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Scope

This selected bibliography provides citations and abstracts to articles, reports and books covering various topics related to child fatalities. This bibliography is not comprehensive. International publications are included. Links to full text, unrestricted publications are provided when possible.

Organization

Entries are arranged in date descending order and alphabetically within each year of publication, 1983 to 2016.

Disclaimer

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Child Fatalities

A Bibliography


The commission’s final report discusses what was learned about the gap between good intentions and real results, and it outlines the challenges that lie ahead if we are to bridge that divide. It includes recommendations for actions that we believe will most effectively address these challenges, including steps to be taken by the Executive Branch, Congress, and states and counties.


This article addresses the ultimate risk in child placement, fatality, in the context of international adoption. It first reviews relevant literature, then profiles demographic and policy trends, followed by analysis of risk factors derived from public media reports related to the children, families, and placing agencies in 19 known cases of death of Russian children in U.S. adoptive homes since 1996. The article concludes that many of the child deaths involved recently placed boys, frequently age 3 or younger, most with special needs or challenging behaviors, and often placed along with siblings. Most of the children who died had multiple injuries characteristic of battered child syndrome. Parents were traditional couples under severe parenting stress who usually had other children, often including additional preschoolers and/or homeschoolers. Mothers frequently pled guilty to various charges, typically less serious than murder. In four situations, parents either were not charged or were found not guilty. Most placements involved agencies founded within 15 years before the child fatality, and several subsequently closed, three amid scandals unrelated to the
deaths. The remaining agencies include well-regarded organizations, and five directors or representatives contributed their perspectives. This article identifies patterns and makes recommendations for practice, with the goal of reducing risk of harm to children placed internationally.


Although there is improved recognition of the pernicious long-term harm that stems from living with neglect during childhood, neglect is rarely associated with child fatality. This article offers a re-analysis of neglect in serious case reviews (cases of child death or serious injury related to maltreatment) in England (2003–11) from four consecutive government-commissioned national two-yearly studies. It draws on anonymised research information from 46 cases out of a total of over 800 cases. Each case was examined in depth using an ecological transactional approach, grounded in the child's experience, which promotes a dynamic understanding and assessment of the interactions between children and their families and the helping practitioners. The qualitative findings reported explore how circumstances came together when neglect had a catastrophic impact on the child and family presenting in six different ways (deprivational neglect, medical neglect, accidents with elements of forewarning, sudden unexpected deaths in infancy, physical abuse combined with neglect and young suicide). Each of the six categories raised particular issues over and above a common core of concerns around the relationship between the child and his or her parent or carer, and between parents/carers and professionals. © 2014 The Authors. *Child Abuse Review* published by John Wiley & Sons Ltd.


This paper is based on a study commissioned by the Department of Children and Youth Affairs in Ireland. It addresses the topic of recommendations emanating from child death inquiries and reviews; it looks at the factors which privilege some recommendations over others when it comes to implementation and explores whether a more collaborative approach to development might be
more beneficial. As part of the study, the researchers to propose a new model for developing recommendations which will address the complexity of child protection practice, reflect its core principles and promote learning. The study found that recommendations were generally implemented when they fitted with social norms and aspiration of the time and particularly when they synchronized with policy developments that had already been initiated and required increased investment and public support to reach completion. The research drew a distinction between addressing and implementing recommendations, and overall found that a type of ‘recommendation fatigue’ had evolved following the succession if inquiries. It proposed that in the future, recommendations should be drafted in collaboration with key stakeholders which would provide the team with a range of expert knowledge strengthen the methodological rigour of the process and promote the likelihood that they would be feasible and realistic. The study proposed a new model of CLEAR recommendations (Case for change; Learning orientated: Evidence based; Assigning responsibility and easy to Review). Copyright © 2014 John Wiley & Sons, Ltd.


More than 1,500 children died in the United States in 2011 due to child maltreatment. A substantial portion of these deaths were due to neglect. Previous research has found that a large percentage of child neglect cases involve supervisory neglect; however, the role of inadequate caregiver supervision (ICS) in child maltreatment deaths is unknown. The present study reviewed files from the Child Death Review Board in the state of Oklahoma for the years 2000 to 2003 to examine (a) how many deaths were due to inadequate caregiver supervision and (b) which child, caregiver, family, alleged perpetrator, and incident characteristics predicted risk for death related to ICS. Results indicated that almost half of the child maltreatment deaths were related to ICS. Older children and those living in homes with greater numbers of children were more likely to die from causes related to ICS. In addition, the alleged perpetrators of deaths related to ICS were more likely to be biological parents than alleged perpetrators of non-ICS-related deaths. These findings suggest that interventions to assist caregivers in providing appropriate levels of supervision for their children may be important for reducing children’s risk for death.

In the field of child welfare, attention has been given to risk factors for child maltreatment fatalities with little attention to the difference between children who die from abuse versus neglect. As part of a larger study, child welfare workers (n = 104) from 14 different states responded to an anonymous online survey that described the child, family, and case characteristics before death and worker characteristics/experiences before and after death. Results supported that prior to death, neglectful families presented with less risk than abusive families, in the areas of parent–child attachment, child behavior problems, and changes in household composition while reporting that they received more services. With regard to child welfare practice, workers did not report any differences in how they handled cases before death nor did they report differences in their posttraumatic stress symptoms at the time of the survey. These findings can be used as a springboard for future research that focuses on fatal maltreatment.


The purpose of this study was to compare children who are fatally and non-fatally maltreated in the United States. In this first national-comparison study, we used the Child Abuse and Neglect Data Set of children and families who encounter/receive support from child welfare services. We found that children who were fatally maltreated were younger, were more likely to live with both their parents, and that their families experienced more financial and housing instability compared to non-fatally maltreated children. Overall, families in which children die use/receive fewer social services, as compared to families in which children live. We discuss the results with regard to child welfare practice and research.

Despite pronounced reductions in child mortality in industrialised countries, variations exist within and between countries. Many child deaths are preventable, and much could be done to further reduce mortality. For the family, their community, and professionals caring for them, every child's death is a tragedy. Systematic review of all child deaths is grounded in respect for the rights of children and their families, and aimed towards the prevention of future child deaths. In a Series of three papers, we discuss child death in high-income countries in the context of evolving child death review processes. This paper outlines the background to and development of child death review in the USA, England, Australia, and New Zealand. We consider the purpose, process, and outputs of child death review, and discuss how these factors can contribute to a greater understanding of children's deaths and to knowledge for the prevention of future child deaths.


