gang fighting	Family normless.		-0.027 ns	-0.101 le 0.01	-0.017 ns
	considered.	American youths aged	•Sexual assault	School normless		0.046 ns	0.103 le 0.01	-0.011 ns
Page 1 of	•Good if	11-17 in 1976	•Sexual assault	School strain (-)	-0.049 ns	-0.087 le 0.01	-0.041 ns	-0.042 ns
2	participation rate is		Instrument used to	Job strain (-)	0.018 ns	-0.004 ns	-0.005 ns	0.004 ns
_	not considered.	Inclusion criteria:		Rural residence	-0.023 ns	-0.033 ns	-0.040 ns	-0.035 ns
	not considered.	Unmarried	measure outcome	SES (high)	-0.023 hs	-0.037 ns	-0.040 ns	-0.036 ns
	Sample size:	Cimiarroa	National Youth		-0.078 ic 0.01	0.079 ns	0.055 ns	0.050 ns
	Initial 1725	Exclusion criteria:	Survey	Avg parity	-0.029 ns	0.073 ns	0.033 ns	-0.014 ns
	(75% of original)	None		Gender (female)		-0.082 le 0.01	-0.040 ns	-0.014 hs
	Actual 1494	Tronc	Type: see above	Race (nonwhite)		0.024 ns	0.084 le 0.01	0.011 ns
	(87% of initial)	Main independent	G	Race (nonwinte)	0.046 118	0.024 118	0.064 16 0.01	0.011 118
	(87 % Of fillitial)	factor(s): Measured at	Circumstance/Situatio	• Model 2 (with th	a tima lagged and	o como vo voni obla)		
		or prior to outcome:	nal Context;	•Model 2 (with th	e time-lagged end 1977	1978	1979	1000
	Age:	•Delinquent peer	Proactive/Reactive;	T				1980
	Mean Not specified	group bonding	Weapon used;	Factor DPGB	β p-val	$\frac{\beta \text{p-val}}{0.172 \text{ le } 0.01}$	β p-val	β p-val
	Baseline:	(DPGB)	<u>Victim-offender</u>	_	0.289 le 0.01		0.371 le 0.01	0.175 le 0.01
	Range11-17	•Belief that it is wrong	relationship:	Belief	0.098 le 0.05	-0.022 ns	0.077 le 0.05	0.012 ns
	Outcome:	to violate the law	Not specified	Family involv.	-0.039 ns	-0.013 ns	0.008 ns	-0.004 ns
	Range 15-21			School involv.	0.050 le 0.05	-0.009 ns	-0.046 ns	-0.001 ns
	Kange 13-21	•Family involvement	Adverse Health	Family normless		-0.018 ns	-0.089 le 0.01	0.031 ns
		•School involvement	Outcome:	School normless		0.032 ns	0.062 ns	-0.046 ns
	Candan	•Family normlessness	Not studied	School strain (-)	-0.018 ns	-0.053 ns	-0.019 ns	0.008 ns
	Gender:	 School normlessness 		Job strain (-)	0.016 ns	0.000 ns	-0.001 ns	-0.004 ns
	Not specified	 Occupational strain 		Rural residence	0.006 ns	-0.022 ns	-0.039 ns	0.007 ns
	Danes	 School strain 		SES (high)	-0.059 le 0.05	-0.010 ns	-0.022 ns	-0.038 ns
	Race:	∙Sex		Age-15	-0.038 ns	0.096 ns	0.021 ns	0.016 ns
	Not specified	∙Age		Avg parity	-0.022 ns	0.077 ns	0.002 ns	-0.022 ns
				Gender (female)	-0.060 le 0.01	-0.049 le 0.05	-0.016 ns	-0.052 ns
				Race (nonwhite)	0.040 ns	0.004 ns	0.074 le 0.01	0.047 ns
		<u>Continued</u>	<u>Continued</u>	Prior offending	0.328 le 0.01	0.411 le 0.01	0.342 le 0.01	0.511 le 0.01
				Continued				

Appendix C1: Evidence Table 29: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings				
Author	Group(s)	Risk Factors Studied	Definition and	Implications				
		Inclusion/Exclusion	characterization.	Implications				
Year, Jnl	Demographics		characterization.					
	Sample Size	Criteria						
Г <u>_</u>	T		1	T				
7662		•Race	Are mechanisms of				NCE of felony ass	<u>sault</u>
		•Parents'	violence theorized?	•Model 1 (no time	e-lagged endogeno	,		
Roitberg		socioeconomic status	Yes		1977	1978	1979	1980
		Average parity,	If yes, state the theory:	<u>Factor</u>	<u>β</u> p-val	<u>β p-val</u>	<u>β p-val</u>	<u>β p-val</u>
1995		family size at time of	Integrated theory:	DPGB	0.304 le 0.01	0.220 le 0.01	0.361 le 0.01	0.256 le 0.01
~		birth	•Social and	Belief	0.078 ns	-0.150 le 0.01	0.028 ns	-0.128 ns
Studies on		Urban, suburban, or	demographic	Family involv.	-0.109 le 0.05	-0.030 ns	-0.042 ns	-0.071 ns
Crime and		rural residence	background variables	School involv.	0.077 ns	-0.101 ns	-0.161 le 0.05	-0.106 ns
Crime			influence perceived	Family normless		0.010 ns	-0.167 ns	-0.087 ns
Prevention		Instrument used to	and objective	School normless	0.050 ns	0.051 ns	0.252 le 0.01	0.093 ns
		measure factors:	opportunities to attain	School strain (-)	-0.164 le 0.01	-0.153 le 0.01	-0.109 ns	-0.122 ns
Page 2 of		National Youth	academic,	Job strain (-)	0.016 ns	0.034 ns	0.008 ns	0.010 ns
2		Survey	occupational and other	Rural residence	-0.081 ns	-0.026 ns	-0.039 ns	-0.082 ns
			goals, and may be	SES (high)	-0.183 le 0.01	-0.138 le 0.05	-0.074 ns	0.000 ns
		<u>Covariates</u>	associated with	Age-15	-0.007 ns	0.168 ns	0.288 ns	0.093 ns
		None	differences in	Avg parity	-0.120 ns	0.138 ns	0.190 ns	-0.032 ns
			socialization.	Gender (female)		-0.235 le 0.01	-0.150 le 0.05	-0.224 le 0.01
			•Combines elements	Race (nonwhite)	0.070 ns	0.053 ns	0.161 le 0.01	0.065 ns
			of strain, social					
			control, and social	•Model 2 (with the	e time-lagged end			
			learning theories.		1977	1978	1979	1980
			•Delinquent peer	Factor	<u>β p-val</u>	β p-val	<u>β p-val</u>	β p-val
			group bonding leads to	DPGB	0.301 le 0.01	0.189 le 0.01	0.391 le 0.01	0.224 le 0.01
			illegal behavior.	Belief	0.121 le 0.05	-0.101 ns	0.012 le 0.05	-0.053 ns
				Family involv	-0.102 ns	-0.055 ns	0.004 ns	-0.067 ns
				School involv	0.112 le 0.05	-0.067 ns	-0.169 le 0.05	0.011 ns
				Family normless	0.061 ns	-0.007 ns	-0.157 ns	-0.066 ns
				School normless	-0.008 ns	0.035 ns	0.196 le 0.05	-0.011 ns
				School strain (-)	-0.126 le 0.05	-0.166 ns	-0.058 ns	-0.066 ns
				Job strain (-)	0.015 ns	0.033 ns	0.025 ns	-0.002 ns
				Rural residence	-0.043 ns	-0.001 ns	-0.056 ns	-0.058 ns
				SES (high)	-0.192 le 0.01	-0.083 ns	-0.046 ns	-0.000 ns
				Age-15	-0.022 ns	0.234 ns	0.282 ns	-0.004 ns
				Avg parity	-0.072 ns	0.244 ns	0.160 ns	-0.097 ns
				Gender (female)	-0.209 le 0.01	-0.184 le 0.01	-0.090 ns	-0.221 le 0.01
				Race (nonwhite)	0.071 ns	0.018 ns	0.144 le 0.05	-0.017 ns
				Prior offending	0.486 le 0.01	0.656 le 0.01	0.414 le 0.01	0.613 le 0.01
1								

Appendix C1: Evidence Table 30: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Outcome (Violence) Definition and

Findings

Study Characteristic

Record #

Study Quality

Kecoru #	Study Quanty	B' LE 4 Gt l' 1	Outcome (violence) Deminion and	Findings			
Author	Group(s) Demographics	Risk Factors Studied	characterization.	Implications			
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria					
				T			
395	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome			
	Prospective Cohort Study	Used data collected in 1990	Outcome measure	To examine the risk and p			
Saner	(Rand's California and	Place (city, state):	Violent behavior in the past year: Any	different types of violent b			
	Oregon Study - 6 year	California and Oregon	violence, persistent hitting, and	high school age adolescen	ts drawı	n from th	e general
1996	followup study)	Study Setting:	predatory violence	population.			
		Junior high and middle schools					
J Adoles	Study Quality Score:	Study Population:	<u>Definition</u>	Odds Ratio from Logistic	Regress	sion for P	<u>'ersistent</u>
Health	Poor (retention <80%)	High school seniors and high	Any violence is equal to one if any (or	<u>Hitting</u>			
		school dropouts.	all) of these violent behavior: 1) gang				
	Sample size:	Inclusion/Exclusion Criteria: Not	fights,	Risk Factor	Total	Male	Female
	4,586 (70% of the baseline	specified	2) use of force or strong arm methods	Demographic			
	sample)	Main independent factor(s):	to things from people,	Male gender	1.6*		
		Demographic risk factors <u>:</u>	3) carry a hidden weapon	Disrupted family	1.0	0.8	1.4*
	Description of cohort(s) by	• Gender	4) attack someone with the idea of				
	age, gender, &	Disrupted family status	seriously to hurt or kill,	Negative life events			
	race/ethnicity	Limited income	5) hit or threaten to hit someone in	Recent separation/divorce	1.0	1.0	1.0
		Low socioeconomic status	family, and	Death of parent	1.2	1.6	0.9
	Age: Not specified	Parent's educational level	6) hit or threaten to hit someone not	Lost job	1.3*	1.2	1.5*
	Risk factors measured from	High mobility	in your family.				
	7 - 12 grades;	Negative life events to parent(s) in	Persistent hitting is defined as hitting	Behavioral risk factors			
	Outcome measured at 12	past 2 years:	family members or acquaintances	Nonviolent felony	1.9*	1.8*	2.3*
	grades.	Separated/divorced	three or more times in the past year.	Minor delinquency	2.3*	2.3*	2.4*
		• Death	Predatory violence is defined as	Drug selling	2.2*	2.1*	2.8*
	Gender:		involvement in gang fights, the use of	Problem drug use	1.1	1.3*	0.9
	2476 (54%) female	• Lost job 2 or more months	strong arm methods, carrying a hidden	Early drug use	1.1*	1.2*	1.1
	2110 (46%) male	Behavior risk factors:	weapon, and attacking with intent to	Full time work	1.3*	1.6*	1.0
		Involvement with drugs	hurt or kill.				
	Race: 71% white	Dropping out of school		Environmental			
	8% African-	Nonviolent felony offenses	Type	Drug use by friends	1.2	1.1	1.4*
	American	Minor delinquency	Gang fight, other serious injury or	Drug use by parents	1.3*	1.3	1.4*
	9% Hispanic	Environmental risk factors or	harm	Low academic orientation	1.3*	1.2	1.5*
	9% Asian	institutional bonds:	Circumstance/Situational Context,	Low religiosity	1.0	1.3	0.7*
	the rest as	 High perceived drug use by 	Proactive/Reactive; Weapon used;	Low parental support	1.6*	1.3*	2.1*
	multiethnic or	parents or friends	Victim-offender relationship:	Low peer support	0.9	0.8	1.0
	Indian	Negative academic orientation	Not specified				
		Low religiosity	Adverse Health Outcome:	* significant at p<0.05			
		Low parental affection	Not specified				
		• Little sense of peer	Are mechanisms of violence	[Only the findings for Pers	sistent F	Hitting are	e reported
		connectedness	theorized?	here. Other violence indic			
		Instruments:	No	behaviors].			
		Investigator-developed					
		in this guid de totoped					

Appendix C1: Evidence Table 31: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Author	Group(s) Demographics	Risk Factors Studied	Definition and	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	characterization.	•
,	•			
7870	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
	Prospective Cohort Study	Baseline: Spring 1989	Dating violence in waves 4	The objective of this study was to assess the influence of
Simons	(part of study of family	Follow-up: yearly for 5 years	and 5	corporal punishment and witnessing parental marital violence,
	stress and coping in Iowa)	Place (city, state):	<u>Definition</u>	and the protective effects of involved supportive parenting, on
1998		8 counties in North Central Iowa	"When you have a	the development of delinquent or antisocial behaviors and
	Study Quality Score:		disagreement with your	dating violence of adolescent boys.
J Marriage	Poor	Study Setting:	girlfriend, how often do you	
and the	(attrition rate>20%)	Private and public schools	hit, push, grab or shove her."	Correlation with Dating Violence (n=113)
Family			Instrument used to measure	<u>R p</u>
	Sample size:	Study Population:	<u>outcome</u>	Involved/Supportive Parenting -0.06 ns
	Boys & parents:	7 th grade boys with 2-parent	Conflict Tactics Scale	Corporal Punishment 0.12 ns
	Wave 1: 205	families from private and public		Marital violence -0.01 ns
	All 5 waves: 163 (79.5%)	schools who have been dating.	Type: Dating violence	Delinquent behavior 0.28 <=0.05
	Analysis: 113 of 163 who	<u>Inclusion criteria:</u> See above	Circumstance/Situational	Results of Structural Equation Modeling (γ)
	have been dating		Context; Proactive/Reactive	
		Exclusion criteria:	Weapon used: not specified	Involved/supportive parenting→Delinquent behavior:-0.19
		Not dating		Delinquent behavior→Dating violence: 0.28 (p<=0.05)
	Description of cohort(s) by		<u>Victim-offender relationship</u>	Corporal punishment Dating violence: 0.20 (p<=0.05)
	age, gender, &	Main independent factor(s):	Girlfriend-boyfriend	
	race/ethnicity	Measured in waves 1, 2, and 3		
		• Use of Corporal punishment	Adverse Health Outcome:	
	Age: Seventh grade boys	Marital violence	Not studied.	Although frequent exposure to corporal punishment increased
	followed annually for five	 Involved supportive parenting 		the risk of dating violence, this was not the case for interparental
	years	 Delinquent behavior of youth 	Are mechanisms of violence	aggression, which did not predict dating violence. Low support
		Dating violence	theorized?	and involvement by parents was associated with adolescent
	Gender All male		Yes	delinquency and drug use, which, in turn, predicted involvement
		Instrument used to measure	There is a discussion of	in dating violence. Neither family income nor parents' level of
	Race: white	factors:	competing theories regarding	education was related to delinquent behavior or dating violence.
		Conflict Tactics Scale	dating violence:	
		• Delinquency inventory adapted	1) Imitation	
		from National Youth Survey	2) Broader modeling	
		Questions standardized for	3) Social Learning Theory is	
		mothers and fathers	used to explain 1 or 2.	
			4) Dating violence as an	
		Covariates	expression of a more general	
		• Reside in small towns or farms	antisocial pattern of behavior	
		• SES	and orientation arising from	
		Parental educational level	ineffective parenting practices.	

• Parental age

• Parental educational level

Appendix C1: Evidence Table 32: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome Study Characteristic Outcome (Violence) Definition and Findings

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition and	Findings
Author	Group(s) Demographics	Risk Factors Studied	characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion		
1 001, 0111		Criteria		
		1 01100110		
4495	Study Design:	Study Period (begin, end):	Outcome (violence):	Violence Outcome
	Prospective Cohort Study	Not specified	Outcome measure	This study addressed whether substantiated
Stouthamer	(Pittsburgh Youth Study).	Place (city, state):	Overt pathway:	maltreatment, and its timing, was related to disruptive
-Loeber		Allegheny County,	Physical fighting (physical fighting,	behaviors and delinquency in the triple pathways.
	Study Quality Score:	Pittsburgh, PA	gang fighting)	One of the 3 pathways is the Overt pathway which
2001	Element score:	Study Setting: A community	• Violence (rape, attack, strongarm)	goes from minor aggression to physical fighting to
	Domain score:	setting	Age of onset of disruptive and	violence. We report here the findings related to the
Develop-		Study Population:	delinquent behavior	Overt pathway.
ment and	Actual sample size:	Two groups of 7 th grade male	1	
Psycho-	500 (250 risky* and 250	students: Non-risk group -	Definition: see above	Mal- Control Odds Ratio
pathology	non-risky). (Average	boys with no such behavior.		Overt Pathway treated(%) (%) (CI)
	attrition rate is 7.8%, range	Inclusion/exclusion criteria:	Sources:	
	from 0 to 12.5%)	see above	Juvenile court records	Aggression 67.2 46.7 2.34(1.23-4.44)
		Main independent factor(s):	Instruments	Fighting 77.0 42.6 4.52(2.25-9.09)
	[Number of cases who	Severity of maltreatment	Child Behavior Checklist	Violence 50.8 34.4 1.97(1.05-3.68)
	were maltreated and	from birth or enrollment to	(Achenbach)	Any overt
	number of controls were	age 18 (based on the	Diagnostic Schedule for Children	pathway step 91.8 70.5 4.69(1.74-12.66)
	not specified. 2 controls	Maltreatment Classification	Self-Reported Delinquency interview	
	were matched for each	System by Cicchetti et al.).	Youth Self-Report (Achenbach)	
	victim].	Each type is rated on a 5-	Type	Number of cases or controls not given.
	*Risk group consisted of	point scale:	Physical fighting, violence	
	boys who had already	 physical abuse 	Circumstance/Situational Context;	
	demonstrated some	 sexual abuse 	Proactive/Reactive; Weapon used; Victim-	
	disruptive behavior (at	• failure to provide-	offender relationship; Not specified	
	least three antisocial or	physical neglect	oriender relationship, 1 (or specified	
	delinquent behaviors	lack of supervision	Adverse Health Outcome:	
		physical neglect	Not studied	
	Description of cohort(s) by	emotional maltreatment	Thor stadied	
	age, gender, &	moral-legal maltreatment	Are mechanisms of violence theorized?	
	race/ethnicity	educational maltreatment	Yes - The dsiiruptive-delinquent pathways.	
		incorrigibility	The steps in the "authority conflict	
	Overall:	Sources:	pathway applies to boys up to age 12	
	Age(M): 13.8 at first	• Children and Youth	years, because after that age truancy	
	follow-up	Services records	becomes more common. Because most	
	Gender: 100% male	Services records	maltreatment happens in the home, one	
	African-American: 57.5%		could expect that conflict with authority	
	White: 42.5%		figures is likely to happen. Another	
			hypothesis is that the threat of	
			maltreatment reduces authority conflict.	

Appendix C1: Evidence Table 33: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome **Study Characteristic Outcome (Violence) Definition** Findings

Record #

Study Quality

Record #	Study Quanty	Study Characteristic	Outcome (violence) Definition	rinuligs				
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications				
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria						
8011	Study Design:	Study Period (begin, end):	Outcome (violence):	Postulate that parents	recognitio	n of boys	' behavio	or problems
	Prospective Cohort Study (8	Not stated here.	4 outcome groups based on	often is a first step tov	ards curta	iling a del	linquent o	career. The
Stout-	waves of assessments from	[The Pittsburgh Youth Study	presence of outcome in at least 2	second step is for pare	nts to enga	ge profes	sional he	lp for their
hamer-	the oldest sample of the	began in 1987]	assessments over 5 years:	child. This paper focu	ses on pare	nts' recog	gnition of	early
Loeber	Pittsburgh Youth Study)	Place (city, state):	1. persistent serious violent	behavior problems in	hose boys	who ever	tually be	come
		Pittsburgh	offender (PVO)	persistent serious delinquent and second whether these youth				
2002	Study Quality Score:	Study Setting: Public schools	2. Persistent serious property	received professional	help.			
	Good		offender (PPO)					
Criminal		Study Population:	3. Persistent non-serious offender	1. Prevalence of Out	come Grou	ıps in Saı	mple	
Behavior	Sample size:	Random sample of 7 th grade	(PNO)	Tota		PNO	PPO	PVO
and	Original: 506	boys enrolled in the City of	4. Non-delinquent group (ND)	Percent 100	% 40.4	19.9	18.2	21.4
Mental	Analysis: 470 (93%)	Pittsburgh public schools in		Estimated n 470	190	94	86	100
Health		1987-1988	<u>Definition</u>					
	Description of cohort(s) by		Serious violent crimes include	2. % with Disruptive	behavior	Diagnosi	s at age 1	13.5
	age, gender, &	Inclusion criteria: See above	attack to seriously hurt or kill,		ND	PNO	PPO	PVO
	race/ethnicity	Exclusion criteria:	strong-arm, gang-fight, and rape.	Estimated from Fig 3				
		Not specified		Percent	10.1	19.0	21.0	27.7
	Age 13 years at beginning		<u>Instrument used to measure</u>	Number	19	18	18	28
	of studyfollowed to age 18	Main independent factor(s):	<u>outcome</u>					
		3 types of disruptive behavior:	Self Reported Delinquency	Chi square for ND vs.				
	Gender: males	ADD - attention	Questionnaire	Chi square for ND vs				
		deficit/hyperactivity disorder	 Archenbach Youth Self-Report 	Chi square for ND vs	PNO: 4.1	3 (p<.05)	<u>)</u>	
	Race: not specified in this	• ODD - oppositional defiant	 Child Behavior Checklist 					
	article.	disorder	<u>Type</u> : see above					
	From #4834: African-	• CD - conduct disorder	Circumstance/Situational Context					
	american 47.5%		Proactive/Reactive					
	Remainder described as	Instrument used to measure	Weapon used					
	"almost all white."	<u>factors:</u>	Victim-offender relationship					
		Diagnostic Interview Schedule	Not specified					
		for Children (Costello, 1986)						
			Adverse Health Outcome:					
		<u>Covariates</u>	Not studied					
		none	Are mechanisms of violence					
			theorized?					
			No					

Appendix C1: Evidence Table 34: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

AuthorGroup DemographicsRisk FactorsDefinition and characterization.ImplicationsYear, JnlSample SizeInclusion/Exclusion Criteriacharacterization.	Record #	Study Quality	Study Characteristic	Outcome (Violence)	Findings
Year, Jnl Sample Size Inclusion/Exclusion Criteria characterization.	Author	Group Demographics	Risk Factors	Definition and	Implications
	Year, Jnl		Inclusion/Exclusion Criteria	characterization.	

