

Review

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Comprehensive Criteria for Reporting Qualitative Research–(CCQR): Reporting Guideline for Global Health Qualitative Research Methods

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Review

Comprehensive Criteria for Reporting Qualitative Research–(CCQR): Reporting Guideline for Global Health Qualitative Research Methods

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Abstract: The requirement for in-depth exploration of complex issues beyond the scope of other research methods in the health industry has increased the demand for qualitative research globally. The authors aimed to improve the accessibility and comprehensiveness of reporting guidelines for qualitative research. A comprehensive review of scientific articles was conducted on PubMed, Medline, CINAHL, and Embase, and it retrieved 1989 plus 13 more articles through the snowball method. After screening, 17 key articles were identified, which led to the development of Comprehensive Criteria for Reporting Qualitative Research that comprises 14 categories, offering key elements in an organized table. This novel guideline complements the two widely used guidelines, Consolidated Criteria for Reporting Qualitative Research and Standards for Reporting Qualitative Research, by including additional aspects like objectives, existing knowledge, rationale behind methodologies, conclusions, recommendations, and reference citations. The study responds to the rising need for improved qualitative research reporting guidelines in global health.

Keywords: qualitative reporting guidelines; qualitative research reporting; qualitative research standards; qualitative research outcome; reporting guidelines in qualitative research; qualitative research checklist

1. Introduction

Qualitative research in health involves collecting, organizing, and analyzing textual data from conversations to answer specific research questions and draw meaningful conclusions [1]. Additionally, qualitative study investigates issues in real life through studying experiences and perceptions of the subjects, offering solutions. Qualitative research helps to understand the decision-making process, focusing on the how and why rather than the when, what, and where, to gain insights into complex human behavior and phenomena [2,3]. Qualitative research enables the creation of hypotheses as well as additional inquiry and comprehension of quantitative data, in contrast to quantitative research, which gathers numerical data or intervenes or provides treatments. Qualitative research enables the creation of hypotheses as well as additional inquiry and comprehension of quantitative data, in contrast to quantitative research, which gathers numerical data or intervenes or provides treatments [2].

Determining the research topic, choosing an appropriate location and subject, gathering and analyzing data, creating a conceptual framework, coming to conclusions, and interpreting the

findings are the fundamental processes of qualitative research [4]. This research methodology is based on written texts that are extracted from focus group discussions or individual in-depth interview transcriptions (FGD)[5]. The overall aim is to understand the meaning of the experiences of the population in their context [6]. Qualitative research clarifies how courses are experienced and the meanings given to them by highlighting the interests and concerns of the population and giving voice to individuals, society, and frequently minorities [7]. The global need for qualitative research has increased due to the health sector's increasing need for thorough investigation and comprehension of complex topics that other research methods might not be able to adequately handle [8].

Within the realm of qualitative research, the desire to evaluate quality has led to the emergence of numerous guidelines for conducting and evaluating qualitative work, especially in the health field [8]. These guidelines aim to provide a framework for researchers to ensure rigor and reliability in their studies [9]. Therefore, it is crucial to ensure proper reporting and study planning to avoid the weak application of qualitative research [8]. A well-written publication should reflect the critical methodological approaches employed, providing readers with a thorough understanding as well as the ability to compare and contrast results [10]. A complete guideline serves as a valuable instrument at the time of publication and throughout the stages of study design and analysis. Moreover, aids in conveying the decision-making process are involved [8]. Guidelines should also allow for clear conclusions regarding replicability or expansion of studies [11].

Comprehensive coverage of all important steps in qualitative research is essential to provide readers with a clear and coherent picture [12]. There is a consensus that comprehensive reporting guidelines are fundamental to high-quality qualitative research [13–15]. Carefully reported research papers offer editors, readers, reviewers, and practitioners a clear perspective, enabling them to comprehend and utilize the findings efficiently. Furthermore, readers must understand even the most complex aspects of qualitative research [10]. Therefore, following structured and widely accepted reporting guidelines when writing a manuscript is paramount. Using reporting guidelines in qualitative research writing ensures quality criteria such as credibility, transferability, dependability, and confirmability [15] thus considered legitimate tools to guarantee the quality of reporting for qualitative research [16].

In this study, the authors aimed to make reporting guidelines for qualitative research more accessible and comprehensive for researchers. Currently, the two most widely used guidelines are Consolidated Criteria for Reporting Qualitative Research (COREQ) and Standards for Reporting Qualitative Research (SRQR), both based on previous publications [11].

While these guidelines share similarities in their development methods, their criteria and usage differ [11]. The COREQ has divided its guidelines into three main categories: “research team and reflexivity,” “research design,” and “analysis and finding,” focusing only on two qualitative data collection methods, namely independent interview and focus group discussion [17]. The SRQR has developed a broad spectrum of qualitative research methods which has discussed six topics: “title and abstract,” “introduction,” “method,” “results,” “discussion,” and others (conflict of interest and funding) [18]. Recent publications have called for a comprehensive guideline complementing the COREQ and the SRQR [11]. The goal was to combine the strengths of existing reporting guidelines and provide further recommendations on reporting criteria.

2. Methods

Our research aimed to conduct a comprehensive and systematic literature review of the existing guidelines and criteria for reporting qualitative research. We initiated this investigation by extensively searching various reputable databases, including PubMed, Medline, CINAHL, and SCOPUS, utilizing the EBSCOhost interface for Medline and CINAHL. However, due to the limited number of relevant articles found on SCOPUS, we excluded it from further analysis. We included EMBASE as an additional database source to ensure a more comprehensive search. Our search was conducted diligently between November 24, 2022, and December 30, 2023, employing a range of strategically chosen keywords closely related to reporting guidelines in qualitative research. We

established inclusion criteria collaboratively among all authors. Our criteria specified that articles had to be published after 2003 to December 2023, written in English, and explicitly addressed reporting guidelines in qualitative research. In total, we utilized seven distinct search terms, which included but were not limited to phrases like "qualitative research outcomes," "qualitative research standards," "qualitative outcome reporting," "qualitative research reporting," "reporting qualitative research," "qualitative research checklist," and "reporting guidelines in qualitative research." To maximize our search results and ensure inclusivity, we employed Boolean operators such as "AND" and "OR." (For a detailed breakdown of our search history, please refer to supplementary file 1).