According to official statistics, more than 1,500 children each year die from child abuse and neglect. However, due to inadequate death investigations and inconsistent child fatality review processes, the actual number is likely higher. Infants under 1 year old account for 47% of child abuse fatalities, most often as a result of abusive head trauma (AHT). Other causes of fatal child abuse include suffocation, Munchausen Syndrome by Proxy, fatal poisoning, and neglect. While not often discussed, child neglect plays a role in two thirds of all child maltreatment fatalities and can occur as a result of failure to provide medical treatment, starvation, drowning, fires, and heat induced from automobiles. No single effective strategy exists to prevent child abuse fatalities. Global home visiting strategies as well as AHT counseling efforts in nurseries and communities are often employed but clear evidence to support a single intervention is lacking.
Comprehensive reviews of child death are increasingly conducted throughout the world, although limited information is available about how this information is systematically used to prevent future deaths. To address this need, we used cases from 2005 to 2009 in the U.S. National Child Death Review Case Reporting System to compare child and offender characteristics and to link that information with actions taken or recommended by review teams. Child, caretaker, and offender characteristics, and outcomes were compared to team responses, and findings were compared to published case series. Among 49,947 child deaths from 23 states entered into the Case Reporting System during the study period, there were 2,285 cases in which child maltreatment caused or contributed to fatality. Over one-half had neglect identified as the maltreatment, and 30% had abusive head trauma. Several child and offender characteristics were associated with specific maltreatment subtypes, and child death review teams recommended and/or planned several activities in their communities. Case characteristics were similar to those published in other reports of child maltreatment deaths. Teams implemented 109 actions or strategies after their review, and we found that aggregating information from child death reviews offers important insights into understanding and preventing future deaths. The National Child Death Review Case Reporting System contains information about a large population which confirms and expands our knowledge about child maltreatment deaths and which can be used by communities for future action.


Child abuse encompasses four major forms of abuse: physical abuse, sexual abuse, psychological abuse, and neglect. The United States retains one of the worst records of child abuse in the industrialized world. It has also been determined that a large portion of these cases are missed and go undocumented in state and federal reporting agencies. In addition, disparate risk factors have been identified for physical abuse and neglect cases, but substance abuse has been found to be a significant factor in all forms of abuse. Fatal child maltreatment and neglect investigations require a multi-pronged and multidisciplinary approach requiring the coordination and information gathering from various agencies. A major difficulty in determining the accidental or non-accidental
nature of these cases is that the account surrounding the events of the death of child is acquired from the caretaker. In this review, we outline common diagnostic characteristics and patterns of non-accidental injuries and neglect as a result of nutritional deprivation.


This paper compares and contrasts child death review (CDR) structures and processes in six countries – Australia, New Zealand, the United States, Canada, England and Wales. It presents findings from a comparative study based on analysis of data from 18 case studies. Data were collected through a combination of documentary analysis, interviews and observations. The study found that CDR processes vary according to: where the function is located and whether review is undertaken at state, local or national level; whether review is rooted in legislation; the focus of review; whether dedicated funding is provided; whether families are involved in the process; and whether structures are supported by useful data systems. It was not possible to evaluate the effectiveness of different review systems but the findings suggest that structure makes little difference in terms of determining the extent to which CDR findings inform prevention effort and activity. While factors such as lack of funding, lack of national data, or lack of legislation may hinder the work of CDR teams, CDR findings have informed prevention initiatives despite such barriers. Copyright © 2013 John Wiley & Sons, Ltd.


Awareness of cases of fatal child maltreatment has risen significantly in recent years suggesting the presence of a serious threat to young children despite extensive child welfare, clinical and legal responses to the issue. The purpose of this study was to identify differences between high risk child maltreatment and fatal risk cases and associated child protective service factors. For this study, 50 cases of fatal and near fatal child maltreatment were compared to a random sample of 50 moderate to severe maltreatment cases to determine predictors of group affiliation using a
Transactional model of child maltreatment to guide model development. Results indicate that recognition of having a male perpetrator, in cases of physical abuse, in families with approximately two children living in more rural environments notably improved the odds of predicting fatal risk cases. Prior referrals to Adult Protective Services, less out of home care and poor utilization of in-home services were also noted differences in the service records of the groups. Implications regarding early intervention and child protection measures that could be utilized to reduce risk are offered.


This study examined different types of child maltreatment fatalities and factors associated with child death in Florida. The study design consisted of a two-group comparison: children who died as a result of abuse and those who died as a result of neglect. Predictors for abuse- versus neglect-related death were analyzed using competing-risks survival analysis. Findings revealed a unique trend associated with maltreatment fatalities: While child's enrollment in daycare or school served as a protective factor, being seen by a child protection agency at the time of the incident predicted the earlier fatal outcome. Implications of the findings were discussed.


This article presents a high-level overview of the complex issues, opportunities, and challenges involved in improving child safety and preventing child maltreatment fatalities. It emphasizes that improving measurement and classification is critical to understanding and preventing child maltreatment fatalities. It also stresses the need to reframe child maltreatment interventions from a public health perspective. The article draws on the lessons learned from state-of-the-art safety engineering innovations, research, and other expert recommendations presented in this special issue that can inform future policy and practice direction in this important area.
Despite the efforts of the child protection system, child maltreatment fatalities remain a serious problem. Although the untimely deaths of children due to illness and accidents have been closely monitored, deaths that result from physical assault or severe neglect can be more difficult to track. The circumstances surrounding a child’s death, its investigation, and communication across all the disciplines involved complicate data collection.


This study examined victim, family, and alleged perpetrator characteristics associated with fatal child maltreatment (FCM) in 685 cases identified by child welfare services in the state of Oklahoma over a 21-year period. Analyses also examined differences in child, family, and alleged perpetrator characteristics of deaths from abuse versus neglect. Case information was drawn from child welfare investigation records for all FCM cases identified by the state Department of Human Services. Fatal neglect accounted for the majority (51%) of deaths. Children were primarily younger than age 5, and parents were most frequently the alleged perpetrators. Moreover, most victims had not been the subject of a child welfare report prior to their death. A greater number of children in the home and previous family involvement with child welfare increased children’s likelihood of dying from neglect, rather than physical abuse. In addition, alleged perpetrators of neglect were more likely to be female and biologically related to the victim. These results indicate that there are unique family risk factors for death from neglect (versus physical abuse) that may be important to consider when selecting or developing prevention efforts.


Child maltreatment fatalities have increasingly received attention over the past three decades and yet there is a dearth of information concerning case, service and family/household factors associated with maltreatment fatalities. This is a US multi-state study of 135 child welfare workers
who experienced the death of a child on their caseload. They reported on the case, service and family/household characteristics of a child who died on their caseload. Results indicate that workers had seen victims one week prior to their death and were closely monitoring families. The most frequently mentioned family characteristics included: parental unemployment, parental mental health, experiencing a major life event and parents' inappropriate age expectations of the child. Parental alcohol and substance use were more common among infant victims; and parental perceptions of the child being 'difficult' were more common among older victims. The results are discussed with regard to future research and prevention for the field.

Copyright © 2013 John Wiley & Sons, Ltd. Key Practitioner Messages: The primary findings of this study indicate that: Workers have regular contact with children leading up to the time of their death., Children die even when they are being closely monitored and have had a full-risk assessment., Families where children died were not using very many services.


