Discussion

Psychology and interviewing: what direction now in our quest for reliable information?

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Abstract

Purpose – The purpose of this paper is to discuss two distinct but interrelated areas, namely witness/victim and suspect interviewing, and to argue that both must continue to evolve, suggest how they might do so, and that this process must be driven by emergent theory and contemporary empirical research.

Design/methodology/approach – The paper outlines the impact of psychological theory and empirical research to investigative interviewing in recent decades.

Findings – It is argued that in order to stay ahead of the game, the field of investigative interviewing (suspect and witness) must continue to evolve in such a manner that not only protects and fosters the important practitioner/academic relationship, but also ensures that future directions are driven by empirical research, with recourse to emergent theory.

Originality/value – The paper outlines the impact of psychological theory and empirical research on investigative interviewing and the consequent enhancement of the interviewing of both suspected offenders and witnesses. The paper demonstrates that working closely together academic research can make a difference, and influence law, policy decisions and training guidelines in order to improve practice.

Keywords Psychology, Interviews, United Kingdom, Police, Information strategy

Paper type General review

Introduction

It is generally accepted that information is the lifeblood of any criminal investigation (Milne and Bull, 1999). In many countries, one of the most common methods of eliciting information is by way of an investigative interview, during which individuals are provided with an opportunity to explain the nature of their involvement in an event, be they witnesses, victims, and/or suspects. It is internationally acknowledged that an interview, whether witness or suspect is a complex verbal and social interaction, during which an investigator is duty bound to systematically “search for the truth”. In England and Wales, this is carried out using a model of interviewing known as the planning and preparation, engage and explain, account, closure, evaluation (PEACE) model, which is a mnemonic acronym for the recommended phases of the interview process. This model provides a planned, ethical and fair means of interviewing, and encourages interviewers to remain open-minded at all times, whilst actively engaging with interviewees to obtain accurate and reliable information. On completion, interviewers are encouraged (indeed, it is expected) to identify further
opportunities that may further the investigation and they should also review their interviewing skills as part of their ongoing professional development.

This world leading approach owes much to both the psychological literature, and those who have pioneered its application. Together, they have guided the well-documented shift of *modus operandi* in the field of investigative interviewing over the past 25 years. However, despite the fact that the UK is viewed as signaling the way, in terms of the application of psychological research and theory to this aspect of the investigatory process, it is our contention that in order to continue to stay “ahead of the game”, even more needs to be done. Here, we briefly discuss two distinct but interrelated areas, namely witness/victim and suspect interviewing. We argue that both must continue to evolve, suggest how they might do so, and that this process must be driven by emergent theory and contemporary empirical research.

Acknowledging past achievements is not sufficient. Rather, enhancing the efficacy of an interview should be a continual quest, and that practitioners and psychologists must maintain and foster professional relationships in a supportive, but nonetheless critically enquiring environment in order to assist the process of bringing offenders to justice, and protecting the innocent.

**Interviewing witnesses and victims**

Since the introduction of the PEACE model of interviewing in the early 1990s, the UK's investigative interview model (specifically England and Wales) has advocated the use of the cognitive interview (CI) procedure (Fisher and Geiselman, 1992) for retrieving information from co-operative interviewees (heron referred to as witnesses). Without doubt, the CI is one of the utmost researched and generally accepted methods of enhancing witness memorial performance. Described as “an innovative interviewing technique based on extant psychological theory and research examining the retrieval of information from memory” (Milne and Bull, 1999, p. 184), the CI has been fundamental in changing the manner in which witness information is elicited by police investigators, and continues to direct both the practitioner and academic literature in this domain.

Originally presented in the mid-1980s (Geiselman *et al.*, 1984), the CI has continued to evolve over subsequent years culminating in the enhanced CI (ECI), which is the current procedure. This process is well-documented, having been reported in a series of empirical research papers, and books (Fisher and Geiselman, 1992) and commented on extensively elsewhere (Milne and Bull, 1999), hence this will not be discussed further here. Instead, we concern ourselves with considering how the CI and ECI, with recourse to contemporary memory theory and some of the most recent empirical research, might further evolve to contend with the increasing demands of the UK criminal justice system (CJS). We ask how the CI can move forward into the twenty-first century in such a manner so as to maintain its position as a world leading applied investigative interview procedure? In seeking to answer this question, albeit only in part, we briefly consider two of the mnemonic components, namely change temporal order (CTO) and mental reinstatement of context (MRC).

