

ORIGINAL ARTICLE

Introduction to Qualitative Methods: A Practical Primer for Clinicians

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ABSTRACT

Qualitative study designs provide critical insights into pressing health care problems by answering why, how, and what questions: Why do patients not adhere to medications? How do providers use guidelines? What clinic features contribute to quality of care? Qualitative methods often consist of interviews or focus groups but also can include observations or archival data. These methods elucidate patient and provider experiences, behaviors, or beliefs; describe phenomena; and provide rich insights into local contexts. While family medicine has long acknowledged the value of qualitative research, clinicians and medical educators may have limited exposure. Our objectives are to (a) orient clinicians to qualitative research, and (b) guide them through the stages of qualitative study design, from planning, to data collection, to analyses, on through dissemination of a final product. We describe the tenets of qualitative inquiry: an insider perspective, holism, attention to power dynamics, reflexivity, and flexibility. We explain how to choose among qualitative data collection methods, such as interviews, focus groups, observation, and archival data review. Lastly, we provide key considerations for analyzing qualitative data, disseminating final product(s), and maximizing methodological quality. This practical guide for clinicians gives a grand tour of the overall purpose of and approaches to qualitative study designs and offers considerations when using qualitative methods in research and quality improvement studies.

AN INTRODUCTION TO QUALITATIVE METHODS AND WHY TO USE THEM

Why do patients not take their medications? How do family physicians juggle guidelines in the context of competing demands? What types of contextual factors contribute to a clinic's quality of care? These questions are ripe for qualitative inquiry because they are socially complex, contextual, and benefit from people's perspectives and experiences. Qualitative research can provide patient perspectives on adherence,^{1–3} explore providers' experiences providing guideline concordant care,^{4–7} or describe clinic contexts.^{8–10}

Family medicine has long valued qualitative research because it provides a deep, holistic understanding of health care problems.^{11–13} Qualitative methods can yield information unobtainable through quantitative research, such as the tension

family doctors experience when caring for patients prescribed opioids for chronic pain¹⁴ or why some physicians continue to order lumbar spine MRIs for uncomplicated low back pain despite limited evidence supporting improved outcomes.¹⁵ Qualitative inquiry facilitates understanding of behaviors, beliefs, and experiences, and can provide insightful explanations informed by local contexts.^{16–18} Moreover, qualitative data illuminates the meaning people ascribe to behaviors and practices, such as the role of the physical exam in family medicine.¹⁹

CONCEPTUALIZING QUALITATIVE STUDIES

Qualitative studies are foundationally and epistemologically distinct from quantitative studies, meaning that the principles underlying the approaches are different.^{13,20} In qualitative research, the goal is often describing, exploring, or explaining a phenomena of interest. Quantitative

and qualitative methods have different disciplinary traditions, approaches to data collection and analysis, and methods for assessing rigor.^{18,20} For example, we (the authors of this manuscript) are medical anthropologists; we draw from the tenets of our training to inform qualitative study designs (Table 1) that (a) provide an emic, insider perspective, (b) are holistic, (c) attend to power dynamics, (d) are reflexive, and (e) are used flexibly.¹³

Tenets of Qualitative Research

An *insider perspective*, gained through asking study participants open-ended questions, is among the hallmarks of qualitative research.¹³ The perspective of doctors, patients, or community members can illuminate why they think or act the way they do. Gaining an insider perspective might include interviewing

patients on the barriers they experience taking medication as prescribed or conducting observations of clinic routines to explain practice variation.^{10,21-23}

Holism means understanding issues comprehensively. Researchers can apply a holistic perspective to a problem by incorporating multiple methods (eg, interviews and observation), eliciting diverse perspectives (eg, patient and clinician), or combining data (eg, qualitative and quantitative). For example, understanding medication adherence is multifaceted and complex, and thus benefits from combining methods and perspectives. One approach might entail pairing medical record data documenting prescriptions, patient demographics, health conditions, and provider notes with patient interviews.²⁴ A holistic approach can help describe features of the organizational context where an

