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The APSAC Handbook on  
**CHILD  
MALTREATMENT**

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**THIRD EDITION**

EDITOR

**John E. B. Myers**

*University of the Pacific*



*American Professional Society  
on the Abuse of Children*

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# 20

## Interviewing Children

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*Karen J. Saywitz,  
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**I**nterviewing children about child maltreatment is both challenging and rewarding. It is a little like dancing with a partner who has not yet mastered the steps and is unfamiliar with the music. In the beginning, there are awkward moments trying to make sense of the intentions and expectations of the other. A tentative interaction pattern is established with each turn of the conversation. The interview dance has a structure, yet it is a fluid process. It demands a certain level of flexibility to pursue specific information from children without stepping on their toes. It can be problematic if the interviewer is viewed as leading the child's movements too much. Success depends on the interviewer's ability to design a dance that elicits accurate and relevant information without tainting children's reports. When it works, it is a rewarding waltz.

Thankfully, interviewers are not left out on the dance floor alone to choreograph each interview anew. The past 25 years of empirical research have produced a sufficient evidence base to establish consensus on basic child forensic interview strategies—that is, on the basic steps of the dance. In this chapter, we highlight principles based on the best available science, understanding that such principles keep changing as new evidence accumulates and that there are gaps in the knowledge base where guidance is limited. Interviewers, like dancers and professionals in any field, need to stay abreast of new steps and developments.

First, we describe the database from which these steps derive. Then we discuss features of the interview about which there is sufficient empirical evidence and consensus to begin to build guidelines. These include the interview structure, setting, interviewer demeanor, children's reluctance and suggestibility, rapport development, narrative practice, introducing the topic of abuse, avoiding concepts that confuse children, instructions to children, phrasing of questions, evidence-based strategies for eliciting details, and multiple interviews.

Throughout, we demonstrate how to use these evidence-based strategies to interview children about possible maltreatment.

## The Evidence Base

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We draw our conclusions from a number of sources. These include studies of child witnesses in the field, laboratory analogue studies of children's recall of staged and fictitious events, guidelines developed by professional organizations such as the American Academy of Child and Adolescent Psychiatry (AACAP), the American Academy of Pediatrics (AAP), the American Professional Society on the Abuse of Children (APSAC), the American Psychological Association (APA), and protocols that have been empirically tested, the most well researched being the National Institute of Child Health and Human Development (NICHD) Investigative Interview Protocol (Lamb, Hershkowitz, Orbach, & Esplin, 2008) and the Cognitive Interview (CI) (Fisher & Geiselman, 1992; Saywitz, Geiselman, & Bornstein, 1992). Other protocols used in the field, such as Finding Words (Holmes & Vieth, 2003), also utilize some of the principles derived from the empirical literature, although there is limited research examining the behavior of interviewers trained in these approaches (Fairley, 2005; Lyon, Lamb, & Myers, 2009). Next, we present a brief overview of the scientific methods used to develop the database, and we describe some key findings.

Recent studies using field methodology provide important information about the eyewitness memory of victims of child sexual abuse (CSA). For example, in several field studies, researchers investigated the accuracy of child victims' memory when perpetrators recorded (e.g., videotaped) their sexual assaults, inadvertently providing researchers with objective documentation of the incidents against which to evaluate the children's later reports (see Paz-Alonso, Ogle, & Goodman, 2009, for review). In one such field study, Leander, Christianson, and Granhag (2007) examined eight children aged 3 to 10 years who were sexually abused by a single individual (a stranger). The perpetrator took photographs of the sex crimes he committed. He would abduct a child, take the child to a building or other location, and sexually assault the victim (e.g., attempted penetration). In addition to the photographs, the perpetrator confessed. The children provided accounts of the abuse to police. The children's disclosures occurred from 1 day to 5 years after the assaults. The children's accounts were compared to the photographs and the perpetrator's confession. The children provided accurate information describing events that preceded the sexual assaults, indicating they remembered the incident. Five children, however, failed to provide any sexual information. Only two of the eight children gave detailed reports of the sexual acts. Despite limited completeness, what children did report was quite accurate. Results from this and other field studies strongly suggest that children are able to provide accurate testimony about sexual abuse. Child victims' feelings of fear, shame, embarrassment, and/or guilt have been suggested as explanations for the finding that

children omitted a considerably greater amount of sexual compared to neutral information (e.g., Leander et al., 2007).

In addition to field studies, which are relatively few in number, valuable information about forensic interviewing can be gleaned from analogue research in the laboratory. Analogue studies permit researchers to examine issues that cannot be addressed in field studies. To date, hundreds of analogue studies have been conducted. Overall, they show that memory is multiply determined, depending, for example, on characteristics of the child and the settings in which memory retrieval occurs (for review see Bottoms, Nadjowski, & Goodman, 2009).

With analogue research, memory for sexual abuse is not examined. Instead, memory for mundane experiences (e.g., playing games with a researcher), fictitious experiences (events that were never experienced by the child), or naturally occurring stressful experiences (e.g., medical procedures) is investigated to determine the accuracy of children's reports and how best to interview children. One beauty of such research is that children's suggestibility and tendency to make false reports can be examined with scientific precision. For example, in a well-known study (dubbed the "Mr. Science" study) by Poole and Lindsay (2001), 3- to 8-year-olds viewed and participated in science demonstrations. Later, their parents read a story that described events not actually experienced during the science show. In other words, the parents provided the children with fictitious information about what had happened during the science events. The children were then questioned by the researchers in follow-up interviews. Regardless of age, a number of children described the fictitious events, even in response to the researchers' open-ended prompts. Accuracy declined further when children were asked direct questions, especially for the younger children. The older children retracted many of their false reports after receiving instructions that helped them monitor the source of the misinformation. Younger children, however, did not benefit from the instruction. Such research provides vital information about children's suggestibility and proneness to false reports. Analogue studies are also quite useful in validating interview tactics that bolster the accuracy of children's reports.

Eisen, Goodman, Qin, Davis, and Crayton (2007) tested the memory of more than 300 3- to 16-year-old children who had experienced abuse or neglect. For health reasons, the children underwent an anogenital examination and a venipuncture, and the researchers examined the children's memory for these routine medical procedures. Clear developmental differences were observed. Children 6 years old and older were more accurate about details of the medical procedures than younger children. Children who suffered sexual and/or physical abuse (PA) were more accurate than children who experienced neglect.

Research like that previously described has been combined with knowledge gained from thousands of interviews conducted by police, social workers, medical professionals, and clinicians to develop child forensic interview guidelines. Research has evaluated the effectiveness of scientifically based interview protocols. An example is research on the CI (Fisher, Brennan, & McCauley, 2002),

which can be used with adults and older children to obtain extensive and accurate reports (see Koehnken, Milne, Memon, & Bull, 1999, for a meta-analysis). Based on basic principles of memory, cognition, and communication, the CI requires that interviewees (1) reconstruct mentally the personal and environmental context at the time of the crucial event; (2) report everything, including partial information even though it may be considered unimportant; and (3) recount the event in a variety of orders and from a variety of perspectives. Interviewees are given specific directions to facilitate the recall of details, conversations, and names. Research on the CI reveals advantages with adults (e.g., Fisher & Geiselman, 1992) and (in its modified form) with children (Hayes & Delamothe, 1997; Holliday, 2003; Larsson, Granhag, & Spjut, 2003; McCauley & Fisher, 1995; Milne & Bull, 2003).

The most extensively studied child forensic interview protocol is the NICHD Protocol developed by Michael Lamb and his colleagues (see Lamb et al., 2008). Using this protocol, field researchers have examined the quality of children's memory reports in relation to such factors as age, rapport building, open-ended questioning, use of drawings, and numerous other interview-relevant factors. Based on thousands of NICHD Protocol interviews conducted in Israel and other countries, Lamb and his colleagues have worked to pinpoint the interviewing techniques that produce the best quality of information from children.