The CI was devised as a practical forensic tool, but in the 25 years since its initial development, and the 18 years following its implementation as part of the PEACE model, it is the case that both researchers and practitioners have consistently raised a number of concerns. These have culminated in a body of empirical literature suggesting a need to modify the technique (Kebbell and Wagstaff, 1996; Milne and Bull, 1999; Davis *et al.*, 2005). Arguably, one of the most worrying aspects of the emergent literature, and one which has been fundamental in driving the recent paradigmatic shift toward investigating the efficacy of various modifications of the CI, is its practical application. By this we mean, how the procedure is perceived and ultimately administered by those in the UK whose task it is to interview witnesses.

The CI is a homogenous procedure, comprising a number of individual components, each of which are included to maximize opportunities for the accurate retrieval of witnessed episodes. However, there is much to indicate that police officers’ application of the CI is patchy. That is, the procedure is often not implemented at all, and/or some of the constituent
components are not regularly applied, and/or the componential instructions given by the interviewer are sometimes unclear/incomplete (Clarke and Milne, 2001; Dando et al., 2009b; Clifford and George, 1996; George, 1991; Longford, 1996). Furthermore, officers perceive the CI to be time consuming and cumbersome, and often report finding some of the individual components difficult to administer (Dando et al., 2008; Kebbell et al., 1999; Wright and Holliday, 2005).

This is concerning, and it has previously been argued that consideration should be given to modifying some of the CI components in terms of adding to the CI “tool box” to account for the aforementioned findings, and also the increasing demands being placed on the police service in terms of increased workload and time constraints (Davis et al., 2005; Dando et al., 2009a, b).

Additionally, it is our contention that witness interviewing per se is likely to be afforded far more attention in the future, as has occurred with suspect interview practices and procedures in the 1980/1990s. Should this be the case, the CJS may be leaving itself open to criticism in terms of the accuracy and ultimately the admissibility of eyewitness information elicited in a manner that falls foul of the current model, or which may be counter to contemporary psychological theory and empirical research pertaining to the retrieval of episodic information from long-term memory.

Change temporal order (CTO)

Not only does CTO appear to be one of the lesser used CI components, but when it is implemented, research has suggested that the componential instructions are often poorly executed, with both occurrences having the potential to mitigate and/or interfere with memorial performance (Clarke and Milne, 1999; Dando et al., 2009c, 2010; Kebbell et al., 1999; Memon et al., 1994). When undertaking a CTO retrieval, witnesses are usually instructed to attempt retrieval in a backwards order (Fisher and Geiselman, 1992). Included as a method of disrupting script-based retrieval, proponents suggest that:

- it mitigates the negative impact that schematic/script-based organisation of memory can have by preventing the retrieval of events based on their typical temporal sequence (Schank and Abelson, 1977); and

- that it facilitates previously inaccessible memories by encouraging witnesses to use an unusual mode of retrieval, which may increase the probability of additional item recall (Bower, 1967).

Crime-related scripts have been shown to be a significant source of gap-filling errors of commission (including information that has not been experienced) and omission (failing to report experienced events that appear not to “fit” a typical crime event) in eyewitness performance (Greenberg et al., 1998; Holst and Pezdek, 1992; Tuckley and Brewer, 2003), and the role of scripts in understanding and organising material in memory has received empirical support (Mandler, 1984; Pezdeck et al., 1989). Although CTO has received limited empirical validation, a review of the eyewitness literature reveals a mixed picture. Some researchers have found CTO to be an effective method for eliciting extra information (Boon and Noon, 1994; Whitten and Leonard, 1981), whilst others have found it no more effective than an additional free recall or try harder retrieval attempt (Milne and Bull, 1999; Memon et al., 1996). More recently, CTO has been found to increase erroneous recall, resulting in significant reductions in memorial accuracy/performance, not only for unscripted mock crimes (Dando et al., 2009a, b; Davis et al., 2005), but arguably more importantly, for scripted crime events (Dando and Ormerod, 2009; Dando et al., 2010).