TABLE 1. Key Terms for Qualitative Study Designs

Qualitative study design term	Key features
Audit trail	Qualitative researchers document data collection procedures to ensure rigor. <ul style="list-style-type: none"> Documents the researcher's logic Records research steps and decisions from early in the research process Might include information such as inclusion/exclusion criteria, frequency of contact, number of responses, and/or participants lost to follow-up and why Can be used as a reference during the writing process
Emic perspective	Qualitative researchers emphasize the importance of understanding the emic perspective. <ul style="list-style-type: none"> Emic perspective: the insider's or participant's perspective (eg, patient or health care staff who are interviewed) Etic perspective: the outsider's or nonparticipant's perspective (eg, researcher or health care staff who conduct the interview)
Flexibility	Qualitative researchers employ flexible methods. <ul style="list-style-type: none"> Sampling that may be iterative Data collection that is often semi-structured Data collection and analysis that are often iterative over time
Holistic approach	Qualitative researchers employ a comprehensive, big picture view of research (e.g., people living with HIV: illness/lived experiences, disease impacts, environmental factors, health care access, local contexts, how cultural beliefs and values impact lived experiences). <ul style="list-style-type: none"> Includes perspectives of diverse people on team Considers research problem from diverse perspectives (eg, a multifaceted understanding) Incorporates diverse types of data (eg, interviews, medical record) Includes diverse types of participants Includes the participant's lived experiences
Power dynamics	Qualitative researchers recognize the importance of how power dynamics impact the research or quality improvement process in various ways. <ul style="list-style-type: none"> Data collection: who conducts the interview or leads data collection in relation to the participant and why a provider interviewing patients may be problematic (eg, focus group composition may be hindered if power dynamics are not considered) Analysis: how the researcher's role and background can impact analysis and presentation of results
Purposive sampling	Qualitative researchers typically employ purposeful sampling to obtain rich information about people, contexts, or settings. This approach differs from probability sampling or sampling to make generalizations about a population. Following are various ways purposeful sampling is performed: <ul style="list-style-type: none"> Criterion sampling (for specific characteristics) Homogeneous sampling (for similar characteristics) Snowball sampling (through word of mouth) Maximum variation (to enhance diversity)
Transferability	Qualitative researchers do not aim to achieve generalizability. Instead, qualitative research uses transferability, which is based on the reader's determination whether study results apply to different contexts, settings, or populations. Transferability is enhanced in various ways: <ul style="list-style-type: none"> Rich description of the results and population of interest Use of theories, models, or frameworks to help translate results in a relatable way or make comparisons across different contexts Clear presentation of results so that readers understand the findings

Abbreviation: HIV, human immunodeficiency virus

evidence-based practice (eg, mental health in primary care) is being implemented.²⁵

Attention to *power* means considering the study population, how people relate to others, and the broader systems in which they live and work.^{13,26,27} Medicine is inherently hierarchical, with roles having varying levels of power.²⁶ These power dynamics have implications for the study design, such as the composition of a focus group. A heterogeneous mixture of doctors and nurses might limit the scope of topics raised and stifle open discussion, while a homogenous group of patients with the same disease or condition promotes nuanced discussion about life experiences. Similarly, power differentials can constrain conversations between the interviewer and participant (eg, a doctor and patient). Unique risks exist when a doctor interviews patients for a research study. Steps can be taken such as not interviewing patients in your own clinic or avoiding formal titles. These approaches do not entirely remove power differentials because hierarchical differences remain between patients and doctors. Power and hierarchy are linked to social attributes (eg, race, gender, age, disability, religion, economic status, education). These factors influence how people interrelate and how they interact with researchers.

Reflexivity, which is related to power, means considering team members' roles and experiences—their unique backgrounds, histories, and training (ie, their positionality), and how these affect data collection or analysis. For example, a social scientist and clinician would draw upon different training and experiences while conducting an interview about a disease and would understand data differently during analysis. These distinct perspectives can be desirable and can impact how data are understood. A study about routine clinic practices might be informed by a clinician's work experiences, while a social scientist might ask insightful, open-ended questions because they are unfamiliar with clinic operations or disease treatment. A best-case scenario can occur when social scientists and clinicians work together, each bringing their distinct lens to research questions and data. One author (L.K.) includes family physicians in her qualitative research projects, melding clinical and anthropological experiences and insights.²⁸ The reflexive process can be facilitated by having team members write (using analytic memos)²⁹ or talk about how their training and experiences inform their understanding of the research problem.