## Evidence-Based Interview Strategies

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### Interview Structure

Interviews differ from ordinary conversations in that they usually have a definite purpose, a question-answer format, and a well-defined goal. Interview structures vary along a continuum from unstructured (where interviewers follow the child's lead), to highly structured (where exact wording of questions is scripted). In between are semistructured formats where interviewers follow questioning guidelines and cover predetermined topics, selecting from a tool kit of strategies. Structured protocols help prevent defective interviewing, and standardization increases adherence to evidence-based practices. Semistructured approaches afford more flexibility but also more room for error. Studies suggest that in the forensic context, totally unstructured interviews are ill advised. Even when interviewers are well trained, it is difficult for them to abide by best practice recommendations without following a structured or semistructured format.

Most protocols use a phased approach. Typically, this includes an initial preparatory phase (e.g., introductions, rapport development, promise to tell the truth, narrative practice, instructions), a second phase for information gathering (e.g., invitation for free recall "What happened?" followed by more focused questions to gather details), and finally a third phase of closure (e.g., recomposure if the child is upset, time for the child to ask questions). Phases vary in level of empirical support, with a great deal more research conducted on question types than on rapport development or closure.

## Setting

Most guidelines recommend an age-appropriate, private, child-friendly setting with minimal distraction. Studies confirm that distractions require children to divide their attention, often with adverse effects on their ability to focus on the interview (e.g., Tun & Wingfield, 1993). Private interviews are recommended to eliminate the possibility of contamination from parents or others who may have a vested interest in the outcome. Even without overt pressure, children may be reticent in the presence of another person. Studies show that children are reluctant to accuse adults of wrongdoing in the adults' presence (Flin, Stevenson, & Davies, 1989; Peters, 1991, Experiment 4; but see Talwar, Lee, Bala, & Lindsay, 2004), or to accuse a peer of wrongdoing in the presence of an innocent peer (Harari & McDavid, 1969). Moreover, it should not be assumed that a parent's presence will decrease stress. Whether a child will experience a particular person's presence as supportive depends on the nature of the relationship between the child, the person offering support, and the kind of support provided (e.g., Goodman, Quas, Batterman-Faunce, Riddlesberger, & Kuhn, 1994, 1997).

Of course, there are cases in which children protest, refuse, and cannot be reassured (e.g., Goodman et al., 1998). Interviewers will want to consider taking precautions when they decide support persons are necessary during the interview, such as instructing the support person to sit behind the child and to redirect the child back to the interviewer if the child has questions. Many protocols recommend asking the adult to leave once the child is comfortable but before substantive questioning begins.

## Interviewer Demeanor

There is scientific evidence suggesting that interviewers are more successful when they provide a supportive yet nonsuggestive atmosphere. Social support in the form of eye contact, relaxed body posture, smiling, and warm intonation has been shown to help children be more resistant to misleading questions and to improve interview performance without contaminating their accounts of nonabusive events (see Bottoms, Quas, & Davis, 2007 for review).

Obviously, it is critical that supportiveness not become selective reinforcement of responses that fit the interviewer's a priori beliefs. Interviewer bias has been linked with distortions of children's accounts, underscoring the need for objectivity and neutrality (Ceci & Bruck, 2006). In experimental studies, when interviewers are provided with biasing information about false events prior to the interview—and are allowed to script their own questions—they tend to ask repeated yes/no questions about the suggested events (Gilstrap, 2004), increasing error (White, Leichtman, & Ceci, 1997; but see Goodman, Sharma, Thomas, & Considine, 1995). If combined with selective reinforcement of desired responses, these questions can dramatically increase young children's errors (Garven, Wood, & Malpass, 2000; Garven, Wood, Malpass, & Shaw, 1998). Interviewers should strive to remain objective and neutral



regarding the veracity of the allegations. Interviewers should explore alternative hypotheses and keep biases in check.

### **Children's Reluctance**

Studies are clear that interviewers should refrain from pressuring reluctant children. Assuming the child is interviewed relatively soon after an initial disclosure, interviewers should use nonleading means of eliciting information. The goal is to provide an opportunity for disclosure of abuse without creating a false report.

Many abused children are ambivalent about disclosing and are subject to pressures to recant if they have previously disclosed (see Chapter 14). A child might have freely disclosed to a parent or a trusted adult but not be comfortable talking to a stranger. Moreover, very young children may need more guidance not just to overcome reluctance but to overcome their verbal and memory limitations. Dealing with nakedness and genital touch is potentially embarrassing (Saywitz, Goodman, Nicholas, & Moan, 1991)—even more so if the child recognizes that the touching was wrong.

Some sexual abusers warn victims not to tell (Smith & Elstein, 1993). Even without warnings, the secrecy surrounding abuse teaches the child not to tell. Sexual abusers may threaten violence toward the child, the child's mother, pets, or others, reinforcing reluctance to disclose (Sas & Cunningham, 1995). Perpetrators may seduce their victim, making the child reluctant to tell due to a sense of guilt. If family members have positive feelings about the abuser (e.g., uncle, mother's boyfriend), the child may be reluctant to get the adult in trouble (Sauzier, 1989).

Another reason to avoid pressuring reluctant children is that pressure may taint truly abused children's reports, undermine their credibility, or create avoidable inconsistencies in their reports. Even if the interviewer's leading questions do not in fact adversely influence the child's report (e.g., Quas et al., 2007), the presence of the questions may subject the interview to attack in court. See Chapter 22 for discussion of the courtroom strategy of attacking forensic interviews.

Studies do not suggest that it is necessary to avoid any questions that could be characterized as suggestive. Thus, interviewers are not limited to a simple, "Is there something you want to tell me?" and nothing more. Interviewers strive for a middle ground between suggestive questions and completely nonsuggestive open-ended invitations to speak. Finding the right balance requires skill, training, and experience.

### **Children's Suggestibility**

Interviewers do not know ahead of time if a child has in fact been abused. Interviewers do know, however, that pressure on a nonabused child may lead

to a false allegation (Ceci & Bruck, 2006). Researchers have demonstrated that a number of coercive interviewing techniques can produce false reports, particularly in preschool children. These techniques include selective reinforcement (rewarding desired responses and punishing undesired responses; Garven et al., 1998, 2000), stereotype induction (telling the child that the suspect is a bad person; Leichtman & Ceci, 1995), the use of authority (telling the child what the parent has said or what the interviewer believes; Ceci, Loftus, Leichtman, & Bruck, 1994), and the use and repetition of suggestive questions (Cassel, Roebers, & Bjorklund, 1996; but see Goodman & Quas, 2008; Quas et al., 2007).

Although individual differences in suggestibility proneness exist at every age, overall young children are particularly likely to fall sway to suggestive pressures. During the preschool years, children develop an understanding of the means by which knowledge is acquired and the possibility that beliefs could be false. They become better able to distinguish between events they have personally experienced and events about which they have been told, or heard, or imagined—a process known as source monitoring. Researchers have identified links between age trends in suggestibility and the acquisition of source monitoring abilities (Robinson & Whitcombe, 2003; Welch-Ross, 2000). Young children are inclined to assume that adults are knowledgeable, which increases their vulnerability to suggestion. Preschool children are more suggestible when questioned by an adult than when questioned by a child (Ceci, Ross, & Toglia, 1987), and susceptibility to the status of adults as questioners diminishes with age (Kwock & Winer, 1986). These studies highlight the importance of avoiding leading techniques and taking precautions to avoid suggestion.

## Rapport Development

It is not uncommon for a young child to experience trepidation about leaving familiar caretakers to talk privately with an unfamiliar adult for an unknown purpose. Most guidelines mention that interviewers need to spend time establishing rapport. Yet, there is little scientific data available on the best methods for developing rapport with children. At least one study suggests maltreated children have more difficulty establishing rapport with professionals than nonmaltreated children with mental health problems (Eltz, Shirk, & Sarlin, 1995). Yet, little is known about how children decide whom to trust. Social support provided by the interviewer, as described earlier, should facilitate rapport. Studies of children's limited knowledge of the legal system suggest introductions and developmentally sensitive explanations that demystify the legal context might reduce children's uncertainty about interviewer intentions and improve their productivity (e.g., Nathanson & Saywitz, 2003).