While script-based accounts of memory predict benefits from CTO, two contemporary memory models, namely context maintenance and retrieval (CMR) (Polyn et al., 2008), and population dilution (PD) (Lansdale and Baguley, 2008) appear to imply negative effects. In brief, temporal clustering is central to CMR in that a search through memory is guided by, among other things, an internally maintained temporal context. Disrupting that context by asking witnesses to recall an event in an “unnatural” manner may negatively impact memorial performance (Dando et al., 2010; Dando and Ormerod, 2009). Equally, PD
provides a compelling mathematical model, which suggests that recall performance is a function of the relative proportions of three types of memory trace, namely “C” (correct) “E” (inaccurate) “W” (null: completely false information, or confabulations), where access to inaccurate and confabulated traces increases, the number of correct traces is diluted resulting in performance reductions.

The fact that CTO has been associated with increased confabulations, indicates that witnesses may have been reporting, rather than suppressing, W traces. It may well be that the cognitive demands associated with retrieving information backwards may have impeded participants’ ability to exercise report option over the W traces (Goldsmith et al., 2005). That evidence to support the application of CTO appears not to be forthcoming demands further consideration. Given the increased sophistication of cognitive models of long-term memory, practical methods for enhancing witness recall must surely reflect these advances. Research is now necessary to advance our understanding of the efficacy of CTO, and the nature of its contribution to the CI superiority effect as an additional retrieval strategy and/or as method of limiting script guided recall.

**Mental reinstatement of context (MRC)**

Turning to the MRC technique, unlike CTO, the beneficial effect of mentally recreating both the psychological and environmental context within which a to-be-remembered (TBR) event has received much empirical support in the eyewitness domain (Davis et al., 2005; Emmett et al., 2003; Memon and Bruce, 1995; Milne and Bull, 1999). Indeed, MRC is generally accepted as being one of the most effective of the CI mnemonics. Hence, our primary concerns here are that MRC is time consuming (Fisher and Geiselman, 1992) and, as such, the technique is often not applied. Moreover, when it is, the instructions are often less than complete. In addition, if retrieval cues provided by the interviewer are incompatible with the TBR event, which is likely to be the case in light of the current interview training, which emphasizes the use of generic cues, it has been suggested that these have the potential to impair, rather than facilitate accurate and complete recall (Dando et al., 2009b; Rosenbluth-Mor, 2001). And, in forensic settings where interviewers often conduct repeat interviews, with either the same or different witnesses of one event, it may be that there also exists the potential to inadvertently introduce post-event information during MRC. By this, we mean that interviewers may subsume information gleaned from earlier witnesses, and inadvertently introduce it in subsequent interviews. This is a particular concern in the case of less experienced interviewers, who have only undergone basic training.

In an attempt to enhance the practicability of MRC, while retaining its benefits reducing opportunities for providing incompatible retrieval cues and introducing post event information, a novel sketch MRC has recently been devised and introduced. Sketch MRC places, the onus on each individual witness to provide their own retrieval cues in that they are free to draw what is salient to them (Dando et al., 2009b). Initial findings suggest that it may be a useful addition to the CI tool box in terms of offering another technique for time critical situations, and eliminating interviewer contamination of the MRC process, so lessening the number of situations that might allow the introduction of incompatible retrieval cues and post event information.

Initial empirical research with adults, comparing an interview procedure that incorporated a sketch MRC to one with a traditional MRC and a control, has revealed promising results. The sketch MRC interview procedure was found to:

- significantly reduce interview duration, thereby enhancing its viability as a useful tool for interviewers;
- significantly reduce confabulated (completely false) recall; and
- have had no deleterious effect on other memorial measures (Dando et al., 2009c, 2010).

To date, the programme of research pertaining to the sketch MRC is in its infancy, and it should also be borne in mind that it is not without limitations. Notwithstanding, the picture that emerges shows much promise. Indeed, initial results of further empirical evaluations of the technique, in more ecologically valid circumstances and with other populations (children
and older adults, currently being conducted by the second author), indicate the robustness of these initial findings. We argue that this emerging literature would now benefit greatly from further academic and practitioner validation.