Qualitative study designs can be used flexibly.³⁰ *Flexibility* may include how an interview guide is used or who is interviewed. Qualitative interview guides should *guide* conversations. The interviewer may change the order of questions or omit and add questions depending on what the participant is sharing. Interviewers might probe to delve deeper into why a participant made a particular statement. Flexibility also may occur when novel or unexpected information is gathered during interviews, necessitating alterations in the study design. For example, if patient

interviews emphasize family members' roles in medication adherence, future interviews could expand to family members either in interview guide questions or as additional participants.

We have found that early practitioners, who might be more familiar with structured survey questions, find the concept of flexibility useful when embarking on qualitative studies. When submitting protocols to an institutional review board (IRB), we explain that the qualitative interview is a guided conversation rather than a fixed questionnaire. However, significant alteration of the interview protocol, such as an entirely new line of inquiry, may require submitting an IRB amendment.

DESIGNING QUALITATIVE STUDIES

A qualitative study design is comprised of specific methods, such as interviews, focus groups, observation, and/or archival (existing) data (Table 2). The design is the broader framework, of which the methods are just one part.

The Five W's of Qualitative Research: Why, Who, What, Where, When

When designing a qualitative study, consider the five W's of qualitative research (Figure 1).

- *Why* is the study being conducted? Is the study exploratory (unknown topic); explanatory (expand on quantitative results); or descriptive (describe human experience or problem)?³⁵ The research question (what you want to learn) should guide the methods and approach.
- *Who* are the key players? Who specifically should be included/excluded as a participant? Who will be on the study team?
- *Where* will the study take place? At the hospital, in the community, in patients' homes?
- *What* data collection methods will be used (eg, interviews, focus groups, observation)?
- *When* will the study occur and over what time frame?

THE STAGES OF QUALITATIVE RESEARCH

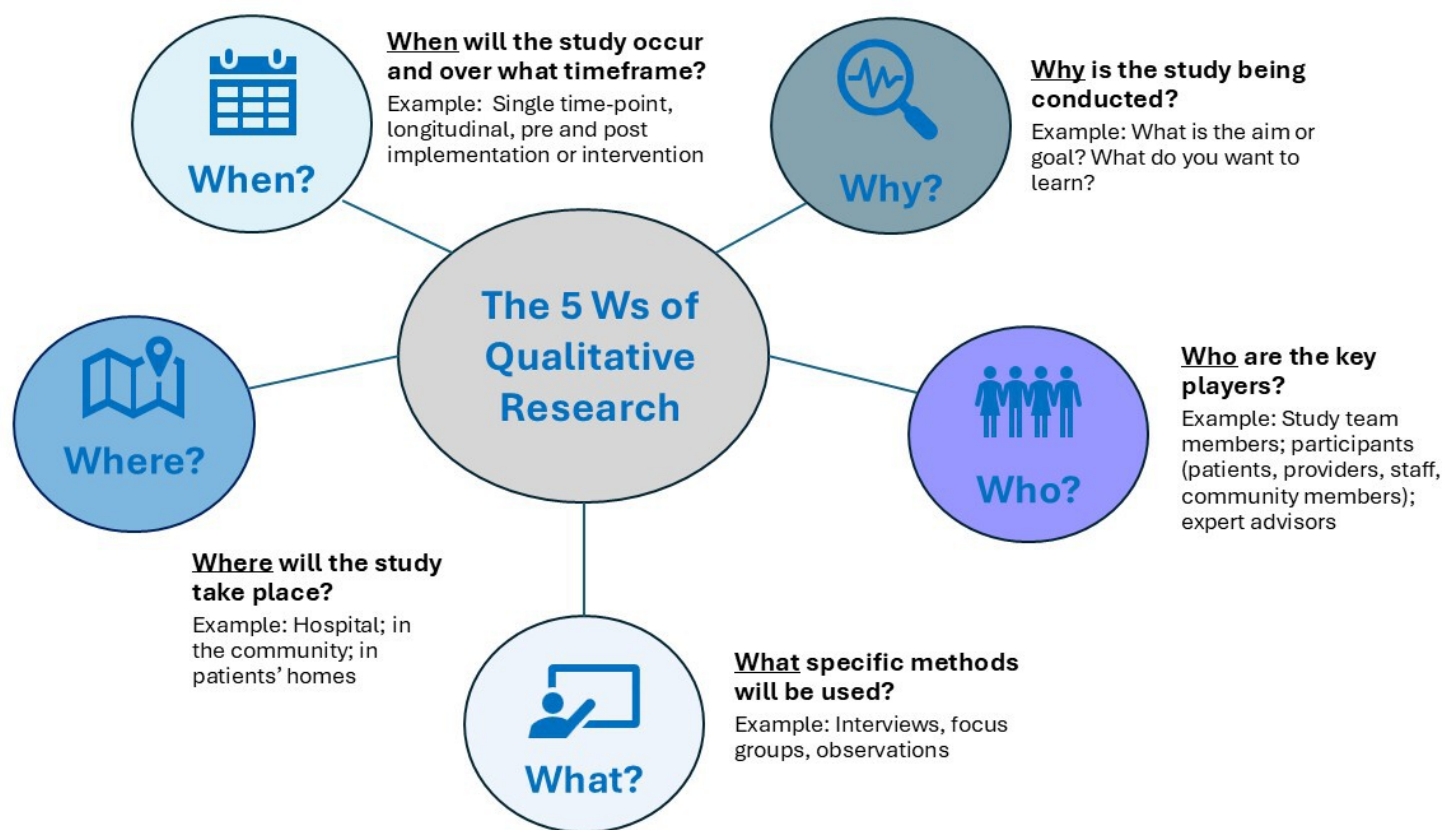
In keeping with the practical nature of this article, here we provide an overview of the four stages of conducting qualitative research. Stage 1, planning, includes thinking about goals, approach, team members, and time frame. Stage 2, data collection, guides what methods will be used and how participants will be identified and recruited. Stage 3, analysis, informs what will be done with the data once collected. Stage 4, dissemination, focuses on the product or end goal, typically a manuscript. Thinking of these as stages helps make connections across the research process. Although we present these stages linearly, they often are iterative.