3. Result

In the initial phase of our search, we collected a total of 1989 articles, with 798 sourced from CINAHL, 732 from PubMed, 147 from Medline, and 312 from Embase. To enrich our dataset further, we applied a snowball method by reviewing the references of included papers, which led us to an additional 13 relevant articles. We used a Mendeley reference manager to manage our total of 2002 articles. Through the reference manager software, we eliminated all duplicates, and 1439 articles were reviewed further. After careful screening and removing articles based on relevancy through screening titles, abstracts, keywords, and, 108 articles were available for full-text review.

All retrieved 108 records underwent a rigorous screening process based on the predefined inclusion and exclusion criteria. Articles not meeting these criteria or lacking relevance to reporting guidelines or criteria in qualitative research were excluded. Ultimately, 38 articles appeared promising during the initial screening phase. Subsequently, all the researchers reviewed the 38 full-text articles by reading them several times. A collective decision was reached to include 17 articles as the foundational basis for the final set of guidelines (Figure 1).

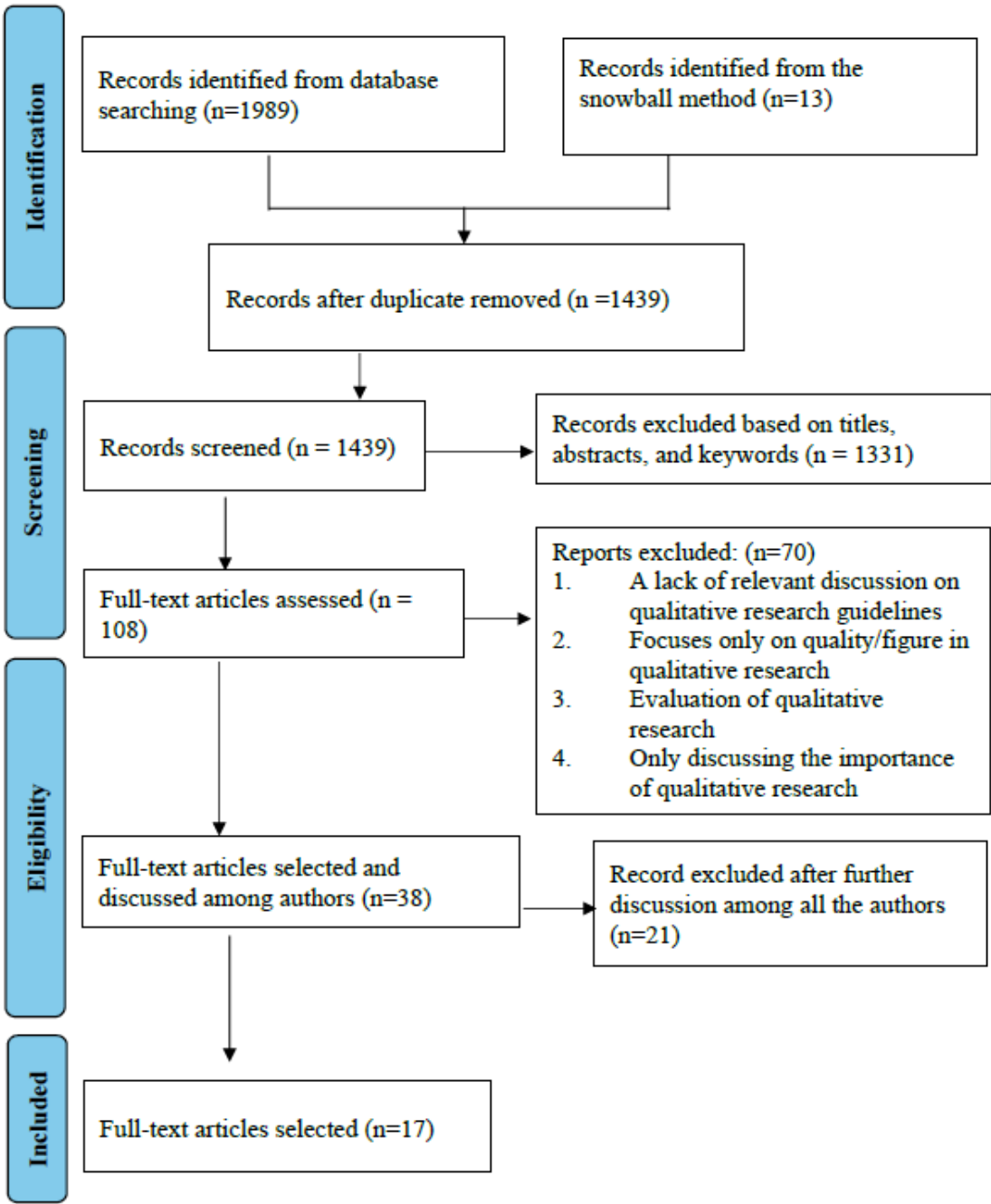


Figure 1. PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) flow diagram of the articles selection process.

3.1. Quality Assessment of Articles

To ensure the quality of the included articles, we applied the CRAAP test (Currency, Relevance, Authority, Accuracy, and Purpose), as suggested by Garcia [19] to each selected article (Table 2). The CRAAP test includes 25 questions relevant to five main domains: Currency (the timeliness of the information), Relevance (the importance of the information for your needs), Authority (the source of the information), Accuracy (the reliability, truthfulness, and correctness of the content), and Purpose [20]. We have not removed any article based on crap test scoring as out of the 17 articles, four got a full score (25 scores), and the rest were 18 or more than 18.

Table 2. Quality assessment by CRAAP TEST for evaluation of articles.