Prospective Cohort Study (Waves 1 and 2 of the Buffalo 1998 Longitudinal Study of Young Men (BLSYM) J Substance Abuse Good if retention rate only is considered; Poor if participation and retention rates are considered. Sample size: Sample size: Wave 1: 625 (448 delinquent; 117 non-delinquent) Inclusion criteria: Study (Waves 1 and 2 of the Buffalo Wave 2- 18 months later Violent Offending (constructed from the National Youth Survey (Elliott et al., 1985) Race Violent Offending (constructed from the National Youth Survey (Elliott et al., 1985) Pack (city, state): Buffalo, NY Definition Total # of times in past year committing: robbery, rape, gang fights, simple and aggravated assault. Trail making wave aggravated assault. Trail making wave adolescents (3 or more items adolescents (3 or more items adolescents (3 or more items and survey (Elliott et al., 1985) Race Violent Offending (constructed from the National Youth Survey (Elliott et al., 1985) Positive (Entorion agang fights, simple and aggravated assault. Trail making wave adolescents (3 or more items and survey (Elliott et al., 1985) Race Violent Offending (constructed from the National Youth Survey (Elliott et al., 1985) Trail making wave Violent Offending (constructed from the National Youth Survey (Elliott et al., 1985) Trail making wave Violent Offending (constructed from the National Pount Trail making wave Violent Offending (constructed from the National Pount Trail making wave Violent Offending (constructed from the National Pount Trail making wave Violent Offending (constructed from the National Pount Trail making wave Violent Offending (constructed from the National Pount	g wave 1 tion wave 1 s e wave 2 e 2 tion wave 2	df F 1 1.6 1 3.1 1 31. 1 3.5 1 1.8 1 18.	0.080 1 <0.0001
of the Buffalo Longitudinal Study of Young Men (BLSYM) J Substance Abuse Study Quality Score: Good if retention rate only is considered, Poor if participation and retention rates are considered. Sample size: Wave 2- 18 months later Place (city, state): Buffalo, NY Study Setting: Private interview rooms at the Research Insitute on Addictions Males 16-19 with over-sampling of delinquent adolescents (3 or more items answered in the delinquent Wave 1: 625 (448 delinquent; 117 Of the Buffalo Longitudinal Study of Young Men (BLSYM) NY Study Setting: Private interview rooms at the Research Insitute on Addictions Study Population: Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction) Inclusion criteria: see above Males 16-19 with over-sampling of delinquent direction of the National Survey (Elliotte tal., 1985) Not all # of times in past year committing: robbery, rape, gang fights, simple and aggravated assault. Type: See above Weapon used: Victim-offender value of times in past year c	g wave 1 tion wave 1 see wave 2 e 2 tion wave 2	1 1.6 1 3.1 1 31. 1 3.5 1 1.8	0.200 0.080 1 <0.0001
Longitudinal Study of Young Men (BLSYM)	g wave 1 tion wave 1 see wave 2 e 2 tion wave 2	1 3.1 1 31. 1 3.5 1 1.8	0.080 1 <0.0001
Young Men (BLSYM) J Substance Abuse Study Quality Score: Abuse Study Quality Score: Abuse Study Quality Score: Addictions Poor if participation and retention rates are considered. Study Population: Addictions Study Population: Addictions Study Population: Addictions Study Population: Addictions Addictions Study Population: Addictions Addictions Study Population: Addictions Addictions Study Population: Addictions Addictions Type: See above Circumstance/Situational Context; Proactive/Reactive: Weapon used; Victim-offender Wave 1: 625 (448 delinquent; 117 Inclusion criteria: see above Not studies Violent Offending Alcohol consumption Alcohol consumption Committing: robbery, rape, gang fights, simple and aggravated assault. Trail making wave Alcohol consumption Circumstance/Situational Context; Proactive/Reactive: Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Trail making wave	tion wave 1 s re wave 2 e 2 tion wave 2	1 3.1 1 31. 1 3.5 1 1.8	0.080 1 <0.0001
Substance Abuse Study Quality Score: Abuse Good if retention rate only is considered; Poor if participation and retention rates are considered. Males 16-19 with over-considered. Sample size: Wave 1: 625 (448 delinquent; 117 Study Setting: Private interview rooms at the Research Insitute on private interview rooms at the Research Insitute on gang fights, simple and aggravated assault. Total # of times in past year committing: robbery, rape, gang fights, simple and aggravated assault. Trail making wave aggravated assault. Trail making wave Circumstance/Situational Context; Proactive/Reactive: Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Alcohol consumptor Circumstance/Situational Race by alcohol consumptor relationship: Not specified Adverse Health Outcome: Not studies Total # of times in past year committing: robbery, rape, gang fights, simple and aggravated assault. Verbal Intelligence wave 2 Verbal Intelligence alcohol consumptor relationship: Not specified Adverse Health Outcome: Not studies Trail making wave	tion wave 1 s re wave 2 e 2 tion wave 2	1 31. 1 3.5 1 1.8	1 <0.0001
Substance Abuse Study Quality Score: Good if retention rate only is considered; Poor if participation and retention rates are considered. Sample size: Wave 1: 625 (448 delinquent; 117 Private interview rooms at the Research Insitute on Addictions and the Research Insitute on Addictions agang fights, simple and aggravated assault. Study Population: Addictions aggravated assault. Type: See above Circumstance/Situational Context; Proactive/Reactive; Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence adolescents (3 or more items and aggravated assault. Study Population: Trail making wave Verbal Intelligence adolescents (3 or more items answered in the delinquent direction) Sample size: Adverse Health Outcome: Not studies Trail making wave Verbal Intelligence adolescents (3 or more items answered in the delinquent alcohol consumption. Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Study Population: Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Study Population: Trail making wave Verbal Intelligence aggravated assault. Study Population: Trail making wave Verbal Intelligence aggravated assault. Study Population: Trail making wave Verbal Intelligence aggravated assault. Study Population: Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Not studies Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Trail making wave Verbal Intelligence aggravated assault. Trail making verbal intelligence aggravated assault. Not studies Tr	s e wave 2 e 2 tion wave 2	1 3.5 1 1.8	
Abuse Good if retention rate only is considered; Poor if participation and retention rates are considered. Sample size: Sample size: Wave 1: 625 (448 delinquent; 117 Research Insitute on Addictions aggravated assault. Research Insitute on aggravated assault. Study Population: Type: See above Alcohol consumpt Circumstance/Situational Context; Proactive/Reactive; Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Research Insitute on aggravated assault. Trail making wave aggravated assault. Trail making wave Circumstance/Situational Context; Proactive/Reactive; Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Trail making wave 2 Verbal Intelligence aggravated assault. Trail making wave 2 Verbal Intelligence aggravated assault. Alcohol consumptions adolescents (3 or more items adolescents (3 or more items adolescents (448 delinquent; 117	e 2 tion wave 2	1 1.8	0.062
only is considered; Poor if participation and retention rates are considered. Sudy Population: Males 16-19 with over-considered. Sample size: Wave 1: 625 (448 delinquent; 117 Addictions Study Population: Males 16-19 with over-considered. Study Population: Males 16-19 with over-considered. Sampling of delinquent adolescents (3 or more items answered in the delinquent direction) Males 16-19 with over-considered. Sample size: Addictions Trail making wave Alcohol consumption Context; Proactive/Reactive: Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Trail making wave Alcohol consumption Race by alcohol consumption Adverse Health Outcome: Not studies Trail making wave	e 2 tion wave 2	1 1.8	
Poor if participation and retention rates are considered. Males 16-19 with over-sampling of delinquent adolescents (3 or more items Wave 1: 625 (448 delinquent; 117) Study Population: Males 16-19 with over-sampling of delinquent adolescents (3 or more items direction) Sample size: Wave 1: 625 (448 delinquent; 117) Study Population: Males 16-19 with over-Situational Context; Proactive/Reactive: Weapon used; Victim-offender relationship: Not specified Adverse Health Outcome: Not studies Alcohol consumption interactions Race by alcohol consumption adolescents (3 or more items adolescents) Not studies Type: See above Circumstance/Situational Interactions Race by alcohol consumption adolescents (3 or more items adolescents) Not studies Trail making wave	tion wave 2	1 18	
and retention rates are considered. Males 16-19 with oversampling of delinquent adolescents (3 or more items Wave 1: 625 (448 delinquent; 117 Males 16-19 with oversampling of delinquent adolescents (3 or more items answered in the delinquent direction) Males 16-19 with oversampling of delinquent adolescents (3 or more items answered in the delinquent direction) Males 16-19 with oversampling of delinquent adolescents (3 or more items adolescents (448 delinquent; 117 Males 16-19 with oversampling of delinquent adolescents (3 or more items adolescents (3 or more items adolescents (448 delinquent adolescents (448 delinque		1 10.	0 <0.0001
adolescents (3 or more items Sample size: wave 1: 625 (448 delinquent; 117 adolescents (3 or more items answered in the delinquent direction) adolescents (3 or more items answered in the delinquent direction) Adverse Health Outcome: Not studies Weapon used; Victim-offender relationship: Not specified alcohol consumption			
Sample size:answered in the delinquentrelationship: Not specifiedVerbal IntelligenceWave 1: 625direction)Adverse Health Outcome:alcohol consumption(448 delinquent; 117Inclusion criteria: see aboveNot studiesTrail making wave	onsumption	1 11.	8 0.001
Wave 1: 625 direction) (448 delinquent; 117 Inclusion criteria: see above (448 delinquent) Adverse Health Outcome: Not studies Trail making wave	-		
(448 delinquent; 117 <u>Inclusion criteria:</u> see above Not studies Trail making wave	e wave 2 by	1 17.	7 < 0.0001
	ion wave 2		
non delinquent) Evaluation criteria: Are machanisms of violence consumption ways	e 2 by alcohol	1 5.9	0.016
	e 2		
Wave 2: 596 (95%) • Not English speaking theorized?			
• Gravely ill Yes Violent crimes in p			wn by alcohol
Not able to communicate Heavy drinking and lower consumption and services to the			
	Vave 2 mean	Verbal	Wave 2 mean
	iolent crimes	Intelligence	
race/ethnicity (from quantity and suggests alcohol causes violent (ounces per day) in		(high to low	
frequency for 6 forms of behavior by reducing 0.0	5	1	3
Age range: 16-19 years alcohol) intellectual functioning and 0.01-0.1	2	2	3
• Verbal intelligence (by promoting misunderstanding. 0.1-0.2	2 7	3	43
		4	14
• Visual-motor intelligence Left-hemisphere dysfunction 0.4-0.8	2	5	5
Race hy Trail Making Test interferes with linguistic 0.8-1.2 2		6	21
White 49% Forms A and B) processing and may be causal 1.2-2.1	7	7	2
Af. Am 45% to violence in that poorer 2.1-3.9		8	8
Other 6% communication contributes to 3.9-20.5	6	9	18
Covariates the mis-interpretation of events		10	65
Violent offending at baseline and motives. Moffit and Henry Overall 1	7	Overall	17
(1989) have a competing theory Results:			
linked with alcohol reducing Alcohol use in way			
inhibitions. Persons under the in wave 2. Race do			
influence of alcohol and with marginally signification			
low intelligence would have offending. Heavier	drinking man	tand to be more	1 1 77 1
weaker self-restraint. offending is far hig			

Appendix C1: Evidence Table 35: Risk Factors Contributing to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Study Characteristic	Outcome (Violence) Definition	Findings
Author	Group(s) Demographics	Risk Factors Studied	and characterization.	Implications
Year, Jnl	Sample Size	Inclusion/Exclusion Criteria	and characterization.	Implications
rcar, sin	Sample Size	Inclusion/Exclusion Criteria	<u> </u>	
9447	Study Design:	Study Period:	Outcome (violence):	Violence Outcome
7447	Prospective cohort study	1987-1992	Serious violence during the study	To examine developmental trends in delinquent attitudes
Zhang	(Pittsburgh Youth Study -	1907-1992	period.	and behaviors for the Oldest sample (Grade 7 at study start)
Zhang	4 year follow-up of 3	Place (city, state):	period.	(n≈500)
1997	school-grade cohorts	Pittsburgh, PA	Definition	(n≈500)
1997	(grades 1, 4 and 7) (6-12	rittsburgh, rA		Odda Datica (v. reduce) for Dairriga Attituda Daharian
LOughtitet		Study Satting	•Severely attacking or hurting	Odds Ratios (p-values) for Pairwise Attitude-Behavior
J Quantitat Criminol	years)	Study Setting: Public schools	people with a weapon, strong-	relations
Criminoi	Starte Oralite Seems	Public schools	arming	Oldest sample (grade 7 at study start):
	Study Quality Score:	Ct. d. Donaletian	•Severely attacking or hurting	Serious violence offenses
	Unsure	Study Population:	people with a weapon, strong-	$\frac{\text{Yr 1}}{\text{Yr 2}} = \frac{\text{Yr 3}}{\text{Yr 4}} = \frac{\text{Yr 4}}{\text{Yr 4}}$
	Attrition rate not specified	Sample of males from grades	arming, gang fighting, killing	Attitude to serious violence
		1, 4, and 7 from Pittsburgh		Yr 1 3.9*** 3.1**
	Sample size: 1517 for 3	public school system. Each	<u>Instrument used to measure</u>	Yr 2 3.7*** 4.6**
	cohorts; about 500 per	grade consisted 250 high risk	<u>outcome</u>	Yr 3 9.5*** 4.6***
	cohort (only the results	of disruptive behavior and 250	Items selected from National	Yr 4 5.1***
	for the oldest cohort	not.	Youth Survey instrument.	** p<.01; ***p<.001
	used).		-	
		Inclusion criteria:	Type: see definition	Growth curve estimates (p-values) as function of Age
	Age	See above	Circumstance/Situational	polynomial
	Mean Not specified		Context; roactive/Reactive;	Serious violence Serious violence
	Grades 1, 4, and 7 (only	Exclusion criteria:	Weapon used;	attitudes <u>behaviors</u>
	results from grades 4 and	None specified	Victim-offender relationship	Age 0.0044 (<0.01) 0.0169 (<0.01)
	7 sample will be reported)	_	Not specified	$Age^2 0.0006 (ns) 0.0021 (ns)$
	Range 6-12	Main independent factor(s):		$Age^3 0.0002 (ns)$ 0.0002 (ns)
		•Attitude toward delinquent	Adverse Health Outcome:	1-9: 11111 (111)
	<u>Gender</u> 1517 (100%)	behavior	Not studied	Change (p-value) between adjacent ages in Violent attitudes
	male	•delinquent behavior	Tior states	and behaviors by Random Regression Models
		definiquent cenavior	Are mechanisms of violence	Serious violence Serious violence
	Race	Instrument used to measure	theorized?	Ages attitudes behaviors
	African-Amer 58%	factors:	Yes	9-10 0.0008 (ns) 0.0678 (ns)
	Caucasian 41%	• Attitude measures: PI	Delinquent attitudes and	10-11 0.0010 (ns) -0.0002 (ns)
	Other 1%		behaviors were related to each	11-12 0.0172 (<0.01) 0.0069 (ns)
	170	developed	other in various patterns, and age	12-13 -0.0045 (ns) -0.0014 (ns)
		Behavior measures: SRD Outlined World School		13-14 -0.0009 (ns)
		(National Youth Survey)	was a defining factor that	13-14 -0.0009 (lis) 0.0311 (lis) 14-15 0.0103 (ns) 0.0552 (<0.01)
			provided much of the explanation	i i i i i i i i i i i i i i i i i i i
		Covariates	for the inconsistencies in research	
		Age	findings.	16-17 -0.0038 (ns) 0.0371 (ns)
				17-18 0.0372 (ns) 0.1023 (ns)

Appendix C2: Evidence Table 01:	Effectiveness of Prevention Interventions to	Violent Behavior and Adverse Health Outcome
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Record #	Study Quality	Time/Place	Prevention Intervention:	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	
Year, Jnl		Outcome Definition		
1729	Study Design:	Time (begin, end): Not specified	Description of Program	Primary Objective
	A pretest-posttest control group	Place (city, state): Missouri	Multisystemic Therapy (Henggeler	To examine the long term effects of MST vs IT
Borduin	design, with random	Study Population	& Borduin, 1990) -	on the prevention of criminal behavior and
	assignment to conditions and 4-	Juvenile offenders at high risk for	present-focused and action-	violent offending among juvenile offenders at
1995	year follow-up for arrests.	committing additional serious	oriented	high risk for committing additional serious
	year reserve ap are arresent	crimes	directly addresses intrapersonal	crimes.
J	Individual study quality score	Inclusion criteria:	and systemic factors known to	
Consulting	Poor (Comparability of groups	Consecutive referrals by juvenile	be associated with adolescent	Outcome 1: RBPC score (mean±SD)
and	was maintained;	court personnel included all	antisocial behavior.	Treated (n=70) Control (n=56)
Clinical	attrition>20%.)	families in which the youth:	individualized and highly	Pre 0.17±0.74 -0.15±0.80
Psych		• Were ages 12 – 17	flexible	Post -0.54±0.81 0.64±0.85
- 27	Sample size (initial and actual):	Had at least 2 arrests	Name of program	Significant Significant
	Overall= 176 families (140,	• Currently lived with at least	MST (Part of Missouri Delinquency	decrease increase
	79.5%, completed treatment).	one parent figure	Project)	
	Intervention Group (Grp 1)-	Exclusion criteria:	Level Tertiary	Outcome 2: 4-year Arrest Rate
	Multisystemic therapy(MST)	 signs of psychosis or dementia 	<u>Ecver</u> remary	Treated (n=92) Control (n=84)
	=92 (77, 84%, completed	Moderating/mediating factors	Kind of program	% arrested 26.1 71.4
	treatment)	• gender, ethnic background,	Multisystemic approach with youth	
	Control Group (Grp 2)-	number of arrests for violent	and their families designed to	A log-rank test comparing the survival function
	Individual therapy (IT)=84 (63,	crime before treatment	empower parents with the skills and	(probability of not being arrested) revealed
	75%, completed treatment)		resources to independently address	significant difference χ^2 (1, N =176)=46.4,
	, , , , , , , , , , , , , , , , , , ,	Outcome 1: violence Measures:	future problems.	p<.0001.
	Age, gender & race groups:	1. 4-year change in adolescent	ruture problems.	Padder
		behavior problems as measured by	Mechanism of delivery	Outcome 3:
	Age 14.8 (SD 1.5)	mothers' reports on the 89-item	Individual and family intervention	(a) Number of Serious Crimes (mean±SD)
	Gender – 67.5% male	Revised Behavior Problem	individual and raining intervention	Completers and dropouts
	Race – 70% white,	Checklist (RBPC).	Target population	$\frac{\text{Treated (n=92)}}{\text{Control (n=84)}} \frac{\text{F (p)}}{\text{F (p)}}$
	30% African American	2. 4-year change in arrest rate of	Adolescent offenders	1.71±1.04 5.43±3.62 10.4(<.002)
		adolescent criminal activity	Adolescent offenders	Completers Only
	Age, gender, and race only	3. 4-year change in seriousness of	Setting where intervention took	Treated (n=77) Control (n=63) $F(p)$
	provided for all participants and	adolescent criminal activity.	place	1.57±0.85 4.41±3.89 10.4(<.002)
	not for specific intervention	4. 4-year change in arrests for	Sessions were generally held in the	(b) Seriousness of Crime (mean±SD)
	groups.	violent crimes.	families home and in community	Completers and dropouts
		How measured:	locations (school, rec center, etc.)	$\frac{\text{Treated (n=92)}}{\text{Control (n=84)}} \frac{\text{F (p)}}{\text{F (p)}}$
		Criminal arrests and severity	locations (senooi, rec center, etc.)	5.17±5.01 9.40±3.37 20.1(<.001)
		measured by record review of	Setting where subjects were	Completers Only
		juvenile court, local police and	recruited	Treated (n=77) Control (n=63) $F(p)$
		department of Public Safety	Identified in Juvenile court and	6.35±4.67 9.67±3.38 12.8(<.001)
		records from the time of the	contacted by phone or home visit.	12.0(\.001)
		adolescent's release from juvenile	contacted by phone of nome visit.	
			Person delivering program	
		court supervision.	Graduate students in clinical	
			Graduate students III clilical	

psychology

Appendix C2: Evidence Table 01: Effectiveness of Provention Interventions to Violent Rehavior and Adverse Health Outcome

		ce Table 01: Effectiveness of Prevent	tion Interventions to Violent Behavior	,
Record #	Study Quality	Time/Place	Prevention Intervention:	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	
Year, Jnl		Outcome Definition		
1729		The seriousness of arrest was	Time period/duration/frequency	Outcome 4: Arrests for Violent Crimes
		measured in a 17 point scale	MST families completed a mean of	Completers and dropouts
Borduin		(1=truancy, 4=disorderly conduct,	23.9 hours of treatment (SD $=$ 8.2,	F(2, 173)=11.7, p<.0008
		8=assault/battery, 11=grand	range 5-49), IT families completed a	Completers Only
1995		larceny, 13=unarmed robbery,	mean of 28.6 hours (SD=9.8, range	F(2, 137)=8.66, p<.003.
		17=murder).	15-72). These means were	_
J			significantly different (p<.01)	[No other statistics were reported.]
Consulting		Circumstance: not specified		
and		Proactive/reactive: not specified		Generalization of Effectiveness:
Clinical		Weapon used: Not specified		MST completers and drop outs were less likely
Psych		Victim-offender relationship: not		to be arrested for violent crimes following
		specified		treatment than were youth who participated in
Page 2				the IT group (even after controlling for the
		Outcome 2: Adverse health		number of arrests for violent crime before
		Not addressed		treatment)
		Outcome 3: Effectiveness		MST was found to be equally effective with
		Change in outcomes		youths of different gender and ethnic
				backgrounds.
		Outcome 4: Safety		
		Not studied		

Appendix C2: Evidence Table 02: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention: Definition	Findin		· · · · · · · · · · · · · · · · · · ·
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	-	9	
Year, Jnl		Outcome Definition				
, , , , ,	1			l.		
5246	Study Design:	Time (begin, end):	Description of Program	To eva	luate the impact of	f SMART Talk on
	Randomized control trial. Each	January to April 1995	This computer-based multimedia		sive behaviors.	
Bosworth	grade has 3 teams of 100 to 140		program was designed to teach			
	students. 2 teams in each grade	Place (city, state):	adolescents how to resolve	Mean	(SD) of aggression	n score
2000	randomly to the intervention	A major midwestern metropolis	interpersonal issues without violence.		, , ,	
	and 1 team to the control.	J 1	•	(A) Bo	th Gender, grade	was covariate
Am J	Individual study quality score	Study Population:	Name of program	Time	Intervention	Control
Health	• no intent-to-treat analysis	6th, 7th and 8th grades students	SMART Talk (Students Management		(n=321)	(n=195)
Behav	• groups not comparable at the		Anger and Resolution Together)	Pre	14.98 (5.64)	15.06 (5.91)
	outset.	Inclusion criteria:		Post	14.98 (5.80)	15.27 (6.17)
		Not specified	<u>Level:</u> Primary	(B) M	ales, grade was c	ovariate
	Sample size (initial and actual):			Time	Intervention	Control
	Overall: 558 completed initial	Exclusion criteria:	Kind of program		(n=145)	(n=90)
	survey; 538 completed follow-	Not specified	Anger management, perspective	Pre	15.88 (5.92)	16.64 (6.32)
	up survey. After exclusions,		taking, dispute resolution	Post	16.14 (6.23)	16.89 (6.46)
	actual in analysis was 516.	Moderating/mediating factors		(C) Fe	males, grade was	
	1) Intervention group: N=321	Grade was the covariate in the	Mechanism of delivery	Time	Intervention	Control
	2) Control group: N=195	multivariate analysis.	Computer-based multimedia program		(n=176)	(n=105)
				Pre	14.24 (5.32)	13.71 (5.18)
	Age: 42% (232) 6 th graders,	Outcome 1: violence	<u>Target population</u>	Post	14.03 (5.25)	13.87 (5.58)
	31% (173) 7 th graders, 27% (153) 8 th graders	Measure: Self-reported aggressive	6th - 8th grade students	(D) 6th	n Graders	
	27% (153) 8 th graders	behavior measured with 4 items		Time	Intervention	Control
	<u>Gender</u> : 46% (258) males,	from the U of Texas Hlth Science	Setting where intervention took place		(n=108)	(n=106)
	54% (300) females	Center Aggression Scale and 3	School	Pre	15.94 (5.57)	14.26 (5.40)
	Race:	items from the Conflict Tactic		Post	15.68 (5.93)	15.33 (6.08)
	84% (468) Caucasian	Scale in the past 30 days.	Setting where subjects were recruited	` ′	Graders	-
	9% (52) African-American		School	Time	Intervention	Control
	4% (19) Biracial	<u>Definition</u> : " hit back when hit		_	(n=114)	(n=42)
	4% (19) Other	first", "pushed, slapped, shoved, or	Person delivering program	Pre	14.61 (5.52)	17.56 (6.51)
		kicked other students", "got into a	Self access to the software	Post	14.66 (5.49)	16.24 (6.34)
	1) Intervention group	physical fight when angry", and	TT:		Graders	
	Age: 42% 6 th graders	"threatened to hurt or to hit another	Time period/duration/frequency	Time	Intervention	Control
	Gender: 45% males	student. Scores ranged from 7 to	Access to program was provided	D	(n=99)	(n=47)
	Race: Not specified	28.	during the entire semester. Students	Pre	14.36 (5.78)	14.64 (5.96)
	2) Control group	Outcome 2: Adverse health	had free access and during some	Post	14.61 (5.99)	14.26 (5.94)
	Age: 25% 6 th graders	Not specified	class times.	NT.		
	Gender: 46% males	Outcome 3: Effectiveness				in aggression in either
	Race: Not specified	Not specified		group	for gender or gra	ae subgroups.
		Outcome 4: Safety Not specified				
		Not specified		<u> </u>		

Appendix C2: Evidence Table 03: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Study Quality Time/Place Prevention Intervention: Findings

Record #

Author Year, Jnl	Group(s) and Sample Size	Inclusion/Exclusion Criteria Outcome Definition	Definition and Characteristic			
5301 Breunlin	Study Design: Nonrandomized controlled study with pre and post intervention comparison. Six study groups, 3	Time (begin, end): Entire 1997-1998 school year and first semester of the 1998-1999 school year.	Description of Program The core premises and skills of conflict resolution are derived from the principles and practices of	conflict resolution that is offered as	ate the impact of a on skills training I an alternative to on in reducing act	program out-of-
2002 J	accepted treatment, 3 declined treatment.	Place (city, state): Western suburbs of Chicago, Il. Study Population:	mediation. The structure and format of this program is predicated on substantial evidence that violence is	physical violence among high school students.		
Education al Research	Individual study quality score Poor (potential confounders not controlled for).	Public High School Students that were suspended between 8/97 and 12/98 Inclusion criteria:	largely learned and consequently can be prevented through teaching alternatives to violence. Name of program	number re-sus physical violence	pended for fighti ee index (PVI) #/Total	ng and
	Sample size (initial and actual): Total=165 All Gp1 Gp2 Gp3 Gp4 Gp5 Gp6	Suspended during time frame Exclusion criteria: Not noted	Alternative for Suspension for Violent Behavior (ASVB) Level: Secondary	All groups	in group (%) 16/165 (10%)	PVI 0.20
	165 25 41 7 36 10 46	Moderating/mediating factors: type of suspension and enrollment	 Kind of program Teaching social problem- 	Group 1 (Tx) Group 2 (Con)	1/ 25 (4%) 5/ 41 (12%)	0.06 0.18
	Grade 12th 11th 10th 9th All 4% 11% 30% 54% Gp1 12% 8% 39% 44% Gp2 5% 7% 27% 61%	in program Gp 1: fighting-in ASVB Gp 2: fighting-declined ASVB Gp 3: oth violence-in ASVB	solving and thinking skillsFamily interventionAnger management	Group 3 (Tx) Group 4 (Con) Group 5 (Tx) Group 6 (Con)	1/ 7 (14%) 2/ 36 (6%) 1/ 10 (10%) 6/ 46 (13%)	0.41 0.11 0.27 0.32
	Gp3 14% 29% 57% 0% Gp4 3% 19% 28% 50% Gp5 0% 30% 50% 20% Gp6 0% 2% 24% 74%	Gp 4: oth violence-declined ASVB Gp 5: non-violence-in ASVB Gp 6: non-violence-declined ASVB	Mechanism of delivery Each family meets with a Trainer for 6 hours Target population	Treatment No Treatment	3/ 42 (7%) 13/123 (11%)	0.17 0.21
	Gender: % Male All Gp1 Gp2 Gp3 Gp4 Gp5 Gp6 82 68 83 100 89 80 83 Race Af/Am Hisp Cauc API Other All 10% 12% 74% 2% 2% Gp1 16% 20% 60% 0% 0% Gp2 22% 12% 61% 0% 5% Gp3 14% 0% 71% 0% 14% Gp4 3% 8% 83% 6% 0% Gp5 0% 0% 100% 0% 0% Gp6 2% 15% 80% 2% 0%	Outcome 1: physical violence Measure: rate of resuspension for acts of physical violence per year, measured by the Physical Violence Index (PVI) Definition - physical confrontation Type- physical violence Circumstance, Proactive/reactive, Weapon used, Victim-offender relationship; Not reported Outcome 2: Adverse health Not reported Outcome 3: Effectiveness Reduced rate of resuspension. Outcome 4: Safety	High School Students who have been suspended Setting where intervention took place Family Institute satellite office near school site Setting where subjects were recruited High School Person delivering program Trainer- qualifications not described Time period/duration/frequency 6 hours spread over 4-90 minute sessions	between group but importation identified. • Analyses of non treatment trend of treatment expension in the suspension in treatment are opens the point the acception.	dom assignment t nd non-treatment g ossibility that diff tors and refusers anstead of the parti	erved vere t and ed a ing ool o groups erences explain

