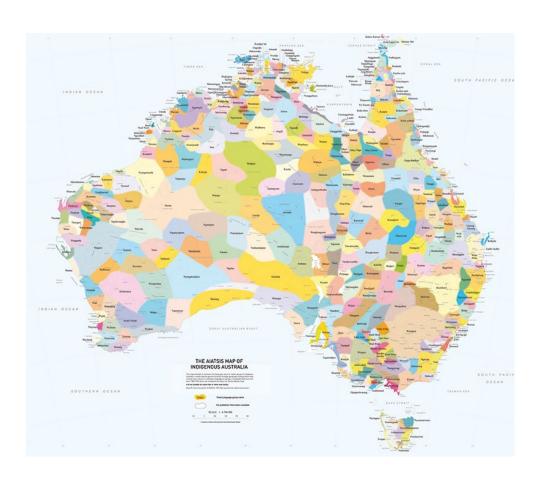


Qualitative Research Introduction Dr Husna Razee

Presentation for StepUp team 29th November 2024

Acknowledgement of Traditional Custodians



I begin with respectful acknowledgement of the Traditional Custodians and Traditional Owners of the lands on from where I ampresenting this.

I pay my respects to Elders past, present and emerging and acknowledge that these lands were never ceded and respect their sovereignty.



Organization of presentation

- 1. What is qualitative research
- 2. Relevance of qualitative research to the StepUp initiative
- 3. Methods of data collection
- 4. Sample size and sampling in QR
- 5. Ensuring rigour
- 6. Brief overview of qualitative analysis



The qualitative approach



The goal of qualitative research is to develop concepts which helps us to understand social phenomena in a natural (rather than experimental) setting, giving due emphasis to meanings, experiences and views of all the participants" (Pope & Mays, 1995, p.43)



The qualitative approach

The goal of qualitative research is to develop concepts which helps us to understand social phenomena in a natural (rather than experimental) setting, giving due emphasis to meanings, experiences and views of all the participants" (Pope & Mays, 1995, p.43)

StepuP objectives

- ✓ Understand the mechanisms that underpin transfer from improvements in gait to improvements of mobility in daily life in people with PD
- ✓ Understand for whom treadmill training does improve lab-based gait characteristics and for whom it does not and understand for whom treadmill training does improve mobility in daily life and for whom it does not.

Medium term: targeted allocation of interventions

Long term: Personalization of interventions → improve

outcomes for all



The qualitative approach

The goal of qualitative research is to develop concepts which helps us to understand social phenomena in a natural (rather than experimental) setting, giving due emphasis to meanings, experiences and views of all the participants" (Pope & Mays, 1995, p.43)

StepuP Project

Participant Engagement and Process Outcomes

- ✓ Acceptability of intervention
- ✓ Usability issues
- ✓ Barriers and enablers to long term intervention



Why qualitative research in health? (Ritchie, 2001)

- 1. Understand *meanings* and *interpretations* people give to their behavior.
- 2. In-depth explanations of social determinants of health and disease
- 3. Elaborate causal relationships documented by epidemiological and clinical research
- 4. Provide contextual data to improve the validity and cultural specificity of quantitative survey instruments.

StepuP Project Participant Engagement and Process Outcomes

- Acceptability of intervention
- ✓ Usability issues
- ✓ Barriers and enablers to long term intervention

When to use QR



To better understand any phenomenon about which little is known.



To gain new perspective on things about which little is known.



To gain more in-depth information that may be difficult to uncover through quantitative means.



Appropriate to identify variables that may later be tested quantitatively.



Used in situations where the researcher determines quantitative measures cannot adequately describe or interpret a situation.