ARTICLES AND YEARS	Franc e et al. (2019) [21]	Battenan d Brackett (2022) [22]	Cronin and Rawso n (2016) [23]	Florcza k (2021) [24]	Blignaul t and Ritchie (2009) [25]	Coast et al. (2012) [26]	Levit al. (2018) [27]	Misiak and Kurpa s (2022) [28]	King (2022) [29]	Pearso n et al. (2015) [30]	Clark (2003) [31]	Salzmann -Erikson (2013) [32]	O'Brie n et al. (2014) [18]	Holli n et al. (2020) [33]	Zacharia h et al. (2022) [34]	Tong et al. (2012) [35]	Tong et al. (2007) [17]
CURRENCY	3	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
RELEVANC E	5	4	5	4	3	5	5	5	5	4	5	4	5	5	4	5	5
AUTHORIT Y	5	5	5	5	5	5	5	5	5	0	0	4	5	5	5	5	5
ACCURACY	6	5	5	5	2	4	5	5	5	6	6	6	6	6	5	6	6
PURPOSE	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total	24	21	23	22	18	23	24	24	24	19	20	23	25	25	23	25	25

The detailed description of the included articles is presented in Table 3. After meticulously reviewing the selected articles, the reviewers identified fourteen distinct categories to construct a novel reporting guideline. These categories encompassed a wide range of topics, from titles and methodology to conflict of interest considerations. Table 4 provides a comprehensive overview of the content covered within each of these categories.

Table 3. Characteristics of the reviewed articles.

Author and Year	Journal Name	Title	Objectives	Method	Finding / Conclusion/ Recommendation
France et al. (2019) [21]	BMC Medical Research Methodology	Improving reporting of meta-ethnography: The eMERGe reporting guidance	Provide guidance to improve the completeness and clarity of meta-ethnography reporting.	(1) A methodological systematic review of guidance for meta-ethnography conduct and reporting; (2) A review and audit of published meta-ethnographies to identify good practice principles; (3) International, multidisciplinary consensus-building processes to agree guidance content; (4) Innovative development of the guidance and explanatory notes.	19 reporting criteria and accompanying detailed guidance
					PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) is a key guideline updated in 2020. It includes a 27-item checklist covering title, abstract, introduction, methods, results, discussion, and additional information. It applies to all study designs, not just randomized control trials, ensuring comprehensive research transparency.
Batten and Brackett (2022) [22]	Heart & Lung, The journal of cardiopulmonary and acute care	Ensuring rigor in systematic reviews: Part 6, reporting guidelines	Summarizing PRISMA, MOOSE, ENTREQ, systematic review reporting guidelines	Review	MOOSE (Meta-analyses of Observational Studies in Epidemiology) is the guideline for synthesizing observational studies, which are crucial for assessing harm, including diverse populations, and reporting effectiveness. The 35-item checklist includes introduction, methods, results, discussion, and conclusion, similar to PRISMA but with specific details unique to observational studies. ENTREQ (Enhanced Transparency in Reporting the Synthesis of Qualitative Research) is the guideline for synthesizing qualitative studies, often called a meta-synthesis. It provides a 21-item checklist covering the synthesis aim, methods (search, data extraction, coding), results, and discussion,

					ensuring thorough and transparent reporting.
Cronin and Rawson (2016) [23]	Academic Radiology	Review of Research Reporting Guidelines for Radiology Researchers	To increase awareness of the radiology community of the available resources to enable researchers to produce scientific articles with a high standard of reporting of the research content and with a clear writing style	To review the following study designs: diagnostic and prognostic studies, reliability and agreement studies, observational studies, experimental studies, quality improvement studies, qualitative research, health informatics, systematic reviews and meta-analyses, economic evaluations, mixed methods studies; and study protocols are discussed, as well as the reporting of statistical analysis.	Complete review of the key EQUATOR reporting guidelines for radiology.
Florczak (2021) [24]	SAGE	Reflexivity: Should It Be Mandated for Qualitative Reporting?	Reflexivity and its importance to the process of qualitative research	Research issue	Reflexivity is important in evaluating qualitative studies.
Blignault and Ritchie (2009) [25]	Health of Promotion-Journal of Australia	Revealing the wood and the trees: reporting qualitative research	To provide a general guide to presenting qualitative research for publication in a way that has meaning for authors and readers is acceptable to editors and reviewers and meets the criteria for high standards of qualitative research reporting across the board.	Discussing the writing of all sections of an article, placing particular emphasis on how the author might best present findings, and illustrating his points with examples drawn from previous issues of this Journal.	Reporting qualitative research involves sharing both the process and the findings, that is, revealing both the wood and the trees.
Coast et al. (2012) [26]	Health Economics	Using qualitative methods for attribute development for discrete choice experiments: issues and recommendations	This paper explores issues associated with developing attributes for DCEs and contrasts different qualitative approaches.	The paper draws on eight studies, four developed attributes for measures, and four developed attributes for more ad hoc policy questions.	The theoretical framework for random utility theory and the need for attributes that are neither too close to the latent construct nor too intrinsic to people's personality. The need to think about attribute development as a two-stage process. involving conceptual development followed by refinement of language to convey the intended meaning. The difficulty in resolving tensions inherent in the reductiveness of condensing complex and nuanced qualitative findings into precise terms. The comparison of alternative qualitative approaches suggests that the nature of data collection will depend both on the characteristics of the question and the availability of existing qualitative information.
Levitt et al. (2018) [27]	American Psychologist	Journal Article Reporting Standards for Qualitative Primary, Qualitative Meta-Analytic, and Mixed Methods Research in Psychology: The APA Publications and Communications Board Task Force Report	To form recommendations for journals and publications using APA style.	A working group of APA was formed. A literature review was performed on qualitative research reporting standards before discussion and development of the standards.	Journal Article Reporting Standards for Qualitative Research. Qualitative Meta-Analysis Article Reporting Standards. Mixed-Methods Reporting Standards.