Early verbal interactions during rapport building can be used to demonstrate that the child will be expected to provide as much detail as possible in his or her own words with minimal prompting. To this end,

interviewers can rely on open-ended questions that call for multiword responses as opposed to questions that can be answered yes or no. Time spent in narrative practice, as described in the next section, may also serve the goal of furthering rapport.

### **Narrative Practice**

Numerous studies have demonstrated the benefits of practice exercises prior to the substantive portion of the interview to create a template for later questioning patterns. Practice often consists of children answering open-ended questions about innocuous events during the introductory phase of the interview. Studies of the NICHD, CI, and Narrative Elaboration (NE) Protocols demonstrate that practice answering questions yields greater amounts of information in field studies and greater accuracy of recall in laboratory studies (e.g., Saywitz et al., 1992; Sternberg et al., 1997). In the field, Sternberg et al. (1997) found that when interviewers used open-ended prompts rather than option-posing questions in the beginning phase of the interview, children provided longer and richer responses to the first substantive question about abuse and longer responses to free recall questions throughout the interview. In the laboratory, NE and CIs involving similar procedures elicited more information that was accurate than did standard interviews. The optimal length of practice appears to vary by child, but 5 minutes is often sufficient. Observational research cautions against unduly lengthy narrative practice (Davies, Westcott, & Horan, 2000; Hershkowitz, 2009), and experimental work with 10 to 15 minutes of narrative practice has produced mixed results, possibly due to fatigue (Holliday & Albon, 2004; Roberts, Lamb, & Sternberg, 2004).

Various procedures for conducting narrative practice have been studied. In the NICHD Protocol, children are asked about a recent event (such as a birthday celebration) and prompted with “tell me more about the [detail provided by child]” and “what happened next” questions. Similarly, in the NE Protocol, interviewers ask school-age children to narrate a recent event: “Tell me what you did this morning from the time you got up until the time you got here” and follow up by asking, “Tell me more” or “What happened next?” (Saywitz, Snyder, & Nathanson, 1999). In the NE Protocol, preschoolers are asked to describe the interview room or to describe a storybook picture presented by the interviewer (“Tell me what’s happening in this picture”) to minimize the demands on memory while modeling questioning format (Dorado & Saywitz, 2001). In the CI modified for children, interviewers say, “Tell me what happens when you brush your teeth” (McCauley & Fisher, 1995). In all of these studies, interviewers taught children what to expect by modeling open-ended prompts (“What happened next? Tell me more. . .”) to help children practice elaborating on their descriptions in their own words without the use of leading or specific questions.

## Introducing Topic of Interest

Children should be given the opportunity to provide a spontaneous report in response to open-ended questions. If children do not spontaneously mention abuse, introducing the topic is a sensitive and pivotal moment in the interview. Further research is needed to find ways that are nonleading and productive. However, research on the NICHD Protocol provides guidance for introducing the topic of abuse in an investigative interview when children have previously disclosed abuse to someone else. Interviewers open the conversation by saying, "Tell me why you came to talk to me." Researchers have found that most children in their studies who already disclosed abuse to someone else understood the purpose of the investigative interview and were ready to disclose (Sternberg, Lamb, Orbach, Esplin, & Mitchell, 2001). If the child does not mention abuse, the interviewer says, "It is important for me to understand why you came to talk to me." If the child remains unresponsive, the interviewer works through a series of increasingly focused questions, which are based on the child's previous disclosure (or the reason abuse is suspected) but avoids directly suggesting that a particular suspect has performed a specific act. For example, "I heard that you saw a policeman (or social worker, doctor, etc.) last week (or yesterday). Tell me what you talked about." Or, "I told you, my job is to talk to kids about things that might have happened to them. It's very important that I understand why you are here. Tell me why you think your mom (or your dad, etc.) brought you here today."

At the point that a child alleges abuse, most guidelines and protocols recommend that the interviewer say to the child the following: "Tell me everything that happened." The interviewer encourages the child to provide a narrative of the abuse, using questions such as "Tell me more about [action or detail mentioned by the child]" and "What happened next?" The CI instructs children to "tell everything that happened, even the little things that you might not think are very important." This permits the interviewer, rather than the child, to judge forensic relevance. The NE Protocol uses nonleading prompts to help children elaborate on participants, setting, actions, conversations, and emotions.

Research findings support beginning with very general prompts, but when these do not elicit a disclosure, protocols recommend that alternative strategies for engaging in a conversation about points of potential forensic relevance be conducted in the least leading fashion possible. However, there is little research testing the independent contribution of various strategies. Experts tend to recommend more indirect approaches. Faller (1996), for example, recommends asking about different people in the child's life and what the child likes and does not like about each individual. If the interviewer asks about a number of people other than the perpetrator, questions about the perpetrator would not be unduly leading.

The Finding Words approach uses anatomical drawings or dolls as an introductory tool (Holmes & Vieth, 2003; Vieth, 2006). Although dolls and

drawings can be used nonsuggestively, evidence suggests that actual practice is often problematic (e.g., Everson & Boat, 2002; Thierry, Lamb, Orbach, & Pipe, 2005). Several researchers have raised concerns about the risks associated with anatomical drawings and dolls, particularly when used in interviews with preschool children (Bruck, Ceci, Francoeur, & Renick, 1995; Steward et al., 1996). Brown, Pipe, Lewis, Lamb, and Orbach (2007) found that encouraging children to provide verbal descriptions of abuse was superior to pointing to body parts on a drawing. Further research is needed to examine how interviewers trained by Finding Words use interviewing aids in the field and the impact on children's reports (Lyon et al., 2009).

### **Phrasing Questions in Language Children Understand**

Numerous studies demonstrate the value of phrasing questions in grammar and vocabulary children can understand. Unfortunately, questions asked of child witnesses are routinely beyond their level of comprehension. Communication breakdowns occur when young children are asked long, overloaded questions using complex grammar and sophisticated vocabulary (Brennan & Brennan, 1988; Carter, Bottoms, & Levine, 1996; Perry, McAuliff, Tan, & Claycomb, 1995; Saywitz, Jaenicke, & Camparo, 1990). Interviewers are encouraged to simplify their language, for example, by clarifying terms in advance, asking children to tell the interviewer what they think a word means ("Tell me what allegation means") rather than asking whether children know what a word means ("Do you know what an allegation is?") because children are likely to answer "yes" even when thinking about a different word (e.g., "alligator"). To simplify language, use short sentences and simple grammar, devoid of embedded clauses and double negatives. Replace pronouns ("he" and "she") and deictics ("that" or "there") with proper names (e.g., replace "he" with "Steve") and specific locations (e.g., replace "there" with "in the garage"; see Saywitz & Camparo, 1998; Walker, 1999).

### **Avoiding Concepts That Are Difficult for Children to Understand**

Interviewers should avoid questions with cognitive demands that exceed a child's knowledge and reasoning skills. For example, number and time are concepts common in investigative interviewing that develop gradually and are difficult for young children to understand and use accurately in verbal conversation.

#### ***Number***

It can be problematic to ask a young child how many times an event occurred. The child is likely to pick an arbitrary number (a million; 38). As well, the number may change from interview to interview. A moment's reflection highlights what a difficult task it is to estimate how many times something

occurred. Either one imagines each event and mentally counts, or one estimates the number (Bradburn, 2000).

It is easy to misjudge a child's ability to estimate. Children can often recite numbers before they know how to count and can count objects before they can count events in memory (Wynn, 1990, 1992). What constitutes an event is also open to question. Does the child enumerate abuse by reflecting on particular acts or on times when a series of acts occurred?

To approach questions regarding number, many experts recommend an approach incorporated into the NICHD Protocol: After the child has first disclosed abuse and described an episode, the interviewer asks, "Did this happen one time or more than one time?" If the child says, "More than one time," the interviewer then inquires about the last time the abuse occurred, the first time the abuse occurred, and the time the child remembers the most. The interviewer follows up by asking if there are any other times the child remembers.

