Privacy and Confidentiality: Issues in Research
Defining Confidentiality

- The notion of confidentiality is founded on the principle of respect for autonomy.
- Confidentiality is taken to mean that identifiable information about individuals collected during the process of research will not be disclosed without permission.¹
The concept of confidentiality is closely connected with anonymity.

However, anonymization of data does not address all the issues raised by concerns about confidentiality.

Confidentiality also means not disclosing any information gained from an interviewee, deliberately or accidentally, in ways that might identify an individual.
Confidentiality in Research

- In a research context, confidentiality means
  - (1) not discussing information provided by an individual with others, and
  - (2) presenting findings in ways that ensure individuals cannot be identified (chiefly through anonymization).\(^1\)
Privacy

- Protecting research participants’ right to privacy requires respect for their autonomy, their right to self-determination, as well as their general welfare.

- The need for privacy is a function of generally accepted social norms and individual expectations about what information about oneself should—and should not—be known to others.²
Privacy in Public Health

- In public health, there is an unprecedented emphasis on protecting an individual’s private health information (PHI).
- In response to rising attention on this issue, recent legislative trends attempt to restrict or prohibit the exchange of PHI to health care providers and health insurers.
- The HIPAA Privacy Rule was implemented in 2003 and was intended to protect individuals’ ability to obtain health insurance coverage.²
Privacy concerns have also been heightened with the ability to store and disseminate vast electronic datasets.

In response, health researchers, including social and behavioral scientists, have had to modify their practices and submit their research procedures to greater scrutiny.²
Privacy in Qualitative Research

- For qualitative researchers, such as in the use of interviews, maintaining respondent confidentiality while presenting rich, detailed accounts of social life presents unique challenges.
- These challenges are not adequately addressed in the literature on research ethics and research methods.
Breaching Confidentiality in Medicine

- Consequences of breaches in the privacy of medical records (protected health information) are extremely serious.
- Negative effects include inappropriate and unjustified employment termination, loss of individual health insurance, and illegal use of one’s identity in a host of ways, from charges on credit cards to passport fraud.
It is recognized that there may be occasions when researchers feel the need to intentionally and knowingly break confidentiality.

For example, to protect public safety, researchers might be expected to (or be required to) break the confidence of participant if they disclose having committed or being about to commit a crime.¹
Similarly, researchers may feel a moral duty to disclose information if a study participant reports being a victim of crime, or is perceived as being at risk of harm to themselves or others.¹

Legal and regulatory frameworks influence how these issues are dealt with.
Legal Requirements ...

- **Tarasoff v. Regents of the University of California**
  1976 Supreme Court Decision:
  - Mandated that mental health professionals have a duty to protect individuals by notifying authorities if they suspect a patient is a threat of bodily harm to themselves or others.

- Similar mandated reporting laws exist at the state and federal level for those working in health social services and education, such as instances of suspected child abuse or neglect.
Breaking Confidentiality: Accidental Disclosure

- Through anonymization, researchers seek to protect research participants from the accidental breaking of confidentiality.
- Ethical guidelines and methods textbooks all note the importance of anonymizing research participants through the use of pseudonyms.¹
Deductive disclosure, also known as internal confidentiality, occurs when the traits of individuals or groups make them identifiable in research reports. For example, if a researcher studying teachers named the school district where the research occurred, someone with knowledge of the school district could likely identify individual teachers based on traits such as age, gender, and number of years with the school district.
Deductive Disclosure ...

• Given that qualitative studies often contain rich descriptions of study participants, confidentiality breaches via deductive disclosure are of particular concern to qualitative researchers.

• As such, qualitative researchers face a conflict between conveying detailed, accurate accounts of the social world and protecting the identities of the individuals who participated in their research.³
Example of Deductive Disclosure

- One of the most famous cases of deductive disclosure involves a researcher’s ethnographic research, which was turned into a book.
- The author’s data came from a small, remote community. The research participants were able to identify themselves and their neighbors in the book, even though their real names had not been used.
- Relationships in the community were strained because of what was written, and the members of the community felt betrayed and humiliated by the researcher.³
In order to prevent accidental or deductive disclosure, in some cases researchers may feel it is necessary to avoid publication altogether, or to omit certain aspects of their data or individual cases, in order to protect people’s identities. This is more common especially in cases where dramatic or extreme situations are described.¹
Measures to Protect Confidentiality: In Data Collection

- First, issues of confidentiality are addressed at the time of data collection. At this point, researchers and sociologists make assurances of confidentiality, typically via consent form statements such as, “All identifying characteristics, such as occupation, city, and ethnic background, will be changed”.
- Researchers typically present confidentiality agreements at the beginning of the data collection process.
• Discussing confidentiality at the outset is necessary for acquiring informed consent and for building trust with respondents.