Stage 1. Planning

Thoughtful planning (Table 3) is critical to rigorous work.¹³ Planning includes thinking through key components:

TABLE 2. Overview of Qualitative Data Collection Types

Method	Best use	Considerations	Examples
Interviews	<ul style="list-style-type: none"> In-depth understanding of a topic Learn about someone's experiences 	<ul style="list-style-type: none"> Good for personal experiences, including taboo topics Different from clinical interviews or getting a medical history³¹ Be mindful of power dynamics¹³ Need ~10 participants per group of interest as a general starting point³ 	Common population include: <ul style="list-style-type: none"> Patients Providers Hospital staff Hospital leadership Community members Family members Caregivers
Focus groups	<ul style="list-style-type: none"> Generative conversations Group interactions, share and compare ideas Breadth over depth of a topic 	<ul style="list-style-type: none"> Limited number of questions Challenging to recruit people for the same time Power dynamics matter (homogenous) People with something in common (eg, same disease or training or work setting) The N is the number of focus groups, not participants¹⁷ Typically need at least 2–4 focus groups to compare and analyze³³ 	<ul style="list-style-type: none"> A group of clinicians with the same role Patients with specific health conditions or experiences Caregivers
Observation	<ul style="list-style-type: none"> Understand what people do and how they interact with others or their environment 	<ul style="list-style-type: none"> Not good for taboo or infrequent behaviors^{34,40} Need permission to access space Specify what is/is not being observed¹³ 	<ul style="list-style-type: none"> Observing patient-provider conversations Observing clinic workflows
Archival data	<ul style="list-style-type: none"> Provides background, contextual information Already exists 	<ul style="list-style-type: none"> Not good for exploratory work Static information Limited to what was already reported Often used to complement primary data collection rather than replace it 	<ul style="list-style-type: none"> Meeting notes Medical records Social media posts

FIGURE 1. The Five W's of Qualitative Research

objective, methods, team members, analysis, timeline, approvals, budget (including participant compensation and transcription), and end product(s). A primary focus should be on the research question; this focus guides all the work. What is the study goal, and which strategies (methods) align with the goal(s)?