Appendix C2: Evidence Table 04: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Author Group(s) and Sample Size Inclusion/Exclusion Criteria Vear Inl Outcome Definition Definition and Characteristic	Record #	f Study Quality	Time/Place	Prevention Intervention:	Findings
Vear Inl Outcome Definition	Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	
Tear, one Outcome Definition	Year, Jn	1	Outcome Definition		

	,	T	T				
1308	Study Design:	Time (begin, end):	Description of Program	Low concentrations			
	Nonrandomized control trial	August 1994-March 1995	Intervention group received at	associated with incr			
Constan-		Place (city, state):	least 5 week treatment with SSRI,	Studies with adults			
tino	Individual study quality score	St. Louis, Missouri	may use fluoxetine, paroxetine or	aggressive behavior attempts to replicate			s study
	Poor (key confounders were	Study Population:	sertraline. May have concurrant	attempts to replicat	e tills with au	nescents.	
1997	given little or no attention).	Psychiatrically hospitalized	use of other psychotropic	Comparison of Ag	oressive even	ts/week for	r 13
		adolescent (not selected for	medication. Control group	adolescents while t			
J Child &		aggressiveness)	received no SSRI treatment.	not treated with SS			
Adolesc	Sample size (initial and	Inclusion criteria:	Name of program	adolescents who w			
Psycho-	actual):	Hospitalized for at least 4	Selective serotonin reuptake	SSRIs during hosp		oour on un	u om
pharma-	Total - initial: 63	weeks from 8/94 – 3/95	inhibitors (SSRIs) treatment		of physicall	aggressiv	re
cology	Total - actual 58	Received trial of SSRI's for at	<u>Level</u> : secondary		vents toward		
	Treatment Group (Grp 1): 19	least 5 weeks, initiated and			Mean SD	Paired-	
	Control Group (Grp 2) 39	completed in hospitalization	Kind of program: medication		0.50 0.88	-1.33	0.21
		Exclusion criteria:	N. 1		0.69 1.09		
	Age, gender & race groups:	Primary diagnoses drug or	Mechanism of delivery				
	All Grp1 Grp2	alcohol dependence	Daily treatment with SSRI.	#	of physicall	y aggressiv	re
	Age 13-17	• Received SSRI for less than 5	Target population		vents toward		
	Candan Treated annua	weeks	Youth in psychiatric hospital Setting where intervention took		N	Mean	SD
	Gender Treated group 11 M	Moderating/mediating factors	place	SSRI treated patier	nts		
	8 F	Discharge Diagnosis (e.g.	Psychiatric Hospital	While Treated with	i SSRIs		
	ог	disruptive, affective or psychotic);	Setting where subjects were	Disruptive	8	0.49	0.38
	Race not specified	Age; gender	recruited	Affective	9	0.18	0.39
	Race not specified	Outcome 1: violence	Psychiatric hospital	Psychotic	2	2.21	2.54
	Comment: The Overt	Measure: Summation of behavior	Person delivering program	While Not Treated	with SSRIs		
	Aggression Scale includes	over 1 week based on a modified	Health care providers	Disruptive	7	0.32	0.45
	Aggression against others as	Overt Aggression Scale	Time period/duration/frequency	Affective	5	0.23	0.43
	only one component,	<u>Definition</u> : "physical aggression	At least 5 weeks duration of	Psychotic	1	3.08	0
	only one component,	toward other people"	treatment that were initiated and	Contrast Group			
		Type Aggression towards others Circumstance Observed in hospital	completed during hospitalization.	Disruptive	19	0.64	0.71
			Starting dose was 15±5mg and	Affective	15	0.19	0.41
		setting Proactive/reactive; Weapon used;	dosage was raised at a mean rate	Psychotic	5	1.49	2.33
		Victim-offender relationship:	of 5 mg every 4 days up to a				
		not specified.	mean dose of 25±10mg daily.	• There was no			
		Outcome 2: Effectiveness		improvement i			2
		Reduction in violence	Notes if any	behavior durin			
		Outcome 3: Adverse health	SSRSI treated patients did not	2 minor advers			
		Not studied	differ significantly in their	experienced do			
		Outcome 4: Safety	diagnosis, length of stay, or level	insomnia and a			recurrent
		Adverse effects	or aggression.	headaches. No		required	
		110,0100 0110000		discontinuation	n of drugs.		

Appendix C2: Evidenc	e Table 05: Effectiveness of Prevent	ion Interventions to Violent Behavior a	and Adverse Health Outcome
Study Quality	Time/Place	Prevention Intervention: Definition	Findings

and Characteristic

Inclusion/Exclusion Criteria

Record #

Group(s) and Sample Size

Author

X I-1	Group(s) and Sample Size	O-t D-G-44	una characteristic				
Year, Jnl		Outcome Definition					
			[=	Г _{те}			
393	Study Design:	Time (begin, end):	Description of Program	The purpose of the			
	Pre and Post Intervention	Two 6-week time blocks in		effectiveness of t			
DuRant	design for two intervention	November and December 1993 and	Name of program	reducing use and			
	programs. Two schools were	February and March, 1994.	1) Violence Prevention Curriculum	middle school stu	idents liv	ing in or	around
1996	randomly assigned one of the		for Adolescents	public housing.			
	two programs.	Place (city, state):	2) Conflict Resolution: A Curriculum				
J Adoles		Augusta, GA	for Youth Providers	Violence Prevent	ion		
Health	Individual study quality score				Pre-test		Post-test
	Poor (no control program)	Study Population: Students in Middle School (grades	Level: both are primary		Mean(S	D)	Mean(SD)
	Sample size (initial and actual):	6, 7, and 8)	Kind of program	Use of violence	.82(1.7	79)	.39(1.28)
	1) Violence Prevention		1) Didactic and cognitive, combining	Freq of fighting	1.37(1.7	75)	.51(1.26)
	Curriculum for Adolescents	Inclusion criteria:	information and role-playing.	Freq of injury	.15(.4	18)	.20(.78)
	N=151 (27% sixth, 40%	1) Violence Prevention: students	2) Conflict resolution, skill building	1 3 2			
	seventh, 33% eighth)	who were in afternoon elective	exercises, role-playing	Conflict Resoluti	on		
		classes	, 1 , 5		Pre-test		Post-test
	2) Conflict Resolution: A	2) Conflict Resolution: students	Mechanism of delivery		Mean(S	D)	Mean(SD)
	Curriculum for Youth Providers	who had free class periods during	Both are school curriculum				
	N=74 (41% sixth, 27% seventh,	the morning		Use of violence	.73(1.6	55)	.51(1.38)
	32% eighth)		<u>Target population</u>			1.03(1.51)	
		Exclusion criteria: Not specified	Both are middle school students	Freq of injury	.59(1.0)8)	.28(.63)
	Age, gender & race groups:	-					
	All	Moderating/mediating factors	Setting where intervention took place	<u>Probabi</u>	lity Leve	<u>ls</u>	
	Age: Not specified	Not specified	Both are in classrooms		Bet	Within	Group X
	Gender: Male 48.4% (109)	_			Group	Group	Time
	Female 51.6% (116)	Outcome 1: violence	Setting where subjects were recruited				
	Race: Black 88.7% (189)	Measure:	Both are in schools	Use of violence	.92	.004	.35
	White 10.3% (22)	Use of Violence in the		Freq of fighting	.028	.001	.62
	Native Amer .9% (2)	previous 30 days - assessed on	Person delivering program	Freq of injury	.001	.105	.018
		a 7-item scale;	Both are delivered by an experienced				
	1) Violence Prevention	• frequency in previous 30 days	African-American mental health	Significant (p<.001) 1	reduction	is in the
	Curriculum for Adolescents	of engaging in a physical fight	counselor	violence sca	le by bot	h groups	following
	Age: Not specified			both interver	ntions, bu	it the gro	ups did not
	Gender: Not specified	Definition of violence (same as	Time period/duration/frequency	differ at the	posttest.	Č	•
	Race: 84% Black	CDC Youth Risk Behavior Survey	Both programs had 10 50-min	Significant (Gender X	K Time
		and Denver Youth Delinquency	sessions. Both were conducted at	interaction e			
	2) Conflict Resolution	Questionnaire):	the same time in each school during	the female st			
	Age: Not specified	openly carried a weapon,	two 6-week time blocks in November	violence scal			
	Gender: Not specified	• had been in a fight,	and December 1993 and February	they had sign			
	Race: 100% Black	 had been injured in a fight and 	and March 1994.	following the			
		required medical attention,		<u>Continued</u>			
		Continued					
L	J						

Appendix C2: Evidence Table 05: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

			ion Interventions to Violent Behavior	
Record #	Study Quality	Time/Place	Prevention Intervention: Definition	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl		Outcome Definition		
393		• had carried a hidden weapon,		Students in both groups had significant
		had attacked someone with a		(P≤.001) reductions in the frequency of
DuRant		weapon or with the idea of		fighting.
		seriously hurting or killing		 No significant Group X Time interaction
1996		them,		effect in the frequency of fighting.
1,7,0		had used a weapon to stab		
J Adoles				A significant (P≤.018) Group X Time Graph Group X Time
Health		something from someone, and		interaction effect. Students in the
Ticaini		• had been involved in a gang		violence prevention group had a slight
Page 2		fight.		increase in this scale, whereas students in
rage 2				the conflict resolution group reported a
		Outcome 2: Adverse health		significant drop in more severe fighting
		Definition of outcome measure(s)		behaviors.
		Injury during a fight servere		A significant (P≤.018) Gender X Group
		enough to require medical		interaction effect on this scale. Males
		treatment		scored higher on this scale at both pretest
				and posttest, but males in the conflict
		Outcome 3: Effectiveness		resolution group demonstrated the
		Definition of outcome measure(s)		greatest reduction in the frequency of
		Use of violence in		fighting resulting in injury requiring
		hypothetical situations,		medical treatment.
		avoidance of violence		
		• use of violence in the previous		
		30 days		
		• fighting behaviors in the		
		previous 30 days		
		O-4 4. C-6-4		
		Outcome 4: Safety		
		Definition of outcome measure(s)		
		Not specified		

Appendix C2: Evidence Table 06: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Record # Study Quality Time/Place Prevention Intervention: Definition Findings

given adequate attention) Sample size (initial and actual): Overall: initial 704, actual 563 Intervention Group Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age. gender & race groups: All Age Ill 235 Ill 235 Ill 2320 Ill 2320 Ill 23 320 Ill 24 Ill 29 Ill 29 Ill 29 Ill 29 Ill 20	Accord #	Study Quanty			
Study Design: Nonrandomized control trial. Two schools received the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention served as controls. J Adoles HIth	Author	Group(s) and Sample Size		and Characteristic	
Study Design: Nonrandomized control trial. Two schools received the trevention and two schools that did not receive the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention served as controls. Jadoles Hilbh	Year, Jnl		Outcome Definition		
Nonrandomized control trial. Two schools received the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention served as controls. J Adoles	,				
Nonrandomized control trial. Two schools received the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention and two schools that did not receive the intervention served as controls. J Adoles Hilb	1579	Study Design:	Time (begin end):	Description of Program	To evaluate a Social Cognitive Theory-based
DuRant Two schools received the intervention and two schools that did not receive the intervention served as controls. J Adoles Hith Adoles Hith Poor (key confounders not given adequate attention) Sample size (initial and actual): Overall: initial 704, actual 563 [Inclusion criteria: Sample size (initial and actual): Overall: initial 704, actual 563 [Inclusion criteria: Sample size (initial and actual): Overall: initial 704, actual 563 [Inclusion criteria: Sample size (initial and actual): Overall: initial 704, actual 563 [Inclusion criteria: Sample size (initial and actual): Overall: initial 704, actual 563 [Inclusion criteria: Sample size (initial and actual): Overall: initial 292, actual 233 (80%) [Inclusion criteria: Sample size (initial and actual): Overall: initial 293, actual 330 (80%) [Intial 292, actual 330 (80%)] [1377				
intervention and two schools that did not receive the intervention served as controls. J Adoles HIth Adoles	DuDont				
Target population for the serve of the intervention Group Initial 292, actual 233 (80%) Age. gender & race groups: All 1 235 Age	DuKani			Cognitive Theory with 13 modules.	grade students.
JAdoles Hilth Individual study quality score Poor (key confounders not given adequate attention) Sample size (initial and actual): Overall: initial 704, actual 563 Control Group Initial 412, actual 330 (80%) Age. gender & race groups: All Age 11 235 Age. gender & race groups: All Age 12 320 13 126 13 126 13 126 14 22 Gender M M 344 F 360 Gender M M 344 F 360 Sudents in middle schools Living in or around public housing projects Exclusion criteria: Schulents in middle schools Living in or around public housing projects Exclusion criteria: Moderating/mediating factors Mechanism of delivery Didactic and cognitive, information and role playing Indicating and actual): Target population Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes (Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Peaceful Conflict and Violence Prevention Curriculum Mechanism Mechanism of delivery Didactic and cognitive, information and role playing Indicating that the differences between the groups were not consistent from pretest to a round public housing 2 "used weapon, force or strong-arm embods to get money" Type; assault, robbery Circumstance: Not specified Droactive/reactive: 1, not stated Weapon used: not spe					
Living in or around public housing projects Living in or around public housing given adequate attention Sample size (initial and actual): Overall: initial 704, actual 563 Outcome 1: violence Measure: Use of violence in the Intervention Group Initial 292, actual 233 (80%) Outcome 2: Age gender & race groups: All 1 235 12 320 13 126 12 320 13 126 14 22 12 320 14 22 22 330 14 22 330 14 22 330 14 22 330 344 F 360 Age African American 88.7% Age African American 88.7% Age African American 88.7% Coutcome 3: Effectiveness adtermined by post test Outcome 4: Safety Didactic and cognitive, information and role playing Living in or around public housing Prevention Curriculum Living in or around public housing Living in or around public housing Prevention Curriculum Living in or around public housing Living in or around public housing Prevention Curriculum Living in Or around public housing Living in or around public housing Living in or around public housing Prevention Curriculum Level: primary Time Prevent on Curriculum Prevention Curriculum Level: primary Time Prevent on Curriculum Level: primary Time Prevent on Curriculum Prevention Moderating/mediating factors Mechanism of delivery Didactic and cognitive, information and role playing Agroup x time interaction was found and role playing Agroup x time indicating that the differences between the groups were not consistent from pretest to a state ranged from 0 to 20. Past test 1.1 (2.2) 1.2 (2.4) Countriculum Time Prevent on Curriculum Prevent on Curriculum Level: primary Time Prevent on Curriculum Prevent on Curriculum Level: primary Time Prevent on Curriculum Level: primary	2001				
Hith Poor Rey confounders not given adequate attention) Sample size (initial and actual): Overall: initial 704, actual 563 Intervention Group Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age, gender & race groups: All Age 11 235 Age 11 235 Proactive/reactive: 1, not stated 12 320 Weapon used: not specified 13 126 Integration of the proactive/reactive: 1, not stated Weapon used: not specified 14 22 Gender M 344 F 360 Race African American 88.7% Bindividual study quality score Poor (key confounders not given adequate attention) Moderating/mediating factors Moderating/mediating factors Moderating/mediating factors Moderating/mediating factors Moderating/mediating factors Moderating/mediating factors Mechanism of delivery Didactic and cognitive, information and role playing and role playing and role playing arm methods to get money." Target population Middle school students living in or around public housing Target population Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Circumstance: Not specified Weapon used: not specified Victim-offender relationship: not specified Toutcome 2: Adverse health Frequency of fighting requiring medical treatment Outcome 2: Adverse health Frequency of fighting requiring medical treatment Outcome 3: Effectiveness Reduction in violence as determined by post test Outcome 4: Safety		intervention served as controls.			
Poor (key confounders not given adequate attention)	J Adoles		Living in or around public housing	Prevention Curriculum	days (range of scale: 0-20)
given adequate attention) Sample size (initial and actual): Overall: initial 704, actual 563 Intervention Group Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age. gender & race groups: All Age Circumstance: Not specified 11 235 12 320 13 126 14 22 Gender M 344 F 360 Control Group Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Moderating/mediating factors Moderating/mediating factors Kind of program; conflict resolution Middle schools tudents living in or around public housing Target population Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Moderating/mediating factors Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where intervention took place Time Treated Control Post test 1.4 (2.9) 1.1 (2.0, 0 A group x time interaction was found indicating that the differences between the groups were not consistent from pretest to around public housing	Hlth	Individual study quality score	projects		
given adequate attention) Sample size (initial and actual): Overall: initial 704, actual 563 Intervention Group Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age. gender & race groups: All Age Circumstance: Not specified 11 235 12 320 13 126 14 22 Gender M 344 F 360 Control Group Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Moderating/mediating factors Moderating/mediating factors Kind of program; conflict resolution Middle schools tudents living in or around public housing Target population Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Moderating/mediating factors Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where intervention took place Time Treated Control Post test 1.4 (2.9) 1.1 (2.0, 0 A group x time interaction was found indicating that the differences between the groups were not consistent from pretest to around public housing		Poor (key confounders not	Exclusion criteria:	Level: primary	<u>Time</u> <u>Treated</u> <u>Control</u> <u>p</u>
Moderating/mediating factors Sample size (initial and actual): Overall: initial 704, actual 563 Intervention Group					
Sample size (initial and actual): Overall: initial 704, actual 563 Intervention Group		ger and quant annually	Moderating/mediating factors	Kind of program: conflict resolution	` /
Overall: initial 704, actual 563 Intervention Group Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age. gender & race groups: All Age. gender & race groups: All 11 235 126 12 320 13 126 14 22 Gender M 344 F 360 Gender M 344 F 360 Race Affrican American 88.7% Outcome 4: Safety Mechanism of delivery Didactic and cognitive, information pidate indep playing productive, information and indicating that the differences between the productive, information and indicating that the differences between the productive in form pretest to positest. Mechanism of delivery Didactic and cognitive, information and role playing groups were not consistent from pretest to positest. Target population Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Middle school students living in or around public housing Setting where intervention took place Taught in Health Education classes Middle school sudents living in or around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Time Treated Control Prost test 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.5		Sample size (initial and actual):	Woderating/mediating ractors	Time of programs connect resolution	1.1 (2.2) 1.2 (2.1) 0.03
Measure: Use of violence in the previous 30 days, assessed on a 5-limital 292, actual 233 (80%) Initial 292, actual 233 (80%) Control Group		Overally initial 704 partial 562	Outcome 1. violence	Machanism of dalivary	A group wime interaction was found
Intervention Group Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age. gender & race groups: All 235 Age 11 235 126 13 126 14 22 Gender M 344 F 360 Gender M 344 F 360 Race African American 88.7% Intervention Group Initial 292, actual 233 (80%) Definition: Frequency of 1. "Attacked someone with a weapon" or 2. "used weapon, force or strong-arm methods to get money" Type; assault, robbery Circumstance: Not specified Victim-offender relationship: not specified M 344 F 360 Race African American 88.7% Intervention Group Initial 292, actual 233 (80%) previous 30 days, assessed on a 5-item scale ranged from 0 to 20. Definition: Frequency of 1 1. "Attacked someone with a weapon" or 2. "used weapon, force or strong-arm methods to get money" Type; assault, robbery Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Outcome 2: Adverse health Frequency of fighting requiring medical treatment Outcome 2: Mean (SD) of frequency of fighting requiring to around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Time Preson delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 weeks Outcome 4: Safety		Overall. Illitial 704, actual 303			
Initial 292, actual 233 (80%) Control Group Initial 412, actual 330 (80%) Age, gender & race groups: All Age 11 235 126 13 126 14 22 Gender M 344 F 360 Race African American 88.7% Race African American 88.7% Item scale ranged from 0 to 20. Definition: Frequency of a weapon or 20. Definition: Frequency of 30. Middle school students living in or around public housing Age around public housing Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Frequency of fighting requiring medical treatment in previou days (range of scale: 0-20) Time Treated Control Pretst 0.28 (0.81) 0.14 (0.50) (
Control Group Initial 412, actual 330 (80%) Age_ gender & race groups: All Age Initial 235 Initial 235 Initial 326 Initial 326 Initial 420, actual 330 (80%) Age_ gender & race groups: All Initial 425 Age Initial 425, actual 330 (80%) Age_ gender & race groups: All Initial 426, actual 330 (80%) Age_ gender & race groups: Age Initial 427 Initial 428, actual 330 (80%) Age_ gender & race groups: Age				and role playing	
Control Group Initial 412, actual 330 (80%) Age, gender & race groups: All Age 11 235 12 320 13 126 14 22 Gender M 344 F 360 Race African American 88.7% Control Group Initial 412, actual 330 (80%) I "Attacked someone with a weapon" or 2. "used weapon, force or strong-around public housing Setting where intervention took place Taught in Health Education classes Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Frequency of fighting requiring medical treatment Outcome 2: Adverse health Frequency of fighting requiring medical treatment Desting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Setting where subjects were recruited Middle schools Time Person delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 weeks Middle school students living in or around public housing Mean (SD) of frequency of fighting requiring medical treatment in previou days (range of scale: 0-20) Time Person delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 weeks Time period/duration/frequency 50 minutes, once weekly for 13 weeks		Initial 292, actual 233 (80%)			posttest.
Initial 412, actual 330 (80%) Age, gender & race groups: All Age					
2. "used weapon, force or strongarm methods to get money" Type: assault, robbery Circumstance: Not specified 11 235 126 Proactive/reactive: 1, not stated Weapon used: not specified 13 126 Victim-offender relationship: not specified M 344 Frequency of fighting requiring medical treatment in previous days (range of scale: 0-20) Setting where intervention took place Taught in Health Education classes Circumstance: Not specified Middle schools					
Age gender & race groups: All Age Circumstance: Not specified 11 235 126 13 126 14 22 Security Specified Middle schools Victim-offender relationship: not specified Middle schools Outcome 2: Adverse health Frequency of fighting requiring medical treatment Race African American 88.7% Age Circumstance: Not specified Droactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Middle schools Setting where intervention took place Taught in Health Education classes Setting where subjects were recruited Middle schools Middle schools Person delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 weeks Outcome 4: Safety Mays (range of scale: 0-20) Time Treated Control Pretest 0.28 (0.81) 0.14 (0.50) 0.0 Time Person delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 weeks		Initial 412, actual 330 (80%)		around public housing	
All Age Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified M 344 F 360 Race African American 88.7% Age Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Outcome 2: Adverse health Frequency of fighting requiring medical treatment Outcome 3: Effectiveness Reduction in violence as determined by post test Outcome 4: Safety Taught in Health Education classes Time Treated Control Pretest 0.28 (0.81) 0.14 (0.50) 0.00 Post test 0.17 (0.57) 0.17 (0.56) 0.00 Post test 0.17 (0.57) 0.17 (0.56) 0.00 Time period/duration/frequency 50 minutes, once weekly for 13 Weeks Time period/duration/frequency 50 minutes, once weekly for 13 Weeks			2. "used weapon, force or strong-		requiring medical treatment in previous 30
All Age Circumstance: Not specified 11 235 12 320 13 126 14 22 Gender M 344 F age African American 88.7% Race African American 88.7% Age Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Outcome 2: Adverse health Frequency of fighting requiring medical treatment Outcome 3: Effectiveness Reduction in violence as determined by post test Outcome 4: Safety Taught in Health Education classes Time Treated Control Pretest 0.28 (0.81) 0.14 (0.50) 0.00 Post test 0.17 (0.57) 0.17 (0.56) 0.00 Post test 0.17 (0.57) 0.17 (0.56) 0.00 Time period/duration/frequency 50 minutes, once weekly for 13 Weeks Time period/duration/frequency 50 minutes, once weekly for 13 Weeks		Age, gender & race groups:	arm methods to get money"	Setting where intervention took place	days (range of scale: 0-20)
Age 11 235 12 320 13 126 14 22 Gender M 344 F 360 Race African American 88.7% Circumstance: Not specified Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Middle schools Person delivering program Same African American male instructor Time Treated Control Pretest 0.28 (0.81) 0.14 (0.50) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.57) 0.17 (0.56) 0.17 (0.57) 0.17 (0.		All		Taught in Health Education classes	
Proactive/reactive: 1, not stated Weapon used: not specified Victim-offender relationship: not specified Victi		Age			<u>Time</u> <u>Treated</u> <u>Control</u> <u>p</u>
12 320 Weapon used: not specified Victim-offender relationship: not specified Victim-offender relationship: not specified Victim-offender relationship: not specified Victim-offender relationship: not specified Person delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 Weapon used: not specified Victim-offender relationship: not specified Post test 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.57) 0.17 (0.57) 0.17 (0.57) 0.17 (0.57) 0.17 (0.56) (0.57) 0.17 (0.57)				Setting where subjects were recruited	
13 126 14 22 Specified Gender M 344 Frequency of fighting requiring medical treatment Race African American 88.7% Outcome 4: Safety Outcome 4: Safety Person delivering program Same African American male instructor Time period/duration/frequency 50 minutes, once weekly for 13 Weeks Theory Used: Social Cognitive Theory Theory Used: Social Cognitive Theory Time period/duration/frequency 50 minutes, once weekly for 13 Weeks					
Specified Specified Specified Same African American male instructor Same African American male instructor Theory Used: Social Cognitive Theory Theory Used: Social Cognitive Theory Theory Used: Social Cognitive Theory Time period/duration/frequency 50 minutes, once weekly for 13 Weeks Outcome 4: Safety Outcome 4: Safety				Window Schools	1 050 1050 0.17 (0.57) 0.17 (0.50) 0.57
Gender M 344 Frequency of fighting requiring medical treatment Race African American 88.7% Outcome 2: Adverse health Frequency of fighting requiring medical treatment Time period/duration/frequency 50 minutes, once weekly for 13 weeks Outcome 4: Safety Outcome 4: Safety				Parson delivering program	
Gender M 344 Frequency of fighting requiring medical treatment Race African American 88.7% Outcome 2: Adverse health Frequency of fighting requiring medical treatment Time period/duration/frequency 50 minutes, once weekly for 13 weeks Outcome 4: Safety Outcome 4: Safety			specified		Theory Head, Social Cognitive Theory
M 344 Frequency of fighting requiring medical treatment Race African American 88.7% Outcome 4: Safety Frequency of fighting requiring medical treatment Time period/duration/frequency 50 minutes, once weekly for 13 weeks Weeks Outcome 4: Safety		Conto	O-4		Theory Used. Social Cognitive Theory
F 360 Race African American 88.7% Medical treatment Outcome 3: Effectiveness Reduction in violence as determined by post test Outcome 4: Safety Time period/duration/frequency 50 minutes, once weekly for 13 weeks Weeks				instructor	
Race African American 88.7% Outcome 3: Effectiveness Reduction in violence as determined by post test Outcome 4: Safety Outcome 4: Safety					
Race African American 88.7% Outcome 3: Effectiveness Reduction in violence as determined by post test Outcome 4: Safety Weeks		F 360	medical treatment		
African American 88.7% Reduction in violence as determined by post test Outcome 4: Safety				50 minutes, once weekly for 13	
Outcome 4: Safety				weeks	
Outcome 4: Safety		African American 88.7%	Reduction in violence as		
			determined by post test		
	ı		Outcome 4: Safety		
1 TOT STUDIOG	1		Not studied		
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Appendix C2: Evidence Table 07: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention: Definition and	Findings
Author	Group(s) and Sample	Inclusion/Exclusion Criteria	Characteristic	1 mumgs
Year, Jnl	Size	Outcome Definition	Characteristic	
r car, om	Size	Outcome Demitton		
5758	Study Design:	Time (begin, end):	Description of Program	Primary objective was to reduce family
2730	Single Group Before-after	Three school years: 1998-1999,	Conflict resolution model of family-systems	conflict and improve classroom
Dykeman	Intervention Study	1999-2000, and 2000-2001.	intervention for individual parent-child	behavior.
Dykeman	intervention Study	Place (city, state):	dyads.	beliavior.
2003	Individual study quality	Not specified. Author is at Roosevelt	Name of program	$\underline{Mean \pm SD}$
2003		University, Chicago.	None specified.	Baseline: $1.73 \pm .88$
J Instruct-	score Poor (lack of a control	Inclusion criteria:	None specified.	6-moths follow-up: 1.33 ± .90
ional	group and >20%	Students from recently dissolved	Level: Secondary	$\frac{\text{o-modis follow-up}}{\text{o-modis follow-up}}$. 1.33 \pm .90
	C I	,	Level: Secondary	2 40:10-4 mained commiss 4 40-40 40
Psycho-	incomplete follow-up)	families who were referred by teachers	Vind of announce conflict annulation	2-tailed paired samples t-tests to
logy	Garage Califolians	for special education assessment because	Kind of program: conflict resolution	compare pre-test with follow-up:
	Sample size (initial and	of recent episodes of disruptive	Discussion topics:	t(14)=1.70; p=.11.
	actual):	classroom behavior.	(1) how to appraise and interpret	N. CC . C . 1 . 1
	Initial: 21	Exclusion criteria:	antecedents of conflict,	No effects for physical aggression.
	Actual: 15	Those who did not complete treatment	(2) how to reinterpret a provocation,	
		and follow-up.	(3) how to solve problems, and	Note: improvement in teacher-reported
	Age, gender & race	Moderating/mediating factors	(4) how to include others in the resolution	classroom behavior (Chi-square (1) =
	groups of actual sample:	None specified.	of a disagreement.	5.40, p < .05).
	Mean± SD age:	Outcome 1: physical aggression	Mechanism of delivery	
	$13.1 \text{ years } \pm 5.8 \text{ months}$	Measure: frequency of physical	Teachers conducting student training.	
		aggression acts as measured by subscale	Parent education.	
	Gender:	of the Conflict Tactics scale (self-report)	Tarent cadeation.	
	13 boys, 2 girls.	at 6 month follow-up	Target population	
	13 boys, 2 gms.	Definition: frequency of throwing	Students from 5 junior high schools with	
	Ethnicity:	objects at a person, pushing/shoving,	behavior problems and whose parents are	
	8 Caucasians	hitting, and other physical aggression	recently divorced or separated.	
	4 Hispanics, and	acts.	recently divorced or separated.	
	3 African-Americans.	None of these are specified below:	Satting and an intermedian to all along	
	5 African-Americans.	Type, Circumstance, Proactive/reactive,	Setting where intervention took place	
		Weapon used, Victim-offender	Community agency.	
		relationship	G. Winson I am and his standard many many its 1	
		Outcome 2: Adverse health	Setting where subjects were recruited	
		Not studied	Middle school	
			B 11	
		Outcome 3: Effectiveness	Person delivering program	
		Also examined verbal aggression and	Community agency counselors.	
		use of conflict resolution. Both from Conflict Tactics scale.	T:	
			Time period/duration/frequency	
		Outcome 4: Safety	Once weekly for 90 minutes. Average	
		Not studied	length of treatment= 3 months \pm 3.2 weeks.	