Qualitative Data Collection Methods

Interviews



Photo by LinkedIn Sales Solutions on Unsplash

Focus Group Discussions



Photo by Redd on Unsplash

Document Reviews



Photo by Annie Spratt on Unsplash

Observations



Photo by Some Tale on Unsplash

Data Collection Method for StepUp

Interviews using semistructured interview guide

Experiences of persons with PD regarding intervention

- ✓ Acceptability of intervention
- ✓ Usability issues
- ✓ Barriers and enablers to long terms intervention

Interviews



Photo by LinkedIn Sales Solutions on Unsplash



Approach/ tradition/ framework	Research purpose	Data collection methods	
Phenomenology	Describe individuals' lived experiences of a phenomenon and the meanings assigned to that experience/ phenomenon	Interviews, personal documents (diaries)	
Ethnography	Describe the cultural characteristics of a group of people and describe cultural scenes.	participant observation, interviews, artifacts and texts	
Grounded theory	Generate and develop theory	Interviews, focus	
Case studies	Provide a detailed account of one or more cases	groups, participant observation, artifacts and texts	
Participatory Action Research	Produce knowledge and action directly useful to research participants. Empower people through construction and use of participants' knowledge.	Interviews, participant observation, focus group discussion, life history	
Descriptive qualitative methodology	Describe individual experiences, perceptions, etc	Interviews, FGDs	

Refs: Patton 2002, p. 41

Sampling



Selecting individual groups or texts for study

'Logic of probability' sampling - permit generalisation to population

'Logic of non-probability' or purposive sampling - to select *information-rich* cases for in-depth understanding

Sample size is less important than the 'make-up' of the sample.



Sampling



Sample size is less important than the 'make-up' of the sample.

✓ Participants of diverse demographic characteristics included: age, socioeconomic background, sex, stage of PD, cultural & linguistic backgrounds, etc.



When do we stop sampling?



Saturation: when no new information is repeated by different participants

Flexibility – design must be flexible enough to evolve as the study progresses

Choice of specific sampling technique is determined by the research question(s) and phenomenon of interest/ type of participants

Saturation in terms of reaching the point of no new data is a contested concept



Sample size for StepUp

	SDTT	SDTT+VR	SDTT+P	SDTT+VR+P
Sydney	5			10
Kiel	5		10	
Tel Aviv	5	5		
Bologna	5	5		
Total	20	10	10	10

Sample size of 9-17 interviews achieved saturation.

Average of 12-13 interviews achieved saturation.

4-8 focus groups

Ref: Hennink, M & Kaiser, B.N. (2022), Sample sizes for saturation in qualitative research: A systematic review of empirical tests, *Social Science & Medicine*, 292



What is analysis of qualitative data?

"Process of creating meaning" (Green et al 2007, p.546) Systematically organizing and managing data usually in the form of words

Making sense of the data in relation to the research question posed through

- ✓ breaking the text down into meaningful chunks (analysis)
- ✓ reassembling it into a meaningful new whole (synthesis) ie. concepts/ theory building



Common qualitative data analysis method



CONTENT ANALYSIS



THEMATIC ANALYSIS



ETHNOGRAPHIC CONTENT ANALYSIS



DISCOURSE ANALYSIS

Common methods of qualitative data analysis

- ✓ Content analysis counting occurrences within categories (counting occurrences e.g. number of times 'risk' used in a media article. Does not lend itself to making sense of less structured data)
- ✓ Thematic analysis common patterns or threads themes
- ✓ Ethnographic content analysis instances of meaning (meaning emerges in wider context of interview or observation ie. what before and after and number of times occurred).
- ✓ Discourse analysis pays attention to form, that is how people say something, not just the content of what they say.