Qualitative methods can stand alone or be paired with quantitative data (mixed methods). In mixed-method study designs, how the methods relate to each other, the order they are conducted, and how data are integrated should be specified.³⁵

Qualitative Team

Typically, qualitative researchers are engaged in primary data collection and involved in recruitment, scheduling, and then conducting interviews, focus groups, or observations. These activities can be labor-intensive and benefit from a team approach. Thus, qualitative research is often conducted by a multidisciplinary team, with members assuming distinct roles. The study lead is responsible for conceptualizing the research and securing the funding as well as ensuring methodological quality. Additionally, team members might include a project manager overseeing study logistics, a research assistant helping with daily tasks, and a methodologist/analyst helping collect and analyze data. Trainees, such as medical students, residents, or fellows, can learn and contribute. Studies also may include other investigators who provide content or methods expertise. Frequently, as team members, family medicine clinicians are introduced to qualitative methods, working alongside a mentor or research associate. Experienced qualitative team members support the entire process, from conceptualization through the final product. They help ensure rigor and enhance the credibility and trustworthiness of the data and findings.³⁶

Stage 2. Data Collection

Selection of data collection methods depends on the research question(s) and population(s) of interest (eg, who the study participants are). *Interviews* entail a one-on-one conversation, which is good for in-depth understanding of a single person's experiences. An interview may sound like a conversation, but it is a highly orchestrated discussion facilitated by the interviewer.³⁷ Interviews can be repeated with the same person over time. Interview data are then compiled across participants to give a rich view of the phenomena of interest.

Focus groups comprise a group conversation where people share and compare ideas in relation to a topic.^{38,39} These are effective for generating ideas around a subject of interest and offer breadth of a topic over depth. The interview or focus group guides are informed by the study goals and the best ways to ask participants questions. Interviews and focus groups are common data collection types in health services research and quality improvement, but observation and archival data offer additional ways to gain qualitative insights.

Observations provide understanding of conversations, processes, interactions, and behaviors that are difficult for people to remember or explain, and are useful for documenting implicit actions often done without thinking.⁴⁰ Observations illuminate behaviors in context. While concern might exist, observing participants is unlikely to change their behavior.³⁵

Archival data consists of existing data, such as meeting minutes, clinical guidelines, and information from the electronic health record, websites, educational materials, or historical records.¹³ These can be analyzed for historical trends, provide objective documentation or inform primary data collection.

Data Organization

Key to qualitative data collection is data organization.¹³ Project and data management in qualitative research are

TABLE 3. Qualitative Study Planning Considerations

Component	Considerations
Objective	What is the specific goal of the work? What do you want to accomplish? Are qualitative methods (eg, exploratory, descriptive, explanatory) appropriate?
Method(s)	Which methods (eg, interview, focus groups, observation, archival data) can help answer the question(s)? Are quantitative methods (eg, survey, medical record) also needed?
Team	What work needs to be done? Who has the skills or training to complete the project?
Analysis	What data will you have and what do you want to learn from it? What analytic approach will you use? Who is on the analytic team? How will you disseminate (eg, conference, manuscript, report) the findings?
Timeline	What is the time frame? How long will it take to accomplish all the steps (eg, funding, training team members, institutional review, data collection, data analysis, dissemination)?
Approval	What official approvals are needed? What informal permission (eg, head nurse) is needed?
Dissemination	What are the end products (eg, executive summary, manuscript)?

sometimes overlooked. We recommend that the team develop data management plans early in the study. This includes the participant identification system, file organization and naming, where data will be stored, how data will be organized for analysis and shared with analysts, and the like. Keeping track of recruitment and participation data through spreadsheets can later help characterize the population for reporting. This organization is particularly important when the study has different types of data, different participant types, or different phases of qualitative research.

Additional factors to consider are timelines, approvals, and final products. Funding or educational goals often inform study timelines. Studies typically are reviewed by an independent party, such as an IRB, to determine whether the activity is research or quality improvement, each with specific guidelines. A GANTT chart (a timeline with activities mapped to study month) helps researchers consider each step and how long it takes from approvals through the end product.