Interviewing suspected offenders

As is the case with witnesses and victims, successful interviews with offenders are fundamental in achieving justice in society (Milne et al., 2009). McGurk et al. (1993) argued that the ultimate objective of a police interview is to obtain accurate and relevant information from suspected offenders. Previous academic research has measured and analysed various aspects of interviews, including:

- question types (Oxburgh et al., 2010a, b);
- effectiveness of the PEACE model of interviewing (Clarke and Mline, 2001); and
- the competency of interviewing officers (Baldwin, 1993; Pearse and Gudjonsson, 1999).

According to this literature, a good “quality” interview from which reliable information is obtained appears to be one in which:

- appropriate questioning techniques are used;
- the interviewers are appropriately trained; and
- interviewing officers use an empathic (humane) interviewing style.

Questioning techniques

Unfortunately, research with both witnesses and suspects has generally shown that poor questioning techniques by interviewers are routine, with interviewers regularly using closed, direct, leading and suggestive questions (sometimes known as inappropriate questions) during interviews. Conversely, the use of open or probing questions (sometimes known as appropriate questions) appears to be used infrequently (Baldwin, 1993; Davies et al., 2000; Lamb et al., 1996a; Myklebust and Bjorklund, 2006; Oxburgh et al., 2010a). Further, when considering the ratio of open to closed questions, many researchers have found that the open-closed ratio (OCR) can be as high as 1:50 (Davies et al., 2000), indicating that for every one open question asked during an interview, interviewers asked 50 closed questions. Others have found the OCR to be much lower (e.g. 1:9, Fisher et al., 1987; 1:9, Myklebust and Bjorklund, 2006, and 1:23, Oxburgh et al., 2010a).

However, in one recent study, which used a qualitative, “think aloud” methodology, Griffiths et al. (submitted) found that the development of questioning techniques used by the UK police officers had been enhanced (New Brunswick (NB) officers in this study had completed advanced suspect or witness interview courses). This study appeared to indicate that officers showed high levels of understanding regarding officers’ recognition of different question types. Interestingly, Griffiths et al. also found that officers favoured the use of probing questions in order to obtain detailed accounts from suspects. However, this was not the case with witnesses, where probing questions were used less appropriately. Another recent UK study, where real-life interviews of child sexual victims were analysed, found similar results. Indeed, Phillips et al. (submitted) found that officers used an equal proportion of appropriate and inappropriate questions during interviews. Whilst this is a welcome improvement from previous studies, Phillips et al. (submitted) found, similar to Griffiths et al. (submitted) that from questions categorised as appropriate, the most frequently asked were probing/identification, with open questions being asked considerably less.

Regardless, there is overwhelming acceptance that using appropriate forms of questions are the most productive, in terms of gathering information and encouraging interviewees to freely recall events (Pipe et al., 2004). However, although there appears to have been some limited improvement recently (Griffiths et al., submitted; Phillips et al., submitted), in general terms, the levels and usage of closed (and other inappropriate) questions are still unacceptably high. The obvious question that arises is why are inappropriate questions continually used?
One explanation put forward is that there is no clear agreement in the research literature and various police training manuals about the definition of some question types, specifically open and closed questions, which may, in turn, cause confusion (Oxburgh et al., 2010a). However, we would suggest that in addition to this, there are three additional factors that could help explain the frequent use of closed questions.

**Control**

Whoever is asking the questions must remain in control of the interview. When faced with something that is viewed as repulsive or something that is not understood, many will attempt to control the situation. Asking mostly closed types of questions puts the interviewer in control and gives the interviewee very little room to explain him or herself. In the case of sex offenders, officers may find the details that are disclosed by the suspected offender as distasteful so, to counteract this, they may try to limit their emotional exposure to them.

**Speed**

An interview that mainly seeks confirmation of known facts by way of closed questions is faster to conduct than other forms of investigative interviewing (e.g. the CI). Conducting a speedy interview reduces physical (and psychological) exposure to a suspected offender, whom an interviewing officer may dislike. Moreover, the demands of contemporary police officers to conduct interviews with speed may well make the interviewing officers more inclined to use closed questions.

