

## The Qualitative Report

Volume 13 Number 4

**Book Review 14** 

1-19-2009

## Interviewing the Investigator: Strategies for Addressing Instrumentation and Researcher Bias Concerns in Qualitative Research

Ronald J. Chenail
Nova Southeastern University, ron@nova.edu

Follow this and additional works at: http://nsuworks.nova.edu/tqr

Part of the Quantitative, Qualitative, Comparative, and Historical Methodologies Commons, and the Social Statistics Commons

## Recommended APA Citation

Chenail, R. J. (2009). Interviewing the Investigator: Strategies for Addressing Instrumentation and Researcher Bias Concerns in Qualitative Research. *The Qualitative Report*, 13(4), 14-21. Retrieved from http://nsuworks.nova.edu/tqr/vol13/iss4/14

This Book Review is brought to you for free and open access by the The Qualitative Report at NSUWorks. It has been accepted for inclusion in The Qualitative Report by an authorized administrator of NSUWorks. For more information, please contact nsuworks@nova.edu.



Interviewing the Investigator: Strategies for Addressing Instrumentation and Researcher Bias Concerns in Qualitative Research

## **Abstract**

Instrumentation rigor and bias management are major challenges for qualitative researchers employing interviewing as a data generation method in their studies. A usual procedure for testing the quality of an interview protocol and for identifying potential researcher biases is the pilot study in which investigators try out their proposed methods to see if the planned procedures perform as envisioned by the researcher. Sometimes piloting is not practical or possible so an "interviewing the investigator" technique can serve as a useful first step to create interview protocols that help to generate the information proposed and to assess potential researcher biases especially if the investigator has a strong affinity for the participants being studied or is a member of the population itself

#### Keywords

Interviewing, Instrumentation, Researcher Bias, Qualitative Research

#### **Creative Commons License**



This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 4.0 License.

# Interviewing the Investigator: Strategies for Addressing Instrumentation and Researcher Bias Concerns in Qualitative Research

## Ronald J. Chenail

Nova Southeastern University, Fort Lauderdale, Florida USA

Instrumentation rigor and bias management are major challenges for qualitative researchers employing interviewing as a data generation method in their studies. A usual procedure for testing the quality of an interview protocol and for identifying potential researcher biases is the pilot study in which investigators try out their proposed methods to see if the planned procedures perform as envisioned by the researcher. Sometimes piloting is not practical or possible so an "interviewing the investigator" technique can serve as a useful first step to create interview protocols that help to generate the information proposed and to assess potential researcher biases especially if the investigator has a strong affinity for the participants being studied or is a member of the population itself. Key Words: Interviewing, Instrumentation, Researcher Bias, and Oualitative Research

Interviewing, along with field observations and document analysis, is one of the major ways qualitative researchers generate and collect data for their research studies (Gubrium & Holstein, 2003; Kvale & Brinkmann, 2008; Rubin & Rubin, 2006; Seidman, 2006). Many of these researchers in the spirit of conducting naturalistic or discovery-oriented inquiries usually create study-specific questions for their interviews instead of utilizing pre-established questionnaires or survey instruments (Gubrium & Holstein). In such a manner investigators become the instruments through which data for their studies are collected or generated (Poggenpoel & Myburgh, 2003).

Central to conducting research and more specifically qualitative research is the researcher as research instrument (Denzin & Lincoln, 2000: 368; Marshall & Rossman, 1995: 59-65). The researcher is the key person in obtaining data from respondents. It is through the researcher's facilitative interaction that a context is created where respondents share rich data regarding their experiences and life world. It is the researcher that facilitates the flow of communication, who identifies cues and it is the researcher that sets respondents at ease. This also contributes to a therapeutic effect for the respondents because they are listened to. (Poggenpoel & Myburgh, 2003, p. 418)

When performing as a discovery-oriented research instrument, qualitative researchers tend to construct study-specific sets of questions that are open-ended in nature so the investigators provide openings through which interviewees can contribute their insiders' perspectives with little or no limitations imposed by more closed-ended questions. The investigator would more likely use the more closed-ended style of

questions in a confirmatory type of study. In this mode of inquiry the investigators are attempting to confirm or test a hypothesis so it is important for the researchers to ask questions that allow them to confirm or disconfirm a particular notion. These closed-ended variety of queries typically start with verbs (e.g., Are you satisfied with the treatment provided by your doctor at your last office visit?) and tend to elicit narrowly defined answers or choices of responses (e.g., Yes, I was satisfied; or Check either: Yes, No, or Not Sure).