Misiak and Kurpas (2022) [28]	Advances in Clinical and Experimental Medicine,	Checklists for reporting research in Advances in Clinical and Experimental Medicine: How to choose a proper one for your manuscript?	To provide an overview of the most frequently used checklists used to publish papers in Clinical and Experimental Medicine, Support authors in choosing a checklist	Presentation of 8 checklists from the EQUATOR website	8 checklists compared. Checklist should be used to improve the manuscript. Equator website to choose a checklist. Choosing checklist before start writing the paper. Choice of checklist based on type of article.
King (2022) [29]	Research in Nursing & Health	Two sets of qualitative research reporting guidelines: An analysis of the shortfalls	Aspects of the guidelines are discussed regarding their influence on the quality of qualitative health research	Review	Although COREQ providing a comprehensive framework, guidelines might unintentionally compromise the quality and rigor of qualitative research due to their overly prescriptive nature. Despite encouraging rigorous and high-quality research in SRQR, guidelines need regular reassessment and updating to remain relevant and methodologically appropriate, akin to clinical guidelines.
Pearson et al. (2015) [30]	International Journal of Nursing Practice	Notions of quality and standards for qualitative research reporting	Explore the possibility of developing a framework for authors of journals to report the results of qualitative studies to improve the quality of research.	Discussion	Standards of reporting Qualitative Studies must be promoted by high-quality journals to improve qualitative research.
Clark (2003) [31]	Peer Review in Health Sciences	How to peer review a qualitative manuscript	Synthesis of quality criteria for qualitative research and summary of RATS	Synthesis	The quality of qualitative research may be compromised due to peer review demands that are misguided and uninformed.
Salzmann-Erikson (2013) [32]	Nurse Education today	IMPAD-22: A checklist for authors of qualitative nursing research manuscripts	Developing a checklist for authors writing a qualitative nursing research manuscript (focus methods).	Review	4 categories identified 1)Ingress and Methodology; 2)Participants; 3)Approval; 4)Data: Collection and Management 22 item checklist created.
O'Brien et al. (2014) [18]	Academic Medicine	Standards for Reporting Qualitative Research: A Synthesis of Recommendations	To formulate and define standards for reporting qualitative research while preserving the requisite flexibility to accommodate various paradigms, approaches, and methods.	Qualitative reporting guideline	SRQR consists of 21 checklists for reporting qualitative studies.
Hollin et al. (2020) [33]	Tropical medicine and infectious disease	Reporting Formative Qualitative Research to Support the Development of Quantitative Preference Study Protocols and Corresponding Survey Instruments: Guidelines for Authors and Reviewers.	To improve the frequency and quality of reporting, we developed guidelines for reporting this type of research	Guidelines for Authors and Reviewers	The guidelines have five components: introductory material (4 domains); methods (12); results/findings (2); discussion (2); and other (2)
Zachariah et al. (2022) [34]	Tropical medicine and infectious disease	Quality, Equity, and Partnerships in Mixed Methods and Qualitative	To assess the publication characteristics and quality of	Review	SORT IT plays an important role in ensuring the quality of evidence for decision-making to improve public health.

		Research during Seven Years of Implementing the Structured Operational Research and Training Initiative in 18 Countries	reporting of qualitative and mixed-method studies from the Structured Operational Research and Training Initiative (SORT IT), a global partnership for operational research capacity building		
Tong et al. (2012) [35]	BMC Medical Research Methodology	Enhancing transparency in reporting the synthesis of qualitative research: ENTREQ	To develop a framework for reporting the synthesis of qualitative health research	Reporting the synthesis of qualitative research	The Enhancing Transparency in reporting the Synthesis of Qualitative Research (ENTREQ) statement consists of 21 items grouped into five main domains: introduction, methods and methodology, literature search and selection, appraisal, and synthesis of findings.
Tong et al. (2007) [17]	International Journal for Quality in Health Care;	Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups	To develop a checklist for explicit and comprehensive reporting of qualitative studies (in-depth interviews and focus groups)	Qualitative reporting guideline	32 checklist consisting of (i) research team and reflexivity, (ii) study design, and (iii) data analysis and reporting.

Table 4. A comprehensive overview of the content covered within each of these categories.

ARTICLES	Franc e et al. (2019) [21]	Batten and Bracket t (2022) [22]	Chroni c and Rawso n (2016) [23]	Florcz k (2021) [24]	Blignaul t and Ritchie (2009) [25]	Coast et al. (2012) [26]	Levit t et al. (2018) [27]	Misia k and Kurpa s (2022) [28]	King (2022) [29]	Pearso n et al. (2015) [30]	Clark (2003) [31]	Salzmann -Erikson (2013) [32]	O'Brie n et al. (2014) [18]	Holli n et al. (2020) [33]	Zacharia h et al. (2022) [34]	Tong et al. (2012) [35]	Tong et al. (2007) [17]
Title of the paper		✓			✓		✓						✓	✓			
Abstract		✓	✓		✓		✓						✓	✓			
Introduction	✓	✓			✓		✓	✓		✓	✓		✓	✓	✓	✓	✓
Methodology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trustworthiness					✓		✓	✓		✓	✓	✓	✓	✓			
Ethical consideration					✓			✓		✓	✓	✓	✓	✓	✓		
Results					✓		✓	✓		✓	✓		✓	✓	✓		✓
Discussion		✓			✓		✓				✓		✓	✓			
Conclusion	✓				✓			✓		✓							
Strength and limitation	✓				✓		✓				✓		✓	✓			
Recommendation	✓	✓			✓		✓										
Funding		✓	✓				✓						✓	✓			
Reference														✓			
Conflict of interest					✓		✓						✓				

Based on the insights from the selected articles, the reviewers formulated a newly developed reporting guideline that encapsulates the content extracted from all 17 articles based on 14 categories (Table 5).

Table 5. Detail description of Comprehensive Criteria for Reporting Qualitative Research – (CCQR) Guideline.