Increasing evidence indicates that children are at risk of homicide in the context of domestic violence. Using a retrospective case analysis of 84 domestic homicide cases, this study sought to identify the unique factors that place a child at risk of homicide. Three groups of domestic homicide cases in which there were no children in the home (No Child in the Home, n=44), a child was targeted (Child Target, n=13), and a child was present, but not targeted (No Child Target, n=27) were compared. Overall, there were no significant differences amongst cases involving children (targeted or not) on major factors except for the higher number of agencies involved with couples with children. Few cases had risk assessment or safety plans completed. Despite the study limitations, the findings speak to the need for professionals to assess child risk and include children in safety planning in all cases of domestic violence.

A retrospective case analysis of 40 domestic homicides was conducted to determine if risk assessment tools currently being used for adult victims of domestic violence (DA, ODARA, and B-SAFER) are of value in identifying a child's risk for lethality in the context of domestic violence. Child homicides were compared to cases where a mother was killed but the children were not targeted. Results revealed no differences between the two groups in terms of the risk assessment tools. One item on the Danger Assessment and one item on the B-SAFER were significantly associated with child homicide cases. Implications for professionals around assessing risk of lethality for children living with domestic violence and developing safety plans that include the children are discussed.


This article highlights current models used in child protection to assess safety and risk, and discusses implications for child maltreatment fatalities. The authors advance that current risk and safety practice approaches were not designed to accurately estimate the likelihood of low base-rate phenomena and have not been empirically tested in their ability to predict or prevent severe or fatal child maltreatment. They advance that, regardless of the ultimate effectiveness of safety and risk tools, competent assessment and decision making in child protection depend on sound professional judgment and a comprehensive systemic approach that transcends the use of specific tools.

We examined variations in children’s risk of an unintentional or intentional fatal injury following an allegation of physical abuse, neglect, or other maltreatment. We linked records of 514,232 children born in California from 1999 to 2006 and referred to child protective services for maltreatment to vital birth and death data. We used multivariable Cox regression models to estimate variations in risk of fatal injury before age 5 years and modeled maltreatment allegations as time-varying covariates. Children with a previous allegation of physical abuse sustained fatal injuries at 1.7 times the rate of children referred for neglect. Stratification by manner of injury showed that children with an allegation of physical abuse died from intentional injuries at a rate 5 times as high as that for children with an allegation of neglect, yet faced a significantly lower risk of unintentional fatal injury. These data suggest conceptual differences between physical abuse and neglect. Findings indicate that interventions consistent with the form of alleged maltreatment may be appropriate, and heightened monitoring of young children referred for physical abuse may advance child protection.


In this article we examine risk factors for severe and fatal child maltreatment. These factors emerge from studies based on different data sources, including official child maltreatment data, emergency department and hospitalization data, death certificates, and data from child death review teams. The empirical literature reflects a growing effort to overcome the measurement uncertainties of any one individual data system. After review and reflection upon what is known, we consider how integrating this information can advance efforts to protect children, providing examples where the use and linkage of multiple sources of data may enhance surveillance, improve front-end decision making, and support cost-effective research and evaluation.

Child maltreatment prevention is traditionally conceptualized as a social services and criminal justice issue. Although these responses are critical and important, alone they are insufficient to prevent the problem. A public health approach is essential to realizing the prevention of child abuse and neglect. This paper discusses the public health model and social-ecology framework as ways to understand and address child maltreatment prevention and discusses the critical role health departments can have in preventing abuse and neglect. Information from an environmental scan of state public health departments is provided to increase understanding of the context in which state public health departments operate. Finally, an example from North Carolina provides a practical look at one state's effort to create a cross-sector system of prevention that promotes safe, stable, and nurturing relationships and environments for children and families.


This article reviews significant research findings regarding child maltreatment fatalities over the last thirty years. Notably, the article focuses on several important subsets of children who die from maltreatment, including young children, children reported to child protective services, and children who live in families with poor parental attachment, mental illness, substance abuse, and domestic violence. The article then sets forth three proposals for broadening the United States' approach to child protection and reducing child maltreatment fatalities


Research in child fatalities because of abuse and neglect has continued to increase, yet the mechanisms of the death incident and risk factors for these deaths remain unclear. The purpose of this study was to systematically examine the types of neglect that resulted in children's deaths as determined by child welfare and a child death review board. This case review study reviewed 22 years of data (n = 372) of child fatalities attributed solely to neglect taken from a larger sample (N
= 754) of abuse and neglect death cases spanning the years 1987–2008. The file information reviewed was provided by the Oklahoma Child Death Review Board (CDRB) and the Oklahoma Department of Human Services (DHS) Division of Children and Family Services. Variables of interest were child age, ethnicity, and birth order; parental age and ethnicity; cause of death as determined by child protective services (CPS); and involvement with DHS at the time of the fatal event. Three categories of fatal neglect – supervisory neglect, deprivation of needs, and medical neglect – were identified and analyzed. Results found an overwhelming presence of supervisory neglect in child neglect fatalities and indicated no significant differences between children living in rural and urban settings. Young children and male children comprised the majority of fatalities, and African American and Native American children were over-represented in the sample when compared to the state population. This study underscores the critical need for prevention and educational programming related to appropriate adult supervision and adequate safety measures to prevent a child's death because of neglect.


Research has rarely focused on child welfare professionals as agents of prevention for maltreatment fatalities. This study presents results on 426 child welfare workers' training, knowledge, and practice concerns regarding fatalities. Workers' knowledge of risk varied and revealed deficits in knowledge of parent and household risk factors. Receipt of training had a minor impact on knowledge. More than 25% of workers reported that a parent had disclosed potential intent to kill his/her child. Workers worried that a child will die on their caseloads; they reported assessing for risk, but wanting additional training. Implications are discussed for both research and practice communities.

Child maltreatment and domestic violence were once considered separate topics both in research and in clinical practice. This brief communication attempts to shed light on the lethal risk posed to children living with domestic violence. It is hoped that the acknowledgment of these risks will better inform research and clinical practice to protect children in these circumstances.


Fatal child maltreatment is a compelling problem in the United States. National estimates of fatal child maltreatment, based largely on child welfare data, have fluctuated around 1,500 deaths annually for the past ten years. However, the limitations of child welfare and other mortality data to accurately enumerate fatal child maltreatment are well documented. As a result of these limitations, the true magnitude of fatal child maltreatment remains unknown. Public health surveillance has been proposed as a mechanism to improve estimation of fatal child maltreatment, as well as to collect and analyze relevant risk factor data for the ultimate goal of developing prevention strategies. This paper describes public health surveillance efforts undertaken to improve estimation of fatal child maltreatment, and presents the unique challenges of identifying fatal child neglect. The strengths and limitations of existing sources of child maltreatment fatality data are reviewed and broad recommendations for strategies to advance public health surveillance of fatal child maltreatment are presented.