In contrast investigators, who wish to discovery what is known about a particular phenomenon or situation from the insiders' perspectives, tend to structure their interviews with open-ended questions which tend to start with words like who, what, where, when, why, and how (e.g., What was your experience of the treatment you received during your last office visit to see your doctor?) and suggest the respondent respond in a more expansive manner (e.g., I was really confused by what did and did not happen when I went to see my doctor for my yearly physical.). From the initial open-ended style of questions, curiosity-driven qualitative researchers then tend to employ follow up questions based upon the responses offered by the interviewee and designed to discover more details about the respondents' particular experience (e.g., What made this last visit so confusing?) (Kvale & Brinkmann, 2008; Rubin & Rubin, 2006; Seidman, 2006).

Developing the skills to conduct this style of interview takes considerable practice:

Instrumentation is as critical in qualitative as in quantitative research. It takes training and practice to write open-ended questions, the hallmark of a qualitative interview, and then to keep from transforming them into closed-ended questions, especially with a resistant subject, when actually conducting the interview. (Sofaer, 2002, p. 334)

Despite its popularity, qualitative interviewing presents some challenges for researchers in terms of instrumentation rigor and bias management:

The researcher as instrument can be the greatest threat to trustworthiness in qualitative research if time is not spend on preparation of the field, reflexivity of the researcher, the researcher staying humble and preferring to work in teams so that triangulation and peer evaluation can take place. (Poggenpoel & Myburgh, 2003, p. 320)

These challenges may not only jeopardize the quality of a study, they may also prevent a study from ever being conducted if the protocol containing an open-ended interview format cannot secure approval from an Institutional Review Board for the Protection of Human Subjects (IRB; Lincoln, 2005) due to questions of the approach's ability to produce the results as suggested in the proposal. In other words, an IRB may question the integrity of the instrumentation if it has never been tested. If the instrument lacks rigor in the eyes of an IRB, they may not approve the protocol because the perceived weakness in the instrument can reduce their confidence that the investigator can conduct the study claimed in the protocol. In such a case the IRB can make the

determination that this deficit in the method reduces the benefits of the proposed study and thus may produce an unfavorable benefits-risk ratio to the participants.

The role the researcher serves in this instrumentation also raises concerns regarding bias (e.g., Mehra, 2002). Poggenpoel and Myburgh (2003) suggest the potential reasons for this bias can include (a) the researcher's mental and other discomfort could pose a threat to the truth value of data obtained and information obtained from data analyses; (b) the researcher not being sufficiently prepared to conduct the field research; and (c) the researcher conducting inappropriate interviews (pp. 419-420). In addition to these reasons, the degree of affinity researchers have with the population under study including researchers being a member of the group themselves can introduce a question of bias in the study (Mehra, 2002). Given this affinity these "insider" investigators may limit their curiosities so they only discover what they think they don't know, rather than opening up their inquiries to encompass also what they don't know they don't know.

## **Pilot Studies**

A usual procedure for testing the quality of an interview protocol and for identifying potential researcher biases is the pilot study in which investigators try out their proposed methods to see if the planned procedures perform as envisioned by the researcher.

The term *pilot study* is used in two different ways in social science research. It can refer to so-called feasibility studies which are "small scale version[s], or trial run[s], done in preparation for the major study" (Polit et al., 2001: 467). However, a pilot study can also be the pre-testing or 'trying out' of a particular research instrument (Baker 1994: 182-3). One of the advantages of conducting a pilot study is that it might give advance warning about where the main research project could fail, where research protocols may not be followed, or whether proposed methods or instruments are inappropriate or too complicated. (van Teijlingen & Hundley, 2001, ¶1)

In pilot studies investigators give their research method a "test run" by piloting their means for collecting and analyzing data on a small sample of participants with the same or similar inclusion criteria as would be the case in the main study. In this "dress rehearsal" researchers run through their study in an abbreviated form and make adjustments based upon the performance of the method. Data collected and analyzed during pilot studies are typically not included in the body of data generated in the main part of the study.