### *Time*

Similar to children's understanding of numbers, children's understanding of time develops gradually. Children learn how to tell time on a clock before they can estimate what time an event occurred. Unless one looks at a watch or calendar during an event, subsequent recall of the time requires inferential skills (e.g., "It was shortly before New Year's, so it probably was December"; Friedman, 1993). Many children fail to make such inferences. The interviewer can often elicit information from the child about contemporaneous events, which enables the interviewer to estimate the time. For example, a child may state where other people were at the time of the abuse (e.g., "My mother was at church"), or what the child was doing (e.g., asleep at night, taking a nap after school). Legally, exact dates and times are not necessary, particularly if the abuser had frequent access to the child and the abuse occurred on multiple occasions over a period of time (Myers, 2005).

Some temporal terms can be confusing for young children. "Yesterday" and "today" are difficult for young children, in part because of their shifting meaning (today is tomorrow's yesterday). For the young child, yesterday often refers to anything in the past, and tomorrow refers to anything in the future (Harner, 1982). Obviously, the interviewer should not assume that a young child understands weeks and months or that the child can estimate time using these intervals.

When questioning children about a sequence of events, interviewers need to be cautious in using the terms *next*, *before*, and *after* because younger children often describe events in the order in which they occurred regardless of whether one asks about what happened before or after another event (Carni & French, 1984). The safest course is to ask, "What happened next?"

## Instructions to Improve Children's Performance

Young children are accustomed to speaking to authoritative adults (teachers, parents) who already know the answers to many of their questions. Given a strongly worded question, children may agree not because of what they believe but because of their desire to please the interviewer and because of their reluctance to appear ignorant. It may be possible to reduce misconceptions children have about interviews through instructions. Researchers have examined instructions that increase children's willingness to say, "I don't know" or "I don't understand," reduce children's tendencies to defer to authoritative interviewers, and increase children's willingness to disclose negative experiences.

*Giving permission to say "I don't know."* Children are often reluctant to say "I don't know," particularly when asked yes/no questions (e.g., Poole & Lindsay, 2001) or specific Wh- questions (e.g., Memon & Vartoukian, 1996). A number of studies have found that instructing children that "I don't know" answers are acceptable reduces children's suggestibility to misleading questions (Cordon, Goodman, & Saetermoe, 2005; Endres, Poggenpohl, & Erben, 1999; Gee, Gregory, & Pipe, 1999; Saywitz & Moan-Hardie, 1994; Walker, Lunning, & Eilts, 1996; Warren, Hulse-Trotter, & Tubbs, 1991). Several studies include helping the child practice saying, "I don't know" by asking a few unanswerable questions, such as "If I ask you a question and you don't know the answer, then just say 'I don't know.'" So, if I ask you the question 'What is my dog's name?', what do you say? OK, because you don't know. But what if I ask you 'Do you have a dog?' OK, because you do know."

Interviewers are cautioned to provide the child examples because a simple "It's OK to say I don't know" is likely to be ineffective (Geddie, Fradin, & Beer, 2000; Memon & Vartoukian, 1996; Moston, 1987). Furthermore, interviewers should reinforce giving an answer when one *does* know, so children don't overuse the "I don't know" response (Gee et al., 1999; Saywitz & Moan-Hardie, 1994).

*Giving permission to say "I don't understand."* Children rarely ask for clarification of questions they do not understand (Carter et al., 1996; Perry et al., 1995; Saywitz et al., 1999). Children are less adept than adults at monitoring their comprehension. Even if they recognize incomprehension, they are reluctant to let the interviewer know. Telling children that it is permissible to say they do not understand and that doing so will lead the interviewer to reword the question reduces the likelihood that grade school children will attempt to answer incomprehensible questions (Saywitz et al., 1999). Practice on a few incomprehensible questions improves school age children's performance still further (Saywitz et al., 1999) and even has some positive effect with preschool children (Peters & Nunez, 1998).

Different protocols use different variations on this instruction. In experimental studies, Saywitz and colleagues (1999) told children,

I am going to ask you some questions. Some of the questions will be easy to understand, and some questions will be hard to understand. When you hear a question you do not understand, tell me that you do not understand the question. Say, "I don't understand," "I don't know what you mean," or "I don't get it." (p. 61)

In addition, very young children were told to "put out your hand like a police officer stopping traffic to stop the question" (Saywitz et al., p. 61). In the NICHD Protocol, children are told,

If I ask you a question and you don't know what I mean or what I am saying, you can say, "I don't know what you mean." I will ask it in a different way. So, if I ask you, "What is your gender?" what do you say? Good, because "gender" is a big word. So, then I would ask, "Are you a boy or a girl?" OK, because boy or girl is an easier way to say gender. (Lamb et al., 2008, p. 86)

*Warning children about misleading questions.* Two studies have found positive effects from warning children that questions might mislead them and then giving permission for them to correct the interviewer (Saywitz & Moan-Hardie, 1994; Warren et al., 1991). Saywitz and Moan-Hardie (1994) included the following instruction as part of their intervention to reduce suggestibility:

Sometimes I may put my guess into a question or I may make a mistake. You should tell me if I am wrong. I was not there, and I could not know what happened. It is important for you to tell me if I make a mistake. I want you to correct me.

*Telling children you don't know what happened and cannot help them answer questions.* Children often assume that interviewers are knowledgeable, even though the interviewer did not witness the event (Saywitz & Nathanson, 1993). Children are more suggestible when they believe the interviewer knows what occurred (Ceci et al., 1987; Kwock & Winer, 1986; Lampinen & Smith, 1995; Toglia, Ross, Ceci, & Hembrooke, 1992). Informing children that one doesn't know has been shown to reduce suggestibility to misleading questions (Mulder & Vrij, 1996). Saywitz and Moan-Hardie (1994) found positive results with the following instruction: "I was not there. I could not know what happened. I will not be able to help you answer the questions." Similarly, Mulder and Vrij (1996) informed children, "I don't know what's happened to you. I won't be able to tell you the answers to my questions."

*Eliciting a promise to tell the truth.* Although children are unlikely to understand adult versions of the oath, by grade school children recognize the significance of promises, and still younger children understand that when one says one will do something, one is likely to do it (Lyon, 2000). Research with both maltreated and nonmaltreated children has found that eliciting a promise to tell



the truth increases children's honesty (Lyon & Dorado, 2008; Lyon, Malloy, Quas, & Talwar, 2008; Talwar, Lee, Bala, & Lindsay, 2002, 2004). Lyon and his colleagues (2008) found positive effects from asking the child, "Do you promise that you will tell me the truth? Are you going to tell me any lies?"

In sum, interview instructions are easy to administer and improve the performance of many children. However, instructions are not a panacea. Highly leading questions will still elicit high rates of error (e.g., Mulder & Vrij, 1996), and children will underutilize the options provided them (e.g., to express incomprehension; Peters & Nunez, 1999; Saywitz et al., 1999). Although some research has found that preschool children benefit from instructions (Cordon et al., 2005; Peters & Nunez, 1998), younger children are likely to benefit less than older children because of their difficulties in understanding why and how one knows or doesn't know (Welch-Ross, 2000) and in detecting their incomprehension (Cosgrove & Patterson, 1977). Given the limitations of instructions, the optimal solution is to ask simple nonleading questions. The best way to improve children's performance is to improve the questions we ask.

### **Eliciting Additional Details Without Leading Questions**

Interviewers should avoid suggestive techniques that mislead, introduce bias, reinforce interviewer expectations, apply peer pressure, stereotype the accused as a bad person, and invite children to pretend or speculate (Ceci & Bruck, 2006). Most interviewers know that they should not ask children leading questions, but few agree about what a leading question is. Data support the notion that questions lie along a continuum of impact. On one end of the continuum (the more leading end), the interviewer supplies details, and on the other end of the continuum (the more nonleading end) the child supplies details. Consider the distinction between free recall and recognition (recognition is sometimes called "option posing"). With free recall, the interviewer simply asks, "What happened?" and the child supplies the details. With recognition, the interviewer provides choices, and the child picks the correct choice. Hence, the interviewer supplies details that the child merely affirms or denies. Recognition questions tend to begin with "did," "was," and "were." Recognition questions often limit the child's response to a single word.