Child fatality review teams (CFRTs) have existed since the 1970s; yet, a comprehensive understanding of their procedures, practices, and outcomes is lacking. This article addresses that gap in this study of CFRT state statutes. Findings indicate CFRT laws address nine areas of practice, from team composition, to purpose, to outcomes. Results also indicate that laws address prevention three times as often as investigation, but that both areas are related to state crime rates.


Scientists have studied child maltreatment fatalities (CMFs) for several decades, yet little research has examined the social context in which CMFs occur and whether prevention efforts are effective. Using state-level data from 2006-2008, we examine the social context in which CMFs occur and conduct a five-year follow-up to a study that found media attention predicted CMF-related legislation (Douglas, 2009). The results indicate that the social context in which children live are important; poverty and region are the strongest predictors of CMFs and states that passed legislation to prevent future maltreatment fatalities did not experience a decline in the death rate. Implications for policy and practice are discussed.


This article presents a population-based study of early childhood injury mortality following a nonfatal allegation of maltreatment. Findings are based on a unique data set constructed by establishing child-level linkages between vital birth records, administrative child protective services records, and vital death records. These linked data reflect over 4.3 million children born in California between 1999 and 2006 and provide a longitudinal record of maltreatment allegations and death. Of interest was whether children reported for nonfatal maltreatment subsequently faced a heightened risk of unintentional and intentional injury mortality during the first 5 years of life. Findings indicate that after adjusting for risk factors at birth, children with a prior allegation of
maltreatment died from intentional injuries at a rate that was 5.9 times greater than unreported children (95% CI [4.39, 7.81]) and died from unintentional injuries at twice the rate of unreported children (95% CI [1.71, 2.36]). A prior allegation to CPS proved to be the strongest independent risk factor for injury mortality before the age of five.


Many children who die from abuse or neglect are survived by siblings. However, little data are available about what happens to these siblings after the victim’s death, such as whether they are removed from their home. Even less is known about how decisions are made regarding sibling removal following a child fatality. This study examined social-ecological factors related to the likelihood that siblings would be removed from their homes after a child maltreatment fatality. This study utilized Oklahoma child death review and child welfare data from 1993 to 2003 for 250 families to examine which sibling, caregiver, alleged perpetrator, family, community, and maltreatment characteristics were related to sibling removal following a child maltreatment fatality. Logistic regression analyses indicated that younger sibling age, more previous family reports to child welfare, and type of maltreatment (i.e., abuse rather than neglect) predicted greater likelihood of sibling removal. The sibling and family factors found to be related to sibling removal are consistent with literature indicating that these variables are associated with death from child maltreatment. Few caregiver and family variables were predictive of sibling removal, despite evidence that such variables are related to child maltreatment fatalities. Further research that investigates siblings’ return to their homes and subsequent CPS referrals would help to clarify whether decisions about sibling removal were useful in protecting siblings from future maltreatment. It may be important for child welfare workers to consider more caregiver and family factors when making removal decisions after a child maltreatment fatality.

Objective: To describe the distribution of child maltreatment fatalities of children under 5 by age, sex, race/ethnicity, type of maltreatment, and relationship to alleged perpetrator using data from the National Violent Death Reporting System (NVDRS). Study design: Two independent coders reviewed information from death certificates, medical examiner and police reports corresponding to all deaths in children less than 5 years of age reported to NVDRS in 16 states. Results: Of the 1,374 deaths for children under 5 reported to NVDRS, 600 were considered attributable to child maltreatment. Over a half of the 600 victims of child maltreatment in this age group were under 1 year old, 59% were male, 42% non-Hispanic Whites, and 38% were non-Hispanic Blacks. Two thirds of child maltreatment fatalities in children under 5 were classified as being due to abusive head trauma (AHT), 27.5% as other types of physical abuse, and 10% as neglect. Based on these data, fathers or their substitutes were significantly more likely than mothers to be identified as alleged perpetrators for AHT and other types of physical abuse, while mothers were more likely to be assigned responsibility for neglect. Conclusions: Among children under 5 years, children under 1 are the main age group contributing to child maltreatment fatalities in the NVDRS. AHT is the main cause of death in these data. These findings are limited by underascertainment of cases and fair inter-rater reliability of coding. Practice implications: The findings suggest the need to develop and evaluate interventions targeting AHT to reduce the overall number of child maltreatment deaths in young children. These interventions should make special efforts to include fathers and their substitutes. [Copyright Elsevier]


Objectives: To (1) test the use of capture-recapture methods to estimate the total number of child maltreatment deaths in a single state using information from death certificates, child welfare reports, child death review teams, and uniform crime reports; and to (2) compare these estimates to the number of maltreatment deaths identified through an in-depth “gold standard” review.

Child maltreatment deaths were identified in four existing administrative data sources: (1) death reports in our state vital statistics (DC); (2) child death review team reports (CDR); (3) homicide reports filed by our state police agency as uniform crime report (UCR) supplements for the FBI; and (4) abstracted reports of a minor's death from our state child protective services (CPS) agency. Capture-recapture pair-wise and pooled comparisons were then applied to estimate the numbers of abuse and total maltreatment deaths and were compared to the number of cases identified by independent case review. There were a total of 194 child maltreatment deaths in Michigan during 2000–2001 with 66 due to physical abuse. Capture-recapture analysis estimated the mean number of total child maltreatment deaths as 101.02 (95%CI = 92.52, 109.53), with abuse deaths of 64.55 (60.85, 68.25). Most pair-wise and pooled comparisons worked equally well for abuse deaths, but estimates for total child maltreatment deaths were low. Capture-recapture methods applied to existing administrative datasets produced accurate estimates of child abuse deaths but were not useful in producing reliable estimates of total child maltreatment deaths due to undercounting neglect-related deaths in all existing administrative data sets. The underlying assumptions for capture-recapture methods were not met for neglect deaths. Local and/or state teams conducting ongoing intensive case review may yet remain the best way to identify the total number of child maltreatment deaths. Capture-recapture methods allow for more accurate estimation of the true number of child physical abuse deaths than does using single existing sources of child fatality information, but deaths from causes other than abuse are undercounted. Child maltreatment fatality surveillance requires a systematic process and standard criteria for identifying cases of maltreatment, particularly neglect-related child deaths.

Injury remains the leading cause of pediatric mortality and requires public health approaches to reduce preventable deaths. Child fatality review teams, first established to review suspicious child deaths involving abuse or neglect, have expanded toward a public health model of prevention of child fatality through systematic review of child deaths from birth through adolescence. Approximately half of all states report reviewing child deaths from all causes, and the process of fatality review has identified effective local and state prevention strategies for reducing child deaths. This expanded approach can be a powerful tool in understanding the epidemiology and preventability of child death locally, regionally, and nationally; improving accuracy of vital statistics data; and identifying public health and legislative strategies for reducing preventable child fatalities. The American Academy of Pediatrics supports the development of federal and state legislation to enhance the child fatality review process and recommends that pediatricians become involved in local and state child death reviews.