Appendix C2: Evidence Table 08: Effectiveness of Prevention Interventions to	Violent Behavior and Adverse Health Outcome
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Record #	Study Quality	Time/Place	Prevention Intervention: Definition	Findings	
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic		
Year, Jnl		Outcome Definition			
5796	Study Design:	Time (begin, end):	Description of Program	The purpose of this study was to provide a	
	Nonrandomized controlled trial.	Not specified	A 2-year intervention program	benchmark for the expected impact of a two-yea	ır
Elias		r	implemented in grades 4 and 5 with	intensive, high quality primary prevention progra	
	Individual study quality score	Place (city, state):	outcome measured in grades 9-11.	aimed at the promotion of social competence.	
1991	Poor (Groups are not	New Jersey		1	
	comparable at baseline)	,	Name of program	Mean Scores on Primary Variables	
Am J	,	Study Population:	Improving Social Awareness-Social	v	
Ortho-		Students from four different	Problem Solving Project (ISA-SPS)	Boys	
psychiatry	Sample size (initial and actual):	elementary schools		\mathbf{E} $\mathbf{E2}$ $\mathbf{E1}$ \mathbf{C}	
	Three cohorts were studied:		<u>Level:</u> Primary		—
	1. E1: students who received	Inclusion criteria:		Striking/threatening other students	
	intervention in 2 high	Students in their last two years of	Kind of program	.69 .71 .67 .59	
	fidelity schools;	elementary school (grades 4 and 5)	Social decision-making, problem-	Attack w/ intent to injure	
	2. E2: students who received		solving, and social awareness skills	.37 .41 .33 .46	,
	intervention in 2 moderate	Exclusion criteria:		Striking/threatening parents	
	fidelity schools;	Not specified	Mechanism of delivery	.15 .15 .14 .23	
	3. C: students who received		School curriculum		—
	no intervention	Moderating/mediating factors		Girls	
		Two levels of school fidelity	Target population	E E2 E1 C	
	Cohort E is the combination of	•	Grades 4 and 5 students		—
	E1 and E2.	Outcome 1: violence		Striking/threatening other students	
		Measure: Antisocial and self-	Setting where intervention took place	.77 .74 .79 .76	
	Sample sizes were not given for	destructive behavior as measured	School	Attack w/ intent to injure	
	all or by groups.	by the National Youth Survey		.68 .66 .70 .79	
		(NYS) and the Youth Self Report	Setting where subjects were recruited	Striking/threatening parents	
	Age, gender & race groups:	rating scale in grade 11, 6 years	School	.04 .05 .03 .05	
	Not specified.	after the 2-year intervention			_
	_	program.	Person delivering program		
			Teachers	Discriminant analysis findings:	
		<u>Definition</u> : Not specified		1. For Boys, attack with intent to injure and	
			Time period/duration/frequency	striking/threatening parents combined with 6 oth	ıer
		Outcome 2: Adverse health	2 year program with 3 phases:	non physical aggression variables provided a	
		Not specified	Readiness phase, instructional phase,	discriminant function significantly discriminated	
			and application phase	experimental subjects from controls; F(8, 121) =	
		Outcome 3: Effectiveness		2.11, p<0.04; R=0.35). The three groups could in	not
		Not specified	Note:	be significantly differentiated.	
			This study did not provide sample	2. For girls, none of the physical aggressions we	ere
		Outcome 4: Safety	sizes and standard errors making it	entered into the discriminant function.	
		Not specified	impossible to assess effect size		

Appendix C2: Evidence Table 09: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Appendix C2. Evidence Table 07. Effectiveness of Trevention Interventions to Violent Benavior and Adverse Health Outcome						
Record #	Study Quality	Time/Place	Prevention Intervention:	Findings		
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and			
Year, Jnl		Outcome Definition	Characteristic			
5871	Study Design:	Time (begin, end):	Description of Program	RIPP 7 was designed to reinforce and extend the		

	Study Design:	Time (begin, end):	Description of Program	RIPP 7 was desi				
	Randomized controlled trial.	1997/98 implementation		effects of RIPP-	6 curricul	um. The	ey were t	esting the
Farrell	At each school, 7th grade	Follow up data collected at 6 and	Name of program	hypothesis that	students w	ho parti	cipated in	n RIPP-7
	homerooms were randomly	12 months post completion.	Responding in Peaceful and	would have mor	e positive	changes	s in know	ledge,
2003	assigned to intervention or no-	Place (city, state):	Positive Ways – 7 th grade	attitudes and be	haviors tar	geted by	y the inte	rvention.
	intervention.	Richmond, Virginia	(RIPP-7)					
J Child		Study Population:	<u>Level:</u> primary					
and	Individual study quality score	7 th graders at 2 public urban	Kind of program	Adjusted Rates	of violen	t behavi	ior per 1	00 students
Family	• retention rate <80%	middle schools serving primarily	Conflict resolution skills	(adjusted for p	retest diff	erences	, age, an	d gender).
Studies		African American youth. These	Mechanism of delivery		<u>Adjuste</u>	d Rates	Rate	
		youth had received the RIPP-6 in	Presented during elective		Control	RIPP	Ratio	95% CI
	Sample size (initial and actual):	the 6 th grade.	classes	Posttest	3.7	2.9	1.3	0.4-4.0
	Overall:	Inclusion criteria:	Target population	12 month	23.1	11.2	2.1*	1.1-3.7
	Initial: 476	7 th graders	7 th grade	<u>*</u> p<.05				
	Pre- & Post: 350	Exclusion criteria:	Setting where intervention					
	6-month follow-up: 340	Special education students	took place	Adjusted Mear				s for
	12-month follow-up: 195	Moderating/mediating factors	Middle School	violence behavi	ior freque	ncy sca	les	
		 Knowledge of the intervention 	Setting where subjects were					
	Initial:	 Attitudes towards violence and 	recruited		<u>Adjuste</u>			
	Intervention Group (Grp 1):	nonviolence	Middle School		Control		Size	95% CI
	239 students (10 classrooms)	Covariates	Person delivering program	<u>Posttest</u>	10.90	11.01	-0.11	-0.20-0.14
	Control Group (Grp 2):	 Gender and age 	2 trained prevention specialists	6-month FU	10.32	10.20	0.03	-0.21-0.27
	237 students (11 classrooms)	Outcome 1: violence	(1 per school)	12-month FU	11.16	10.57	0.10	-0.11-0.32
		Measure:	<u>Time</u>					
	Age Overall	 Frequency of violent 	period/duration/frequency					
	Range: 11.9-15.9	behaviors in past 30 days	12 weekly sessions focused on	Notes:				
	Mean±SD: 12.8±0.6	 Self-report scale by Problem 	skill building (intervention	No signification	ant impact	on disc	iplinary o	code
	Gender: All Grp1 Grp2	Behavior Frequency Scales (6-	group missed an average of	violations				
	Males 224 118 106	point scale)	1.1 sessions (SD=1.4); 38%					plinary code
	Race: overall	<u>Definition</u> : includes weapons,	had perfect attendance and	violent offe	nses durin	g the 8 th	grade ye	ear
	97% African American	fighting, and assaults.	93% missed 3 or fewer)					
		Type: undefined violent behavior						
	Note: no significant diffrences	Circumstance, Proactive/reactive	Notes if any					
	between interverntion and	Weapon used, Victim-offender	Both Schools also had a peer					
	control groups on gender, race,	relationship: Not reported	mediation program					
	age, or family structure at							
	p<0.05. No differences	Outcome 2: Adverse health						
	between actual and those who	Outcome 3: Effectiveness						
	left program	Outcome 4: Safety						
		Not indicated						

Record #	Study Quality	Time/Place	Prevention Intervention: Definition	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	1 munigs
Year, Jnl	Group(s) and Sample Size	Outcome Definition	and Characteristic	
rear, Jin		Outcome Definition		
2260	Study Design:	Time (begin, end):	Description of Program	Mean Perpetrator Outcome Score -
2200	Randomized controlled trial:	Nov 1994 through Mar 1995	Name of program:	School as the unit of analysis (n=14)
Foshee	Randomized controlled trial: Randomized on schools	Place (city, state):	Safe Dates program	School as the unit of analysis (11–14)
Toshec		A predominantly rural county	Level: Primary and secondary	(A) Primary Prevention
1998	stratified by grade and matched on school size	in eastern North Carolina	Kind of program	On 862 adolescents reported not a
1770		Mediating variables:	1. Behavioral/Cognitive (Dating	victim or perpetrator of dating violence
Am J	treatment subjects exposed to school and community	1. dating violence norms	violence norms, gender	at baseline
Public	activities	2. gender stereotyping	stereotyping)	Sexual violence Treated Control p
Health		3. belief in need for help	2. Conflict management skills	Baseline
11041111	• control subjects exposed to community activities only	4. awareness of services	Mechanism of delivery	1-month post 0.01 0.04 ns
	community activities only	5. help seeking	School Component:	Violence in current relationship
	Individual Study Quality Score	6. conflict management	1. A theater production performed	Baseline
	• Retention rate: 81%	7. response to anger	by peers	1-month post 0.01 0.03 ns
	No blinding	Outcome 1: violence	2. A 10-session curriculum by	1
	_	Measures	teachers who had 20 hrs training	Assessment of the mediating factors on
	No intent-to-treat analysis	4 measures on perpetration:	3. A poster contest	outcomes – Adolescent as unit of
	Sample size (initial and actual):	1. psychological abuse	Community Component:	analysis
	School:	2. nonsexual violence	1. Special services (crisis line,	On 862 adolescents
	• 14 schools: 7 treatment and	3. sexual violence	support groups, materials for	No significant association found.
	7 matched control schools	4. use of physical force in	parents) for adolescents in	
	Adolescents (Total):	current relationship	abusive relationships	(B) Secondary Prevention
	• 2344 eligible adolescents	<u>Type</u>	2. Community service provider	On 247 Perpetrators at baseline
	1006 (010() 1 1	Sexual assault	training	<u>Sexual violence</u> <u>Treated Control p</u>
	• 1886 (81%) completed baseline questionnaire	Circumstance	<u>Target population</u>	Baseline 0.25 0.21 ns
	1 - 1 - 10 - 1 - 0 - 10 - 10	Intimate partners	School Component: 8th & 9th	1-month post 0.07 0.18 p<.10
	• 1547 (82% of 1886) completed questionnaire at	Proactive/reactive	graders	
	1 mo post used in analysis	Not specified	Community Component: workers in	Violence in current relationship
	• 862 - never a	Weapon used	social & health services.	Baseline 0.31 0.20 ns
		Other	Setting where intervention took place	1-month post 0.17 0.16 ns
	victim/perpetrator438 - vicim of dating	Victim-offender relationship	School and community	
	• 438 - vicim of dating violence	Intimate partner	Setting where subjects were recruited	Assessment of the mediating factors on
		Outcome 2: Adverse health	School	outcomes – Adolescent as unit of
	• 247 - perpetrator of violence	None addressed	Person delivering program	analysis
	VIOICIICE	Outcome 3: Effectiveness	Peer for the theater production The description of the descripti	On 247 Perpetrators
	Of the 1700 cohort:	Change in the 4 outcome	• Teacher for the 10-session	Treatment condition was associated with
	Age: 11 to 17 years	measures at 1 month Outcome 4: Safety	curriculum	sexual violent perpetration (b=14, p=.026). This association was mediated
	Gender: 49% male; 51% female	None addressed	Time period/duration/Frequency	by changes in a) perceived negative
	Race: 77% white; 19% black	rione addressed	• Curriculum: 10, 45-min/session	consequences for using dating violence
	No breakdown by groups.		• 20 workshops for community	and b) awareness of perpetrator services.
			service providers	and of awareness of perpetrator services.

Appendix C2: Evidence Table 11: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention: Definition	
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl		Outcome Definition		
	I			-
2261	Study Design:	Time (begin, end):	Description of Program	To determine whether the positive short-
	Randomized control trial	Nov 1994-March 1995;	Name of program	term effects of the Safe Dates program were
Foshee		questionnaires completed in May	Safe Dates Program	maintained at 1-year follow-up.
	Individual study quality score	1996	Level	•
2000	1. RCT: Poor (no intent-to-treat	Place (city, state):	Primary and secondary	Mean Perpetrator Outcome Score - School
	analysis; attrition >20%)	Predominantly rural county in	Kind of program	as the unit of analysis (n=14)
Am J		eastern N. Carolina	1. Behavioral/Cognitive	
Public	Sample size (initial and actual):	Study Population:	Conflict management skills	(A) Primary Prevention
Health	<u>School</u>	Eight and 9 th graders	Mechanism of delivery	On 816 adolescents reported not a victim or
	•14 schools: 7 treatment and 7	Inclusion criteria:	School activities:	perpetrator of dating violence at baseline
NOTE:	matched control schools	Enrolled in 8 th or 9 th grade on	 Theater production 	Sexual violence Treated Control p
	Adolescents (Total)	September 10, 1994 with assent	2. 10-session curriculum	Baseline
This is the	•2344 elgible adolescents	and parental consent	3. Poster contest	1-year post 0.05 0.07 ns
one-year	•1886 (80.5%) completed	Exclusion criteria: none	Community activities	Violence in current relationship
follow-up	baseline questionnaires		1. Services for adolescents in	Baseline
study of	•1700 (90% of 1886)	Moderating/mediating factors	abusive relationships	1-year post 0.05 0.08 ns
#2260.	completed questionnaires at 1	Dating violence norms	2. Service provider training	
	month	Gender stereotyping	Target population	Assessment of the mediating factors on
	•1439 (76% of 1886)	Conflict management skills	School: eighth and ninth graders	outcomes – Adolescent as unit of analysis
	completed questionnaires at 1	Beliefs about need for help	Community: service providers	On 862 adolescents
	year used in analysis	Awareness of community services	Setting where intervention took	No significant association found.
	• 816 - never a	Help-seeking behaviors	place	
	victim/perpetrator	Outcome 1: violence	School and community	(B) Secondary Prevention
	• 398 - vicim of dating	1. Measure	Setting where subjects were	Of 225 perpetrators at baseline
	violence	2. Psychological abuse	recruited	Sexual violence Treated Control p
	• 225 - perpetrator of	3. Physical violence	School	Baseline 0.22 0.23 ns
	violence	4. Sexual violence5. Perpetrator in current	Person delivering program	1-year 0.15 0.12 ns
		1	Peers for theater production Teacher for curriculum	Violence in comment relationship
	Of the 1439 cohort:	relationship Type: Dating violence		Violence in current relationship Baseline 0.31 0.20 ns
	Gender: 51% female, 49% male	<u>Type</u> : Dating violence <u>Circumstance</u> : Dating	Time period/duration/frequency Curriculum: 10 45-minute sessions	
	Race: 20% black	Proactive/reactive: Not specified	Curriculum. 10 45-mmute sessions	1-year 0.15 0.12 ns
	No basel desar la como	Weapon used: Not specified	No other details provided in this	Assessment of the mediating factors on
	No breakdown by groups.	Victim-offender relationship: dates	article (see #2260)	outcomes – Adolescent as unit of analysis
		Outcome 2: Adverse health	masic (500 #2200)	Of the 225 perpetrators,
		Not addressed	Notes if any	Treatment group adolescents in the perpetrator
		Outcome 3: Effectiveness		subsample, compared with control group
		Change in the 4 outcome measures		adolescents, reported using less destructive
		at 1 year		responses to anger (p=.02) and were more
		Outcome 4: Safety		aware of perpetrator services (p=.06).
		Not addressed		r · r · · · · · · · · · · · · · · · · ·
	<u> </u>			

Appendix C2: Evidence Table 12: Effectiveness of Prevention Interventions to	Violent Behavior and Adverse Health Outcome
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Record #	Study Quality	Time/Place	Prevention Intervention:	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	
Year, Jnl		Outcome Definition		

Year, Jnl	Group(s) and S	umpic of	LC		
rear, om					
5995	Study Design:				
	Randomized cor	ntrolled tr	ial with		
Friedman	post assessment	at time of	f		
	discharge from f	acility, at	t 9		
2002	months after adr	nission, a	nd at 6		
	months post disc	charge fro	m		
J Child and	facility.				
Adolescent	Individual study	-			
Substance	• no intent-to-tre	eat analys	is		
Abuse	G 1 . // .		. 15		
Daga 1	Sample size (ini	tial and a	ctual):		
Page 1	Actual	of ominim	a1)		
	Total: 201 (84% of original)				
	Intervention Group (Grp A): 110				
	Cntrol Group (Grp C): 91				
	Age, gender & r	ace grour	os:		
	All		GrpC		
	Mean Age	- r	- r		
	15.5	15.5	15.5		
	SD	1.1	1.1		
	Gender 100% male				
	Race	%	%		
	Black	76.4	69.3		
	White	13.6	16.7		
	Puerto Rican	7.3	8.8		

Asian

Attrition Analysis showed for Group A that more white youth were retrieved for follow up. The retrieved group had a lesser degree of school problems. For Group C, more retrieved youth grew up in intact families, more youth had part-time employment, and the retrieved youth reported less illegal behavior at baseline.

1.8

2.7

<u>Time (begin, end):</u> Not specified <u>Place (city, state):</u> Philadelphia, PA <u>Study Population:</u>

Inner city, low SES, courtadjudicated male adolescents in a residential treatment center Inclusion criteria:

- New admission
- Male
- 13 18 years of old
- Committed by Family Court Exclusion criteria:
- Youth went AWOL from the residential facility
- Youth were considered unmanageable in the classroom setting
- Youth were removed from the facility and committed elsewhere
- Youths' parent failed to consent Moderating/mediating factors
- Age
- years of education
- being African-American
- being Caucasian
- occupational head of household
- growing up with biological parents
- having been physically abused
- problem behavior and attitudes

Outcome 1: violence

Measure: Violent Behavior measured at 15 months follow-up using a score based on a formula developed by Turner and Rutledge (1987). It was derived by assigning various weights to 8 of the 20 illegal offenses included in the "Legal" problem section of the ADAD (Adolescent Drug Abuse Diagnosis) Continued

Description of Program

Triple modality social learning program in a classroom, designed as a drug prevention/early intervention program Name of program

Intervention uses 3 programs

- 1) Botvin Life Skills Training Model (LST)
- 2) The Prothrow-Stith Anti Violence Program (AV)
- 3) Values Clarification (VC)
 <u>Level:</u> secondary
 Kind of program
- Cognitive behavioral social learning model for understanding the effects of drugs on health and behavior
- Social learning model for controlling tendencies toward violence
- Social learning model for clarifying values and developing new values

Mechanism of delivery

55 classroom sessions scheduled; average of 34.2 classroom sessions attended

Target population

Adolescents who had been convicted of at least one illegal offense of sufficient seriousness to warrant a court procedure, and may have had early involvement in the use of "gateway" drugs or other illicit substances. The majority had ben subject, before admission, to multiple risk factors.