It is easy to understand why questions that move toward interviewer-supplied details increase the dangers of suggestibility. If the interviewer supplies details, many of the details are likely to be incorrect—the product of the interviewer's presuppositions or biases. And if children are susceptible to suggestion because they wish to please the interviewer or because they doubt their own memory, interviewer-supplied details may taint the child's report and possibly the child's memory for the event (Ceci & Bruck, 2006). Moreover, because children are inclined to guess, it is easier for them to guess in response to questions with interviewer-supplied details (Waterman, Blades, & Spencer, 2001).

## Question Types

*Elaboration prompts.* Fortunately, there are questions that lie between free recall and recognition. To elicit additional detail in the child's own words, studies suggest interviewers refer to details mentioned by the child previously and follow up with a request for elaboration like "Tell me more about . . ." (e.g., "You said he put some cream on his finger. Tell me more about that"; Dorado & Saywitz, 2001; Lamb et al., 2008). In order to encourage the child to continue to provide narrative information, interviewers should make liberal use of "What happened next?" questions (Lamb et al., 2008).

*Wh- questions.* Wh- questions typically begin with "What," "Where," "When," "Who," "Why," or "How." Wh- questions can be either general or specific. As Wh- questions become more specific, the interviewer supplies more of the details. Compare "What was the man wearing?" (more general) with "What color were the man's shoes?" (more specific). In comparison to free recall prompts like "What happened?" specific Wh- questions focus on particular aspects of the to-be-remembered event. This is helpful to the child who has difficulty self-generating details. However, as Wh- questions become more specific, two dangers increase. One danger is that the interviewer's beliefs about the event will affect the child's report (e.g., the interviewer assumes the man was wearing shoes). Another danger is that a child who is inclined to guess will come up with a plausible response—one that is incorporated into the child's report.

Yet, exceedingly general questions can become so vague or abstract that they sail over children's heads. A helpful guide to balance the general and the specific is to try to use concepts that are concrete and easy to visualize, rather than speaking in generalities, without introducing leading information not already mentioned by the child. One can follow up on answers to general questions to be certain the interviewer accurately understands the child's answer with prompts that ask children to explain their answer in their own words (e.g., "Tell me more about. . . ." or "What makes you think so?").

When compared to the forced-choice questions described next, Wh- questions are often the least leading form of follow-up question to elicit elaboration. For example, when questioning children about sexual abuse, it is tempting to ask, "Were your clothes on or off?" because this detail helps clarify that the touching was sexual and affects the seriousness of the abuse. However, because the question is forced choice (recognition), children will often simply choose one of the options. In contrast, the interviewer who asks, "Where were your clothes?" will discover that children often describe their clothes such that they were neither on nor off (e.g., "around my knees"). If the child had simply chosen one of the options ("on" or "off"), the interviewer would have formed an inaccurate picture of the event. Similarly, interviewers will often ask, "Did he hit you?" which can be less leadingly asked in Wh- form as "What did he do with his hands?"

*Exploring event details with Wh- questions.* The NE Protocol provides guidance on using Wh- questions to explore five basic characteristics of incidents: (1) participants (e.g., “Who was there?” “What did the person [or name of person identified by child] look like?”); (2) location (e.g., “Where were you?” “What did the place look like?”); (3) specific actions (e.g., “What did the person [or name of person previously identified by child] do?”); (4) conversations (e.g., “What did the person [or name of person identified by child] say or tell you?”); and (5) emotional states of participants (e.g., “How did you feel when. . . .” “What did the person do or say to make you think he was [insert name of emotion suggested by child] . . . ?”). These categories are derived from a rich body of research on children’s event knowledge and narrative skills (Nelson, 1986; Stein & Glenn, 1978).

Another element of elaboration is to prompt children to justify their answers with “What makes you think so?” Or “What made him do that?” (Saywitz & Snyder, 1996; Saywitz, Snyder, & Lamphear, 1996). For example, when a child said someone was mad, a request from the interviewer for clarification elicited from the child the behaviors the child observed that led to the impression of anger, “He yelled at my sister to get out when she walked in on us.”

A Wh- question is not only a way to avoid the dangers of suggestibility but it is also a means of eliciting details that an interviewer would not elicit were he or she limited to recognition questions. If an interviewer asks a series of yes/no questions, the interviewer is likely to receive a series of yes/no answers, and the information obtained will only be as good as the interviewer’s ability to imagine the details. If the interviewer asks Wh- questions that require multiword responses, children will often mention idiosyncratic details of the abuse that lend their reports credibility. Moreover, the likelihood of logically inconsistent responses is reduced if questions are Wh- rather than yes/no.

*Yes/no questions.* Recognition questions can vary in how leading they are. The simplest sort of recognition question is a yes/no question. Like Wh- questions, yes/no questions can be either general (“Did he say anything?”) or specific (“Did he tell you to keep a secret?”). Yes/no questions are not highly leading but can be problematic if a child has a response-bias (a tendency to answer questions yes or no) or is reluctant to answer. The research is mixed on whether young children do indeed exhibit a “yes” bias to yes/no questions (cf. Greenhoot, Ornstein, Gordon, & Baker-Ward, 1999 [yes-bias not detected] with Peterson, Dowden, & Tobin, 1999 [yes-bias detected]). However, there is good evidence that young children are reluctant to answer “I don’t know” to yes/no questions (Poole & Lindsay, 2001; Walker et al., 1996). Moreover, in laboratory studies, children’s responses to yes/no questions are less accurate than their responses to open-ended questions (Baker-Ward, Gordon, Ornstein, Larus, & Clubb, 1993).

Yes/no questions can be made more leading by turning them into negative term questions (e.g., the negative form of “Did he tell you to keep a secret?” is “Didn’t he tell you to keep a secret?”; Whipple, 1915) or tag questions (e.g., “He told you to keep a secret, didn’t he?”; Greenstock & Pipe, 1996). Negative

term questions and tag questions are particularly likely to affect the responses of preschool children, who are more vulnerable to interviewer pressure. Fortunately, these two question types are not difficult to avoid.

Most guidelines recommend that when yes/no questions are necessary, they are followed by open-ended prompts to elaborate. For example, if an interviewer asks a specific yes/no or forced-choice question, the interviewer follows up with an open-ended question to minimize the suggestiveness of the specific question (Sternberg, Lamb, Esplin, Orbach, & Hershkowitz, 2002). If a child answers, “Yes” to “Did he say what would happen if you told anyone?” the interviewer follows up with “What did he say?”

*Forced choice/multiple choice questions.* Another kind of recognition question that is potentially problematic is the forced-choice question in which the interviewer gives the child a series of choices from which the child chooses the “correct” response (e.g., “Was his shirt red or blue?”). Like yes/no questions, forced-choice questions assist the child in generating details but may also supply erroneous information. Because of their reluctance to answer “I don’t know” to recognition questions, young children may feel compelled to choose one of the options even if they don’t know the correct answer, and even if neither answer is correct. When children choose randomly, they tend to choose the last option (Walker et al., 1996).

It is often difficult to interpret the meaning of a child’s response to a forced choice question. Interviewers often make the mistake of rephrasing Wh- questions as yes/no questions, by prefacing the Wh- question with “Can you tell me. . . ?” or “Do you know. . . ?” Although one could argue that prefacing Wh- questions in this way reduces the likelihood that a child will guess a detail (because she can instead answer “no”), “No” responses are ambiguous. For example, if one asks “Do you know if he said anything?” it is unclear if a “No” response means “No, I don’t know,” or “No, he didn’t say anything.”

In summary, eliciting additional detail requires attention to the phrasing of questions in the least leading format. Avoid complex grammar, sophisticated vocabulary, and difficult concepts. Questions that allow children to describe event details in their own words, such as Wh- questions about observable information that require multi-word responses followed by open-ended prompts to explore basic event categories, are preferable to questions that elicit one-word answers such as yes/no, tag, negative insertion, and multiple choice questions.