The purpose of this study was to describe homicides of infants (children <2 years of age) in the U.S. Cases were derived from the National Violent Injury Statistics System; 71 incidents involving 72 infant homicides were in the data set. Type 1 involved beating/shaking injuries inflicted by a caretaker; type 2 involved all other homicides (including neonaticide, intimate partner problem-related homicide, crime-related death, and other types). Seventy-five percent of the incidents were type 1 incidents, perpetrated mainly by men (83%; typically the infant's father or the boyfriend of the infant's mother). In 85% of the type 1 incidents, the infant was transported to the hospital, usually at the initiative of the perpetrator or another household member. In almost one half of the type 1 incidents, a false story was offered initially to explain the injuries. In contrast, the type 2 incidents (16 cases) were perpetrated mainly by women (11 of 16 cases) and involved methods such as poisoning, drowning, sharp instruments, or withdrawal of food and water; most infants were not taken to the hospital. Although 93% of incidents were perpetrated by caretakers, the large differences between the 2 incident types suggest different avenues for prevention. The
circumstances involved in the type 1 homicides (beatings by caretakers) suggested that those attacks occurred impulsively, death was unintended, and emergency care was summoned, often with a false story. Previous abuse was suspected in more than one half of those incidents.


According to the US Department of Health and Human Services, in 2005, an estimated 1460 children died of maltreatment. The purpose of this study is to further examine the pattern of bony injuries in child maltreatment fatalities, with an emphasis on the prevalence of antemortem fractures and the presence of associated perimortem fractures. The sample was 162 male and female children. The majority of the data were collected from the case files of the NC Child Fatality Prevention Team at the Office of the Chief Medical Examiner in Chapel Hill, North Carolina (n =152) spanning from 2000 to 2005. An additional 10 cases from 2001 to 2006 were included from the Charleston County Coroner’s Office, Charleston, SC. Six age categories were used in this study: 0–3 months, 4–6 months, 7–9 months, 10–16 months, 17 months to 2 years, and 2–6 years. Lesions were documented and categorized into four general body loci: craniofacial, thoraco/abdominal, appendicular, and multiple. The peak age categories of death were 0–3 months (25%) and 2–6 years (19%), with 50% of deaths occurring in infants 9 months old or younger. The body locus most frequently affected was craniofacial. [Copyright &y& Elsevier]


Multidisciplinary child fatality review teams (CFRT) have existed in the United States (US) for almost 30 years; the products of the review process, however, remain unexamined. This study reviewed reports from CFRT throughout the US to compile and evaluate the identification of problems and recommendations by professionals concerning child maltreatment fatalities. Team- and state-level data were also used for analysis to better understand the context in which
recommendations are made. Over 300 recommendations for change from CFRT were grouped into 11 macro categories. The frequency of each type of recommendation and examples from each category are provided. The authors provide recommendations of their own for improvements in CFRT outputs. Copyright © 2008 John Wiley & Sons, Ltd.


We sought to describe approaches to surveillance of fatal child maltreatment and to identify options for improving case ascertainment. Three states—California, Michigan, and Rhode Island—used multiple data sources for surveillance. Potential cases were identified, operational definitions were applied, and the number of maltreatment deaths was determined. These programs identified 258 maltreatment deaths in California, 192 in Michigan, and 60 in Rhode Island. Corresponding maltreatment fatality rates ranged from 2.5 per 100,000 population in Michigan to 8.8 in Rhode Island. Most deaths were identified by child death review teams in Rhode Island (98%), Uniform Crime Reports in California (56%), and child welfare agency data in Michigan (44%). Compared with the total number of cases identified, child welfare agency (the official source for maltreatment reports) and death certificate data underascertain child maltreatment deaths by 55% to 76% and 80% to 90%, respectively. In all 3 states, more than 90% of cases ascertained could be identified by combining 2 data sources. No single data source was adequate for thorough surveillance of fatal child maltreatment, but combining just 2 sources substantially increased case ascertainment. The child death review team process may be the most promising surveillance approach.


This article presents analyses of longitudinal data to explore whether low-income children who survived a first incident of reported maltreatment were at higher risk of later childhood death compared to a matched comparison group of low-income children without reports of maltreatment (n = 7,433). Compared to the comparison group, children in
the maltreatment group had about twice the risk of death before age 18 (0.51% vs. 0.27%). Among children with maltreatment reports, median time from the first report to subsequent death was 9 months. The majority of deaths among children who were reported for maltreatment could be categorized as preventable (accidents or recurrent maltreatment) as compared to resulting from severe health conditions.


Since 1996 there have been 18 fatalities of internationally adopted children (17 families) in which abuse and/or neglect by their adoptive parents was suspected or proven. Seven girls and 11 boys (14 adopted from Russia, 2 from China, and 2 from Guatemala) have died from causes related to head trauma, suffocation, or neglect. In 12 of these cases, the mothers were directly accused in the deaths of their children; and in 4 cases, fathers were directly accused (1 of the fathers committed suicide after killing his wife and 2 children). In the remaining two cases, both parents were accused. The victims were 3 years old or younger in 12 of the 18 cases; the other victims were between the ages of 5 and 11 years. Nearly one-third of these children died within 6 months of their adoptive placements, and more than one-half of the deaths occurred within the first year after adoption. These 18 cases of abuse and neglect resulted from extreme circumstances and do not reflect the norm among families of internationally adopted children; however, pediatricians and other professionals who care for internationally adopted children must be especially vigilant in identifying parents who may show signs of depression, stress, or extreme disappointment. "Postadoption depression" is becoming more widely recognized and may be more common than postpartum depression.


Domestic Violence Death Review Committees (DVDCRs) are interdisciplinary teams dedicated to examining domestic homicide and recommending how to prevent future tragedies by comprehensively examining individual cases. This article summarizes the findings of 15 DVDCRs
concerning children as victims and witnesses. The findings reflect that an alarming number of children are victimized by domestic violence. Themes in the recommendations are grouped in relationship to: (1) training and policy development; (2) resource development; (3) coordination of services; (4) legislative reform; and (5) prevention programs. The recommendations are critical for criminal and civil courts as well as enhancing collaboration between the justice system and community partners in preventing domestic homicide.


The death of a child is a sentinel event in a community, and a defining marker of a society’s policies of safety and health. Child death as a result of abuse and neglect is a tragic outcome that occurs in all nations of the world. The true incidence of fatal child abuse and neglect is unknown. The most accurate incidence data of such deaths have been obtained from countries where multi-agency death review teams analyse the causes of child fatalities, as is done in the United States and Australia.