The main hypothesis was that program participants (A) would be found at the follow up assessment (15 months after admission to the project) to have made significantly more positive changes compared to the controls in: drug use, illegal offenses, violent illegal offenses, selling drugs, school problems

Comparison of program participants with control subjects on degree of reduction in problem behavior, time of follow up evaluation, using multiple regression analysis (dependent variable is degree of violent offenses, covariates listed under moderating/mediating factors):

t- value comparing Group A and Group C based on 201 subjects was 0.44. (For an N of 200, a t value of 1.97 or better is significant at the .05 level of confidence

Conclusion:

- The AV program has the potential to be effective in reducing violent behavior.
- Triple-modality classroom program that was utilized did not show a significant advantage for reducing the degree of illegal or violent behavior.

Continued

Appendix C2: Evidence Table 12: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Table 12: Effectiveness of Prevention II Time/Place	Prevention Intervention:	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	Findings
	Group(s) and Sample Size		Definition and Characteristic	
Year, Jnl		Outcome Definition		
5995	1	Definition, nainte determined her	Catting and are intermedian to al-	
3993		<u>Definition</u> : points determined by	Setting where intervention took	
E : 1		system looking at:	place	
Friedman		• assault or gang fighting (1 pt)	Residential facility and classroom	
2002		• weapons offenses (1.5 pt)	Setting where subjects were	
2002		• robbery (2 pts)	recruited	
1.01.11.1		 arson or rape or reckless 	Residential Treatment Program	
J Child and		endangerment (3 pts)	Person delivering program	
Adolescent		• homicide/manslaughter (5 pts)	Teacher, not specified	
Substance			Time period/duration/frequency	
Abuse		<u>Type</u> : assault, gang fighting, weapon	20 sessions of LST during a 4	
D 2		offense, robbery, arson, rape,	week period.	
Page 2		reckless endangerment, and	20 sessions of AV.	
		homicide.	15 of VC	
		Circumstance, Proactive/reactive:	Intervention group attended an	
		Not report	average of 34.2 classroom sessions	
		Weapon used	of 55 sessions that were scheduled.	
		Weapon offenses included in point		
		system.	Notes if any	
		Victim-offender relationship	16% attrition rate between the post	
		Not reported	assessment and the follow up	
			assessment in the community.	
		Outcome 2: Adverse health		
		Not reported	Those who attended more of the	
		•	AV sessions and who also were	
		Outcome 3: Effectiveness	rated as showing more critical	
		As compared to Group C, Group A at	thinking about problems, were	
		15 months assessment after	found at follow up to report	
		admission to the project would have	significantly less violent behavior.	
		made significantly more positive	On the other hand, those who were	
		change, to 6 key outcomes: drug use,	rated as "offering more comments"	
		alcohol use, illegal offenses	during these sessions were found at	
		committed, violent illegal offenses	follow up to report significantly	
		committed, selling of drugs, school	more violent behavior.	
		problems.		
		Outcome 4: Safety		
		Not reported		

Appendix C2: Evidence Table 13: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Study Quality Time/Place Prevention Intervention: Findings

Record #

Record #	Study Quanty	Time/Flace	r revention intervention.	Findings
Author	Group(s) and Sample	Inclusion/Exclusion Criteria	Definition and	
Year, Jnl	Size	Outcome Definition	Characteristic	
,				
4048	Study Design:	Time (begin, end):	Description of Program	To evaluate whether school-based metal detector programs
.0.0	Cross-sectional study	1991-1992 school year	Description of Fragram	reduce violence behaviors in schools and to and from
Ginsberg	Cross sectional study	1991 1992 selloof year	Name of program	schools.
Gillsberg	Individual study quality	Place (city, state):	School-based metal detector	SCHOOLS.
1993		New York, NY		Outcome 1 Violence behaviors: Involved in a physical fight
1993	score Poor (potential	New Tork, NT	program	at least once during the 1991-92 school year.
MAMA	confounders no controlled	Stude Demoletien	Larrate Deignagen	at least once during the 1991-92 school year.
MMWR		Study Population:	Level: Primary	(4) 1 - 0':
	for).	Sample of 9 th -12 th grade		(A) by Site
		students of all NYC public	Kind of program	
	Sample size (actual only):	high schools	Random, weekly scans using	<u>Factor</u> <u>% (95% CI)</u>
	Overall:		hand-held metal detectors	To/from School 9.2 (6.3-12.1)
	1399 students	Inclusion criteria: None		Inside School 7.7 (5.0-10.4)
	15 schools		Mechanism of delivery	Anywhere 24.7 (21.5-28.0)
	Intervention:	Exclusion criteria: None	On entry to school building	
	243 students			(B) by Metal detector program
	3 schools	Moderating/mediating factors	Target population	
	Control:	None	New York City youth	Metal detector program No program
	1156 students			Behavior % (95%CI) % (95%CI)
	12 schools	Outcome 1: violence	Setting where intervention	Anywhere 26.2 (14.4-38.0) 24.4 (21.5-27.3)
	12 56115015	Measure/Definition:	took place	To/From school 9.4 (6.4-12.3) 9.1 (5.6-12.6)
	Age, gender & race	Involved in a physical fight at	High schools	Inside school 7.5 (0.4-14.5) 7.8 (4.9-10.7)
	groups: not specified	least once during the school-	Tilgli schools	Hiside school 7.5 (0.4-14.5) 7.6 (4.5-10.7)
	groups. not specified	year.	Setting where subjects were	
		year.	recruited	
		Harry management of Calif management of	· · · · · · · · · · · · · · · · · · ·	
		How measured: Self-reported	High schools	
		All d l d d	D 11' '	
		All other characteristics:	Person delivering program	
		Not specified	Security officers	
		Outcome 2: Effectiveness	Time	
		Prevalence of violent	period/duration/frequency	
		behaviors	Weekly, for one school year	
		benaviors	weekly, for one school year	
		Outcome 3: Adverse Health	Notes if any	
		Not studied	Students were scanned at	
		110t studied	random	
		Outcome 4: Safety	Tanaoni	
		Not studied		
	l	110t Studied	1	

Appendix C2: Evidence Table 14: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Record # Study Quality Time/Place Prevention Intervention: Definition Findings

Record #	Study Quanty	Time/Frace	Frevention intervention: Definition	rinumgs
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl		Outcome Definition		
6187	Study Design:	Time (begin, end):	Description of Program	The purpose of the study was to examine
	Retrospective single group	1984-1989	The program used group process as	recidivism rates of adolescent rapists
Hagan	study-before and after time	17011707	the cornerstone. Most treatment	incarcerated at a state juvenile correctional
Hagan	series.	Place (city, state):	occurred in groups; most issues	facility This study examined the effectiveness
1994	series.	Wales, Wisconsin	related to being a delinquent and sex	of a treatment program for serious sex
1774	Individual study quality score	wates, wisconsin	offender, using techniques that were	of a treatment program for serious sex
Int J	Poor (no control group).	Study Population:	both confrontational and supportive.	offenders.
	Poor (no control group).			Namel and a support desired a support
Offender		Adolescent male convicted of a	Name of program	Number and percent during 2-year post-
Therapy &		serious sexual assault and	Stout Cottage Serious Sex Offenders	discharge
Compara-	Sample size (initial and actual):	perpetrated crimes of sexual	Program (SSOP)	
tive	50	assault against members of the	<u>Level</u> : Tertiary	N %
Crimino-		opposite sex. All had a conduct	Kind of program	
logy	Age, gender & race groups:	disorder of an aggressive type.	Group therapy process	Committed additional sexual assault
		Inclusion criteria:	Mechanism of delivery	5/50 10%
	Age: Not specified	See above	Group therapy, open entrance open	
	Gender: 100% males	Exclusion criteria:	exit. Average of 8 youth present in	Convicted of another crime perpetrated
	Race: Not specified	Not specified	each group.	against a person 14/50 28%
		Moderating/mediating factors	<u>Target population</u>	
		Not specified	Convicted adolescent male rapists	
			Setting where intervention took place	The 10% and 28% can be considered as
		Outcome 1: violence	Ethan Allen School-secure	failure rates of the program.
		Measure: recidivism rate of sexual	residential facility for male juvenile	1 0
		assaults and criminal activities	offenders	
		during 2-year post discharge	Setting where subjects were recruited	
			Ethan Allen School, part of the	
		<u>Definition</u> : Crime perpetrated	Department of Health and Social	
		against a person included robbery,	Services, Division of Youth Services.	
		battery, disorderly conduct, and	Person delivering program	
		sexual assault	A social worker, a consulting	
		Serial assault	psychologist, and non-degreed youth	
		Outcome 2: Adverse health	counselors	
		Not specified	Time period/duration/frequency	
		Outcome 3: Effectiveness	Group therapy was for 3 one-hour	
		Failure rate in terms of	sessions per week. On average, it	
		reincarceration or success rate of	took subjects 8 months to complete	
		avoiding reincarceration.	the group process.	
		Outcome 4: Safety	the group process.	
		Not specified		
		Not specified		

Appendix C2: Evidence Table 15: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome Findings

Record #	Study Quality	Time/Place	Prevention Intervention:	Findings		
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	2 222422		
Year, Jnl	2-1-1-P(0) 111-1-P-1-2-1-1	Outcome Definition				
2563	Study Design:	Time (begin, end):	Description of Program	Reports prelimin	ary findings of a	program to
	Nonrandomized control trial	1989-1990 school year		train African-An	nerican adolescen	ts in social
Hammond		Place (city, state):	Name of program	skills, an approa	ch which shows p	romise as a
	Individual study quality score	Dayton, Ohio	Positive Adolescents Choices	means of preven	ting violence.	
1991	Poor (potential confounders not	Study Population:	Training (PACT)	•		
	controlled)	Selected high risk African		School Suspensi	ions Attributed t	to Violence*
J Health		American middle school students	<u>Level:</u> Secondary			
Care for		Inclusion criteria:		Groups	Beginning of	End of
the Poor	Sample size (initial and actual):	Youth were selected by teachers on	Kind of program		Training	Training
and	Overall: 28	the basis of such criteria as	Social skills training-behavioral			
Under-		deficiencies in skills needed to	component	Intervention	2/15 (13%)	0/15 (0%)
served	Intervention Group (Grp 1): 15	interact with peers, behavior		Partially trained		1/6 (16%)
		problems (particularly aggression),	Mechanism of delivery	Control	3/13 (23%)	7/13 (54%)
	Control Group (Grp 2): 13	or history of victimization by	Small-group training-composed of			
		violence.	10-12 youths	P-value	0.57	0.003
	Age, gender & race groups:			P (Int vs Con)	0.64	0.001
		Exclusion criteria:	<u>Target population</u>			
	Age: Middle School students	Not specified	Selected high risk African American middle school students	*Time period of	data not specified	l.
	Gender: Not specified	Moderating/mediating factors	induc school students			
	Gender: 1vot specified	Not specified	Setting where intervention took			
	Intervention Group	1 tot specifica	place			
	African-American: 93% (14)	Outcome 1: violence	School			
	White: 6% (1)	Measure: Suspension attributed to	School			
	(The white student was	violence	Setting where subjects were			
	excluded in analysis.)	Definition: Not specified	recruited			
	Control Group	Type: Not specified	School			
	Race: Not specified	Circumstance: Not specified	Selicor			
	- and a second	Proactive/reactive: Not specified	Person delivering program			
		Weapon used: Not specified	Two African-American doctoral-			
		Victim-offender relationship: Not	level clinical psychology students			
		specified	1.7.			
		1	Time period/duration/frequency			
		Outcome 2: Adverse health	Each group had 37 or 38 training			
		Not studied	sessions lasting a class period			
		Outcome 3: Effectiveness	(about 50 minutes)			
		Reduction in suspension attributed				
		to violence	Notes if any			
		Outcome 4: Safety	_			
		Not studied				

Appendix C2: Evidenc	e Table 16: Effectiveness of Prevent	ion Interventions to Violent Behavior a	and Adverse Health Outcome
Study Quality	Time/Place	Prevention Intervention: Definition	Findings

Record #

Record #	Study Quanty			Time/Flace	Frevention Intervention: Definition	rinumgs
Author	Group(s) and S	ample S	Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl				Outcome Definition		
6221	Study Design:			Time (begin, end):	Description of Program	The principal aim of this study was to
	Randomized cor	ntrolled t	rial		Individual counseling, mentoring,	determine the effectiveness of a data-based,
Hanlon	(Two youth bure	eaus wer	e	Not stated	and help with school problems, basic	early intervention strategy designed to
	randomly assign				learning and study skills, refinement	interrupt the development of deviance,
2002	treatment one to			Place (city, state):	of social and life coping skills,	including substance abuse in youth from
		,		Baltimore, Maryland	cultural heritage, enhancement of self	largely African American inner-city
J Youth	Individual study	quality	score		esteem, conflict resolution,	neighborhoods who were considered to be at
and	• attrition rate no			Study Population:	avoidance of substance abuse,	high risk for progression in deviance on the
Adoles-	• validity of inst			Inner-city youth at high risk of	HIV/AIDS education and prevention,	basis of early signs of aberrant behavior.
cence	addressed	i umcmi i	101	adopting a deviant lifestyle.	community health and recreational	Violence was one of the outcomes evaluated
Conce	addressed			adopting a deviant mestyre.	resources. Field trips, holiday	as a section of a comprehensive youth
Page 1 of	Sample size (init	tial and a	octual):	Inclusion criteria:	celebrations Informal discussions	questionnaire.
2	Total:	uai anu a	428	Informed consent of youth and	with parents and parent child social	questionnaire.
	Intervention Gro	N1172*	235	caregiver that met any 1 or more of	events.	Poisson regression analysis in which the
	Control Group:	աք.	193	the 3 criteria:	Name of program:	dependent variable is violent behavior:
	Control Group.		193	1. Known or admitted early	An early community-based	dependent variable is violent behavior.
	Age			experimentation with alcohol or	intervention for the prevention of	Risk Factor χ^2 p
	Intv	Con	Total	drugs	substance abuse and other delinquent	1 Prior instance of violence 13.0 0.0003
	Range	Con	9-17	2. History of delinquency or other	behavior.	2 Peer deviance 0.0045
	Mean 13.0	13.6	13.3	deviant behavior, including	Level: Secondary	3 School problematic behavior 0.0067
	SD 13.0	13.0	1.91	criminal activity, incorrigibility	Kind of program	4 age by clinic effect 0.0016
	SD		1.71	and precocious sexual behavior	Behavioral cognitive and skill	age by enime effect
	Gender			3. Expulsion from school or other	building	Note: χ^2 values were not provided for other
	# Male 125	126	251	indication of problematic school	Mechanism of delivery	effects.
	%Male 53	65	59	behavior.	Individual counseling and group	
	P=0.012				mentoring	
				Exclusion criteria:	Target population	Peer deviance includes peer expulsion from
	Race			Primary Problem of Substance	Inner-city youth at high risk of	school, close friends arrested, convicted,
	#(%) AfrAm	417(97	7.4)	abuse	adopting a deviant lifestyle.	paroled and /or incarcerated
	# (%) White	11(2			Setting where intervention took place	
	, ,	`	,	Moderating/mediating factors	Community-based "Youth Bureaus"	
				Welfare involvement	clinic	
				Parental separation	Setting where subjects were recruited	
				Parental history of	Youth were referred by family	
				incarceration	(50%), school (26%), community	
				Deviant behavior of peers	service agencies (17%) or Maryland	
				School attendance	Dept of Juvenile Justice (6%).	
				<u>continued</u>		<u>continued</u>

Appendix C2: Evidence Table 16: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Arrest history Weapon carrying Sexual activity Outcome 1: violence Measure Self report physical violence behavior through "Youth Questionnaire" developed by researchers on vulnerability to substance abuse and family background and early development of methadone maintenance clients and children. At 1-year follow-up, only past 6-months' self-report information was obtained. Definition Physical assault, mugging, robbery with a weapon, arson, participating in a gang fight and shooting at someone Type: aggravated assault, non aggravated assault, non aggravated assault, robbery, gang Part under the tachers management approach involving needs assessment, planning and review of mutually agreed upon treatment goals and advocacy referral procedures. Counselor: Clinic staff trained as case manager Mentor: young African American college students Part time teachers Time period/duration/frequency 4-5 days per week after school and weekends over about 1 year or more information was obtained. Definition Physical assault, non aggravated assault, non aggravated assault, robbery, gang	Record #	Study Quality	Time/Place	Prevention Intervention: Definition	
Moderating/mediating factors	Author		Inclusion/Exclusion Criteria	and Characteristic	
Hanlon Page 2 of 2 Definition Physical assault, mugging, robbery with a weapon, arson, participating in a gang fight and shooting at someone Type: aggravated assault, non aggravated assault, non aggravated assault, robbery, gang as year of the decade and care follows a Crime related deviant behavior ever trained in a case manager management approach involving meads assessment, planning and review of mutually agreed upon treatment goals and advocacy referral procedures. Counselor: Clinic staff trained as case manager Mentor: young African American college students Part time teachers Definition Physical assault, mon aggravated assault, non aggravated assault, nobbery, gang Existing clinic personnel who were trained in a case manager management approach involving meads assessment, planning and review of mutually agreed upon treatment goals and advocacy referral procedures. Counselor: Clinic staff trained as case manager Mentor: young African American college students Part time teachers Part time teachers Definition Physical assault, mon aggravated assault, non aggravated assault, non aggravated assault, nobbery, gang	Year, Jnl		Outcome Definition		
Circumstance, Proactive/reactive Weapon used, Victim-offender relationship: not specified Outcome 2: Effectiveness See outcome measure Outcome 3: Adverse Health	Author Year, Jnl 6221 Hanlon 2002 J Youth and Adoles- cence Page 2 of		Inclusion/Exclusion Criteria Outcome Definition Moderating/mediating factors School related problems Crime related deviant behavior Arrest history Weapon carrying Sexual activity Outcome 1: violence Measure Self report physical violence behavior through "Youth Questionnaire" developed by researchers on vulnerability to substance abuse and family background and early development of methadone maintenance clients and children. At 1-year follow-up, only past 6-months' self-report information was obtained. Definition Physical assault, mugging, robbery with a weapon, arson, participating in a gang fight and shooting at someone Type: aggravated assault, non aggravated assault, robbery, gang fight Circumstance, Proactive/reactive Weapon used, Victim-offender relationship: not specified Outcome 2: Effectiveness See outcome measure	Person delivering program Existing clinic personnel who were trained in a case management approach involving needs assessment, planning and review of mutually agreed upon treatment goals and advocacy referral procedures. Counselor: Clinic staff trained as case manager Mentor: :young African American college students Part time teachers Time period/duration/frequency 4-5 days per week after school and	The study states that: 1. Age was also a highly relevant characteristic for most outcome measures — older subjects reporting relatively greater substance abuse, sexual behavior, and delinquent activity, including violent activity, along with a greater incidence of arrest at follow up. 2 The finding that poor parenting practices tended to be related to involvement in violent activity at follow up is consistent with the observation of others that poor parenting is one of the most important risk factors for violence. 3. in the present study peer deviance was a prominent predictor of both marijuana use and number of types of delinquent and violent activity engaged in at follow-up However there is no quantification of the conclusions above except as noted in the initial chart with p values related to peer

Appendix C2: Evidence Table 17: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record # Study Quality Time/Place Prevention Intervention: Definition and Characteristic Findings Author Group(s) and Sample Size Inclusion/Exclusion Criteria	
Year, Jnl Outcome Definition	
2588 <u>Study Design</u> : <u>Time (begin, end):</u> Year not <u>Description of Program</u> The All Stars character education and	roblem
Partially randomized controlled specified (program was piloted Name of program prevention program seeks to impact on	
Harrington study. tested in spring of 1995) All Stars character education and mediating variables in order to impact	on
14 middles schools: T1 Pretest – Sept/Oct problem behavior prevention sexual activity, substance use, and vio	ent
2001 8 schools received treatment T2 Post test- May program behavior of middle school students.	
(5 by specialists and 3 by T3 Follow up – 1 year later <u>Level:</u> primary	
Health school teachers); Place (city, state): Kind of program Mean Violence as a function of Time	,
Education 6 schools did not received Largest cities in Midwestern state Seeks to modify targeted mediating Condition, and Ethnicity	
and treatment. Study Population: variables based on Hansen's review African American	
Behavior Sixth or 7th grade students of risk and protective factors found to Condition T1 T2 T3	
Individual study quality score Inclusion criteria: predict alcohol, tobacco, and drug Control 1.35 1.40 1.5	9
Poor (improper randomization Consent signed use. Specialist 1.41 1.38 1.5	
scheme; attrition >20%) <u>Exclusion criteria</u> : <u>Mechanism of delivery</u> Teacher 1.35 1.32 1.2	7
None identified • Whole classroom debates, <u>White</u>	
Moderating/mediating factors games, and general discussion Condition T1 T2 T3	
Sample size (initial and actual): • Positive ideals • Small group sessions outside of Control 1.25 1.27 1.3	
Initial pre test: 2289 students • Beliefs in conventional norms class Specialist 1.26 1.31 1.4	
Completed all posttest –1655 • Commitments not to use • One on one sessions between Teacher 1.28 1.27 1.4	2
(72%) substances instructor and student <u>Hispanic</u>	
Gp 1: Intervention: 629 • Bonding to school • Homework to promote Condition T1 T2 T3	
Gp 2: Control: 739 Outcome 1: violence interaction between students and Control 1.19 1.18 1.3	
Measure: mean of 10 items parents Specialist 1.28 1.34 2.0	
Pattern of attrition did not result selected from extant delinquency <u>Target population</u> Teacher 1.24 1.22 1.2	2
in a smaple markedly different scales. Middle school students	
from the population of interest. Definition: violence towards other Setting where intervention took place • Only the time effect was significant or signifi	
Age, gender & race groups: School violence F(2, 1651)=14.68, persons	
Total sample at baseline: Type, Circumstance, Proactive/ Setting where subjects were recruited Mean violence did not differ from	
reactive, Weapon used School to posttest but evidenced a clear in	
Age: Mode: 12 years Victim-offender relationship, not Person delivering program across all conditions from posttest	to
specified Program specialists or classroom follow-up.	
Gender: Female 55% Outcome 2: Effectiveness teachers • Time, condition and ethnicity interesting the condition and ethnical ethnical ethnical ethnical ethnical ethnical ethnical ethnical ethnic	
changes in four targeted mediators Time period/duration/frequency was significant, F(8, 3290)=3.12,	
Race: White 69% and sexual activity, substance use, Program implemented from about • African American, Hispanic and V	
Afr Am 25% and violent behavior October – May. No total hours / students showed no change in viol	
Hisp 6% Outcome 3: Adverse health sessions specified. from pre to post test. From post test.	st to

follow-up, Hispanic students remained

decreased slightly and Whites increased

stable, while African Americans

somewhat.