Topic	Description
1. Title of the paper	• Draws and attracts the reader and entails precisely what the paper covers; must be of relevance to intext content and precise. • Includes type of study
2. Abstract	• Key elements of research including background, introduction, purpose, methodology, results, and conclusion. • Under the abstract to include keywords.
3. Introduction	• Aim/objectives and purpose of the study. • Relevance/ justification of research question, / connection to existing knowledge • Problem statement /rational • Describing existing knowledge
4. Methodology	• Research design/theoretical framework/Research Paradigm • Rationale for chosen methodology. • Study population (Sampling technique, study site, sample size and characteristics, inclusion and exclusion criteria • Data collection (Data collection technique/methods (e.g Indepth interviews, focus group discussions (FGDs)), data collection tools, field notes, audio recording, video recording, data saturation, period of data collection, timing of interview, repeated interviews, interview guide). • Data analysis and data management (Transcription, software, coding, theme generation, coding tree, number of data coders, participant checking and feedback (returning of transcripts to participants), triangulation, data security, data anonymity, changes in methodology). • Reflexivity and researcher's characteristics (researchers' participants relationship). • Reporting guidelines used in reporting the study. • Transparency in all processes.
5. Trustworthiness	• How it is achieved, which techniques were used? • Transparency and credibility. • Member checking through transcription and triangulation. • Congruence between methodology and interpretation of results.
6. Ethical consideration	• Ethical Clearance and ethical approval: Document to be available per request. • Participant's confidentiality and anonymity. • Informed consent and procedure of taking informed consent.
7. Results	• Summary and clear statement of findings • Research findings • Major and minor themes • Narration, quotes, field notes • Diagrams, box, photographs, video links (clear presentation of findings) • Any biases (selection bias, publication bias, heterogeneity) • Interpretation of study results.
8. Discussion	• Summary of major findings and comparison with existing literature and theory. • Alternative explanation of findings. • Implication, transferability, strength, and limitation of study contribution to the field. • Describing implications
9. Conclusion	• Conclusion should come from analysis and interpretation.
10. Strength and limitation	• Strength and limitations • How valuable are the study results?
11. Recommendation	• Recommendation for further studies and to the field
12. Funding	• Source of funding and other support received during the study process. • Role of funders in data collection, interpretation, and reporting Funding source (financial and nonfinancial support). • Financial support for authorship or publication.
13. Reference	• Describe the information sources used/Citations. • Appendix
14. Conflict of interest	• Potential influence on the study and how it was managed.

All the 14 categories are explained in detail below

Title - In five [18,22,25,27,33] of the seventeen selected articles, the importance of the title for reporting is mentioned. Guidelines for qualitative formative research by Hollin et al. [33] and SRQR guidelines by O'Brien et al. [18] highlight the inclusion of the methodology in the title to provide a

clear understanding of the research approach. A review by Batten and Brackett [22] conducted in the United States reinforces these results, underscoring that the title should reflect both the subject and the type of study. Blignault and Ritchie [25], and Levitt et al. [27] emphasize that a title should be attractive, precise, and incorporate key elements of the research. Crafting an effective title ensures that the methodology is communicated and the main focus of the study is conveyed in an engaging and informative manner.

Abstract - Out of the 17 articles selected, six [18,22,23,25,27,33] discussed the importance of an abstract. According to Hollin et al. [33] and O'Brien et al. [18], an abstract should encompass several key elements. These include providing background information, stating the purpose of the study, describing the methodology employed, presenting the results, and summarizing the conclusions drawn. Blignault and Ritchie [25] recommend in their general guidance to write the abstract last by pulling one important sentence or phrase from the main text in each section of the abstract. A study done by Cronin and Rawson [23] emphasizes the importance of including the essential components of study design and results in the abstract. A research report by Levitt et al. [27] recommends stating the problem, research questions, and objectives of the study within the abstract. Additionally, the Journal Article Reporting Standards for Qualitative Research (JARS-Qual) guideline suggests the inclusion of keywords in this section to aid in identifying and indexing the research. By incorporating these elements, an abstract effectively summarizes the main aspects of the study, allowing readers to quickly grasp the research's purpose, methodology, findings, and implications [22].

Introduction- In 11 of the selected articles [18,21,22,25,27,28,30,31,33–35], the introduction section is highlighted as an important reporting criterion. Among these articles, six specifically mentioned that the aim of the study should be embedded within the introduction. Additionally, several articles recommend including the rationale and justification of the research and clearly stating the research problem [21,22,28]. Researchers emphasized that the research question should be articulated, highlighting its relevance and connection to existing knowledge [25,31,33,34]. The SRQR by O'Brien et al. [18] incorporates 21 criteria, including problem formulation and purpose or research question under the introduction. Levitt et al. [27] stress the importance of identifying the target audience in the introduction. A discussion paper by Pearson et al. [30] presents a set of ten standards to evaluate qualitative research and asserts that the alignment between the research question, objectives, and methodology is crucial for effective reporting. Blignault and Ritchie [25] provide recommendations on the length of the introduction, suggesting three to four concise paragraphs for a research paper of approximately 3,500 words. By incorporating these elements, the introduction section sets the stage for the study, providing a clear rationale, research problem, objectives, and alignment between research components, ultimately facilitating a comprehensive and effective reporting of the qualitative research.

Methodology- Methodology is a key component discussed in all 17 articles reviewed. Among them, six [17,18,27,32–34] highlight the importance of providing a clear description of the research design or outlining the study's theoretical framework. Levitt et al. [27], O'Brien et al. [18] and Salzmänn-Erikson [32] emphasized the significance of synthesizing research design. On the other hand, Hollin et al. [33], Tong et al. [17], and Zachariah et al. [34] underscored the importance of the theoretical framework employed in qualitative research. This aids readers in understanding the overall approach and perspective of the research. Additionally, four articles state the significance of justifying the chosen methodology, considering its suitability in addressing the research objectives [25,30–32].

The study population is extensively covered in 10 articles, and it is stressed that a detailed description of the study population is crucial. This includes information on the sampling technique employed, the study site, inclusion and exclusion criteria applied, and the characteristics of the sample [17,18,25,27,29,31–34]. In a peer review by Clark [31] and an editorial paper by Misiak and Kurpas [28], the recruitment strategy of the sample that is aligned with the research objectives is discussed. Transparency in the participant selection process is emphasized by explaining the triangulation in the research report by Levitt et al. [27].

Data collection methods were discussed in 10 articles. The need to specify the techniques and methods employed is highlighted, such as surveys, interviews, field notes, and focus groups, and whether they were pretested for validity and reliability [17,18,27,29,31,33]. Coast et al. [26] delineate the distinction between individual interviews and focus groups, accentuating the former's depth in data collection and analysis, rendering it highly effective, especially for investigating sensitive subjects. In contrast, focus groups, although moderately to highly useful for sensitive topics, pose challenges in data collection, necessitating the involvement of multiple researchers.