Participants and Recruitment

Researchers should clearly specify selection and inclusion criteria for participants. Who are you trying to reach? What are the eligibility criteria? How will you reach potential participants? How many people do you need to speak with? Sampling in qualitative studies is not about having enough people for a representative sample of the population. Instead, the goal is to speak with the right mixture of people to feel confident about answering the research question. Determining sample size is highly dependent on the goals of the work and disciplinary tradition, although some rough principles are outlined.^{41–44} Purposive sampling is a focused strategy to obtain rich information from cases aligned with the research question.^{44,45}

Recruitment is labor intensive. Reaching potential participants can take multiple tries. IRBs may have rules about contacting potential participants to minimize coercion, while participants may be more responsive to certain forms of outreach. Mailed letters, emails, phone calls, text messages, and even instant messaging can be viable recruitment strategies. Busy clinicians may be overloaded with emails, but receptive to instant messages.⁴⁶ To facilitate recruitment, team members or an advisory group can help identify strategies, such as asking collaborators to connect you to potential participants. We have found recruiting clinicians in person, during routine staff meetings or didactic sessions, fruitful. Social media can help reach potential participants, but may tempt people who are not the population of interest but are instead interested in compensation.⁴⁷ Recruitment outside a clinical setting, in a community, can take additional work. Succinctly providing the purpose of the study and what is being asked of participants can increase participation.

Compensating participants with cash payments or gift cards is a gesture of respect for their time and expertise. Others in your institution or related fields should be consulted to identify a going rate. Institutions vary regarding who can be

paid. Employee payments typically depend on employer rules (eg, some institutions do not allow staff compensation).

Stage 3. Analysis

The analysis phase can be challenging, especially for those new to qualitative research. Qualitative analysis is iterative and focuses on making meaning of the data. It often involves identifying concepts or themes across interviews, focus groups, observations, or archival data. Qualitative analysis has a different rhythm from quantitative analysis, and researchers can benefit from working with experienced team members. Planning for analysis should come early in the process. Avoid collecting volumes of qualitative data, only to be stuck trying to figure out what to do next.

A range of qualitative methodological approaches and analysis techniques are available. The approach should match the study objectives, data collected, and ultimate goal. For example, if the goal is to be more descriptive and less interpretive, you would conduct interviews that encourage participants to describe their experiences. You could then use thematic analysis to understand the various aspects of participants' experiences.

Common approaches used in health research include content analysis,⁴⁸ which focuses on categories in the data; thematic analysis,⁴⁹ which identifies patterns of meaning; and rapid analysis,⁵⁰ which is a streamlined approach for rapid turnaround projects; as well as many other useful approaches. This introductory article provides only a brief synopsis. For more information on qualitative analysis, see Saldaña for an overview of coding qualitative data⁵¹ or Starks and Brown Trinidad⁵² for a comparison of methods such as phenomenology, discourse analysis, and grounded theory. Further readings are provided in Table 4 for specific approaches.

Stage 4. Dissemination

Researchers should consider potential dissemination products early in the planning process. What are you hoping to deliver at the end of the project? Consider what kind of product you are expecting: report, presentation, manuscript, and so forth. Focusing on the final product can provide purpose, a timeline, and closure. Qualitative products typically support findings with quotations, which are the data derived from the interviews or focus groups. Archival data or field notes from observations are less common, but appropriate.^{40,53} Qualitative quotes can provide a rich narrative exploring the study question. Quotes can and should be integrated into the products. Visual displays and matrices also can be a useful way to communicate findings.⁵⁴

Other considerations for dissemination are who is leading the effort, required approvals for sharing results, and, if publishing a manuscript, which journal might be a good fit. We have found targeting journals that publish qualitative papers to be helpful.¹³ Some journals may require a methods checklist, while others prefer the inclusion of the interview