Not adddressed

Not specified

Outcome 4: Safety

Appendix C2: Evidence Table 18: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome Record # Study Quality Time/Place Prevention Intervention: Definition and Findings

IXCCOI U #	Study Quanty	Time/Tiacc	1 Tevention intervention. Deminion and	Thungs
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Characteristic	
Year, Jnl		Outcome Definition		
, , , ,	1			
117	Study Design:	Time (begin, end):	Description of Program	To examine the long-term effects of
117	Nonrandomized control trial	1981-1993	Name of program	an intervention combining teacher
Hawkins	(Seattle Social Development	Place (city, state):	Not specified	training, parent education, and
nawkiiis	Project Intervention)	Seattle, WA	Level: Primary	social competence training for
1000	Project intervention)			
1999	T 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Study Population:	Kind of program	children during the elementary
	Individual study quality score	Elementary school students	Package of 3 interventions:	school grades on adolescent violent
Arch	Fair (questionable	Inclusion criteria:	Classroom instruction and management	behavior at age 18 years
Pediatr	comparability of study and	Fifth grade students enrolled in	to provide teachers skills in proactive	
Adolesc	control groups)	participating schools who had	classroom management, interactive	<u>Full</u> =full intervention (received
Med		written parental consent to	teaching, and cooperative learning	intervention from grades 1-6)
	Baseline sample size (group	participate in the longitudinal study	2. Child skill development in alternative	<u>Late</u> =late intervention (received
	that received intervention)	Exclusion criteria:	solutions to problems with peers	intervention only in grades 5-6)
	Total: 643	None specified	3. Parent intervention to train parents in	
	Full intervention: 156	Moderating/mediating factors	child behavior management skills	
	Late intervention: 267	Not specified	Mechanism of delivery	Prevalence of lifetime violence
	Control: 220		All components of intervention package	Control Late Full
		Outcome 1: violence	delivered in group setting using a curriculum	59.7 56.4 48.3
	Analysis sample size (group on	Measure: reduction in lifetime	Target population	
	which outcomes were	violent behavior reported at age 18	Elementary school students, their parents,	Control vs. Full
	measured)	violent behavior reported at age 10	and their teachers (enrolled in grade 1,	Difference (95% CI) p-value
	Total: 598	Definition: Self-reported violent	intervention provided in grades 1-6)	-11.4 (-21.3 to -0.4) .04
	Full intervention: 149	acts with follow-up 6 years after	Setting where intervention took place	-11.4 (-21.3 to -0.4) .04
		intervention	School	Control vs Late
	Late intervention: 243	intervention		
	Control: 206		Setting where subjects were recruited	Difference (95% CI) p-value
		Type;Circumstance;Proactive/react	School	-3.3 (-12.0 to 6.3) .54
	Age, gender & race	ive;Weapon used;Victim-offender	Person delivering program	
	characteristics of Baseline	relationship: Not specified	1. Classroom instruction and management:	
	sample		Not specified	
	Age: 5 th graders	Outcome 2: Adverse health	2. Child skill development: teachers	
		Definition of outcome measure(s)	3. Parent intervention: not specified	
	Gender:	Not specified	<u>Time frequency/duration</u>	
	Full intervention 50.6% male		1. Classroom instruction and management:	
	Late intervention 48.7% male	Outcome 3: Effectiveness	5 days of inservice training	
	Control group 53.6% male	Definition of outcome measure(s)	2. Child skill development: Not specified	
		Reduction in violent behavior at	for grades 1-5; in grade 6, 4 hours of	
	Race:	age 18 yrs	training	
	Full intervention 46.8% white	Outcome 4: Safety	3. Parent intervention: 7-session	
	Late intervention: 42.7% white	Definition of outcome measure(s)	curriculum in grade 1, 5-session	
	Control group: 44.5% white	Not specified	curriculum in grades 2 and 3, 5-session	
	Control group. 44.370 white	Two specified	curriculum in grades 2 and 3, 3-session curriculum in grades 5 and 6.	
			currentum in grades 3 and 0.	<u> </u>

Appendix C2: Evidence Table 19: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Study Quality Time/Place Prevention Intervention: Findings

Record #

Author Year, Jnl	Group(s) and Sample Size	Inclusion/Exclusion Criteria Outcome Definition	Definition and Characteristic			
			l			
2644 Henggeler 2002	Study Design: Randomized Controlled Trial with 4-year follow-up outcome. Individual study quality score	Time (begin, end): Mid 1990's Place (city, state): Not stated Study Population: Juvenile offenders with substance	Description of Program Name of program Multi-systemic therapy (MST) vs. usual community services. Level: Tertiary – focused on youth	Purpose: To address the gap in the adolescent substance abuse treatment literature by implementing a randomized clinical trial using MST with adolescent substance abusers and collecting long term follow up assessments.		
J Am Acad of Child and Adol Psychiatry	• Retention rate <80%) • no intent-to-treat analysis Sample size (actual): Initial (T1) 118 Actual (T5) 80 (68%) Intervention Group (Grp 1): 43 Control Group (Grp 2): 37 Age, gender & race groups: Time 1 Time 5 N 118 80 Age 15.7 19.6 Male 79% 76% Race Af Am 50% 60% White 47% 40% Other 3% 0% Research dropouts did not differ from research completers.	abuse and dependence. The families were economically disadvantaged. Inclusion criteria: offenders meeting DSM III-R criteria for substance abuse or dependence Exclusion criteria: None Moderating/mediating factors Demographic characteristics Comorbid psychopathology Initial T1 levels of illicit drug use Initial T1 levels of criminal behavior Outcome 1: Criminal Behavior Measure: 4-year aggressive crimes score - aggregate of items measured in the Self-Report Delinquency (SRD recoded into 3-point Likert scales (0=none, 1=1-3 times, 2=more than 3 times in the past year) and summed to form total Aggressive Crimes score. Definition: Major assaults, minor assaults, and strong-armed robbery. Circumstance, Proactive/reactive, Weapon used, Victim-offender relationship, Adverse health effects and Safety Outcomes: Not noted	offenders Kind of program MST- includes multiple interventions including family therapy, parenting, cognitive behavioral therapies, and medication, as indicated Mechanism of delivery Strategic family therapy, structural family therapy, behavioral parent training, and cognitive-behavioral therapies. Target population Juvenile offenders meeting DSM III R criteria for substance abuse or dependence and their families Setting where intervention took place Home-based Setting where subjects were recruited Not stated Person delivering program Master's level clinicians supervised by a child/adolescent psychiatrist. Time period/duration/frequency Average of 46 hours of contact per family over an average of 130 days of treatment. 24/7 availability of therapists.	Aggressive MST Usual Mean±SD Mean±SD p Aggression scale 0.61±0.90 1.36±2.21 <.05 Annualized Conviction rate 0.15±0.43 0.57±1.80 <.05 Multivariate analysis using youth age and T1 marijuana use as covariate showed statistically significant (p<.05) lower recidivism rate in the MST group. Moderator effects: No significant moderator effects were obtained. Thus the impact of treatment did not vary as a function of demographic characteristics, comorbid psychopathology, or initial (T1) levels of illicit drug use and criminal behavior.		

Appendix C2: Eviden	ce Table 20: Effectiveness of Preven	tion Interventions to Violen	t Behavior and Adverse Health Outcome
Study Quality	Time/Place	Prevention Intervention:	Findings

Record #

Recora #	Study Quanty	1 ime/Piace	Prevention Intervention:	Findings			
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and				
Year, Jnl	• ` `	Outcome Definition	Characteristic				
1 cur, om	<u> </u>	Outcome Demitton	Chai acterigue	<u> </u>			
10500	C. I.D.	m: 4 · 1)	D : 4: 6D	TD + 41 - 66 - 4 - 6	1 4 6	6 1.1	
10598	Study Design:	Time (begin, end):	Description of Program	To examine the effects of re			
	Randomized controlled trial -	Identification of families: July-Dec	Name of program	poverty neighborhoods on j			
Ludwig	community based trial. Families	1997	The Moving to Opportunity	gathered by a randomized l	nousing-mol	oility experime	nt.
	were randomized into 3 groups:	Outcomes collected through March	(MTO) demonstration is				
2001	Experimental group: families	1999	based in 5 cities: Baltimore,	I. Preprogram arrests percent	<u>s</u>		
	receive housing subsidies,	Place (city, state):	Boston, Chicago, Los	# of arrests Total	<u>Exp.</u>	Section-8	<u>Control</u>
Quarterly J	counseling, and search	Baltimore, Maryland	Angeles, and New York.	(n=336)	(n=148)	(n=92)	(n=96)
Economics	assistance to move to private-	Study Population:	The study uses data from the	One 9.0%	9.5%	9.8%	7.3%
	market housing in low-poverty	Teens from families enrolled in the	Baltimore site.	Two 2.1%	3.1%	0.6%	2.1%
	census tracts;	HUD MTO experiment in Baltimore		3 or more 1.2%	1.0%	1.6%	1.0%
	Section-8 only comparison	who are considered "at risk" for	Level: Secondary				
	group: families receive private-	criminal involvement in postprogram					
	market housing subsidies with	period	Kind of program	IL FEFECTS OF MTO ON I	IIVENII E V	IOI ENT CRIN	JE ΔRRESTS
	no program constraints on	Inclusion criteria:	Housing-mobility	II. EFFECTS OF MTO ON JUVENILE VIOLENT CRIME ARRES' (*p<0.1**p<0.05 Intent-to-treat effects (coefficient estimates) for incidence of violent			TE TIKKES IS
	relocation choices;	Eligibility to MTO was restricted to	experiment				
	Control group: families received	low-income families with children	experiment				6 . 1
	no special assistance under	who lived in public housing in one	Mechanism of delivery				
	MTO.		Physical environment	crime (number of violent crin	ne arrests pe	•	
	WIO.	of the five poorest census tracts in	1			Exp	Section-8
	T., di., i d., -1 -4 d., 1i4	the city	change		<u>Control</u>	vs. control	vs. control
	Individual study quality score	• For this study, teens must be at	T	Risk Group of Interest	Mean	Coef (SE)	Coef (SE)
	• retention rate not reported	least 11 years old but less than 16	Target population	Total sample (n=336)			
	 no blinding of assessments 	years old at time of random	Teens living in high-poverty	Unadjusted	3.0	-1.0 (0.8)	-1.4 (0.8)*
		assignment into experimental,	neighborhoods who are "at	Regression-adjusted	3.0	-1.6 (0.8)**	-1.4 (0.8)*
	Sample size:	section-8, or control group	risk" for criminal				
	Total sample: n=336	Exclusion criteria:	involvement		Regressio	n-adjusted coef	ficient (SE):
	Experimental: n=148	Children under 11 years old or older		Teens with no preprogram	-	•	
	Section-8: n=92	than 15 years old	Setting where intervention	arrests (n=256)	2.2	-1.0 (0.7)	-1.4 (0.8)*
	Control group: n=96	Moderating/mediating factors	took place	Males (n=162)	4.3	-2.9 (1.4)**	-1.9 (1.2)
		Household characteristics	Community	Females (n=174)	1.8	-0.7 (0.7)	-0.4 (0.9)
	Age, gender & race groups:	African-American		Intent-to-treat effects (coefficient estimates) for prevalence of viol crime (percent of teens arrested per quarter during postprogram per			
		Female householder	Setting where subjects were				
	Total Sample	Householder age	recruited				Section-8
	$\overline{\text{Age}}$: Range 11 – 15 years	Number of children	Community	Control vs. control		vs. control	
	Gender: 157 (46.7%) male	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	•	Risk Group of Interest	Mean	Coef (SE)	Coef (SE)
	Race: 327 (97.3%) Af-Am.		Person delivering program	Total sample (n=336)	ivican	Coci (BL)	COCI (DL)
	<u>1440</u> . 327 (37.370) 111 1111.	GED	Housing Authority of	Unadjusted	2.7	-0.8 (0.7)	-1.2 (0.8)
	<u>Grp-1</u> <u>Grp-2</u> <u>Grp-3</u>	AFDC at baseline	Baltimore (HAB) and the	Adjusted	2.7		
		Past 6 months, someone victim of	Community Assistance		2.7	-1.3 (0.7)*	-1.2 (0.8)
	Age: 11 19.7% 15.7% 21.9%	crime	Network (CAN)	Teens with no preprogram	2.2	1.0 (0.7)	1.4.(0.0)*
	12 21.4% 23.4% 19.8%	Reason(s) in MTO program		arrests (n=256)	2.2	-1.0 (0.7)	-1.4 (0.8)*
				Males (n=162)	3.8	-2.1 (1.2)*	-1.3 (1.0)
	13 19.7% 22.7% 24.0%	Study subject characteristics		Females (n=174)	1.8	-0.7 (0.7)	-0.4 (0.9)
	14 22.0% 19.4% 15.6%	• Teen					
	15 17.3% 18.8% 18.8%	Male		The experimental and section			
	Gender:	• Age		violent-crime arrests relative	to controls,	starting 4 to 6 qu	uarters after
	Male 43.8% 52.0% 45.8%	Crime arrests preprogram		randomization			
	Race:						
	Af-Am 96.9% 96.8% 98.4%	<u>Continued</u>	<u>Continued</u>	<u>Continued</u>			

Appendix C2: Evidence Table 20: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention:	Findings		
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and			
Year, Jnl		Outcome Definition	Characteristic			
,	•	•				
10598		Outcome 1: violence Measures: Over an average of 3.7	Time period/ duration/frequency	III. EFFECTS OF TREATMENT-ON ON THE PREVALENCE AND INCL	DENCE OF V	
Ludwig		years post-programIncidence: Regression-adjusted	Families had up to 180 days to identify a suitable rental	<u>CRIME ARRESTS (*p<0.1 **p<0.05)</u>		
Quarterly J		violent-crime arrest rates per quarter per 100 teens • Prevalence: Regression-adjusted	unit and sign a lease. Relocators were required to sign leases for 1 year.	(A) Experimental Treatment	Prevalence(%) <u>Incidence</u>
Economics		proportion of teens arrested per	Notes if any	Exp families who moved (1)	2.4	2.5
Page 2		quarter during the postprogram period	**See Ludwig, Duncan,	Exp families who did not move (2)	1.5	1.6
		<u>Definition</u> : Violent crime included	Hirschfield (2000) for	Arrest rate for controls who would have m	oved	
		assault, robbery, attempted murder, etc.**	detailed definition of violent crime.	if assigned to exp gp (3)	5.0	5.7
		How measured: from juvenile arrest records.		Effects of TOT (1) – (3)	-2.6 (1.4)*	-3.2 (1.5)**
		Type: Assault, robbery, attempted		(B)		
		murder, other <u>Circumstance, Proactive/reactive,</u>		Section-8 Only Treatment	Prevalence(%)	<u>Incidence</u>
		Weapon used, and Victim-offender		Section-8 families who moved (4)	1.9	1.9
		relationship: Unspecified Outcome 2: Effectiveness Reduction		Section-8 families who did not move (5)	0.7	0.7
		in the number of violent crime arrests		Arrest rate for controls who would have m	oved	
		from baseline to the postprogram. Outcome 3: Adverse health		if assigned to Section-8 gp (6)	3.9	4.3
		Not studied Outcome 4: Safety		Effects of TOT (4) – (6)	-2.0 (1.1)*	-2.4 (1.2)**
		Not studied		The experimental and section-8 only greduction in violent-crime arrests related to 6 quarters after randomization		

Appendix C2: Evidence Table 21: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Record # Study Quality Time/Place Prevention Intervention: Findings

RCCOI u π	Study Quanty		Trevention intervention.	rinumgs
Author	Group(s) and Sample	Inclusion/Exclusion Criteria	Definition and Characteristic	
Year, Jnl	Size	Outcome Definition		
7158	Study Design:	Time (begin, end):	Description of Program	A twelve-year follow-up study of maltreated and at-
	Randomized controlled	T1- 1980 began enrollment/	<u> </u>	risk children who received early therapeutic child
Moore	trial	T4 -1992 follow-up evaluation	Name of program	care, examining the psychosocial functioning and
MIOOIC	uiai	Place (city, state):	Childhaven's therapeutic child-care	home environment in early adolescence.
1000	To disside all attendes associates			nome environment in early adolescence.
1998	<u>Individual study quality</u>	Seattle, Washington	program (formerly Seattle Day	1 William Class Comm. I would Comm. Class
CLUL	score	Study Population:	Nursery)	1. Violent Crime from Juvenile Court files
Child	• retention rate <80%	Abused, neglected, and at risk	Level: Secondary	Serious/Violent crime record: #/total (%)
Maltreat-	• no adjustment of	infants and toddlers (ages 1 month	Kind of program	TX CX p
ment	confounding factors.	through 5 years of age)	Therapeutic child-care program	1/27 (4%) 5/21 (24%) <0.08
	• no intent-to-treat	<u>Inclusion criteria</u> :	Parent education	Serious/violent arrests: $M \pm SD$
	analysis	Children expected to remain	Support groups	TX CX p
	_	with their families if treatment	Counseling	0.04 ± 0.20 0.3 ± 0.7 <.05
		was provided	Linkages to other professional	
	Sample size (initial and	Exclusion criteria: children with	services	2. Incidence of fighting from school files
	actual):	• severe intellectual impairment	Mechanism of delivery	TX CX p
	Overall 61- original	severe developmental disorder	Individualize programs of concrete	% 2/17 (12%) 4/11 (36%) <.05
	sample	• in immediate life-threatening	services—may include individual	M \pm SD 0.2 \pm 0.7 0.8 \pm 1.4 ns
	Treatment (TX)=32	situations	and family interventions for	
	Control CX=29	Moderating/mediating factors	children and parents.	3. The findings for violent behavior were not
	Control C/1 2	Non-specified	Target population	reported separated, thus could not be abstracted.
	T4 sample-42 (69%)	Outcome 1: violence	Abused, neglected, and at risk	
	TX=21	Measures/Definition:		
	CX=14	1. Violent crimes (assault) from	infants and toddlers 12 years after	Study suggests that early intervention can support an
	CA-14	juvenile court and school files	intervention. Parents and siblings	enhanced trajectory of child and family development.
	Agar		also received intervention. Parent	TX youths were less prone to violent delinquency,
	Age: T1- range= 1-24 months	2. Incidence of "Fighting" from	participation is voluntary	clinical aggression, and anger. CX youth
		school files	Setting where intervention took	experienced a significant increase in disciplinary
	T4- range=12-14 (M=13	3. reported violent behavior, 6	place: Child care center.	actions from middle to late childhood.
	(SD=0.8)	items from the Problem	Setting where subjects were	actions from initiate to late ciniminood.
	TX: 13.0 (0.8)	Behavior Scale (PBS). Youths	recruited: CPS or Child welfare	Significant differences between follow up treatment
	CX: 13.4 (0.8)	categorized as 'violent' if they	Services Medical and social service	and control groups include:
		received a frequency rating of	network provided referrals of	~ .
		3 or greater on any of the 3	children at risk.	Tx group held higher proportion of African
		PBS violence items.	Person delivering program	American youths (also true at enrollment)
			Not described	Higher percentage of treatment children's
		Circumstance, Proactive/reactive,	Time period/duration/frequency	fathers had an arrest record
		Weapon used, Victim-offender	Treatment children remained in the	No children in follow up control group had been
		relationship: Not reported	program on average of 23 mnths	classified as "at risk"
		Outcome 2: Adverse health	(SD=11). 62% of TX parents had	Limited statistical power of the study due to
		Outcome 3: Effectiveness	"major" participation. 25% of TX	small sample sizes
		Outcome 4: Safety	parents had no participation.	_
		Not reported.	r	
		F		l

Appendix C2: Evidence Table 22: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Study Quality Time/Place Prevention Intervention: Definition Findings

Record #

Recora #	Study Quanty	1 ime/Place	Prevention Intervention: Definition	rmanigs			
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic				
Year, Jnl		Outcome Definition					
,							
10786	Study Design:	Time (begin, end):	Description of Program	To compare the behav	vioral char	iges that	t
	Nonrandomized controlled trial	April 1987-August 1990	A multimodal treatment approach	occurred in two treat			
Morrissey	- Comparison of a change of	Group A: Apr 87 - Mar 88	that utilizes a range of behavioral,	served with two orientations of a			
	the orientation of a program	Group B: Sep 89 - Aug 90	cognitive-behavioral, and	multimodal treatment approach in			
1997	T I S	Place (city, state):	psychological skills training	incarcerated male juvenile offenders			
	Individual study quality score	Worcester, MA	methods. Many aspects of the				
J Offender	Poor (no concurrent control	Study Population:	program were improved from the		Grp A	Grp B	P
Rehabilita	group, no control of potential	Incarcerated male juvenile	Group A intervention to Group B		Mean	Mean	_
-tion	confounders)	offenders	intervention.				
	Companacis,	Inclusion criteria:	Name of program: Not named	Violent incidents	7.1	1.5	*
	Sample size (initial and actual):	Not specified	Level: Tertiary	V 1010110 11101001105	,,,	1.0	
	Overall: 77	Exclusion criteria:	Kind of program	Assaults on			
	Group A Treated Group: 36	Not specified	1. Behavioral	Residents	1.8	0.0	*
	Group B Treated Group: 41	Moderating/mediating factors	Cognitive-behavioral				
		None addressed	3. Psychological skills training	Assaults on staff	1.8	0.0	*
	Age, gender & race groups:	Outcome 1: violence	Mechanism of delivery				
	Average age of participants:	•Measure: incident reports filed by	1. Staff dealt with aggressive or	Restraint of resident	3.8	0.5	*
	16 years 4 months (age not	staff and Program Director's	disruptive behavior using room				
	provided for each group)	monthly reports	confinement <2 hrs, behavioral	Room time for			
		•Definition: violent incidents;	contracts, extension of time in	Violent Behaviors	72.1	0.8	*
	Both groups were 100% male.	assaults on staff, assaults on	program				
		residents, restraint required due to	2. Individual and group counseling	*Significant at p=.05			
	Group A:	violent behavior, and room	Target population				
	Black 41.6%	isolation due to violent behavior	Incarcerated male juvenile offenders				
	White 33.4%	•Type: assault					
	Hispanic 22.2%	•Circumstance;Proactive/reactive;	Setting where intervention took place				
	Cape Verdian 2.7%	Weapon used: not specified	Secure treatment unit of juvenile				
	_	•Victim-offender relationship:	facility				
	Group B:	Peers and facility staff	Setting where subjects were recruited				
	Black 26.7%		Secure treatment unit of juvenile				
	White 51.2%	Outcome 2: Adverse health	facility				
	Hispanic 19.5%	Not addressed	Person delivering program				
	Cape Verdian 2.4%		 Facility staff delivered 				
		Outcome 3: Effectiveness	behavioral component				
		Decrease in level of violence and	Master's level clinicians				
		incidences of assaultive behavior	provided individual and				
		in Group B	group counseling				
		Outcome 4: Safety	Time period/duration/frequency:				
		Not addressed	Weekdays from 9am – 2:30pm:				
			Group A: between 4/87 – 3/88				
			Group B: between 9/89 – 8/90				

Appendix C2: Evidence Table 23: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention: Definition	Findings	, mic	
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	g		
Year, Jnl	2-34 F (3) 33-4-4-3	Outcome Definition				
692	Study Design:	Study Period (begin, end):	Description of Program	This study assessed the ef	fectiveness	s of
	Nonrandomized control trial	Between July 1997 and July 1998		Project Back-on-Track, ar		
Myers		, , ,	Name of program	diversion program that use		
	Individual study quality score	Place (city, state):	Project Back-on-Track	approach for the treatment		
2000	Poor (comparability of groups	Not specified	Level	juvenile offenders.	•	
	not maintained, key		Tertiary			
J Am	confounders were given little or	Study Setting:	Kind of program	Number of violent crimes	committee	d at 12-
Acad	no attention)	Child and adolescent psychiatry	Family therapies, parent groups,	month follow-up		
Child		outpatient clinic setting	educational sessions, community		Program	Control
Adolesc	Sample size:		service projects, and empathy-		(n=30)	(n=30)
Psychiatry	Program participatns: 30	Study Population:	building exercises	Crimes	#	#
	Control group: 30	Early career juvenile offenders	Mechanism of delivery			
			Child-specific intervention	Assault/battery	0	4
	Description of cohort(s) by age,	Inclusion criteria:	included: anger management,	Aggravated assault/battery	y 2	1
	gender, & race/ethnicity	Youths referred for violent	community service projects,	Attempted aggravated		
		offenses and met criteria for	communication skills, self-esteem	assault/battery	0	1
	Program Participants	conduct disorder	groups, assertiveness skills training,			
	Age: 9 to 17 years old		stress management, diversity	p=ns.		
	(M=14.2, SD=1.9)	Exclusion criteria:	awareness, and alcohol/drug			
	Gender: 63% females	Not specified	education.			
	African-American: 63.3%		Parent-specific intervention			
	White: 33.3%	Moderating/mediating factors	included: Parenting groups,			
	Hispanic: 3.3%	Not specified	combined parent-child interventions			
			multifamily groups, family life and			
	Control group	Outcome 1: violence	stress management skills.			
	Mean age: 14.9(SD=1.7)	Measure: number of violent crime	Target population			
	Gender: matched program	committed at 12 month follow-up	Youths referred for violent offenses			
	participants	D (1) 1	and met criteria for conduct disorder			
	Race: matched program	Definition: Not specified	and their parents			
	participants	Type: Not specified	Setting where intervention took place			
		Circumstance: Not specified	Child and adolescent psychiatry			
		Proactive/reactive: Not specified	outpatient clinic setting			
		Weapon used: Not specified	Setting where subjects were recruited			
		<u>Victim-offender relationship</u> : Not	Referred by the District State			
		specified	Attorney's Office and the State			
		Outcome 2. Effectiveness	Department of Children and Families			
		Outcome 2: Effectiveness Reduction in violent crime	and surrounding area mental health			
			professionals.			
		Outcome 3: Adverse health Not studied				
		Outcome 4: Safety Not studied				
		INOU SUUDEU				

Appendix C2: Evidence Table 23: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention: Definition	
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl	Group(s) and sumple size	Outcome Definition		
1 cur, om		Outcome Definition	l	
692		Outcome 3: Effectiveness	Person delivering program	
0,2		Those participating in the	Anger management: social work	
Myers		treatment program will have a	provider and recreational therapist	
		greater reduction in criminal	Community service projects:	
2000		recidivism than those in the control	Program/family coordinator and	
		group. The program would be	recreational therapist	
J Am		cost-effective by reducing criminal	Communication skills: social work	
Acad		recidivism costs in the treated	provider, recreational therapist,	
Child		groups compared with the	psychologist, and psychiatrist	
Adolesc		untreated group.	Self-esteem groups: social work	
Psychiatry			provider and recreational therapist	
		Outcome 4: Safety	Assertiveness skills training: social	
		Not studied	work provider, psychologist, and	
Page 2			psychiatrist	
			Stress management: recreational	
			therapist	
			Diversity awareness: recreational	
			therapist	
			Alcohol/drug education:	
			psychiatrist and community drug	
			education provider	
			Parenting groups: occupational	
			therapist	
			Combined parent-child	
			interventions multifamily groups:	
			social work provider and	
			psychologist	
			Family life and stress management	
			skills: recreational therapist and	
			occupational therapist	
			Ti'	
			Time period/duration/frequency	
			Youth attended the program 2 hours	
			per day, 4 days a week for 4 weeks.	
			Parents attended the program for 15 hours. 2-hour community service	
			projects over 4 weeks.	
			projects over 4 weeks.	
	1			