The inclusion of details such as interview guides, criteria for data saturation, and information on the duration and timing of interviews, including the potential for repeated interviews, is deemed crucial [17,25,27,31,32,34]. A research report by Levitt et al. [27] specifically discussed open and closed interview guides. Moreover, diverse data collection tools, including emails, phones, face-to-face interactions, etc., are described in Guidelines for Qualitative Formative Research by Hollin et al. [33], SRQR by O'Brien et al. [18], and Ingress and Methodology-Participants-Approval-Data-22 (IMPAD-22) Guidelines by Salzmann-Erikson [32].

About 12 articles have addressed the significance of data analysis and management. Five articles have emphasized the significance of explaining the transcription process of collected data [18,26,27,32,33]. The generation of themes, coding, and coding tree is mentioned, along with the software used, involvement of data coders, and strategies implemented for intercoder reliability [17,18,21,22,27,29,32–35]. The authors consider procedures such as participant checking and feedback [17,27,29,32]. SRQR by O'Brien et al. [18] has also discussed data triangulation, data security, and anonymization. The acknowledgment and justification of any changes made in the methodology during the research process are considered important, as stated in the discussion article by Blignault and Ritchie [25] the guidelines for qualitative formative research by Hollin et al. [33] and the literature review by Levitt et al. [27].

Reflexivity and the characteristics of researchers themselves are suggested in 11 articles. Reflecting on the researchers' backgrounds, biases, and potential impact on the research process and findings adds transparency and credibility to the study [17,18,25–29,31,33,34]. Florczak [24] highlights that the Critical Appraisal Skills Programme (CASP) and qualitative research standards by the Joanna Briggs Institute (JBI), tailored for evaluating qualitative research, have specific objectives in his discussion paper about reflexivity. Despite their divergent emphasis, these frameworks share a common acknowledgment of the importance of reflexivity in the assessment of qualitative studies.

Finally, adherence to reporting guidelines and the commitment to transparency throughout the research process are highlighted. Specifically, the mention of specific reporting guidelines or other relevant standards ensures comprehensive and transparent reporting of the methodology and findings, as highlighted in an editorial paper by Misiak and Kurpas [28]. Selecting a checklist before writing the paper is ideal and will ensure the article has a proper structure and content. A quality criteria synthesis for qualitative research reported that after submission, the paper will be evaluated more quickly as deeper adjustments won't be necessary to conform to the checklist requirements [31].

Overall, these articles underscore the significance of addressing various aspects in the methodology section of qualitative research, such as research design, theoretical framework, study population, data collection methods, data analysis and management, reflexivity, researcher characteristics, and adherence to reporting guidelines. By covering these topics, researchers can ensure transparency, rigor, and trustworthiness in their qualitative research studies.

Trustworthiness - Out of the 17 articles selected, eight [18,25,27,28,30–33] emphasized the significance of maintaining research rigor in qualitative studies. Ensuring trustworthiness in qualitative research is closely tied to providing a transparent account of the data collection process and effective data management and analysis, as highlighted in a general guide for qualitative research reporting by Blignault and Ritchie [25]. According to their perspective, it is advisable to steer clear of using the terms validity and reliability and, instead, employ the concepts of credibility, trustworthiness, and replicability to assess the quality of the research

Credibility can be attained by members checking or engaging in discussions with peers about research findings, interpretations, and various methodological approaches. Additionally, confirming findings with research participants also contributes to ensuring the credibility of the research [18,31,32].

Maintaining transparency, clarity, and a strong foundation in detailing procedures, providing explanations, and justification is required, which allows the reader to comprehensively track the sequence of events, decisions, and the logical processes leading to the research findings [33]. In other words, a transparent presentation of analysis is important to show how interpretation has been made [27]. Pearson et al. [30] believe that maintaining transparency when assessing qualitative research is crucial for its continuous enhancement of 'credibility, transferability, and theoretical possibilities' in their discussion paper.

Furthermore, Levitt et al. [27] claimed it is essential to openly discuss how researchers' perspectives guide their research and acknowledge their position concerning the research topic and studied population, which strengthens the credibility of their claims. The rigorousness of the data analysis should be explained as reported in an editorial paper by Misiak and Kurpas [28].

Ethical consideration - Out of 17 articles, eight [18,25,28,30–34] underline the importance of ethical consideration. Ethical considerations should be considered [28] and a clear description of the ethical approval from the respected authority must be described in the article [18,31–33]. As well as how researchers obtained ethical clearance should be mentioned in the article [25]. A checklist by Salzmann-Erikson [32] for authors preparing qualitative nursing research manuscripts states that data anonymity and consent from participants, either written or verbal, should be taken before the data collection.

Zachariah et al. [34] recognize the importance of ethical considerations by integrating them into the COREQ checklist, emphasizing the need for thorough reporting and ethical conduct in studies. Adhering to rigorous reporting standards is crucial to evaluating the quality of qualitative papers, whether before or after publication. This involves obtaining ethical approval from the relevant body [30].

Results - Results and findings are discussed in nine articles [17,18,25,27,28,30,31,33,34] out of 17. A good qualitative report includes what researchers found from the research and simply writes that in the result section, followed by establishing themes and concepts in the early sections [18,25]. COREQ guidelines by Tong et al. [17] propose that major and minor themes should be established adequately. Researchers need to be specific about the quantity and quality of the information by avoiding including all the information from the database. The use of quotations is important to support findings by simply helping to illustrate the responses and meanings [25,27]. Short quotes can be placed in the body of the text, and longer quotes should be placed in a separate paragraph [25]. Providing a clear statement of the findings [28] and process of data analysis, as well as how themes are derived from the data and interpretation, should align with evidence and be supported by quotes [17,31,33,34]. Pearson et al. [30] assert the importance of coherence between research methodology and result interpretation. Additionally, they emphasize the significance of careful wording and language for effectively conveying results.

Discussion- Among the 17 articles examined, six [18,22,25,27,31,33] specifically addressed the topic of discussion. Reporting guidelines ensure that high standards of documentation are met, that bias is reduced, and that transparency is maintained. Referencing the work of other researchers, including theoretical and empirical literature, is important in a qualitative study, as explained by Blignault and Ritchie [25]. Levitt et al. [27] also describe the main research findings, compare them with previous work or theories, present alternative explanations of findings, compare similarities, and differences with prior findings, and discuss limitations and strengths. Also, Clark [31] said that the findings are presented with the existing literature.