Child abuse is a leading cause of childhood morbidity and mortality and often goes unrecognized until severe injury or death has occurred. This study describes a cohort of fatally abused children and explores contacts with the health care community, which may represent missed opportunities for recognition and intervention. Homicide deaths in children younger than 10 years were identified through medical examiners' records from a 4-county area from 1999 to 2002. Medical records from the 3 area children's hospitals were searched for health care visits by the subjects before death. Subject demographics, cause of death, injury patterns, person supervising the child, and recent contacts with the health care community were collected from medical examiner and hospital records. Forty-four cases were identified, with 37 subjects (84%) younger than 4 years. Further analysis focused on these 37 younger subjects. Causes of death were blunt head injury, 57%; blunt torso injury, 13%; gunshot wound, 11%; fire, 8%; drowning, 8%; and poisoning, 3%.
Fractures were noted in 9 children (24%), 7 children with fractures at different stages of healing. Eleven children (30%) had documented health care visits for reasons other than routine well-child care in the year before their death, including 7 children (19%) with such visits within a month before their death. Child homicides in this cohort occurred primarily in younger children, among whom the most common cause of death was blunt trauma. Almost 20% of this subgroup had documented contact with the health care community for reasons other than routine care within a month before their death. Some of these presentations are suspicious for undiagnosed abusive injuries, which, if properly identified, could serve as opportunities for life-saving intervention.


Objective To determine the role of household composition as an independent risk factor for fatal inflicted injuries among young children and describe perpetrator characteristics. Design, setting and population A population-based, case–control study of all children <5 years of age who died in Missouri between 1 January, 1992, and 31 December, 1999. Missouri Child Fatality Review Program data were analysed. Cases all involved children with injuries inflicted by a parent or caregiver. Two age-matched controls per case child were selected randomly from children who died of natural causes. Main outcome measure Inflicted-injury death. Household composition of case and control children was compared by using multivariate logistic regression. We hypothesized that children residing in households with adults unrelated to them are at higher risk of inflicted-injury death than children residing in households with two biological parents. Results We identified 149 inflicted-injury deaths in our population during the 8-year study period. Children residing in households with unrelated adults were nearly 50 times as likely to die of inflicted injuries than children residing with two biological parents (adjusted odds ratio: 47.6; 95% confidence interval: 10.4–218). Children in households with a single parent and no other adults in residence had no increased risk of inflicted-injury death (adjusted odds ratio: 0.9; 95% confidence interval: 0.6–1.9). Perpetrators were identified in 132 (88.6%) of the cases. The majority of known perpetrators were male (71.2%), and most were the child's father (34.9%) or the boyfriend of the child's mother (24.2%). In households with unrelated adults, most perpetrators (83.9%) were the unrelated adult household member, and only two (6.5%) perpetrators were the
biological parent of the child. Conclusions Young children who reside in households with unrelated adults are at exceptionally high risk for inflicted-injury death. Most perpetrators are male, and most are residents of the decedent child's household at the time of injury.


Objective. To determine the role of household composition as an independent risk factor for fatal inflicted injuries among young children and describe perpetrator characteristics. A population-based, case-control study of all children <5 years of age who died in Missouri between January 1, 1992, and December 31, 1999. Missouri Child Fatality Review Program data were analyzed. Cases all involved children with injuries inflicted by a parent or caregiver. Two age-matched controls per case child were selected randomly from children who died of natural causes. Household composition of case and control children was compared by using multivariate logistic regression. We hypothesized that children residing in households with adults unrelated to them are at higher risk of inflicted-injury death than children residing in households with 2 biological parents. We identified 149 inflicted-injury deaths in our population during the 8-year study period. Children residing in households with unrelated adults were nearly 50 times as likely to die of inflicted injuries than children residing with 2 biological parents (adjusted odds ratio: 47.6; 95% confidence interval: 10.4–218). Children in households with a single parent and no other adults in residence had no increased risk of inflicted-injury death (adjusted odds ratio: 0.9; 95% confidence interval: 0.6–1.9). Perpetrators were identified in 132 (88.6%) of the cases. The majority of known perpetrators were male (71.2%), and most were the child's father (34.9%) or the boyfriend of the child's mother (24.2%). In households with unrelated adults, most perpetrators (83.9%) were the unrelated adult household member, and only 2 (6.5%) perpetrators were the biological parent of the child. Young children who reside in households with unrelated adults are at exceptionally high risk for inflicted-injury death. Most perpetrators are male, and most are residents of the decedent child's household at the time of injury.
An estimated 2,000 children die from abuse and neglect each year. Approximately 40% of those children are under one year old, and the majority are under five years old. It has been estimated that in the 42 years since Dr. C. Henry Kempe first described the Battered Child Syndrome, more children have died from abuse and neglect than from urban gang wars, AIDS or measles. Our society has made great strides in improving other health and safety conditions that in many instances cause untimely deaths, e.g., through immunization efforts and DWI campaigns. However, the public attention and commitment given to the deaths of children due to abuse and neglect by caregivers remain inadequate.


Child death review (CDR) is a mechanism to more accurately describe the causes and circumstances of death among children. The number of states performing CDR has more than doubled since 1992, but little is known about the characteristics of these programs. The purpose of this study was to describe the current status of CDR in the United States and to document variability in program purpose, scope, organization, and process. Investigators administered a written survey to CDR program representatives from 50 states and the District of Columbia (DC), followed by a telephone interview. All 50 states and DC participated; 48 states and DC have an active CDR program. A total of 94% of programs agreed that identifying the cause of and preventing future deaths are important purposes of CDR. Assistance with child maltreatment prosecution was cited as an important purpose by only 13 states (27%). Twenty-two states (45%) review deaths from all causes, while six states (12%) review only deaths due to child maltreatment. CDR legislation exists in 33 states. Fifty-three percent of the CDR programs were implemented since 1996, and 59% report no or inadequate funding. CDR contributes to the death investigation process in seven states (14%), but the majority (59%) of reviews are retrospective, occurring
months to years after the child’s death. CDR programs in the United States share commonalities in purpose and scope. Without national leadership, however, the wide variation in organization and process threatens to limit CDR effectiveness.