## Multiple Interviews

Excessive interviewing of young children using suggestive techniques can be detrimental to the accuracy of their reports (e.g., Ceci et al., 1994; but see Quas et al., 2007). However, repeated nonleading interviewing tends to uncover new details (Hershkowitz & Terner, 2007; see reviews in LaRooy, Katz, Malloy, & Lamb, in press, and LaRooy, Lamb, & Pipe, 2009). Researchers have not found a detrimental effect of repeating open-ended

Wh- questions (who, what, where, when, how). Repetition of yes/no questions, however, can be problematic, especially those with embedded information that came from sources outside the child (see review in Lyon, 2002).

## Conclusion

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Much has been learned from scientific research on forensic interviewing of children. Although challenges remain, research provides important insights into choreographing child forensic interviewing into a successful “dance”—one that is informed by science. Guidelines and protocols help teach both the interviewer and the child the appropriate steps—steps that promote accurate and complete reports. In this way, there is less stepping on each others’ toes, and the interviewer is less likely to be accused of inappropriately leading the child’s performance. Research helps the interviewer design a dance that optimizes the chances of eliciting accurate and credible information. This dance benefits all.

## References

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- Baker-Ward, L., Gordon, B. N., Ornstein, P. A., Larus, D. M., & Clubb, P. A. (1993). Young children’s long-term retention of a pediatric examination. *Child Development, 64*, 1519–1533.
- Bottoms, B. L., Nadjowski, C. J., & Goodman, G. S. (Eds.). (2009). *Children as victims, witnesses, and offenders*. New York: Guilford Press.
- Bottoms, B. L., Quas, J. A., & Davis, S. L. (2007). The influence of interviewer-provided social support on children’s suggestibility, memory, and disclosures. In M.-E. Pipe, M. E., Lamb, Y. Orbach, & A.-C. Cederborg (Eds.), *Child sexual abuse: Disclosure, delay, and denial* (pp. 135–158). Mahwah, NJ: Lawrence Erlbaum.
- Bradburn, N. M. (2000). Temporal representation and event dating. In A. A. Stone et al. (Eds.), *The science of self-report: Implications for research and practice* (pp. 49–61). Mahwah, NJ: Lawrence Erlbaum.
- Brennan, M., & Brennan, R. (1988). *Strange language: Child victims under cross examination*. Riverina, Australia: Charles Stuart University.
- Brown, D. A., Pipe, M.-E., Lewis, C., Lamb, M. E., & Orbach, Y. (2007). Supportive or suggestive: Do human figure drawings help 5- to 7-year-old children to report touch? *Journal of Consulting and Clinical Psychology, 75*, 33–42.
- Bruck, M., Ceci, S. J., Francoeur, E., & Renick, A. (1995). Anatomically detailed dolls do not facilitate preschoolers’ reports of a pediatric examination involving genital touching. *Journal of Experimental Psychology: Applied, 1*, 95–109.
- Carni, E., & French, L. A. (1984). The acquisition of before and after reconsidered: What develops? *Journal of Experimental Child Psychology, 37*, 394–403.
- Carter, C., Bottoms, B. L., & Levine, M. (1996). Linguistic and socio-emotional influences on the accuracy of children’s reports. *Law and Human Behavior, 20*, 335–358.
- Cassel, W. S., Roebers, C. E. M., & Bjorklund, D. F. (1996). Developmental patterns of eyewitness responses to repeated and increasingly suggested questions. *Journal of Experimental Child Psychology, 61*, 116–133.

- Ceci, S. J., & Bruck, M. (2006). Children's suggestibility: Characteristics and mechanisms. *Advances in Child Development & Behavior*, 34, 247–281.
- Ceci, S. J., Loftus, E. F., Leichtman, M. D., & Bruck, M. (1994). The possible role of source misattributions in the creation of false beliefs among preschoolers. *International Journal of Clinical and Experimental Hypnosis*, 42, 304–320.
- Ceci, S. J., Ross, D. F., & Toglia, M. P. (1987). Age differences in suggestibility: Narrowing the uncertainties. In S. J. Ceci, M. P. Toglia, & D. F. Ross (Eds.), *Children's eyewitness memory*. New York: Springer.
- Cordon, I. M., Goodman, G. S., & Saetermoe, C. L. (2005). Facilitating children's accurate responses: Conversational rules and interview style. *Applied Cognitive Psychology*, 19, 249–266.
- Cosgrove, J. M., & Patterson, C. J. (1977). Plans and the development of listener skills. *Developmental Psychology*, 13, 557–564.
- Davies, G. M., Westcott, H. L., & Horan, N. (2000). The impact of questioning style on the content of investigative interviews with suspected child sexual abuse victims. *Psychology, Crime and Law*, 6, 81–97.
- Dorado, J., & Saywitz, K. (2001). Interviewing preschoolers from low and middle income communities: A test of the narrative elaboration recall improvement technique. *Journal of Clinical Child Psychology*, 30, 566–578.
- Eisen, M. L., Goodman, G. S., Qin, J. J., Davis, S., & Crayton, J. (2007). Maltreated children's memory: Accuracy, suggestibility, and psychopathology. *Developmental Psychology*, 43, 1275–1294.
- Eltz, M. J., Shirk, S. R., & Sarlin, N. (1995). Alliance formation and treatment outcome among maltreated adolescents. *Child Abuse and Neglect*, 19, 419–431.
- Endres, J., Poggenpohl, C., & Erben, C. (1999). Repetitions, warnings, and video: Cognitive and motivational components in preschool children's suggestibility. *Legal & Criminological Psychology*, 4, 129–146.
- Everson, M. D., & Boat, B. W. (2002). The utility of anatomical dolls and drawing in child forensic interviews. In M. L. Eisen, J. A. Quas, & G. S. Goodman (Eds.), *Memory and suggestibility in the forensic interview* (pp. 383–408). Mahwah, NJ: Lawrence Erlbaum.
- Fairley, C. L. (2005). *Semi-structured versus non-structured interview protocols in the assessment of child abuse: Does it really matter?* Unpublished doctoral dissertation, University of South Carolina.
- Faller, K. C. (1996). *Evaluating children suspected of having been sexually abused*. Thousand Oaks, CA: Sage.
- Fisher, R., Brennan, K. H., & McCauley, M. (2002). The Cognitive Interview method to enhance eyewitness recall. In M. L. Eisen, J. A. Quas, & G. S. Goodman (Eds.), *Memory and suggestibility in the forensic interview* (pp. 265–286). Mahwah, NJ: Lawrence Erlbaum.
- Fisher, R. P., & Geiselman, R. E. (1992). *Memory-enhancing techniques for investigative interviewing: The cognitive interview*. Springfield, IL: Charles C Thomas.
- Flin, R., Stevenson, Y., & Davies, G. M. (1989). Children's knowledge of court proceedings. *British Journal of Psychology*, 80, 285–297.
- Friedman, W. J. (1993). Memory of the time of past events. *Psychological Bulletin*, 113, 44–66.
- Garven, S., Wood, J. M., & Malpass, R. S. (2000). Allegations of wrongdoing: The effects of reinforcement on children's mundane and fantastic claims. *Journal of Applied Psychology*, 85, 38–49.