A well-conducted pilot study can help investigators begin to address instrumentation and bias issues because they allow the researcher the opportunity to

- 1. Administer the questions in the same way as in the main study
- 2. Ask the subjects for feedback to identify ambiguities and difficult questions
- 3. Record the time taken to complete the interview, decide whether it is reasonable, and better record participants' time commitments in the IRB protocol
- 4. Discard all unnecessary, difficult or ambiguous questions

- 5. Assess whether each question gives an adequate range of responses
- 6. Establish that replies can be interpreted in terms of the information that is required
- 7. Check that all questions are answered
- 8. Re-word or re-scale any questions that are not answered as expected
- 9. Shorten, revise and, if possible, pilot again. (van Teijlingen & Hundley, 2001, ¶6)

Sometimes piloting is not practical because researchers do not want to lose limited research participants and their valuable information to a pilot study database not used in the study proper or the researcher does not want to take up participants' valuable time with under-developed questions. Another problem with conducting a pilot study is IRB approval must still be secured if the piloting exercise will include human subjects. This situation will raise the instrumentation questions and risk-benefit issues as can occur with review process of the full study itself.

To remedy these problems, investigators can turn to a pre-pilot study inquiry known as interviewing the investigator. In these cases this "interviewing the interviewer" technique can serve as a useful first step for investigators to create and revise interview protocols that can help address these IRB concerns, to generate the information proposed, and to assess potential researcher biases especially if the researcher has a strong affinity for the participants being studied or is a member of the population itself (e.g., nurses studying nurses).

## **Interviewing the Investigator**

In the interviewing the investigator approach the researcher assumes the role of a study participant and enlists a colleague to conduct the interview or the investigator can play both the role of the interviewer and interviewee. In both styles the interview is recorded and the researcher reviews the contents to see what information was generated via the questions. If the research is being conducted as part of a thesis or dissertation, the investigators' supervisor or chair can also participate as the interviewer or as an observer on the overall interviewing process. This oversight function can take place synchonistically as the interview is taking place or asynchronistically by reviewing a recording made of the interview.

To start the interview of the investigator process, the interviewer would develop the series of open-ended questions that are planned to be used in the study. These should be written out and prepared in a form that will be used in the eventual interviews. For example, they may be word-processed and printed out on a piece of paper. If there are follow-up questions, these should also be noted.

A space for conducting the interview should be selected that would resemble ones to be used in the study interviews and the equipment to be used in the eventual study should also be utilized. This step provides an added bonus of trying out the recording equipment to identify any technical problems that can arise.

Before the interview ensues, the interviewer as interviewee should review the consent form and note any unclear or confusing passages and then sign the form before beginning the recording. Unlike a pilot study using "real" human subjects, the interviewer

can record this securing of consent interaction and note changes that can be made to improve the process too.

Once consent has been secured, the interview can begin. When the process involves just interviewers interviewing themselves, they can first read the question and then answer the question. In the case of the two-party variation with another person serving as the interviewer, the process would unfold in a similar manner of asking questions and providing responses. The investigator can decide to run through the complete interview with or without interruptions or "time outs" to discuss or reflect on the proceedings. If inter-session breaks are used it is important to have a stop watch or some other such timing device so the time spent conducting the actual interview is noted. The interviewer can also use a second recorder to record these in-session discussions while stopping the original recorder so as to preserve a separation between the interview and the talk about the interview.

Once the interviewing the investigator is completed, the participants can decide to try the process again and again until the results are satisfactory. Before these subsequent interviews are conducted the previous interview should be reviewed and critiqued. This process can be accomplished in a number of ways. The parties can play back the recording and cross-walk the questions as written out before the interview with the ones used and not used in the enacted interview. Notes can be made on what seemed to work and not work well in the interview. In examining the responses produced during the interviewing the investigator's follow-up questions can also be noted and reactions to what was said and not said can be analyzed. Throughout this process moments of surprise, frustrations, and satisfactions should be articulated and assessed in relation to what was happening and not happening in the interview.