Appendix C2: Evidence Table 24: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome Time/Place Prevention

Findings

Record #

Study Quality

Kecoru #	Study Quanty	Time/Tiace	Tievention	rindings				
Author	Group(s) and Sample Size	Inclusion/Exclusion	Intervention:					
Year, Jnl		Criteria	Definition and					
		Outcome Definition	Characteristic					
3680	Study Design:	Time (begin, end):	Description of	Outcome 1 Baseline violence	behavior			
	Nonrandomized control	1994-1995	Program		Percent repo	orting behavior		
O'Donnell	trial. Assignment of school	Place (city, state):	2 components:	Behavior			Total p	
	to program or control was	New York, NY	1. curriculum	Past 3 months			n=972	
1999	not random. Assignment of	Study Population:	2. curriculum plus	Threaten to beat			47.1 ns	j
	class within the intervention	7 th and 8 th grade regular	service training	Threaten to cut/stab/shot			14.5 ns	,
J Adolesc	school to one of the two	education students from 2	Name of program	In physical fight			44.1 ns	
Health	curricula was random.	school sites	Reach for Health	Past year				
11001111	Curricula Was randshir	Inclusion criteria:	Community Youth	Cut/stab someone	9.5	7.7 8.6	9.0 ns	,
	Individual study quality	Completion of both baseline	Service program.	Shot at someone		5.5 6.3	5.6 ns	
	score	and follow-up surveys	Level Primary	Violence scale (mean)		1.81 1.85	1.87 ns	
	Fair (Nonrandomized study,	Exclusion criteria:	Kind of program	violence seare (mean)	1.50	1.01	1.07 115	
	unsure of comparability of	Students without written	•community youth	Outcome 2 Violent Behavior	at 6-mont	h follow-un		
	cohorts)	informed parental consent	service	Linear regressions	ut o mont	птопо и ир		
	Conorts)	and student consent	•comprehensive risk-	(Comparing both Intervention	groups to (Control group)		
	Sample size (initial and	Moderating/mediating factors	reduction curriculum		or w/o inte			
	actual):	•Gender		No interac		With interaction	actions	
	Overall	•Grade	Mechanism of	Factor Coeff (SD)				1116
	Baseline: 1055		delivery School curriculum	Baseline violence 0.565 (0.0				
	Follow-up: 972 (92%)	•Ethnicity		2 Programs -0.037 (0.0	,	0.092 (0.0		501
	10110w-up. 372 (3270)	•Social desirability	Target population	1 Program -0.016 (0.0	,	-0.011 (0.0	,	
	Curriculum (Gp1):	Outcome 1: violence	Inner-city adolescents		51) <0.001	,	51) <0.00	Ω1
	13 classrooms; 189 students	Measure/Definition:	Setting where	8 th grade -0.023 (0.0	,	0.169 (0.0	*	01
	Curriculum+Service (Gp2)	mean of 7 items:	intervention took place	Hispanic v Black -0.055 (0.0		-0.043 (0.0		
	10 classooms; 230 students	•Threatening others in 3 mos	Schools & community	Oth race v Black 0.044 (0.1		,	*	
		•Fighting in 3 mos	sites	*	,	0.040 (0.1	,	
	Control (Gp3):	•Weapon carrying in 1 yr	Setting where subjects	Soc desirability -0.104 (0.0	87) ns	-0.096 (0.0	,	_
	28 classrooms; 553 students	•Weapon use in 1 yr	were recruited	Grade x Progr 2		-0.279 (0.1	*	3
		How measured:	Urban middle schools	Grade x Progr 1	30) .0.00	0.004 (0.1	,	001
	Age (mean):	Self-report questionnaire	Person delivering		38) < 0.000	0.887 (0.1	41) < 0.00	001
	7 th grade 12.2	Type:	program	Models by grade		oth C 1		
	8 th grade 13.2	Threats, fights, weapon use	Teachers and/or staff	7 th Grade		8 th Grade		,
	<u>Gender</u> : 445 (45.8%) male	Other characteristics: not	Time period/duration/	Factor Coeff (SD)				
	Race: n (%)	specified.	<u>frequency</u>	Baseline violence 0.564 (0.0		*	,	
	Latino/Hisp: 150 (15.4)	Outcome 2: Effectiveness	• Curriculum: 35	2 Programs 0.102 (0.0		-0.206 (0.0		5
	NonHisp Black: 776 (79.8)	Violence risk behavior at 6-	lessons in 4 main	1 Program 0.010 (0.0		-0.036 (0.1		.
	Other/Missing: 46 (4.7)	month follow-up	units in 6 months	*	67) < 0.01	•	78) <0.01	1
		Outcome 3: Adverse Health	 Community youth 	Hispanic v Black -0.121 (0.0		0.058 (0.1	*	
		Not studied	service –	Oth race v Black -0.221 (0.1		*	79) < 0.10	0
		Outcome 4: Safety	3hr/week at	Soc desirability -0.075 (0.1	,	-0.108 (0.1	*	
		Not studied	community site	Intercept 0.873 (0.1	86) < 0.000	0.929 (0.2	00.00	001
			-					

Appendix C2: Evidence Table 25: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome						
Quality	Time/Place	Prevention Intervention:	Findings			

Record # Author Year, Jnl Study Quality Group(s) and Sample Size Time/Place Inclusion/Exclusion Criteria Definition Definition and Characteristic Findings	etween intervention on outcome academic Negative scores
Time (begin, end): Randomized Control Trial Spring 1994-Spring 1996 Place (city, state): Urban school district in Texas Sudents for Peace Ceach pair was randomly assigned to either intervention or control conditions. Research Individual study quality score • Randomization not adequate • Retention rate <80% Sample size (initial and actual): Overall 2,246; Overall 2,	etween intervention on outcome academic Negative scores
Study Design: Randomized Control Trial Corpinas Signature Control Trial Eight middle schools (6-8th grades) were divided into matched pairs and then one of each pair was randomly assigned to either intervention or control conditions. Individual study quality score • Randomization not adequate • Retention rate <80% Signature Control Conditions Component violence-prevention program Multi-component violence-prevention program Multi-component violence-prevention program Students for Peace Level: Primary Students for Peace Level: Primary Social cognitive program	etween intervention on outcome academic Negative scores
Randomized Control Trial Corpinas Randomized Control Trial Eight middle schools (6-8th grades) were divided into matched pairs and then one of each pair was randomly Health Education Research Re	etween intervention on outcome academic Negative scores
Randomized Control Trial Corpinas Randomized Control Trial Eight middle schools (6-8th grades) were divided into matched pairs and then one of each pair was randomly Health Education Research Re	etween intervention on outcome academic Negative scores
Orpinas Eight middle schools (6-8th grades) were divided into matched pairs and then one of each pair was randomly Health Education Research Individual study quality score	etween intervention on outcome academic . Negative scores
grades) were divided into matched pairs and then one of each pair was randomly assigned to either intervention Research Health Education Research Individual study quality score Randomization not adequate Retention rate <80% Sample size (initial and actual): Overall 2,246; Urban school district in Texas Name of program Students for Peace Level: Primary Kind of program Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Components: Compo	on outcome academic . Negative scores
The left of each pair was randomly assigned to either intervention or control conditions. Inclusion criteria: School had not participated in any other violence-prevention study. Exclusion criteria: School had not complete at least one follow-up evaluation.	on outcome academic . Negative scores
Health Education Research Individual study quality score Retention rate <80% Sample size (initial and actual): Overall 2,246; School had not participated in any other violence-prevention study. School had not participated in any other violence-prevention study. Exclusion criteria: Those who did not complete at least one follow-up evaluation. School had not participated in any other violence-prevention study. Exclusion criteria: Those who did not complete at least one follow-up evaluation. School had not participated in any other violence-prevention study. Exclusion criteria: Those who did not complete at least one follow-up evaluation. School had not participated in any other violence-prevention study. Exclusion criteria: Those who did not complete at least one follow-up evaluation. School had not participated in any other violence-prevention study. Social cognitive program designed to influence both environmental and personal factors. Scores. Scores. Performance and race reflect lower scores for that intervention has become and prevention study. Components: • Curriculum presenting information about violence, academic performance • Student training on empathy, Threatened to hurt (%):). Negative scores
Components: Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence both environmental and personal factors. Social cognitive program designed to influence bot	
Research Individual study quality score Randomization not adequate Retention rate <80% Sample size (initial and actual): Overall 2,246; Overall 2,246; Exclusion criteria: Those who did not complete at least one follow-up evaluation. Exclusion criteria: Those who did not complete at least one follow-up evaluation. Those who did not complete at least one follow-up evaluation. Components:	4 1
Individual study quality score Randomization not adequate Retention rate <80% Sample size (initial and actual): Overall 2,246; Those who did not complete at least one follow-up evaluation. Those who did not complete at least one follow-up evaluation. Components: Fighting (%): Fighting injuries (%): Threatened to hurt (%):	controls, indicating
• Randomization not adequate • Retention rate <80% • Retention rate <80% Sample size (initial and actual): Overall 2,246; • Randomization not adequate • Retention rate <80% Moderating/mediating factors race/ethnicity academic performance one follow-up evaluation. Components: • Curriculum presenting information about violence, academic performance • Student training on empathy, Threatened to hurt (%):	igher violence
• Retention rate <80% Moderating/mediating factors Sample size (initial and actual): Overall 2,246; Overall 2,246; Overall 2,246;	
Moderating/mediating factors Curriculum presenting Fighting (%): Sample size (initial and actual): Overall 2,246; Curriculum presenting information about violence, Fighting injuries (%): Threatened to hurt (%): Threatened to hurt (%): Overall 2,246; Curriculum presenting information about violence, Fighting injuries (%): Threatened to hurt (%): Overall 2,246; O	
Sample size (initial and actual): overall 2,246; race/ethnicity academic performance information about violence, academic performance information about violence, or Student training on empathy, or Student training on empathy, or Student training or empathy and student train	
Overall 2,246; academic performance • Student training on empathy, Threatened to hurt (%):	-1.2 (-8.5, 6.2)
	-2.7 (-7.0, 1.5)
Eallow we got a language stratified by gender conflict resolution, and anger	-8.8 (-18.9, 1.3)
The state of the s	
69% all 3 evalations management, BOYS, 2-YEAR FOLI	
75% at least one follow-up eval Outcome 1: violence • Parent education Fighting (%):	-6.3 (-14.1, 1.6)
Intervention: (Grp 1): 1,020 Measure: Fighting injuries (%):	-6.7 (-11.3, 2.1)
Control: (Grp 2): 1,226 1. frequency of fights in school Mechanism of delivery Threatened to hurt (%):	-0.3 (-10.9, 10.4)
2. frequency of injuries due to fights Age gender & race groups: Definition: CDC and Preventions' • classroom curriculum • One-on-one 'Peer Mediation' and GIRLS, 1-YEAR FOLL	OWILID (OZO) CIV
rige, gender & ruce groups.	
(for the whole sample only)	-2.1 (-8.5, 4.6) 0.9 (-3.6, 5.3)
Age (only grade mentioned) 1. Requerey of rights at school	
2,240 0 graders at baseline ranged from 6 to 161 in prior year.	1.9 (-3.3, 9.3)
2,090 at one-year followup 1,745 at two-year followup 1,745 at two-year followup 2. frequency of injuries due to fighting ranged from 0 to 6+ in prior Target population GIRLS, 2-YEAR FOLL	OWLIP (95% CI)
Gender Gender Highling ranged from 6 to 6 m prior year. Middle school students and their Fighting (%):	0.1 (-6.9, 7.1)
1,132 males (50.4%) None of these are specified below: parents parents Fighting injuries (%):	-0.7 (-5.3, 3.9)
1 114 females (49.6%) Type Circumstance Setting where intervention took Threatened to hurt (%):	
Proactive/reactive Weapon used <u>place:</u> School classroom and	0.0 (7.2, 0.0)
Hispanic: 1 537 (68 4%) Victim-offender relationship newsletters to home Overall finding: Ther	e is a lack of
A frican- A merican: 382 (17.0%) Outcome 2: Adverse health Setting where subjects were intervention effect.	
Caucasian: 180 (8.0%) Past year frequency of injuries due to recruited: School classroom	
Asign: 70 (3.5%) fights Person delivering program	
Native American: 12 (0.5%) Outcome 3: Effectiveness Teachers and trained students. Theory on which interv	
other/biracial: 56 (2.5%) aggression and safety Social Cognitive Theor	ý.
Outcome 4: Safety Time period/duration/frequency	
Fast year frequency of injuries due to	
fights. • Monthly newsletters to parents	

Appendix C2: Evidence Table 26: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome Time/Place Findings

Prevention Intervention:

Record #

Study Quality

Record #	Study Quanty	1 me/Place	Prevention Intervention:	Findings			
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic				
Year, Jnl		Outcome Definition					
,	•						
9	Study Design:	Time (begin, end):	Description of Program	To evaluate the	effect of D.A.R	.E. curriculum an	nd
	Randomized control trial	Academic year 1999-2001	Name of program			educing tobacco,	
Perry	(School)	Place (city, state):	Drug Abuse Resistance Education			violent behavior.	
1 City	(School)	Minneapolis-St. Paul	(D.A.R.E.)	alconor and ma	rijuana use anu	violent benavior.	•
2003	Individual study quality score	Study Population:	Level: Primary	Violent behavie	or and Intention	g. Moon (SE)	
2003	1. Fair based on RCT criteria	Seventh and eighth grade	Kind of program:		Control	DARE	n
A1.				Boys			<u>P</u>
Arch	(no masking of treatment	students in 24 schools (8 each	Behavioral/cognitive	D 1'	(n=1093)	(n=1269)	1.5
Pediatr	allocation or outcome	study group)	Vocational/technical skill	Baseline score	7.92 (0.17)	7.67 (0.17)	.15
Adolesc	assessment)	Inclusion criteria:	building	Growth rate	0.54 (0.09)	0.57 (0.09)	.41
Med		No additional inclusion criteria.	 self-efficacy building 	Boys	Control	DARE Plus	<u>P</u>
	Sample size (initial):	Exclusion criteria:	Mechanism of delivery		(n=1093)	(n=1381)	
	Total eligible: 6728	None noted.	Group setting	Baseline score	7.92 (0.17)	7.82 (0.16)	.35
	Baseline survey: 6238	Moderating/mediating factors	Peer mediation	Growth rate	0.54 (0.09)	0.35 (0.08)	.06
	DARE only (1a): 2226	Psychosocial constructs related	School curriculum	Boys	DARE	DARE Plus	<u>P</u>
	DARE Plus (1b): 2221	to violence including	Distribution of material		(n=1269)	(n=1381)	
	DelayedControl (2): 1790	demographic variables;	Community action	Baseline score	7.67 (0.17)	7.82 (0.16)	.26
		normative estimates and	Target population	Growth rate	0.57 (0.09)	0.35 (0.08)	.04
	Total (completed at least one	expectations concerning					
	survey) 7353	violence; and outcomes	DARE: 7th & 8th graders	<u>Girls</u>	Control	DARE	P
	After excluding loss to	expectations concerning	DARE Plus: 7th & 8th graders		(n=1015)	(n=1249)	
	follow-up 7261	violence	and their parents	Baseline score	6.66 (0.16)	6.75 (0.15)	.34
	1	Outcome 1: violence	Setting where intervention took	Growth rate	0.30 (0.07)	0.26(0.07)	.34
	Age and ethnicity for total:	Measure: Violent behavior and	<u>place</u>	Girls	Control	DARE Plus	P
	Age: 7 th and 8 th graders	intentions as measured on a 5-	DARE: School		(n=1015)	(n=1254)	
	rige. , and e graders	items, scale range: 5-23.	DARE Plus: School and	Baseline score	6.66 (0.16)	6.67 (0.15)	.49
	Gender Male Female	How measured self-administered	community	Growth rate	0.30 (0.07)	0.23 (0.07)	.24
	All 51.6% 48.4%	questionnaire (Kelder and Flay,	Setting where subjects were	Girls	DARE	DARE Plus	P .2-
	Grp 1a 1,269 1,249	1995 and 1994)	recruited: School	GILIS	(n=1249)	(n=1254)	
	Grp 1b 1,381 1,254	Definition, Type, Circumstance,	Person delivering program	Baseline score	6.75 (0.15)	6.67 (0.15)	.35
			DARE: Police officers	Growth rate	, ,	, ,	.38
	Grp 2 1,093 1,015	Proactive/reactive, Weapon used, Victim-offender	DARE Plus: officers+peer	Growth rate	0.26 (0.07)	0.23 (0.07)	.30
	Ed		leaders+community organizers				
	Ethnicity:	relationship: Not specified					
	White: 67.3%	Outcome 2: Adverse health	Time period/duration/frequency				
	African American 7.5%	Not studied.	• DARE: 10 weeks				
	Asian American 12.7%	Outcome 3: Effectiveness	DARE Plus: 10 weeks				
	Hispanic 3.6%	<u>Definition of outcome</u>	curriculum + 4 week parental				
	American Indian 4.0%	measure(s): Difference between	involvement program +				
	Mixed/Other 4.9%	increase of score per year	unspecified time for				
		(growth rate) for each measure.	extracurricular activities and				
		Outcome 4: Safety	community action teams.				
		Not studied					
	L						

Appendix C2: Evidence Table 27: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention:	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	
Year, Jnl		Outcome Definition		
3965	Study Design:	Time (begin, end):	Description of Program	To determine long-term effectiveness of a
	Nonrandomized prospective	1985-2000	Features central to the program:	preschool and school-based intervention program
Reynolds	comparative cohort design.	Place (city, state):	 structured set of learning 	on juvenile arrest.
		Chicago, IL	activities	
2001	Individual study quality score	Study Population:	 low children to teacher ratios 	Outcome 2 Juvenile violent arrests: Adjusted mean
	Fair (nonranomized study-	Children who attended early	in preschool and kindergarten	and differences*
JAMA	unsure of comparability of	childhood programs in 25 sites	 multifaceted parent program 	
	cohorts)	in 1985-1986	 outreach activities 	<u>Preschool children</u>
		Inclusion criteria:	 ongoing staff development 	Group 1 Group 2
	Sample size (initial & actual):	Still residing in Chicago at age	 health and nutrition services 	Outcome n=911 n=493 Difference p
	Overall:	10 or older	comprehensive school-age	Any arrest(%) 9.0 15.3 -6.3 0.002
	Initial 1539	Exclusion criteria: None	services	>= 2 arrests (%) 4.7 7.6 -2.9 0.008
	Actual 1404 (91%)	Moderating/mediating factors	Name of program	Mean arrests 0.22 0.35 -0.13 0.02
		•Sex	Chicago Child-Parent Center	
	Intervention Group (Grp 1):	•Race/ethnicity	(CPC) Program	School-age children
	Initial 989	•Risk index	Level: Primary	Group 1 Group 2
	Actual 911 (92%)	•Earlier/later program	Kind of program	Outcome n=811 n=593 Difference p Any arrest(%) 10.8 11.8 -1.0 0.58
	Control Crown (Can 2)	participation	Educational component	Any arrest (%) 10.8 11.8 -1.0 0.58 >= 2 arrests (%) 5.9 5.4 0.5 0.60
	Control Group (Grp 2): Initial 550	•Program Site (local influences)	Family support component	>= 2 arrests (%) 3.9 3.4 0.3 0.60 Mean arrests 0.28 0.25 0.03 0.64
	Actual 493 (90%)	Outcome 1: violence	Mechanism of delivery	Weam arrests 0.28 0.23 0.03 0.04
	Actual 493 (90%)	Measure: arrests for violent	Multi-components - see features	Intervention Group
	Age, gender & race groups:	offenses occurring between ages	listed above	Extended Nonext.
	Age: Not specified	10 and 18 years:	Target population	Outcome n=540 n=527 Difference p
	Age. Not specified	•Any arrest	Low-income minority children	Any arrest (%) 9.3 12.4 -3.1 0.09
	Gender: Not specified	•2 or more arrests	Setting intervention took place	\Rightarrow 2 arrests (%) 4.9 6.2 -1.3 0.19
	Gender. Two specified	•Total number of arrests	Preschools, kindergarten,	Mean arrests 0.21 0.30 -0.09 0.40
	Race: Initial sample only	<u>Definition</u> :	neighborhood centers	0.21 0.30 0.07 0.40
	Black 1431 (93%)	Formal petitions for youth who	Setting where subjects recruited	* Adjusted for factors listed under
	Hispanic 108 (7%)	are arrested on criminal charges	Poor communities in Chicago	Moderating/mediating factors. The p value is the
	100 (7,0)	and go before a judge for violent	Person delivering program	probability level of the adjusted mean difference
		offenses, such as assault or	Educators	based on probit and negative binomial regression
		robbery	Time period/duration/frequency	analysis transformed to marginal effects. Sample
		Type: Assault, robbery	•Extended:	sizes are for juvenile arrests, larger than that for

Full-day or part-day during pre-

school and kindergarten, with

additional services available through 2nd or 3rd grade

Participation at CPC's at any

level less than extended

•Nonextended:

participants

Other characteristics:

Outcome 2: Effectiveness

Outcome 3: Adverse Health

unspecified

Not studied

Not studied

See Outcome 1

Outcome 4: Safety

sizes are for juvenile arrests, larger than that for

educational attainment and school remedial services.

Appendix C2: Evidence Table 28: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome
Record # Study Quality Time/Place Prevention Intervention: Definition Findings

Kecoru #	Study Quanty	Time/Tiace	1 revention intervention. Definition	rindings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	
Year, Jnl		Outcome Definition		
7615	Study Design:	Time (begin, end):	Description of Program	This study compared arrest numbers for
	Cross-sectional study.	Before period: 1992 to 1993	Mandates children age 13-17 arrested	violent crimes among juveniles for two years
Risler	Secondary data analysis	After period: 1994 to 1995	for murder, voluntary manslaughter,	before and two years after implementation of
	comparing arrest rates before	Place (city, state):	rape, aggravated sexual battery,	the Georgia's Juvenile Justice Reform Act
1998	and after the implementation of	State of Georgia	aggravated child molestation;	(1994)
	the law	Inclusion criteria: not specified	aggravated sodomy, or firearm	
Research			robbery be tried as adult	Mean Arrest Rates (unit not provided)
on Social	Individual study quality score	Exclusion criteria: not specified	Name of program	After Before % p
Work	Poor (confounding factors not		Juvenile Justice Reform Act 1994 of	Aggravated Assault
Practice	accounted)	Moderating/mediating factors: not	Georgia	1726.5 1833 -6.16 0.482
		specified	<u>Level</u> : primary	Armed Robbery
			Kind of program: Legislative	857 749 14.41 0.238
	Sample size (initial and actual):	Outcome 1: violence	Mechanism of delivery: Legislative	Sex Offense
	No population sizes provided.	Measure/Definition/Type: Mean	Target population: Juvenile	426.5 393.5 8.38 0.457
		arrest rates for aggravated assault,	population of the state of Georgia	Rape
	Age, gender & race groups:	robbery, sex offense, rape, murder.		118 121.5 - 2.94 0.423
	No breakdown of population	Data were obtained from the	Setting where intervention took place	Murder
	size by age, gender or race	Georgia Uniform Crime Reporting	State of Georgia	83 82 1.21 0.973
	subgroups.	Program.	Setting where subjects were recruited	Total of Violent Index Offenses
			State of Georgia	3211 3179 1.00 0.909
		Circumstance, Proactive/reactive,	Person delivering program	
		Weapon used, Victim-offender	Legislature	Mean Arrest Rates for Violent Index
		relationship: Not specified	Time period/duration/frequency	Offenses
			Legislature throughout the post	After Before % p
		Outcome 2: Adverse health	statute period.	White 638 556 14.5 0.240
		Not specified	Notes if any	Black 2556 2608 - 1.9 0.834
		Outcome 3: Effectiveness	Data gathered from Uniform	Other 18 14 20.6 0.606
		A statistically significant decrease	Crime Reporting Program (FBI	
		in the mean arrest rates for the	1993, Georgia Bureau of	The analysis suggests that there were no
		offenses was considered a measure	Investigation 1997).	significant reductions in the mean arrest rates
		of deterrence.	This study did not report the size	for the offenses specified by the law.
		Outcome 4: Safety	of the study population and did	
		Not studied	not provide a definition of the	
			arrest rate in terms of per x	
			number of population	
	•	<u> </u>	* *	<u> </u>

Appendix C2: Evidence Table 29: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome Prevention Intervention: Definition and Findings

Record #	Study Quality	Time/Place	Prevention Intervention: Definition and	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Characteristic	rindings
Year, Jnl	Group(s) and Sample Size	Outcome Definition	Characteristic	
1 cai, Jiii	<u> </u>	Outcome Definition		
40	Study Design:	Time (begin, end):	Description of Program	To determine whether TPRV
10	Randomized control trial.	Not specified	Name of program	results in lower rates of violence
Scott	Randonnized control trial.	Place (city, state):	Turning Point: Rethinking Violence	recidivism when compared with
Scott	Individual study quality score	Jacksonville, FL	(TPRV)	standard court sentencing
2002	• validity of outcome not	Jacksonvine, 1 L	Level	options (100 hours of community
2002	addressed	Study Population:	Tertiary	service) for first-time violent
J Trauma	addressed	First-time juvenile male offenders of	Kind of program	offenders
J Hauma	Comple size (initial and actual).	a violent crime	Component 1: Trauma experience	offenders
	Sample size (initial and actual): Total: 76	Inclusion criteria:		Violance Decidiviem Date
		First time offender of a violent crime,	Component 2: Victim Impact panel	Violence Recidivism Rate
	Intervention Group: 38		Component 3: Group Process	Intermedian Control number
	Control Group: 38	male ages 13-18 years, residing in	Component 4: Community Networking	Intervention Control p-value
	1 0	Jacksonville area, and screened for	Markey's acceptable and	0.05 0.33 $\leq .05$
	Age, gender & race groups:	"psychological appropriateness" for	Mechanism of delivery	
	Mean age	program	Group setting	
	Intervention group: 15.32	Exclusion criteria:	m	Note:
	Control group: 16.08	Not specified	Target population	The lower recidivism in the study
			First-time juvenile male offenders of a	group occurred with a shorter
	Males: 76 (100%)	Moderating/mediating factors	violent crime and their parents	overall time investment (14 core
	Race	None specified		contact hours vs 100 community
	Intervention group #		Setting where intervention took place	services hours.
	African-american: 24	Outcome 1: violence	Shands Jacksonville Medical Center	
	Caucasian: 13	Measure: Violence recidivism		
	Other:	<u>Definition:</u> Conviction for violent	Setting where subjects were recruited	
		offense within one year after the first	Intervention group: referred by juvenile	
	Control group	violent conviction and completion of	judge	
	African-american: 24	court sanctions	Control group: random selection from	
	Caucasian: 13	Type: Not specified	juvenile records	
	Other:	Circumstance: Not specified		
		Proactive/reactive: Not specified	Person delivering program	
		Weapon used: Not specified	Component 1: health care providers	
		Victim-offender relationship:	Component 2: Victims' families	
		Not specified	Components 3 & 4: Not specified	
		Outcome 2: Adverse health	<u>Time period/duration/frequency</u>	
		None specified	6 weeks, 14 hours of face-to-face contact	
		Outcome 3: Effectiveness	hours	
		Lower recidivism rate and shorter		
		overall time investment.	Notes: Intervention group received the	
		Outcome 4: Safety	experimental program. Control group	
		Definition of outcome measure(s)	received standard court sentencing options,	
		Not specified.	usually 100 hours of community service.	