- Garven, S., Wood, J. M., Malpass, R. S., & Shaw, J. S. (1998). More than suggestion: The effect of interviewing techniques from the McMartin Preschool case. *Journal of Applied Psychology, 83*, 347–359.
- Geddie, L., Fradin, S., & Beer, J. (2000). Child characteristics which impact accuracy of recall and suggestibility in preschoolers: Is age the best predictor? *Child Abuse and Neglect, 24*, 223–235.
- Gee, S., Gregory, M., & Pipe, M.-E. (1999). “What colour is your pet dinosaur?” The impact of preinterview training and question type on children’s answers. *Legal & Criminological Psychology, 4*, 111–128.
- Gilstrap, L. L. (2004). A missing link in suggestibility research: The behavior of field interviewers in unstructured interviews with young children. *Journal of Experimental Psychology: Applied, 10*, 13–24.
- Goodman, G. S., & Quas, J. (2008). Repeated interviews in children’s memory. *New Directions in Psychological Science, 17*(6), 386–389.
- Goodman, G., Quas, J., Batterman-Faunce, J., Riddlesberger, M., & Kuhn, J. (1994). Predictors of accurate and inaccurate memories of traumatic events experienced in childhood. In K. Pezdek & W. Banks (Eds.), *False memory debate* (pp. 3–28). San Diego, CA: Academic Press.
- Goodman, G., Quas, J., Batterman-Faunce, J., Riddlesberger, M., & Kuhn, J. (1997). Children’s reactions to and memory for a stressful event: Influences of age, anatomical dolls, knowledge, and parental attachment. *Applied Developmental Science, 1*, 54–75.
- Goodman, G. S., Sharma, A., Thomas, S. F., & Considine, M. G. (1995). Mother knows best: Effects of relationship status and interviewer bias on children’s memory. *Journal of Experimental Child Psychology, 60*, 195–228.
- Goodman, G. S., Tobey, A., Batterman-Faunce, J., Orcutt, H., Thomas, S., Shapiro, C., et al. (1998). Face-to-face confrontation: Effects of closed-circuit technology on children’s eyewitness testimony and jurors’ decisions. *Law and Human Behavior, 22*, 165–203.
- Greenhoot, A. F., Ornstein, P. A., Gordon, B. N., & Baker-Ward, L. (1999). Acting out the details of a pediatric check-up: The impact of interview condition and behavioral style on children’s memory reports. *Child Development, 70*, 363–380.
- Greenstock, G., & Pipe, M.-E. (1996). Interviewing children about past events: The influence of peer support and misleading questions. *Child Abuse and Neglect, 20*, 69–80.
- Harari, H., & McDavid, J. W. (1969). Situational influence on moral justice: A study of ‘finking.’ *Journal of Personality and Social Psychology, 11*, 240–244.
- Harner, L. (1982). Talking about the past and the future. In W. J. Friedman (Ed.), *The developmental psychology of time* (pp. 141–169). New York: Academic Press.
- Hayes, B. K., & Delamothe, K. (1997). Cognitive interviewing procedures and suggestibility in children’s recall. *Journal of Applied Psychology, 82*, 562–577.
- Hershkovitz, I. (2009). Socioemotional factors in child sexual abuse investigations. *Child Maltreatment, 14*, 172–181.
- Hershkovitz, I., & Terner, A. (2007). The effects of repeated interviewing on children’s forensic statements of sexual abuse. *Applied Cognitive Psychology, 21*, 1131–1143.
- Holliday, R. E. (2003). The effect of a prior cognitive interview on children’s acceptance of misinformation. *Applied Cognitive Psychology, 17*, 443–457.

- Holliday, R. E., & Albon, A. J. (2004). Minimising misinformation effects in young children with cognitive interview mnemonics. *Applied Cognitive Psychology, 18*, 263–281.
- Holmes, L. S., & Vieth, V. (2003). Finding Words/Half a Nation: The forensic interview training program of CornerHouse and APRI's National Center for Prosecution of Child Abuse. *The APSAC Advisor, 15*, 4–8.
- Koehnken, G., Milne, R., Memon, A., & Bull, R. (1999). The cognitive interview: A meta-analysis. *Psychology, Crime & Law, 5*, 3–27.
- Kwoc, M. S., & Winer, G. A. (1986). Overcoming leading questions: Effects of psychosocial task variables. *Journal of Educational Psychology, 78*, 289–293.
- Lamb, M. E., Hershkowitz, I., Orbach, Y., & Esplin, P. W. (2008). *Tell me what happened: Structured investigative interviews of child victims and witnesses*. London: Wiley.
- Lampinen, J. M., & Smith, V. L. (1995). The incredible (and sometimes incredulous) child witness: Child eyewitnesses' sensitivity to source credibility cues. *Journal of Applied Psychology, 80*, 621–627.
- LaRooy, D., Katz, C., Malloy, L. C., & Lamb, M. E. (in press). Do we need to rethink guidance on repeated interviews? *Psychology, Public Policy, and Law*.
- LaRooy, D., Lamb, M. E., & Pipe, M.-E. (2009). Repeated interviewing: A critical evaluation of the risks and potential benefits. In K. Kuehnle & M. Connell (Eds.), *The evaluation of child sexual abuse allegations* (pp. 327–361). New York: Wiley.
- Larsson, A. S., Granhag, P. A., & Spjut, E. (2003). Children's recall and the Cognitive Interview: Do the positive effects hold over time? *Applied Cognitive Psychology, 17*, 203–214.
- Leander, L., Christianson, S. Å., & Granhag, P. A. (2007). A sexual abuse case study: Children's memories and reports. *Psychiatry, Psychology, and Law, 14*(1), 120–129.
- Leichtman, M. D., & Ceci, S. J. (1995). The effects of stereotypes and suggestions on preschoolers' reports. *Developmental Psychology, 31*, 568–578.
- Lyon, T. D. (2000). Child witnesses and the oath: Empirical evidence. *Southern California Law Review, 73*, 1017–1074.
- Lyon, T. D. (2002). Applying suggestibility research to the real world: The case of repeated questions. *Law & Contemporary Problems, 65*, 97–126.
- Lyon, T. D., & Dorado, J. (2008). Truth induction in young maltreated children: The effects of oath-taking and reassurance on true and false disclosures. *Child Abuse and Neglect, 32*, 738–748.
- Lyon, T. D., Lamb, M. E., & Myers, J. E. B. (2009). Author's response to Vieth (2008). *Child Abuse and Neglect, 33*, 71–74.
- Lyon, T. D., Malloy, L. C., Quas, J. A., & Talwar, V. (2008). Coaching, truth induction, and young maltreated children's false allegations and false denials. *Child Development, 79*, 914–929.
- McCauley, M. R., & Fisher, R. P. (1995). Facilitating children's eyewitness recall with the revised cognitive interview. *Journal of Applied Psychology, 80*, 510–516.
- Memon, A., & Vartoukian, R. (1996). The effects of repeated questioning on young children's eyewitness testimony. *British Journal of Psychology, 87*, 403–415.
- Milne, R., & Bull, R. (2003). Does the cognitive interview help children to resist the effects of suggestive questioning? *Legal & Criminological Psychology, 8*, 21–38.