This was a retrospective clinical study based on the examination of coroners' files from Quebec for January 1991 through May 1998. From these files researchers identified 34 cases of victims who were killed by their mothers. Most victims were less than 6 years of age, and there were several cases of the murders of multiple siblings. Of the 34 victims, 19 (55.9 percent) were male, and 15 (44.1 percent) were female. They ranged in age from approximately 4 weeks of age to 13 years. There were 27 mothers in the sample of perpetrators, and 15 of these women committed suicide after the filicide. The majority of perpetrators were white and of Canadian birth. A psychiatric motive was determined for the actions of 23 of the 27 mothers. Eighteen mothers had a diagnosis of schizophrenia or other psychosis. There were no diagnoses of substance abuse or paraphilia. Almost half of the mothers had previous contact with others regarding their problems, including medical or psychiatric staff. Most offenses occurred in the family home, and the most common method of killing the children was carbon monoxide poisoning, followed by use of a firearm. Based on data from this study, the authors developed a revised classification system that takes into account several characteristics of filicide and associated circumstances. It is flexible and standardized to allow the extraction of subpopulations for research and identification of biological and genetic markers. The authors advise that this attempt to reclassify filicide must be viewed in the context of new research in genetics and identification of genes, as well as the involvement of serotonergic systems in suicide and aggression. This calls for the development of a classification system that would allow for the identification of subgroups with similarities of clinical factors and behavior. The proposed classification instrument must be further standardized to increase its value to researchers and clinicians.

The rate of fatal child maltreatment is increasing, and differentiating between risk factors for fatal as opposed to nonfatal maltreatment is essential to developing prevention programs. This exploratory retrospective study utilizes case record analysis to examine four categories of correlates for child maltreatment: 1) parent/caregiver factors, 2) child factors, 3) environmental/situational factors, and 4) maltreatment incident factors. Thirty-eight fatality cases are compared to a matched group of nonfatality cases to determine which factors are related to fatality in a large Southwestern metropolitan area. The results provide a profile of characteristics that may place a child at higher risk of fatal maltreatment.


Child death due to repeated episodes of physical assault or neglect has been termed the child abuse-maltreatment syndrome (CAMS). We characterized the injuries in a series of fatally abused or maltreated child to delineate objective diagnostic criteria for the CAMS for use by clinicians and pathologists. All deaths (age <17 years) investigated by the Office of the Chief Coroner for Ontario, Canada during the time period 1990–1995 were reviewed. Cases of CAMS were defined as death due to lethal recent injury or malnutrition in the presence of significant old (healing or healed) injuries indicative of repeated episode of inflicted trauma. The nature and frequency of the various injuries was determined. The frequency of the shaken baby syndrome, and the types and frequency of ano-genital injuries were also studied. Twenty-one cases of fatal CAMS were found in the study period. Most cases had significant recent head injury with intracranial hemorrhage (71%). Other significant recent injuries commonly observed included blunt injuries of the skin and soft tissues (67%), blunt abdominal trauma with visceral injuries (14%), and fractures (18%). Eight cases (38%) fulfilled accepted criteria for the shaken baby syndrome. Many children with fatal head injuries had evidence of older head trauma (38% of all cases). A significant minority of cases had evidence of malnutrition due to neglect (10%) or ongoing ano-genital injuries (10%). Most cases of child homicides due to repeated episodes of abuse or
maltreatment involve head trauma including shaken baby syndrome. Fractures of long bone and ribs, the classical markers of child abuse, were relatively infrequent compared with head injury. A proportion of cases had ano-genital injuries due to repeated sexual abuse or punitive maltreatment. All clinicians and pathologists must recognize the wide spectrum of injuries in child abuse to ultimate protect the victim or other children in an at-risk situation.


Approximately 2000 children die annually in the United States from maltreatment. Although maternal and child risk factors for child abuse have been identified, the role of household composition has not been well-established. Our objective was to evaluate household composition as a risk factor for fatal child maltreatment. Population-based, case-control study using data from the Missouri Child Fatality Review Panel system, 1992–1994. Households were categorized based on adult residents’ relationship to the deceased child. Cases were all maltreatment injury deaths among children <5 years old. Controls were randomly selected from natural-cause deaths during the same period and frequency-matched to cases on age. The main outcome measure was maltreatment death. Children residing in households with adults unrelated to them were 8 times more likely to die of maltreatment than children in households with 2 biological parents (adjusted odds ratio [aOR]: 8.8; 95% confidence interval [CI]: 3.6–21.5). Risk of maltreatment death also was elevated for children residing with step, foster, or adoptive parents (aOR: 4.7; 95% CI: 1.6–12.0), and in households with other adult relatives present (aOR: 2.2; 95% CI: 1.1–4.5). Risk of maltreatment death was not increased for children living with only 1 biological parent (aOR: 1.1; 95% CI: 0.8–2.0). Children living in households with 1 or more male adults that are not related to them are at increased risk for maltreatment injury death. This risk is not elevated for children living with a single parent, as long as no other adults live in the home.

Child neglect results from either acts of omission or of commission. Fatalities from neglect account for 30% to 40% of deaths caused by child maltreatment. Deaths may occur from failure to provide the basic needs of infancy such as food or medical care. Medical care may also be withheld because of parental religious beliefs. Inadequate supervision may contribute to a child's injury or death through adverse events involving drowning, fires, and firearms. Recognizing the factors contributing to a child's death is facilitated by the action of multidisciplinary child death review teams. As with other forms of child maltreatment, prevention and early intervention strategies are needed to minimize the risk of injury and death to children.


This article represents the work of the National Association of Medical Examiners Ad Hoc Committee on shaken baby syndrome. Abusive head injuries include injuries caused by shaking as well as impact to the head, either by directly striking the head or by causing the head to strike another object or surface. Because of anatomic and developmental differences in the brain and skull of the young child, the mechanisms and types of injuries that affect the head differ from those that affect the older child or adult. The mechanism of injury produced by inflicted head injuries in these children is most often rotational movement of the brain within the cranial cavity. Rotational movement of the brain damages the nervous system by creating shearing forces, which cause diffuse axonal injury with disruption of axons and tearing of bridging veins, which causes subdural and subarachnoid hemorrhages, and is very commonly associated with retinal schisis and hemorrhages. Recognition of this mechanism of injury may be helpful in severe acute rotational brain injuries because it facilitates understanding of such clinical features as the decrease in the level of consciousness and respiratory distress seen in these injured children. The pathologic findings of subdural hemorrhage, subarachnoid hemorrhage, and retinal hemorrhages are offered as “markers” to assist in the recognition of the presence of shearing brain injury in young children.

Although water intoxication leading to brain damage is common in children, fatal child abuse by forced water intoxication is virtually unknown. During the prosecution of the homicide of an abused child by forced water intoxication, we reviewed all similar cases in the United States where the perpetrators were found guilty of homicide. In 3 children punished by forced water intoxication who died, we evaluated: the types of child abuse, clinical presentation, electrolytes, blood gases, autopsy findings, and the fate of the perpetrators. Three children were forced to drink copious amounts of water (over 6 L). All had seizures, emesis, and coma, presenting to hospitals with hypoxemia (PO$_2$ = 44 ± 8 mm Hg) and hyponatremia (plasma Na = 112 ± 2 mmol/L). Although all showed evidence of extensive physical abuse, the history of forced water intoxication was not revealed to medical personnel, thus none of the 3 children were treated for their hyponatremia. All 3 patients died and at autopsy had cerebral edema and aspiration pneumonia. The perpetrators of all three deaths by forced water intoxication were eventually tried and convicted. Forced water intoxication is a new generally fatal syndrome of child abuse that occurs in children previously subjected to other types of physical abuse. Patients present with coma, hyponatraemia, and hypoxemia of unknown etiology. If health providers were made aware of the association, the hyponatremia is potentially treatable.