**Power**

Rather than showing empathy to the suspected offender, some interviewers may seek some kind of persecution of the offender (e.g. a paedophile). If the questions asked are closed in nature, there is no opportunity for the interviewee to try and rationalise his/her behaviour; plead his/her case; relive the events in a way that excites him/her; or stick to his/her lie script. Arguably, this may reduce his/her standing in the interviewing officers’ eyes and, although subtle, it takes away the suspected offender’s perceived power.

We must also be cognizant of the fact that the nature of the open-ended discourse expected by interviewing officers is somewhat unfamiliar (Wright and Powell, 2006). For example, in everyday interactions, we do not generally converse using open questions, rather we use a "question-and-answer" style of conversation, using closed and other forms of questions as a matter of routine (Wright and Powell, 2006). An interview situation is a complex, interactional process between two or more persons, which can be affected by numerous factors (Dickson and Hargie, 2006), hence the need for extensive classroom and work-based training and assessment for interviewing officers.

**Interview training**

There is no doubt that training for investigative interviewing has been enhanced considerably during the past two decades, especially in England and Wales[1], and is testament to the police service wishing to enhance their ability to improve officers’ interviewing skills. Since the introduction of the PEACE model of interviewing in 1993, there have been many studies, which have critically evaluated police interviewing skills. These have considered the impact of the information gathering approach to investigative interviewing (including training), the various skills that effective interviewers display, and the structure of good quality interviews with suspected offenders (Baldwin, 1993; Bull and Cherryman, 1995; Cherryman, 2000; Clarke and Milne, 2001; McGurk et al., 1993; Milne and Bull, 1999; Stockdale, 1993; Williamson, 1993) and witnesses (Bruck et al., 1995; Ceci and Bruck, 1995; Dent and Stephenson, 1979; Goodman and Aman, 1990; Lamb et al., 1996b, 2002a, b, c; Loftus, 1982; Sternberg et al., 1996).

However, in an evaluation of a three-day training programme for both social workers and police officers in England and Wales, Aldridge and Cameron (1999) found that training had little effect on the questioning style used by officers. In addition, although trainees had attended lectures and practiced the information they had learned, they actually showed
poor rapport building skills and continued to ask many inappropriate questions (e.g. leading and suggestive). This suggests that unlearning old techniques is problematic and that police officers quickly revert to their prior experiences and what they perceive to be tried and trusted interview (and questioning) styles/techniques (Wright and Powell, 2006).

Following Clarke and Milne’s (2001) national evaluation of police interviewing, a tiered structure of interviewing skills was developed in England and Wales. These were categorised as: Tier 1: probationer training (one week); Tier 2: uniformed investigators and detectives (one week); Tier 3: specialist interviewers (victim/witness/suspect) (three weeks); Tier 4: investigative interview manager; and, Tier 5: specialist interview management. In 2007, investigative interview training (and the five tiers) was enhanced and incorporated into the professionalising investigations programme, which is intended to increase professionalism of all investigators, and to establish a structured, professional approach to investigations. It is important to note that although such enhancements in training will doubtless continue, there is a debate regarding the long-term effectiveness of current interviewing training (Griffiths and Milne, 2006; Lamb et al., 2008). Griffiths and Milne (2006, p. 187) found that although training levels were higher one year after officers completed advanced training, there was a “marked decline” in interviewing officer’s performance (in some of the assessed criteria) between their first and last assessed interview Griffiths et al. (submitted). They argue that despite this “marked decline”, advanced training improved the skills of officers (in their sample). However, we argue that any decline in performance or ability is somewhat concerning and requires additional training.

Although empirical research (Powell, 2002) and the PEACE model advises evaluation of interviews by officers and supervisors, this important aspect rarely gets the attention it deserves. While some aspects of training programmes may be effective in terms of teaching interviewers what they ought to do in interviews, the training appears to be having very little impact overall (Powell, 2002). One of the problems appears to be that, currently, there is no widely accepted evaluation/classification system within police organisations, or the academic literature, which provides guidelines on how to effectively analyse information gained from interviews. In line with recommendations by Powell (2002), we argue that this void must be addressed and that future research must include the long-term acquisition of interviewing skills and should incorporate the experience of both practitioners and academics to enhance the research. We must also promote and encourage:

- a structured way of recruiting interviewers;
- timing and frequency of refresher training;
- training for supervisors to enable effective feedback/supervision of interviews; and
- the revision of best practice guidelines.