• However, these discussions occur without knowledge of the specific information subsequently shared by the respondent.

• Furthermore, discussions about informed consent and confidentiality are rarely ongoing; once the consent form is signed, researchers lack a standardized way of returning to the issue of confidentiality and data use with respondents.\textsuperscript{3}
Protecting Confidentiality: “Data Cleaning”

- Second, confidentiality is addressed during data cleaning. Researchers remove identifiers to create a “clean” data set.
- A clean data set does not contain information that identifies respondents, such as a name or address (such identifying information might be stored elsewhere, in separate, protected files).³
Potential Identifiers

• Some identifiers are easily recognized and dealt with. For example, the names of respondents can be replaced with pseudonyms. Addresses can be deleted from the file once they are no longer needed.

• However, for both quantitative and qualitative data sets, unique combinations of traits can be used to identify respondents.

• This is particularly true for respondents who have faced unusual life events or who are unique in some way.
In quantitative studies of cancer, individuals with rare forms of cancer, such as brain tumors, can be identified with a few pieces of information such as census tract, cancer type, and gender.

Although meticulous data cleaning can remove personal identifiers such as names, the contextual identifiers in individuals’ life stories will remain.
Risks to Third Parties

• In psychosocial and health-behavioral research, we often request that research participants provide information on significant individuals in their lives, so-called “third parties”.

• In social and behavioral research, “third parties” include any other individual identified or described by a primary (consented) participant.²

• Examples include family members, spouses or partners, co-workers, teachers, students, etc.
Qualitative methods, particularly unstructured interviews, pose an unusual challenge in respect to third-party information.

Although the goal of obtaining information about specific third parties may not be explicit, such information is likely to emerge in the process of conducting an interview.

For example, classroom and workplace interviews about peers can risk third party information.
Federal regulations governing human subjects research do not directly address ethical issues associated with protections or family members who are not identified as the primary "research participant."

Ethical concerns related to family consent and privacy become paramount as pediatric environmental health research increasingly turns to questions of gene-environment interactions, such as environmental risk factors for disturbed brain development, mental retardation, and even antisocial or violent behavior.
Family Members as Third Parties

- Family privacy concerns may not be an issue when data collected at a single point in time from a large geographically dispersed sample are anonymized and reported in the aggregate.\(^5\)
Family Members as Third Parties...

- However, family privacy concerns are raised when
  - a) anonymous data are collected from a small sample of individuals with a rare environmental health risk in a small geographic area or identified health care of school setting, or
  - b) when longitudinal investigations require that unique identifiers and contact information is linked to subject codes, and the primary participant shares the same address and surname as other family members.\(^5\)
Family Members as Third Parties cont..

- If the family members are no more than a minimal risk as third parties in a study, an IRB waiver may be granted.
- The IRB would help to determine whether or not informed consent documents would be needed for the entire family, or only the primary research participant.
- This decision would come about by considering the potential, magnitude, and probability of harm.\textsuperscript{5}
Possible Harms to Third Parties

- Harms may include the release of private information obtained through the primary research participant, reports about parenting behaviors or health behaviors, or biological markers obtained from the primary participant.

- This may result in harms such as social stigma, school or employment discrimination, criminal charges, or limits on health coverage.
Given the prominence of third-party information in social and behavioral research coupled with an intensifying concern about privacy rights, it is imperative that investigators and IRBs take a more proactive approach to assessing the risks and benefits of research involving the collection of third-party information.
Lounsbury et al. recommend that IRBs require investigators to provide certain information about the involvement of third-party participants in research.

It is suggested that five parts of every research protocol should require attention to the matter of third-party rights and risks.
Third Party Protocol

- (1) rationale for collection of third-party information,
- (2) procedure for recruitment of participants and informed consent
- (3) strategy for data collection,
- (4) technique of processing and storing raw data,
- (5) manner of disseminating reported findings.
A Need for Heightened Caution

• Cases of disclosure in research have heightened researchers’ awareness of how they describe their study participants in their published work, how data is collected and stored, and how easy it might be to identify specific people in research reports.
A Need for Heightened Caution

- Investigators and IRBs need to be more conscientious of how a proposed study design may affect the rights and welfare of third parties and ensure that they have minimized the potential risks for third parties.
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References Cited


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