As modifications are suggested or existing questions are confirmed the original list of questions should be edited and annotated. Investigators may wish to use editing tools found in software applications such as Microsoft Word to track changes being made and to insert comments to generate an audit trail in the question development and refinement process.

In addition to these techniques researchers can also use methods such as journaling (Meloy, 1994) or interpersonal-process recall (IPR; Kagan, 1980) to examine thoughts and impressions that surfaced during the interview which might bias the collection and analysis of the "real" interviews of the study. In the journaling approach, researchers would record their thoughts before and after the interview. This could be done with a notebook or with a recorder. The process of writing/recording and reading/listening can help researchers identify heretofore unclear or unrecognized thoughts, feelings, and impressions which might have led to bias in the study if unchecked.

With the IPR approach the interviewer and/or the interviewee listen to the interview again and stop the recording whenever a new question, impression, or observation arises. When such an occurrence happens, the recorded playing the original interview is stopped and a second recorder is started. The investigator makes a note of the place in the original tape that helped to initiate this observation and records the reactions that have arisen. In such a way the researcher can recall interpersonal and intrapersonal reactions from the process just encountered. This in-depth process can help to not only refine and improve the instrument, but can also help the researcher to identify potentially

biases as well as better identify with the cognitive and affective perspective of the research participant. This affinity can aid the researcher in developing empathy for the participants in the study and possibly identify some vulnerability or ethical concerns in asking certain questions.

Once this cycle of interviewing the investigator process reaches a point of saturation (i.e., no new questions are being generated, no new modifications can be suggested, or no new potential biases can be identified; Guest, Bunce, & Johnson, (2006), the researchers can review the Instrument section of their IRB protocol and/or the data collection/generation section of the research proposal and make any adjustments based upon this quality control process. In editing these sections the researcher should clearly describe the interviewing the investigator process including how the determination of the integrity of the current interview format and question systems was decided. In the protocol/proposal the researcher can then chose to describe how a pilot study will also be used or how the study will move directly into the main stage of data collection.

The data generated via the interviewing of the interviewer can also be analyzed just as the data from the participant interviews. This analysis can help researchers identify their pre-study thoughts and assumptions regarding what a participant might say in response to the questions being asked. The process of analyzing these responses can help researchers in their bracketing efforts (Seale, 1999) to manage subjectivity and the results can also be juxtaposed with the findings from the subsequent pilot and/or main study so researchers can note what results from the analysis of the participants' reviews surprised them. Such a finding is always a good sign that the researchers were prepared to discover that which they did not anticipate rather than only discovering that which they could anticipate discovering.

## **Discussion**

In addition to the ways in which a pilot study can help the researcher improve the data collection method, the interviewing the interviewer approach can also help the investigator to

- 1. Identify personal feelings arising during the questioning
- 2. Develop greater appreciation for the challenge of sharing all one knows about a topic
- 3. Make overt perspectives that might bias the researcher in the study
- 4. Learn the value of patience in the interviewing process
- 5. Gain an appreciation of feelings of being and not being heard
- 6. Appreciate the vulnerability of the participant
- 7. Identify a priori assumptions about the participants

Despite these advantages, the interviewing the interviewer also has its limitations. Researchers may remain blind to their biases, may be unable to anticipate problems with the study's instrumentation, and may have unforeseen difficulties in utilizing the questions effectively. Of course these troubles can arise in studies that have used pilot studies too so the conjoint use of a pre-piloting technique like the interviewing the investigator approach with a pilot study may be recommended. In addition investigators

can use a system of peer debriefing (Seale, 1999) in concert with either approach to bring in different set of eyes and ears to help in the instrumentation improvement process.