The objective was to describe the true incidence of fatal child abuse, determine the proportion of child abuse deaths missed by the vital records system, and provide estimates of the extent of abuse homicides in young children.


Infant and child homicide rates have remained stable over the last 20 years. They represent the most visible part of the spectrum of fatal child abuse. By contrast, infant mortality and child deaths from accidents and SIDS have all declined. The prevention strategies used to combat these deaths would appear to have been more successful than the protection strategies used against child abuse deaths. International comparisons of infant homicide rates have shown that measures of family stress, available resources and the cultural variables of low status of women and the culture of violence were all associated with increased infant homicide rates. The paper argues for a change in our culture towards children to prevent fatal child abuse. Copyright © 1995 John Wiley & Sons, Ltd.


Medical, social service and coroner reports were reviewed for 14 cases of fatal child abuse and neglect identified at a children's hospital from 1988–1992. Twelve cases involved physical abuse
and two neglect. The median age was 6.5 months (range 24 days to 3 years). Six families (43%) had prior protective service involvement; however, four of the referrals involved a sibling. Only two of 12 physical abuse victims had a history of a prior suspicious injury. Clinical and postmortem findings are presented. The cause of death in all physically abused patients was blunt impact head injury; one also had contributing intra-abdominal injuries. Ten cases were ruled due to homicide; 12 have come to legal closure resulting in nine felony convictions. These findings emphasize the role of blunt impact brain injury in fatal child abuse cases. Two findings have significant implications for prevention: (a) the paucity of injuries recognized prior to the fatal event, and (b) among families known to child protection agencies the focus was not the fatally injured child.


The results of recent surveys in the United States have suggested a rising tide of fatalities due to child abuse or neglect (CAN). Because these surveys lack consistency in case definition and are incomplete in coverage, the use of death certificate data to estimate the number of CAN deaths was explored. To estimate these deaths among children 0 through 17 years old for 1979 through 1988, three models were formulated, each comprising six coding categories: (1) deaths coded explicitly as due to CAN, (2) homicides, (3) injury deaths of undetermined intentionality, (4) accidental injury deaths, (5) sudden infant death syndrome fatalities, and (6) natural-cause deaths. Research studies and crime data were relied on to estimate the proportions of deaths in categories 2 through 6 that were actually due to CAN, and other assumptions were varied to create a range of estimates. For the 10-year period, the estimated mean annual CAN fatalities ranged from 861 to 1814 for ages 0 through 4, and from 949 to 2022 for ages 0 through 17. Child abuse and neglect death rates did not increase over the period; in fact, they were relatively stable for ages 0 through 17 and showed a modest decline for 0 through 4. Ninety percent of fatal CAN occurs among children younger than 5 years old, and 41% occurs among infants. About 85% of CAN deaths are recorded as due to other causes. It is concluded that the magnitude of fatal CAN can be estimated from death certificates. It is recommended that the death coding system be modified to make CAN identification easier and that this study's methodology be refined to provide the basis for ongoing surveillance.

Distinguishing between an unexpected infant death due to sudden infant death syndrome (SIDS) and one due to fatal child abuse challenges pediatricians, family physicians, pathologists, and child protection agencies. If child abuse is suspected, the physician must fulfill mandated legal obligations to report the case to the appropriate authorities. Coroners, medical examiners, and pathologists have the added responsibility of rendering a medicolegal opinion as to the cause and manner of death. Child protection agencies need to ensure that other children in the home are not at risk. Law enforcement personnel and prosecutors need to proceed if the law has been broken. All agree that the state of our knowledge in this area is incomplete and ambiguity exists in some cases. For everyone concerned, it is necessary and desirable, within the limits of our capability, to know the cause and manner of an infant death. This process requires application of current knowledge, a desire to know the reasons for the deaths, the resources necessary to conduct essential procedures, and the sensitivity and wisdom to perform the task without causing distress to innocent family members. The history relevant to this decision is a relatively short one. In the first half of this century, searching for the reasons infants die was the lonely province of a few clinicians, researchers, and pathologists who examined the retrospective traces of infant deaths. Bergman1 recounts the slow progression of knowledge about sudden unexpected infant death in the pathologists' laboratories and morgues where Werne and Garrow2 and then Adelson and Kinney3 proposed etiologies for "crib death" other than suffocation.


Interagency child death review teams have emerged in response to the increasing awareness of severe violence against children in the United States. Since 1978, when the first team originated in Los Angeles, Calif, child death review teams have been established across the nation. Approximately 100 million Americans or 40% of the nation's population now live in counties or states served by such teams; most have been formed since 1988. Multiagency child death review
involves a systematic, multidisciplinary, and multiagency process to coordinate and integrate data and resources from coroners, law enforcement, courts, child protective services, and health care providers. This article provides an introduction to the unique factors and magnitude of suspicious child deaths, and to the concept and process of interagency child death review. Future expansion of this process should lead to more effective multiagency case management and prevention of future deaths and serious injuries to children from child abuse and neglect.


Decisions about the occurrence of child abuse are increasingly difficult to make because concepts of what qualifies as reportable child abuse may be broadening. We examined this question by comparing 51 fatal child abuse cases occurring in Georgia between July 1975 and December 1979 to non-fatal cases and to the Georgia population. Overall rates of fatal child abuse were higher for male perpetrators compared with female and black perpetrators compared with white. However, the latter finding varied with economic and geographic status. The highest child abuse fatality rates were found in poor, rural, white families (3.3/100,000 children) and in poor, urban, black families (2.4/100,000 children). Risk factors for fatal abuse included early childhood (RR 6:1), parental teenage childbearing (RR 4:1), and low socio-economic status. These characteristics were similar to those of the severe child abuse cases noted in the early child abuse literature. Non-fatal cases did not clearly share these risk factors. Severe abuse, here represented by fatal cases, is a distinct subset of reported child abuse, but characteristics associated with it are frequently attributed to all reportable child abuse. Medical personnel should be aware that they cannot rely on the presence or absence of these characteristics in screening for risk of reportable child abuse. Child abuse research should use restricted, stated case definitions. When intervention and prevention programs are being organized, they should not generalize research findings to all forms of child abuse.

Analysis of 24 cases of fatal child abuse reveals that multi-disciplinary review can assist in the determination of whether fatal injury was accidental or non-accidental. All cases had both a 'discrepant history' and some 'delay' in seeking care. The predisposing child factor was inconsolable crying in infants under 12 months, and was associated with a bowel or bladder accident or diaper change in 9 of 12 cases where children were over 1 year of age. Head injury accounted for 17 of the 24 deaths.