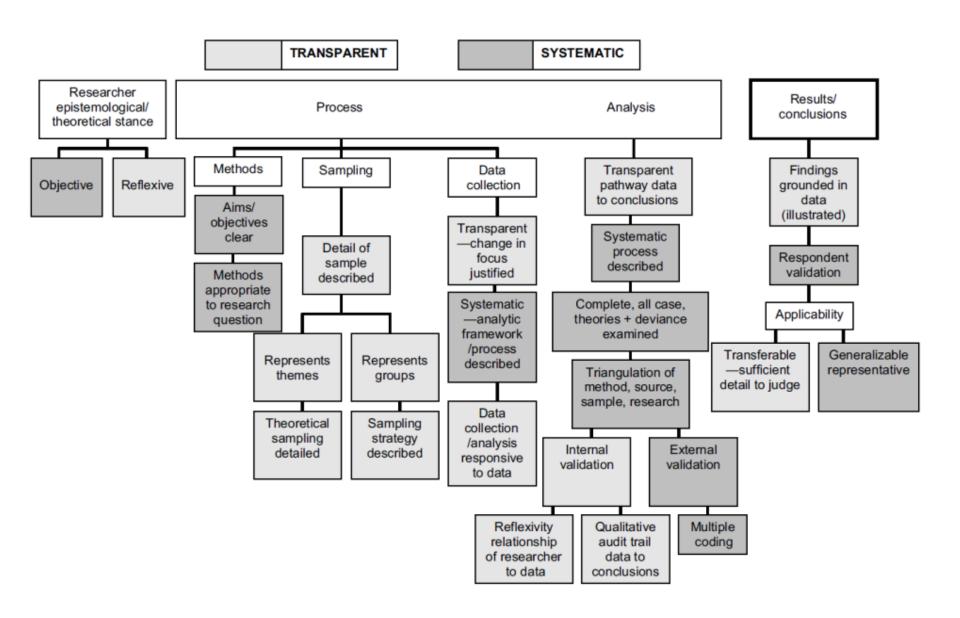


Iterative process

Data collection and analysis in qualitative research is often an iterative process with the early identification of themes or concepts in the data helping to direct future data collection – actively look for further instances to confirm a pattern or emerging hypothesis, but keep open to new events, themes or instances of meaning (Patton, 2002; Strauss and Corbin, 1990).



Quality Framework for Qualitative Research



Rigour

Audit trail

Triangulation

Respondent validation

Attention to negative cases

Reflexivity

Fair dealing

Trustworthiness and credibility



Audit trail – procedural rigour



Clear account and systematic documentation of steps taken – audit trails - help establish credibility



Addresses the following:

- ✓ How access was gained
- How researcher approached and presented themselves to participants
- ✓ Development of trust and rapport
- ✓ How mistakes and surprises are dealt with
- ✓ How the data were collected and recorded
- ✓ Method of data coding and analysis
- ✓ Production of report



Reflexivity



Clarify researcher's beliefs and values



Reflection on your actions and role in the research process



Reflexive questions:

Do the researcher and the researched share a common language?

What about differences of gender, culture, class, age,

education etc?

What does this mean in terms of data collection and

interpretation?



Acknowledges the role of the researchers and the research in the setting, context and culture they are attempting to study – the 'I' in the study.



Ensuring rigour in StepUp Qual Component - suggestions

Interview process

- ✓ Ensuring adequate probing to elicit rich data important
- ✓ Training of interviewers unless interviewers already have experience in qualitative interviewing

Husna to supervise process

- ✓ Review of first 1-2 interview transcripts
- ✓ Discussion with interviewer on what can be improved in following interviews



Ensuring rigour in StepUp Qual Component - suggestions

Analysis of data

- ✓ Decide on what process to follow inductive or deductive or both
- ✓ Who will code data? One person or each site codes their own data?
- ✓ Drawing up a coding framework

Husna to supervise/coordinate process

- ✓ Regular meetings with coders to ensure coding of data is through consensus
- ✓ Development of themes through a consensus process between team members







References

Kumar, R. (2005) Research Methodology A Step-by-step Guide for Beginners, 2nd edition, Pearson Education, Australia.

Leedy, P. D., & Ormrod, J. E. (2005). Practical research: Planning and design (8th ed.). Upper Saddle River, NJ: Prentice Hall

Meyrick, J. (2006). What is good qualitative research? A first step towards a comprehensive approach to judging rigour/quality, *Journal of Health Psychology*, 11(5): 799 - 808

Patton, M. (2002). Qualitative Research and Evaluation Methods. 3rd Edition, Sage Publications, p. 41

Pope, C. and Mays, N. (1995) Qualitative Research: Reaching the Parts Other Methods Cannot reach: an Introduction to Qualitative Methods in Health and Health Service Research, *British Medical Journal* 311: 42-45 (1 July)

Ritchie, J. (2001). Not everything can be reduced to numbers. In Bergland, C. (Ed). (2001) *Health Research*. Melbourne Oxford University Press

Strauss, A & Corbin J. (1998). Basics of Qualitative Research, second edition. Sage Publications Inc.

Strauss, A., & Corbin, J. (1990). Basics of qualitative research: Grounded theory procedures and techniques. Sage, Newbury Park, CA