O'Brien et al. [18] have suggested in their SRQR guidelines that the discussion of qualitative findings involves creating linkages to established literature and theoretical or conceptual frameworks, explaining the extent and limitations of the results and the study. Hollin et al. [33] also

explain how discussion points generally include interpretations, implications, transferability, and contributions to the field.

In their review study about reporting guidelines, Batten and Brackett [22] exclusively addressed the topic of bias within the discussion section. Their elucidation indicated that while ENTREQ advocates for the inclusion of bias-related information in the discussion section, PRISMA (Preferred Reporting Items for Systematic and Meta-analyses), and MOOSE (Meta-analysis of Observational Studies in Epidemiology) guidelines prescribe the reporting of biases within the results section.

Conclusion- Out of the 17 selected articles, only four [21,25,28,30] mentioned the conclusion. Blignault and Ritchie [25] explain the importance of reflecting on the big picture in the conclusion section and drawing implications for the research field or future research. A crucial element of Misiak and Kurpa's [28] publication also discussed the research's significance and its value.

The systematic review by France et al. [21] explains how the combined results impact policies, practical implementation, and theoretical perspectives. The researchers Blignault and Ritchie [25] also, see the conclusion section as an opportunity to elaborate further on reflexivity. Pearson et al. [30] state in their recommended set of standards for qualitative papers that the conclusion should relate to the analysis or interpretation of the data.

Strength and limitations- Among the 17 articles, only six [18,21,22,25,31,33] addressed the aspects of reporting strengths and limitations. O'Brien et al. [18] advocated that within the discussion section, it is essential to address the research's trustworthiness and acknowledge the inherent limitations associated with the research. Blignault and Ritchie [25] recommended summarizing the positive aspects of the study and discussing the potential implications for health promotion and policy and practices in future research. Researchers are advised to include the study's limitations to enhance credibility, as Clark [31] stressed, who highlighted the importance of acknowledging factors like a small sample size. The systematic review by France et al. [21] reinforced that examining strengths and limitations is crucial for understanding their impact on the study's final results.

Simply put, assessing how the quality, source, or nature of data and the analytical process can either bolster or undermine methodological integrity is crucial [22]. Also, Hollin et al. [33] pointed out that unexpected findings must be documented and validated with appropriate limitations considering the study's context. O'Brien et al. [18] emphasize that within the discussion section, it is essential to address not only the trustworthiness of the results but also acknowledge the inherent limitations associated with them.

Recommendation- Among the 17 chosen articles, four [21,22,25,27] underscore the significance of including recommendations in the reporting process. Reporting recommendations should not only detail the implications of the findings on various policies and practices but also pinpoint areas necessitating further primary or secondary research [21,22,27]. It is imperative to consider that recommendations should authentically derive from the overall findings rather than mere wishful thinking, as explained in the discussion paper by Blignault and Ritchie [25].

Funding- Five of the chosen articles [18,22,23,27,33] have addressed the significance of disclosing funding details in research publications. Some reviewed articles recommend stating the source of funding in the research paper [18,22,27,33]. Furthermore, Batten and Brackett [22], and Hollin et al. [33] have also highlighted that any other support or assistance should be declared. A review paper by Cronin and Rawson [23] emphasizes reporting on financial endorsement for authorship or publication. By providing this information, researchers ensure transparency and uphold the integrity of their qualitative research, addressing any potential conflicts of interest and external influences.

Conflict of interest- Three articles [18,25,27] mention conflicts of interest and their potential influence on the study. An article by Blignault and Ritchie [25] mentioned copyright restrictions and legal rights. Conflicts of interest are discussed in the article as a potential influence on decision-making [27]. Additionally, the SRQR guidelines by O'Brien et al. [18] underscore strategies for effectively dealing with conflicts of interest, ensuring transparency, accountability, and unbiased decisions.

Reference- Only one [33] of the seventeen articles highlighted the importance of references. Hollin et al. [33] assert that citing supporting details along with reference materials in the form of an appendix enhances the transparency of the formative process in qualitative research.

4. Discussion

The CCQR guidelines encompass 14 categories, enhancing their comprehensiveness for researchers. It is emphasized that a paper's title should captivate the reader and entail precisely the covered content, specifying the type of study. Similarly, the abstract should encapsulate key research elements such as background, introduction, purpose, methodology, results, and conclusion. Tai and Ajjawi's [15] findings further underscore the importance of an articulated title and a structured abstract. The CONSORT Statement of 2010, known as a prominent guideline for enhancing the reporting of randomized controlled trials in quantitative research, corroborates these findings [36]. Moreover, the study advocates for a comprehensive background and the reporting of coherent research objectives within the introduction section which is also suggested by Schulz et al. [36].

The articles under review underline the significance of a well-defined research design, theoretical framework, and methodological rationale. Similarly, Kline [37], in his book "Becoming a Behavioral Science Researcher" and Maxwell [38], in his book "Qualitative Research Design" further emphasize the importance of clear descriptions of research design and theoretical frameworks, aiding readers in understanding the study's approach and perspective. On the contrary, Nguyen et al. [39] argue that newcomers to the field of research often encounter difficulties when attempting to integrate theory into qualitative research, leading to potential issues such as limited utilization, excessive dependence, or incorrect implementation of theoretical frameworks. There is a clear demand for accessible advice on effectively leveraging theory to shape and support the execution of qualitative research [39].

The reviewed articles extensively cover the study population, providing details on sampling techniques, study sites, sample sizes, characteristics, inclusion and exclusion criteria, and the relationship between researchers and participants. The book "Qualitative Research and Evaluation Method" written by Patton, [40] stresses the necessity of broad descriptions of study populations, including sampling techniques, ethical considerations, and contextual details. Additionally, the study conducted by Turcotte-Tremblay and Mc Sween-Cadieux [41] in West- Africa presents a contrasting viewpoint regarding the extensive documentation of study populations. They contend that an overly detailed description of the study population can lead to confidentiality and privacy issues, especially in sensitive research areas. The results also highlight the importance of ensuring sample anonymity and maintaining data security. Turcotte-Tremblay and Sween-Cadieux [41] suggest that researchers must devise and implement methodologies that uphold their commitment to safeguarding confidentiality, all the while effectively communicating potentially sensitive findings.