The advantages in using the interviewing the investigator remain in that rigorous testing of the instrument, both human and questions, can be accomplished without needing to secure IRB permission or without having to remove valued participants from a limited resource due to the restrictions on using data from pilot interviews in the main study. The interviewing the investigator uniquely helps the researcher to assume the position of the research participate and gain a valuable perspective in what it feels like to be interviewed in the study. Such a point-of-view can prove to be invaluable in conducting research that is sensitive to the other in a study and can lead to more ethical and responsible research.

## References

- Guest, G., Bunce, A., & Johnson, L. (2006). How many interviews are enough? An experiment with data saturation and variability. *Field Research*, 18(1), 59-82.
- Gubrium, J. F., & Holstein, J. A. (Eds.). (2003). *Handbook of interview research: Context & method.* Thousand Oaks, CA: Sage.
- Kagan, N. (1980). Influencing human interaction--Eighteen years with IPR. In A. K. Hess (Ed.), *Psychotherapy supervision: Theory, research, and practice* (pp. 262-283). New York: Wiley.
- Kvale, S., & Brinkmann, S. (2008). *InterViews: Learning the craft of qualitative research interviewing* (2<sup>nd</sup> ed.). Thousand Oaks, CA: Sage.
- Lincoln, Y. S. (2005). Institutional review boards and methodological conservatism: The challenge to and from phenomenological paradigms. *The SAGE handbook of qualitative research* (3<sup>rd</sup> ed.; pp. 165-182). Thousand Oaks, CA: Sage.
- Maxwell, J. A. (2005). *Qualitative research design: An interactive approach: Vol. 41. Applied social science research methods series* (2<sup>nd</sup> ed.). Thousand Oaks, CA: Sage.
- Mehra, B. (2002). Bias in qualitative research: Voices from an online classroom. *The Qualitative Report*, 7(1). Retrieved from <a href="http://www.nova.edu/ssss/QR/QR7-1/mehra.html">http://www.nova.edu/ssss/QR/QR7-1/mehra.html</a>
- Meloy, J. M. (1994). Writing the qualitative dissertation: Understanding by doing. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Poggenpoel, M., & Myburgh, S. (2003). The researcher as research instrument in educational research: A possible threat to trustworthiness? *Education*, 124(2), 418-21, 320.
- Rubin, H. J., & Rubin, I. S. (2006). *Qualitative interviewing: The art of hearing data* (2<sup>nd</sup> ed.). Thousand Oaks, CA: Sage.
- Seale, C. (1999). The quality of qualitative research. London: Sage.
- Seidman, I. (2006). *Interviewing as qualitative research: A guide for researchers in education and the social sciences* (3<sup>rd</sup> ed.). New York: Teachers College Press.
- Sofaer, S. (2002). Qualitative research methods. *International Journal for Quality in Health Care*, 14(4), 329-336.

van Teijlingen, E. R., & Hundley, V. (2001). The importance of pilot studies. *Social Research Update*, Issue 35. Retrieved from <a href="http://sru.soc.surrey.ac.uk/SRU35.html">http://sru.soc.surrey.ac.uk/SRU35.html</a>

## **Author Note**

An earlier version of this paper was presented October 10, 2008, as part of a concurrent session entitled, "Issues and New Directions in Data Collection/Analysis" at the 9th Advances in Qualitative Methods Conference, Banff, Alberta, Canada.

Dr. Ronald J. Chenail is the Co-Editor of *The Qualitative Report* and *The Weekly Qualitative Report* at Nova Southeastern University (NSU). He also serves as the Vice President of Institutional Effectiveness and Director of NSU's <u>Graduate Certificate in Qualitative Research</u>. He can be contacted at 3301 College Avenue, Fort Lauderdale, FL 33314-7796 USA; Telephone: 954.262.5389; Fax: 954.262.3970; E-mail: ron@nova.edu.

Copyright 2009: Ronald J. Chenail and Nova Southeastern University

## **Article Citation**

Chenail, R. J. (2009). Interviewing the investigator: Strategies for addressing instrumentation and researcher bias concerns in qualitative research. *The Weekly Qualitative Report*, 2(3), 14-21. Retrieved from http://www.nova.edu/ssss/QR/WQR/interviewing.pdf