**Empathic interviewing style**

There is very little empirical research that has looked at the use of empathy in interviews with suspected offenders. Some police training guidelines and protocols make scarce reference to its use and/or effectiveness. For example, in the UK’s guidance document on achieving best evidence (ABE) in criminal proceedings (Home Office, 2007, p. 16), empathy is referred to only once, advising interviewers to, “[. . .] demonstrate a willingness to try to understand the situation from the interviewee’s perspective”. However, recent research suggests that where officers showed high levels of empathy, more confessions were obtained (Holmberg and Christianson, 2002; Holmberg and Christianson, 2002; Kebbell et al., 2006).

Holmberg and Christianson (2002) investigated 83 convicted offenders’ (40 sexual offenders and 43 murderers) perceptions of their police interviews. Two factors emerged from their analysis – dominance and humanity. The dominant approach (used mostly in interviews with sex offenders) was characterized by aggressiveness and hostility, whereas the humane approach (used mostly in interviews with murderers) was characterized by officers being more friendly and co-operative. Holmberg and Christianson (2002) also found more admissions of guilt in interviews, which used the humane approach (e.g. murderers). In another study, Kebbell et al. (2006) also found that suspected offenders suspected
offenders reported that they would have been more likely to confess had the police treated them with humanity and showed empathy towards them.

Both these studies have relied on offenders’ self-reports of what they may have done had they been interviewed in a more empathic manner. Both studies also relate to interviews that are confession-based, however, in England and Wales (and other parts of the world), interviews are (primarily) a search-for-the-truth and non-coercive. As such, they rely on officers obtaining good quality information that is relevant to the investigation, regardless of whether the information obtained exonerates the suspected offender. When we turn to research that focuses upon investigation relevant information (IRI) obtained from interviews as opposed to confessions, the findings are somewhat different. Using a model for measuring empathic responses in police interviews, Oxburgh et al. (2010a) explored the impact of empathy on the amount of IRI obtained during interviews with sex offenders.

In their study, Oxburgh et al. (2010a) counted empathic opportunities, continuers and terminators presented in the interviews. An empathic opportunity was defined as, “a statement or description from which a police officer might infer an underlying emotion that has not been fully expressed by the suspect” (Oxburgh et al., 2010a, p. 12). Empathy was deemed to be present if the interviewing officer continued an empathic opportunity provided by the suspected offender. The number of opportunities, continuers, and terminators were counted in each interview (Oxburgh et al., 2010a). They found no significant difference in the amount of IRI reported in interviews where continuers were used compared to those in which they were not. That said, there is, quite obviously, more to an empathic interviewing style than just the number of opportunities available or continuers that are counted in an interview. Oxburgh et al. (2010a) also only analysed interviews for empathic opportunities overtly presented by the suspected offender, whereas in some interviews, officers (although not in their sample) may also use an empathic style of interviewing without any prompting from the offender (e.g. ad hoc empathy). Although these findings are interesting they require further research.

Conclusion

This paper has attempted to outline the impact of psychological theory and empirical research to investigative interviewing in recent decades. The interviewing of both suspected offenders and witnesses has been greatly enhanced, worldwide, as a consequence. We hope that we have shown that by working closely together academic research can make a difference, and influence law, policy decisions and training guidelines in order to improve practice. However, there is no room to relax and we must always “stay ahead of the game”, to ensure that this specialist area evolves in such a manner that not only continues the important practitioner/academic relationship, but which ensures that all future directions are driven by empirical research, with recourse to emergent theory.

**Implications for practice**

Investigative interviewing:
- The investigative interviewing domain must continue to evolve in such a manner that protects and fosters the important practitioner/academic relationship, to ensure that practitioners are well informed and involved in academic research.
- Contemporary empirical research and emergent psychological theory suggest that interviewers should exercise caution when applying the change temporal order component of the cognitive interview, with adult witnesses.
- Employing a sketch reinstatement of context technique has been found to be an effective method of assisting adult mock witnesses to provide best evidence.
- Researchers and practitioners should always ensure that before any potential changes are made to policy and practice, they are underpinned by a robust evidence-base.

**Note**

1. Although training in other parts of the UK and across the world has also doubtless improved the present paper only focuses upon police interviewing in England and Wales.
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