TABLE 4. Qualitative Methodological Approaches

Approach	Description	Further reading
Case study	Focused on the individual cases or settings (eg, people who adhere to medications; clinics that prescribe more vs less appropriately; departments that adopt a new initiative or program)	Başkarada S. Qualitative case study guidelines. <i>The Qual Rep.</i> 2014;19(40):1–25. Stake, RE. Qualitative case studies. In: Denzin NK, Lincoln YS, eds. <i>Strategies of Qualitative Inquiry</i> . 3rd ed. Sage; 2008:119–149.
Content analysis	Focused on language and categories in the data. More useful when categories are specified <i>a priori</i> or using a framework	Hsieh, H-F, Shannon, SE. Three approaches to qualitative content analysis. <i>Qual Health Res.</i> 2005;15(9):1,277–1,288.
Discourse analysis	Examination of narrative or conversations between people. Useful for patient-provider communication and health care staff interactions	Eggly, S. Physician-patient co-construction of illness narratives in the medical interview. <i>Health Commun.</i> 2002;14(3):339–360. Koenig, CJ. Discourse/conversation analysis. In: Ho EY, Bylund CL, Van Weert JCM, et al, eds. <i>The International Encyclopedia of Health Communication</i> . Wiley; 2023. Rejnö, A, Berg L, Danielson E. The narrative structure as a way to gain insight into peoples' experiences: one methodological approach. <i>Scand J Caring Sci.</i> 2014;28(3):618–626.
Phenomenology	Focuses on understanding and describing the lived experience of a specific phenomenon	Starks H, Brown Trinidad S. Choose your method: a comparison of phenomenology, discourse analysis, and grounded theory. <i>Qual Health Res.</i> 2007;17(10):1,372–1,380.
Pragmatic ethnography	A holistic, multimethod approach focused on understanding the insider, emic perspective	Hamilton AB, Fix GM, Finley EP. <i>Pragmatic Healthcare Ethnography: Methods to Study and Improve Healthcare</i> . 2024; Routledge.
Rapid analysis	Streamlined yet systematic approach for more rapid turnaround projects	Kowalski CP, Nevedal AL, Finley EP, et al. Planning for and assessing rigor in rapid qualitative analysis (PARRQA): a consensus-based framework for designing, conducting, and reporting. <i>Implement Sci.</i> 2024;19:71. Nevedal AL, Reardon CM, Opra Widerquist MA, et al. Rapid versus traditional qualitative analysis using the consolidated framework for implementation research (CFIR). <i>Implement Sci.</i> 2021;16(1):67.
Thematic analysis	Identifies patterns of meaning	Clarke V, Braun V. Thematic analysis. <i>J Posit Psychol.</i> 2017;12(3):297–298.

or focus group guide; however, these are not necessary to demonstrate rigor.⁵⁵

Metrics of Quality

The features of a qualitative study design necessitate different strategies to assess rigor compared to quantitative studies.^{17,18,36,56–61} Using quantitative standards to design and assess rigor in qualitative methods, such as generalizability, a preference for large sample sizes, and representativeness are inappropriate for qualitative studies.⁵⁵ Instead, *transferability* is the extent to which the reader determines whether study results are applicable to other settings or contexts. Transferability is enhanced with rich descriptions, clear presentation of study results, and/or the use of theories, models, or frameworks.⁵⁵ *Transparency* is a closely related process where the researcher is clear (and transparent) about what steps they took. *Audit trails* are a strategy to document data collection procedures.⁶² Capturing details throughout the data collection process allows for thick, rich description of the study procedures, which is a marker of quality. Overall, the fit between the study goals and the data collection procedures are good metrics of qualitative rigor.^{50,56,57}

Available resources such as the Consolidated Criteria for Reporting Qualitative Research⁵⁹ or Standards for Reporting Qualitative Research⁶⁰ provide basic guidance for rigor. These criteria can be used as a guide to identify steps to include in the study design and writing. Following the principle of flexibility,

qualitative studies may not adhere to every aspect of the checklist. Thus, caution should be taken because checklists may miss valuable aspects of the study, such as originality or the substance of the findings.⁶¹

CONCLUSIONS

This practical guide for clinicians gives a grand tour of the overall purpose of and approaches to qualitative study designs and offers key considerations when using qualitative methods. By providing this guidance, we aim to help clinicians understand how qualitative methods are rigorous and can answer diverse health care delivery questions.

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The authors declare no conflicts of interest.

AUTHOR CONTRIBUTIONS

G.F. developed the initial draft. All authors (G.F., A.N., L.K.) then contributed to and revised all sections of the manuscript. All authors were involved in the revisions and then read and approved the final manuscript.

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