Appendix C2: Evidence Table 30: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Record #	Study Quality	Time/Place	Prevention Intervention:	Findings
Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	Definition and Characteristic	
Year, Jnl		Outcome Definition		
4315	Study Design:	Time (begin, end):	Description of Program	To test the impact of a school-based
	Randomized control trial	Not specified (1-year duration)	The program was designed	substance-abuse-prevention program on risl
Simon	(group); 29 school districts		specifically to meet the needs of	for violence
	were recruited with a procedure	Place (city, state):	youth in continuation high schools,	
2002	approximating random	CA (southern)	the alternative school system in	Outcome 1 Perpetration of violence at 1 year
	selection. 21 continuation high		CA.	follow-up
Am J	schools were selected based on	Study Population:	Name of program	% reporting any perpetration
Health	school size. Schools were	Students from 21 continuation high	Project Towards No Drug Abuse	TND Control
Behav	blocked by characteristics such	schools from 5 counties	(TND)	Males 60.1 67.9
	as substance-abuse prevalence,	Inclusion criteria: None		Females 55.9 54.8
	ethnicity, size, and test scores	Exclusion criteria:	<u>Level:</u> Secondary	
	and were randomly assigned by	Students in independent study,		
	block to 1 of 3 experimental	completing final credits, or not	Kind of program: Behavioral,	Outcome 2 TND Association with Violence
	conditions:	taking the core classes within which	cognitive Motivation, skills,	Multivariate logistic regressions by sex:
	Grp 1: TND curricula	TND was delivered	decision-making	(adjusted for baseline violence, survey
	Grp 2: TND plus supplemental	Moderating/mediating factors		procedure, and race/ethnicity)
	program	•Gender	Mechanism of delivery	
	Grp 3: Control	Race/ethnicity	School curriculum	Adjusted Odds Ratios for Perpetration of
		•Survey procedure		Violence
	Individual study quality score	Baseline violence	<u>Target population</u>	<u>aOR (95% CI)</u>
	• attrition rate > 20%		Youth in continuation high schools	<u>Control</u> TND
	 validity of instruments not 	Outcome 1: violence		Males 1.23 (0.79-1.90) 1.00
	reported	Measure: Perpetration of violence	Setting where intervention took	Females 0.90 (0.56-1.45) 1.00
	• no intent-to-treat analysis	<u>Definition</u> : Number of times in the	place	
		past 12 months,	Continuation high schools	Note: The 2 intervention conditions did not
	Sample size (initial and actual):	• slapped, punched, kicked, or beat		differ on follow-up reports of perpetration
	Overall	up someone	Setting where subjects were	(p=0.65). As a results, the 2 intervention
	Baseline 1587	• used a weapon to threaten a	recruited	conditions were combined in analysis.
	1-yr follow-up 1074	person	Continuation high schools	
	Complete data 850	• used a weapon to injure someone	Dancar delinerina ana anom	
	(Size by group: not specified)	How measured:	Person delivering program	
	Age, gender & race groups:	In-person or telephone survey; 6-	Trained health educator	
	Age: 16.8 mean; 14-19 range	response choices per item	Time a mania d/damatian /fra anno	
	Gender: 55% male	Other characteristics: not specified	Time period/duration/frequency	
	Race	O 4 A TION 41	Nine 40-minute lessons or	

Outcome 2: Effectiveness

risk for violence

Outcome 4: Safety

Not studied

Not studied

•TND exposure association with

Outcome 3: Adverse Health

Race:

Latino

White

Other

African American 9%

4%

49%

3%

34%

1%

Asian American

Native American

period of 3 weeks

complete classroom periods over a

Appendix C2: Evidence Table 31: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome

Quality Time/Place Prevention Intervention: Definition and Findings

Record #

Study Quality

Recora #	Study Quanty	1 ime/Piace	Prevention Intervention: Definition and	Findings
Author	Group(s) and	Inclusion/Exclusion Criteria	Characteristic	
Year, Jnl	Sample Size	Outcome Definition		
	•			
7973	Study Design:	Time (begin, end):	Description of Program	To report the effectiveness of an
	Single group time	Exact date unspecified	PRETHERAPY ASSESSMENT	outpatient behavioral management
Stein	series study	Total study period = 5 years	Baseline Phase: 4 weeks	program in reducing aggressive
500111	series stady	(Each subject studied for 1 year)	Cognitive/Rest Phase: 8 weeks	behaviors among adolescents diagnosed
1999	Individual study	Place (city, state):	Cognitive/Rest+Response Cost Phase: 8	as oppositional-defiant with aggressive
1,,,,	quality score	Farmville, Virginia	wkss	behavior.
Aggressive	Poor (no control	Study Population:	POSTTHERAPY ASSESSMENT	benu (101)
Behavior	group)	Adolescents referred for outpatient	REST + Response Cost Phase: After	Weekly mean rate of aggressive acts for all
Benavior	Sioup)	treatment to a private psychological	aggression stopped, programs remained in	16 participants and program phase:
		clinic for behavioral patterns diagnosed	effect at home	10 participants and program phase.
	Sample size (initial	as oppositional-defiant disorder with	FOLLOW-UP PHASE: One year later,	BASELINE
	and actual):	aggression	parents recorded observations for two weeks	Week 1 2 3 4
	n=16	Inclusion criteria:	Name of program	Mean rate 4 3 2 4
	11-10	See above	Three programs combined:	Wican rate + 3 2 +
	Age, gender & race	Exclusion criteria:	Cognitive therapy	COGNITIVE/REST
		Unspecified	2) REST (Real Economy System for	Week 5 6 7 8 9 10 11 12
	groups:	Moderating/mediating factors	Teens) program	Mean rate 3 4 3 3 4 3 5 3
	Agas	Unspecified	3) Response cost program	Weali face 3 4 3 3 4 3 3 3
	Age: Range 13–17 years	Outcome 1: violence	Level: Tertiary	COGNITIVE/REST + RESPONSE COST
	Range 13-17 years	Measure: Aggressive behavior	Kind of program :Cognitive/behavioral	Week 13 14 15 16 17 18 19 20
	Gender:	Definition: Actual violent contact with	Mechanism of delivery	Mean rate 2 2 3 1 1 0 0 0
	Male: 13 (81%)	either hands or feet or using or throwing		Mean rate 2 2 3 1 1 0 0 0
	Female: 3 (19%)	an object at parents, siblings, or any	One-on-one (cognitive therapy)	REST + RESPONSE COST
	Temate. 3 (1970)	other person in the home or any other	Other two programs delivered at home by parents (parents up derivent training)	Week 21 22 23 24
	Race:	setting.	parents (parents underwent training)	Mean rate 0 0 0 0
	Unspecified	Type: Physical aggression	Target population	Weath rate 0 0 0 0
	Onspectifica	<u>Circumstance</u> : Unspecified	Adolescents with oppositional-defiant	FOLLOW-UP
		Proactive/reactive: Unspecified	disorder and aggressive behaviors	FU# 1 2
		Weapon used: Hands, feet, other object	Setting where intervention took place	Mean rate 0 0
		<u>Victim-offender relationship</u> : family or	Outpatient psychological health clinic, Home	Weath rate 0 0
		other	Setting where subjects were recruited	Notes:
		Outcome 2:Adverse health &safety	Outpatient psychological health clinic (3 referred by police or courts, 13 initiated by	 Range of aggressive acts was highly
		Not studied	parental concern/frustration)	variable during baseline
		Outcome 3: Effectiveness	Person delivering program	Variability increased during the
		A decrease in the number of aggressive	Therapist, Parents	Cognitive/REST phase, even though
		acts performed by subjects during	Time period/duration	
		intervention and one-year after	• Duration of intervention ≈ 25 weeks	 averages remained fairly consistent Aggression declined to "0" during the
		intervention completed		 Aggression declined to "0" during the cognitive/REST + Response Cost
		Outcome 4: Safety	• Follow up = 2 weeks (1 year after	
		Not studied	completion of intervention)	Phase (by week 18). All participants
		110t Bludiou	• Total time period ≈ 1 year, 27 weeks	were at "0" by week 19.

Appendix C2: Evidence Table 32: Effectiveness of Prevention Interventions to Violent Behavior and Adverse Health Outcome Record # Study Quality Time/Place Prevention Intervention: Definition Findings

Author	Group(s) and Sample Size	Inclusion/Exclusion Criteria	and Characteristic	. 9.				
Year, Jnl	1	Outcome Definition						
				•				
4962	Study Design:	Time (begin, end):	Description of Program	The purpose of this study was to assess				
	Partially randomized controlled	Not specified	A traditional martial arts training		whether a martial arts course reduce the rai			
Zivin	study with a cross-over design,	•	program that is aimed at developing a	of violence amo	of violence among middle school students			
	profiled matched, and wait-list	Place (city, state):	respectful attitude, physical skill,		C			
2001	controlled	Not specified. School was located	spiritual clarity, and an					
		in a working-class and welfare-	understanding of the body and the					
Adolescen	Individual study quality score	receiving neighborhood that had	physics of action.	Comparison of	Groups A and I	B post course		
ce	Poor (Lost to follow-up >20%;	the 3rd highest juvenile arrate in		_				
	potential confounders not	the city.	Name of program		Group A	Group B		
[Prior	controlled for).		Koga Ha Kosho Shorei Ryu Kempo		(n=31)	(n=17)		
related		Study Population:			M(SD)	M(SD)		
studies:	Sample size (initial and actual):	6th and 7th grade students in an	<u>Level:</u> Primary	-				
Delva-	Overall: 60	urban public middle school with		Violent score	3.20(1.46)	3.34(1.05)		
Tauiliili,		870 students.	Kind of program: traditional martial					
1995;	Group A: Treatment group		arts training	Not statistically	significant at p=	0.05.		
Edelman,	N=32 in semester 1;	Inclusion criteria:						
1994;	N=19 crossed-over to no	Administrative staff and/or	Mechanism of delivery					
Glanz	treatment in semester 2.	teachers selected 64 boys who they	Large class room setting with					
1994;		deemed to be at high risk for	moveable seats					
Smith et al	Group B: Wait-list control gp	violence and delinquency						
1999]	N=28 in semester 1;		Target population					
	N=17 crossed-over to treatment	Exclusion criteria:	6th and 7th grade students					
	group in semester 2.	Not specified						
			Setting where intervention took place					
	Age, gender & race groups:	Moderating/mediating factors	School					
	Age:	Not specified	C. Winner I am a life of a man and it al					
	22 6 th graders (M=12.1, SD=.46);	Outcome 1. wielenes	Setting where subjects were recruited School					
	28 7 th graders (M=13.11,	Outcome 1: violence Measure: Violence was based on 9	School					
	SD=.43);	items selected from the Sutter-	Person delivering program					
	10 8 th graders (M=14.3,	Eyberg Student Behavior	Martial arts master and his adult					
	SD=.52)	Inventory at 4 month follow-up	assistant					
	SD=.32)	measured on a 7-point Likert scale	assistant					
	Gender: 100% males	<u>Definition</u> : Not specified	Time period/duration/frequency					
	Gender. 100% maies	Outcome 2: Adverse health	Three times/week for 30 sessions, 45					
	Race: Not specified	Not specified	minutes each					
	1 tot specified	Outcome 3: Effectiveness	initiatos outil					
		Not specified						
		Outcome 4: Safety						
		Not specified						
	L		L	I				

Appendix D1: Technical Expert Group

Technical Expert	Affiliation/Location
Sonia Chessen	DHHS Washington DC
Sandra Graham, Ph.D	University of California Los Angeles, CA
Nancy Guerra, EdD	University of California Riverside, CA
Ron Haskins, PhD	Brookings Institute Washington, DC
Darnell Hawkins, JD, PhD	University of Illinois Chicago, IL
Doug Kirby, PhD	ETR Associates Scotts Valley, CA
Georgine Pion, PhD	Vanderbilt University Nashville, TN
Cathy Widom, PhD	New Jersey School of Medicine Newark, NJ
Franklin E. Zimring, JD	University of California Berkeley, CA

Appendix D2. Peer reviewers

Peer Reviewer	Affiliation/Location
Paula M. Duncan, MD	Vermont Child Health Improvement Program Burlington, VT
Kathy Grasso, J.D.	US Dept. of Justice Washington, D.C.
Lynne Haverkos, MD,MPH	National Institute on Child Health & Human Development, Rockville, MD
Joan Sera Hoffman, PhD	Centers for Disease Control and Prevention Atlanta, Georgia
Patrick J. Kanary	Center for Innovative Practices Stark County Community Mental Health Board
Danielle Laraque, MD	Mount Sinai School of Medicine New York, NY

Level I	Level II	Level III	WHEN				
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17

77			<0	0-3	4-8	9-11	12-17
0Individual	Biological	1101=Male gender					
		1102=In-utero exposure to alcohol, tobacco and					
		drug (ATOD)					
		1103=In-utero exposure to prescribed drug					
		1104=In-utero exposure to lead					
		1105=In-utero exposure to other environmental					
		toxin, specify					
		1106=Birth trauma/complication					
		1107=age					
		1108=sex hormone levels					
		1188=other biological, specify					
		1199=biological factor not specified					
	Ethnicity	1201=American Indian					
		1202=Asian Pacific Islander					
		1203=Black, Non Hispanic					
		1204=Hispanic					
		1205=White, Non Hispanic					
		1288=other ethnicity, specify					
		1299= Ethnicity not specified					
	Physical	1301=Minor physical anomalies					
	Development	1302=Small size					
		1303=Dyssynchronous maturation					
		1304=Early maturation					
		1388=other physical development, specify					
		1399=physical development factor not specified					
		(somatic symptoms)					
	Neurological/	1401=Head/brain injury					
	Cognitive	1402=Epilepsy					
	Development	1403=Mental retardation					
		1405=Low IQ					
		1406=Poor motor-skill					
		1407=Learning disability					
		1408=Language disability					
		1409=Attention deficit hyperactivity					
		disorder/hyperactive/impulsive-attention deficit					
		(HIA)					
		1410=Low level of problem solving skills					
		1411=Impulsivity					
		1412=Emotion dysregulation					
		1413=Aberrant social information processing					
		1414=poor communication skills					
		1488=other neurological development, specify					
		1499=neurological factor not specified	<u></u>				

Level I	Level II	Level III			WHE	N	
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17
	Psychological	1501=Temperament, specify					
	condition	1502=Favorable attitude toward problem					
		behavior					
		1503=Depression					
		1504=Bipolar disorder					
		1505=Other affective disorder, specify					
		1506=Schizophrenia					
		1507=psychopathy					
		1508=Suicidal ideation					
		1509=Self-esteem/perceived life chances					
		1510=destructive response to anger					
		1588=other psychological condition, specify					
		1588.1=mental health treatment					
		1588.2=perceived risk of untimely death					
		1588.3=poor perceived general health					
		1588.4=fear of violence in school/home					
		1588.5=perceived racism					
		1588.6=emotional well-being					
		1588.7=positive attitude toward problem					
		behavior/lack of guilt/pro-violence attitude					
		1599=psychological factor not specified					
	School	1601=Dropped out					
	Functioning	1602=Truancy					
		1603=Misbehaving					
		1604=Poor academic performance					
		1605=repeating a grade					
		1606=low school motivation/commitment					
		1607=School transitions					
		1688=other school functioning, specify					
		1699=school functioning factor not specified					

Level I	Level II	Level III	WHEN				
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17

Behavioral	Antisocial behavior
Development	1701=Alienation
	1702=Isolation/withdrawal
	1703=Lack of other interest/activities
	1708=other antisocial behavior, specify
	1709=antisocial behavior, unspecified
	Problem behavior
	1711=Defiant/rebellious behavior, specify
	1712=High daring/Risk-taking propensity
	1713=Discipline problem at home/school
	1718=other problem behavior, specify
	Health related problem behavior
	1721=Using drugs/alcohol
	1722=Early initiation of sexual activity
	1723=Pregnancy
	1724=Sexually transmitted infection
	1725=smoking
	1728=other health related problem, specify
	Aggressive behavior
	1731=Verbal aggression
	1732=Physical aggression
	1733=Bullying
	1734=Animal abuse
	1738=other aggressive behavior, specify
	Delinquent behavior
	1741=Truancy
	1742=Prostitution
	1743=Illicit drug use
	1744=Selling drugs
	1745=Carrying a weapon
	1746=Member of a gang
	1747=Criminal activity
	1748=other delinquent behavior, specify
	nonviolent felony offenses
	1749=delinquent behavior not specified
	Violent behavior
	1751=Murder/homicide
	1751=Mulder/Hollicide 1752=Aggravated assault
	1752=Aggravated assault
	1753=Non-aggravated assault
	1754=Rape/sexual assault 1755=Robbery
	1755=Robbery 1756=Gang fight
	1750=Gailg light 1757=Fighting
	1758=Serious injury or harm to others
	1759=violent behavior, specify
	physical fight with same gender
	1798=early violence, not specified
	1799=behavioral developmental factor not
	specified 2
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Level I	Level II	Level III	WHEN				
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17

Social Ties	Peer Involvement			
	1801=Associate with antisocial peers			
	1802=Associate with gangs			
	1803=Associate with delinquent/violent peers			
	1804=Rejected by conventional peers/peers			
	disconnectedness			
	1805=Peer victimization			
	1806=Peer(s) drug use			
	1807=Nonconventional peers			
	1808=other peer involvement, specify			
	1809=Bad friends, type not specified			
	Other Involvement			
	1811=Lack of hobbies			
	1812=Lack of religious belief and related			
	activities			
	1813=Lack of family commitments			
	1814=Lack of school commitments and			
	activities/school disconnectedness			
	1815=Lack of community involvement			
	1818=other involvement, specify			
	1819=suicidal behavior of friends			
	1820=same sex attraction			
	1821=acceptance of prescribed social norms			
	1822=negative sanctions			
	1823=perceived normalcy			
	1824=gender sterotyping			
	1899=social ties factor not specified			
Life experience	1901=Victim of abuse			
	1902=Victim of domestic violence			
	1903=Victim of community violence			
	1904=Witness of domestic violence			
	1905=Witness of community violence			
	1906=High exposure to stressful events			
	1907=Unemployment/employment			
	1908=victim of violence not specified			
	1909=death of parent(s)			
	1988=other life experiences, specify			
	1999=life experience factor not specified			

Level I	Level II	Level III	WHEN				
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17

FAMILY/	Home	2101=Large family size		
HOME	environment	2102=Overcrowding		
		2103=Poverty/economic deprivation/low SES		
		2104=Homelessness		
		2105=Access to weapons/gun in homes		
		2106=History of violence in home, specify		
		2107=Exposure to violence in media		
		2108=Relocation/high mobility		
		2109=Lack of support network		
		2110=Divorce/separation		
		2111=Adoptive home		
		2112=Foster home		
		2112–Poster nome		
		2188=other home environment, specify		
		2199=home environment factor not specified		
	Family/parents	2201=Single parent	+ +	
	Characteristics	2202=Female head		
	Characteristics	2203=Young parent(s)		
		2204=Parent unemployment/unstable financial		
		base		
		2205=Low parental education		
		2205=Low parental education 2206=Low parental IQ		
		2207=Inadequate problem-solving skills		
		2208=Mental illness/parental depression or		
		stress		
		2209=Family criminal behavior		
		2210=Antisocial parents (Parental social		
		isolation)		
		2211=Lack of spirituality/religiosity		
		2212=Favorable attitudes concerning		
		violence/crime and involvement in		
		violence/crime		
		2213=suicide behavior of family member		
		2214=parent(s) drug use		
		2215=mother's education		
		2216=family beliefs		
		2217=family structure		
		2218=parental violence		
		2219=poor family management		
		2220=sibling delinquency		
		2200 4 6 11 / 22		
		2288=other family/parent characteristics, specify		
		2299=family/parents factor not specified		
	Family	2301=Family conflict		
	Harmony	2302=Lack of communication		
		2303=Immigrant/acculturation conflicts		
		2304=Physical hitting between parents		
		2305=Family cohesion		
		2388=other family conflict, specify		
		2399=family conflict not specified		

Level I	Level II	Level III			WHE	N	
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17
			•				
	Care-Givers	2401=Child emotional abuse					
	Treatment	2402=Emotional neglect					
	Toward	2403=Physical abuse					
	Children	2404=Physical neglect					
		2405=Sexual abuse					
		2488=Other child maltreatment, specified					
		2499=caregiver's treatment factor not specified					
	Parent-Child	2501=Low parental supervision					
	Relationship	2502=Rejection by parent (negative attitude					
	•	toward child)					
		2503=Lack of parental involvement					
		2504=Poor communication patterns					
		2505=Harsh or inconsistent discipline					
		2506=Neglectful parenting style					
		2507=Overinvolved/overprotective parenting					
		2508=Abnormal attachment style					
		2509=Child lack of involvement					
		2510=Positive interaction					
		2511=Negative interaction					
		2588=other parent-child relationship, specify					
		2599=parent-child relationship factor not					
		specified					

SCHOOL	Characteristics	3101=Located in poor area 3102=High minority makeup 3103=Low teacher to student ratio 3104=High dropout rate 3105=High absenteeism/truancy rate		
		3106=High delinquency, violent, crime rate 3107=Low academic performance - test score 3108=Lack after-school programs 3109=Lack parental involvement 3188=other characteristic, specify 3199=school characteristic not specified		
	Policy	3201=Low academic expectation 3202=Tolerance of ATOD use 3203=Tolerance of weapon/firearms 3288=other policy, specify 3299=school policy factor not specified		

Level I	Level II	Level III	WHEN				
Domain	Construct	Risk Factors	<0	0-3	4-8	9-11	12-17

	T				
COMMUNITY	Poverty	4101=High proportion on welfare			
	Environmental	4102=High level of unemployment			
	Stressors	4103=High density and overcrowding			
		4104=Paucity of youth activities/programs			
		4105=Social deprivation			
		4106=Lack of community resources			
		4107=High transient population			
		4108=Community disorganization			
		4109=Economic deprivation			
		4110=Low neighborhood attachment			
		4188=other poverty stressor, specify			
		4199=poverty environmental stressor not			
		specified			
	Other	4201=High levels of low birth weight infants			
	Environmental	4201=High crime rate			
	Stressor	4203=High minority population			
		4204=High level of residential segregation			
		4205=Pervasive gang activity			
		4206=High level of crimes			
		4207=High level of violence/violence exposure			
		4208=Exposure to violent media			
		4209=Exposure to youth-oriented advertising			
		4210=Easy access to alcohol and drugs			
		4211=Easy access to firearms			
		4212=Absence of positive role model			
		4213=Law enforcement against crime			
		4288=other environmental stressor, specify			
		4299=other environmental stressor not specified			
MACRO-		5001=Poverty/macrolevel economics			
LEVEL		5002=Racism			
ENVIRON-		5003=Sexism			
MENT		5004=Culture and history of violence			
(POLITICAL		5005=Capitalistic economy			
REALITIES)		5006=Media glamorization of violence			
/		5007=Declining public support for families			
		5008=Easy access to alcohol and drugs			
		5009=Legal access to firearms			
		5010=Ineffective youth laws/policies			
		5011=Ineffective criminal justice system			
		5012=Legitimacy of violent behavior			
		5088=other macro stressor, specify			
		5099=macro environmental factor not specified			