The results underscore the significance of various data collection aspects, encompassing techniques, tools, saturation, interview timing, and guide use. This aligns with prior discussions accentuating the necessity for specific methods, rigorous pretesting, and comprehensive documentation [42,43]. Additionally, the findings emphasize the crucial role of data analysis and management, supported by Miles et al. [44], who highlight transparency, coding tools, and ethical considerations. Expanding on the researcher's role, Charmaz [45] prompts reflection on backgrounds, biases, and potential impacts on the research process and findings. The reviewed articles stress the importance of following research reporting guidelines in reporting qualitative research. Altman and Simera [46] highlight that adherence enhances comprehensiveness and transparency in health research publications, allowing readers to critically evaluate them.

Our findings demonstrate the importance of trustworthiness in ensuring the rigor of the research. One of the methods to increase trustworthiness is by providing transcribed interviews or finished analysis back to the participant. These findings do not corroborate the previous study by Morse [42], which is a critical analysis of rigor in qualitative inquiry. According to Morse [42], member checking should not be employed as a strategy to check validity, as the process might bring several challenges for the researcher. Our study suggests that terms like validity and reliability

should be avoided in qualitative research, and instead, the focus should be on credibility and replicability, while Morse [42] gave more emphasis on using the terms validity and reliability.

This study's findings emphasize ethical clearance and consideration, encompassing various aspects of ethical approval, confidentiality, and anonymity, and documenting ethical committee decisions and approval. The Guidelines by Wu et al. [47] for Manuscripts Reporting on Qualitative Research also advocate a similar claim that research manuscripts on studies with human participants must state approval by the Institutional Review Board, describe informed consent procedures in the method section (oral or written), and outline steps taken for participant confidentiality or anonymity [47]. Tate and Douglas [48] stand firm in reporting ethical approval to conduct a study, even if some checklists do not include ethical considerations.

The research conducted delineates a clear summary and statement of the findings supported by evidence such as quotes, themes, photographs, field notes, etc. Similarly, a study by Wu et al. [47] also declares that the results section should be highlighted with extracted themes from the analysis, ensuring quotes precisely and appropriately reflect the conveyed theme, topic, and concept. However, the study failed to mention major and minor themes, uses of field notes, and video links [47]. Our study highlighted that interpreted information should be supported by evidence, such as quotes, which enables the reader to determine transparent reporting. These findings align with previous studies [10]. Our findings are supported by Rowan and Huston [49], who stated that it is crucial to present the major discoveries, respond to the research question, and explore their implication within the discussion section. PRISMA guidelines by Page et al. [50] suggested discussing the practical, policy, and research implications of the results using information from existing evidence, addressing any limitations in evidence, or reviewing processes that align with our study. The study's main findings should be summarized, and the contribution to the learning from the study should be highlighted [51]. The findings of the study should be integrated with previous research, noting contributions, assessing the applicability to a variety of settings, addressing strengths and limitations, presenting the results, taking into account the researcher's impact, examining potential bias, and examining how their expertise affects design, development, and interpretation [51], which is similar to our findings.

The strengths and weaknesses of the study relating to the contribution to the field should be reported in the discussion section, which is aligned with the information given in previous studies by Rowan and Huston [49] and Van Tulder et al. [52] in their descriptive method guidelines provide extra recommendations for evaluating clinical relevance and reporting results and conclusions which endorse our findings and highlight the significance of disclosing funding and resource details. This emphasis aligns with the PRISMA statement, which offers essential guidance for conducting systematic reviews. Notably, the PRISMA checklist for abstracts explicitly incorporates the reporting of funding details, further reinforcing the conclusions drawn in this article [50]. Our findings are also supported by the guidelines for reporting on empirical social science research by Duran et al. [53], who affirmed that sources of funding should be added to the research paper, and in cases where names cannot be attached, a complete description should be included.

Our study recommends proper citation of references and incorporation of an appendix. Comprehensive referencing empowers readers to identify and locate the sources utilized to justify the research study, verify the methods used, and comprehend the interpretation of results and study implications [54], aligning with our findings. Malterud [55] asked the authors to check whether the key and specific sources in the field had been included and whether they had been accurately presented and utilized in the text. In this study, the examined literature indicates the importance of disclosing conflicts of interest, aligning with the Standards for Reporting on Empirical Social Science Research outlined by Duran et al. [53]. According to these standards, a description of any potential conflicts of interest or biases of the researcher should be included that may have influenced or appeared to influence the research, along with how they were managed [53].

In this review, we have included only articles published in the English language, which may introduce a language bias and could limit the diversity of the reviewed literature.

Future investigations in the field can focus on establishing specific criteria for framing the conclusion section in research manuscripts and providing detailed guidelines for selecting and citing references. Subsequent iterations may see researchers delving into the theoretical dimensions of qualitative research reporting, ensuring that guidelines keep pace with the evolving landscape of research methodologies and practices. Recognizing the growing importance of qualitative research, it may be beneficial to develop specialized reporting guidelines tailored to specific domains within qualitative research, such as ethnography and phenomenology. This collaborative and adaptive approach may be a cornerstone for continuously improving qualitative research reporting guidelines.

5. Conclusions

The newly developed guideline CCQR integrates elements from all the articles included in the structured table. CCQR encompasses essential aspects, including the research's objective, the existing body of knowledge related to the topic, the rationale behind the chosen research methodology, conclusions, recommendations, and reference citations. By adhering to CCQR, researchers can enhance the quality and transparency of their qualitative research endeavors. Ultimately, strict adherence to CCQR and similar guidelines bolsters qualitative research's overall quality and transparency.

Our research has thus culminated in the creation of a robust reporting guideline that will serve as a valuable resource for the qualitative research community, enhancing the transparency, consistency, and overall quality of reporting in this field.

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