- Moston, S. (1987). The suggestibility of children in interview studies. *First Language*, 7, 67–78.
- Mulder, M., & Vrij, A. (1996). Explaining conversation rules to children: An intervention study to facilitate children's accurate responses. *Child Abuse and Neglect*, 10, 623–631.
- Myers, J. E. B. (2005). *Myers on evidence in child, domestic, and elder abuse cases*. New York: Aspen.
- Nathanson, R., & Saywitz, K. J. (2003). The effects of the courtroom context on children's memory and anxiety. *The Journal of Psychiatry and Law*, 31, 67–98.
- Nelson, K. (1986). *Event knowledge: Structure and function in development*. Hillsdale, NJ: Lawrence Erlbaum.
- Paz-Alonso, K., Ogle, C. M., & Goodman, G. S. (2009). Children's memory and testimony in "scientific case studies" of child sexual abuse: A review. In B. Cooper, M. Ternes, & D. Griesel (Eds.), *Issues in investigative interviewing, eyewitness memory, and credibility assessment: Festschrift for John Yuille*. New York: Springer.
- Perry, N., McAuliff, B., Tan, P., & Claycomb, C. (1995). When lawyers serve children: Is justice served? *Law and Human Behavior*, 19, 609–629.
- Peters, D. P. (1991). The influence of stress and arousal on the child witness. In J. Doris (Ed.), *The suggestibility of children's recollections* (pp. 60–76). Washington, DC: American Psychological Association.
- Peters, W. W., & Nunez, N. (1998, March). *Lawyerese and comprehension monitoring: Teaching child witnesses to recognize linguistic confusion*. Paper presented at the American Psychology-Law Society Meeting, Redondo Beach, CA.
- Peterson, C., Dowden, C., & Tobin, J. (1999). Interviewing preschoolers: Comparisons of yes/no and wh- questions. *Law and Human Behavior*, 23, 539–555.
- Poole, D. A., & Lindsay, D. S. (2001). Children's eyewitness reports after exposure to misinformation from parents. *Journal of Experimental Psychology: Applied*, 7, 27–50.
- Quas, J. A., Malloy, L. C., Melinder, A., Goodman, G. S., D'Mello, M., & Schaaf, J. (2007). Developmental differences in the effects of repeated interviews and interviewer bias on young children's event memory and false reports. *Developmental Psychology*, 43(4), 823–837.
- Roberts, K. P., Lamb, M. E., & Sternberg, K. J. (2004). The effects of rapport-building style on children's reports of a staged event. *Applied Cognitive Psychology*, 18, 189–202.
- Robinson, E. J., & Whitcombe, E. C. (2003). Children's suggestibility in relation to their understanding about sources of knowledge. *Child Development*, 74, 48–62.
- Sas, L. D., & Cunningham, A. H. (1995). *Tipping the balance to tell the secret: The public discovery of child sexual abuse*. London, Ontario, Canada: London Family Court Clinic.
- Sauzier, M. (1989). Disclosure of child sexual abuse: For better or for worse. *Psychiatric Clinics of North America*, 12, 455–469.
- Saywitz, K. J., & Camparo, L. (1998). Interviewing child witnesses: A developmental perspective. *Child Abuse and Neglect*, 22, 825–843.
- Saywitz, K. J., Geiselman, R. E., & Bornstein, G. K. (1992). Effects of cognitive interviewing and practice on children's recall performance. *Journal of Applied Psychology*, 77, 744–756.
- Saywitz, K. J., Goodman, G. S., Nicholas, E., & Moan, S. (1991). Children's memories of a physical examination involving genital touch: Implications for reports of child sexual abuse. *Journal of Consulting and Clinical Psychology*, 59, 682–691.

- Saywitz, K. J., Jaenicke, C., & Camparo, L. (1990). Children's knowledge of legal terminology. *Law and Human Behavior, 14*(6), 523–535.
- Saywitz, K. J., & Moan-Hardie, S. (1994). Reducing the potential for distortion of childhood memories. *Consciousness and Cognition, 3*, 257–293.
- Saywitz, K. J., & Nathanson, R. (1993). Children's testimony and their perceptions of stress in and out of the courtroom. *Child Abuse and Neglect, 17*, 613–622.
- Saywitz, K. J., & Snyder, L. (1996). Narrative elaboration: Test of a new procedure for interviewing children. *Journal of Consulting and Clinical Psychology, 64*, 1347–1357.
- Saywitz, K. J., Snyder, L., & Lamphear, V. (1996). Helping children tell what happened: Follow up study of the narrative elaboration procedure. *Child Maltreatment, 1*, 200–212.
- Saywitz, K. J., Snyder, L., & Nathanson, R. (1999). Facilitating the communicative competence of the child witness. *Applied Developmental Science, 3*, 58–68.
- Smith, B. E., & Elstein, S. G. (1993). *The prosecution of child sexual and physical abuse cases: Final report*. Washington, DC: National Center on Child Abuse and Neglect.
- Stein, N., & Glenn, C. (1978). *The role of temporal organization in story comprehension* (Tech. Rep. No. 71). Urbana: University of Illinois, Center for Study of Reading.
- Sternberg, K. J., Lamb, M. E., Esplin, P. W., Orbach, Y., & Hershkowitz, I. (2002). Using a structured protocol to improve the quality of investigative interviews. In M. L. Eisen, J. A. Quas, & G. S. Goodman (Eds.), *Memory and suggestibility in the forensic interview* (pp. 409–436). Mahwah, NJ: Lawrence Erlbaum.
- Sternberg, K. J., Lamb, M. E., Hershkowitz, I., Yudilevitch, L., Orbach, Y., Esplin, P. W., et al. (1997). Effects of introductory style on children's abilities to describe experiences of sexual abuse. *Child Abuse and Neglect, 21*, 1133–1146.
- Sternberg, K. J., Lamb, M. E., Orbach, Y., Esplin, P. W., & Mitchell, S. (2001). Use of a structured investigative protocol enhances young children's responses to free-recall prompts in the course of forensic interviews. *Journal of Applied Psychology, 86*, 997–1005.
- Steward, M. S., Steward, D. S., Farquhar, L., Myers, J. E. B., Reinhart, M., Welker, J., et al. (1996). Interviewing young children about body touch and handling. *Monographs of the Society for Research in Child Development, 61*, 4–5 (Serial No. 248).
- Talwar, V., Lee, K., Bala, N., & Lindsay, R. C. L. (2002). Children's conceptual knowledge of lying and its relation to their actual behaviors: Implications for court competence examinations. *Law and Human Behavior, 26*, 395–415.
- Talwar, V., Lee, K., Bala, N., & Lindsay, R. C. L. (2004). Children's lie-telling to conceal a parent's transgression: Legal implications. *Law and Human Behavior, 28*, 411–435.
- Thierry, K. L., Lamb, M. E., Orbach, Y., & Pipe, M.-E. (2005). Developmental differences in the function and use of anatomical dolls during interviews with alleged sexual abuse victims. *Journal of Consulting and Clinical Psychology, 73*, 1134–1135.
- Toglia, M. P., Ross, D. F., Ceci, S. J., & Hembrooke, H. (1992). The suggestibility of memory: A social-psychological and cognitive interpretation. In M. L. Howe, C. J. Brainerd, & V. F. Reyna (Eds.), *Development of long term retention* (pp. 217–241). New York: Springer.

- Tun, P., & Wingfield, A. (1993). Is speech special? Perception and recall of spoken language in complex environments. In J. Cerella, J. Rybash, W. Hayer, & M. Commons (Eds.), *Adult information processing: Limits on loss* (pp. 425–457). San Diego, CA: Academic Press, Inc.
- Vieth, V. (2006). Finding words in court: The forensic interviewer as expert witness. *Reasonable Efforts*, 3(2), 1–2. Available at: <http://www.ncptc.org/vertical/Sites/%7B8634A6E1-FAD2-4381-9C0D-5DC7E93C9410%7D/uploads/%7BA0A23136-2DCD-4D02-8A2D-DDDDDF6906FB1%7D.PDF>
- Walker, A. G. (1999). *Handbook on questioning children: A linguistic perspective* (2nd ed.). Washington, DC: ABA Center on Children and the Law.
- Walker, N. E., Lunning, S., & Eilts, J. L. (1996, June). *Do children respond accurately to forced choice questions? Yes or no*. Paper presented at the Recollections of Trauma: Scientific Research and Clinical Practice Conference, Port de Bourgenay, France.
- Warren, A., Hulse-Trotter, K., & Tubbs, E. (1991). Inducing resistance to suggestibility in children. *Law and Human Behavior*, 15, 273–285.
- Waterman, A. H., Blades, M., & Spencer, C. P. (2001). Interviewing children and adults: The effect of question format on the tendency to speculate. *Applied Cognitive Psychology*, 15, 1–11.
- Welch-Ross, M. (2000). A mental-state reasoning model of suggestibility and memory source monitoring. In K. P. Roberts & M. Blades (Eds.), *Children's source monitoring* (pp. 227–255). Mahwah, NJ: Lawrence Erlbaum.
- Whipple, G. M. (1915). *Manual of mental and physical tests: Part 2. Complex processes* (2nd ed.). Baltimore: Warwick & York.
- White, T. L., Leichtman, M. D., & Ceci, S. J. (1997). The good, the bad, and the ugly: Accuracy, inaccuracy, and elaboration in preschoolers' reports about a past event. *Applied Cognitive Psychology*, 11, 37–54.
- Wynn, K. (1990). Children's understanding of counting. *Cognition*, 36, 155–193.
- Wynn, K. (1992). Children's acquisition of the number words and the counting system. *Cognitive Psychology*, 24, 220–251.