

Introduction to Qualitative Research Design & Methods

Mary Wells
AHSC Starting out in research course



What is qualitative research?

A naturalistic interpretive research approach, concerned with understanding the meanings people attach to phenomena such as actions, decisions, beliefs and values within their social world

(Richie and Lewis, 2003)

Common assumptions about qualitative research

Small scale

Touchy
feely

Common
sense, not
research

Not generalisable

Lacks reliability
and validity

Not scientific

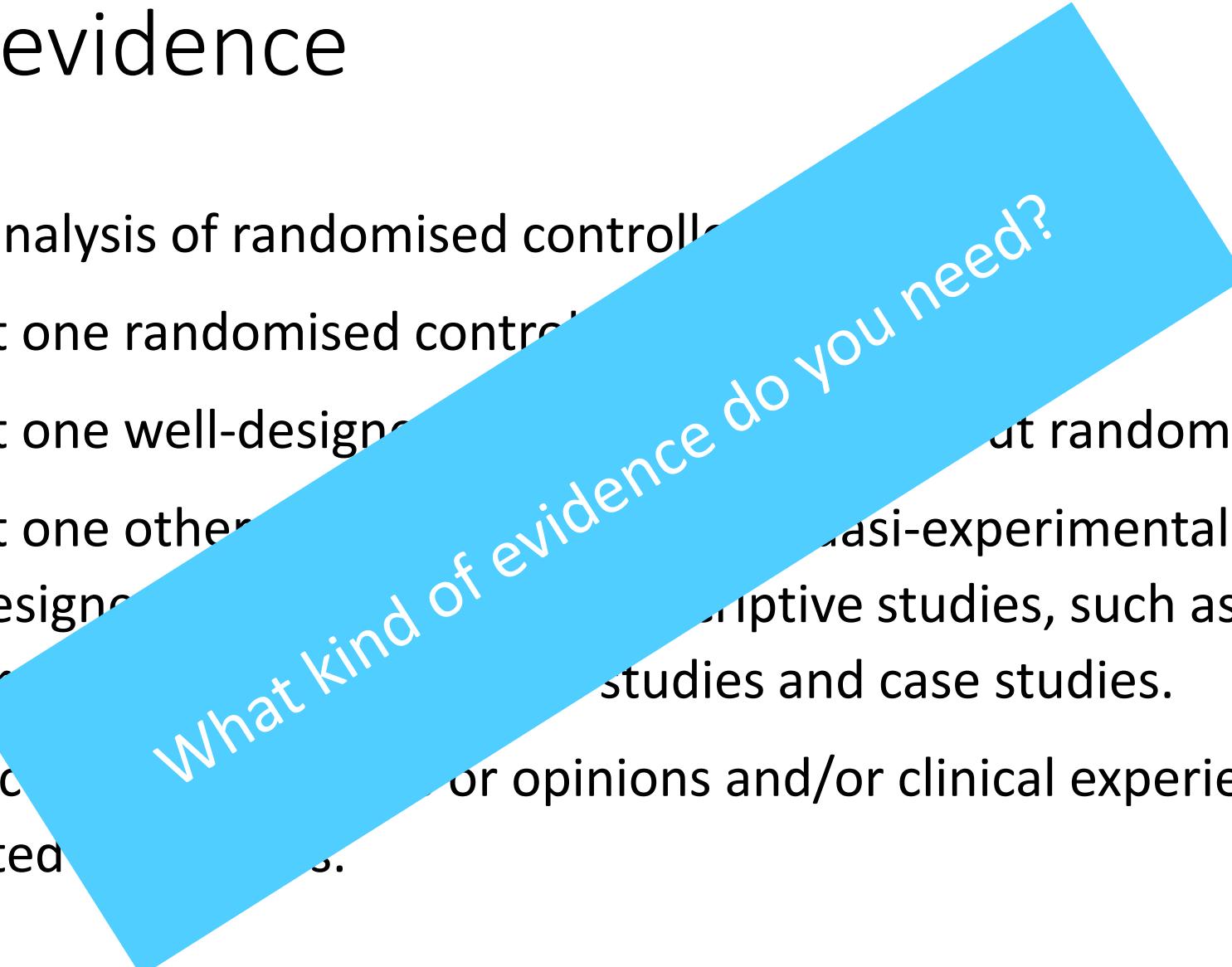
Hierarchy of evidence



QUALITATIVE
RESEARCH
?

Level of evidence

- Ia* Meta-analysis of randomised controlled trials.
- Ib* At least one randomised controlled trial.
- IIa* At least one well-designed controlled trial without randomisation.
- IIb* At least one other type of quasi-experimental study.
- III* Well-designed descriptive studies, including case reports, comparative studies, and case series.
- IV* Expert clinical opinion or opinions and/or clinical experiences of respected practitioners.

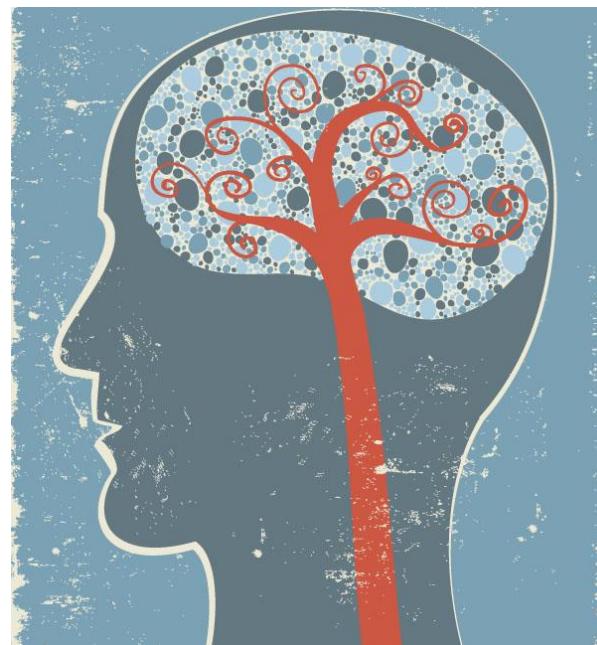


The goal of all research in health technology assessment should be to establish knowledge about which we can be reasonably confident....Therefore, decisions about whether qualitative or quantitative methods are most appropriate to a particular research problem should be made on the basis of **which approach is likely to answer the question most effectively or efficiently** (HTA 1999)

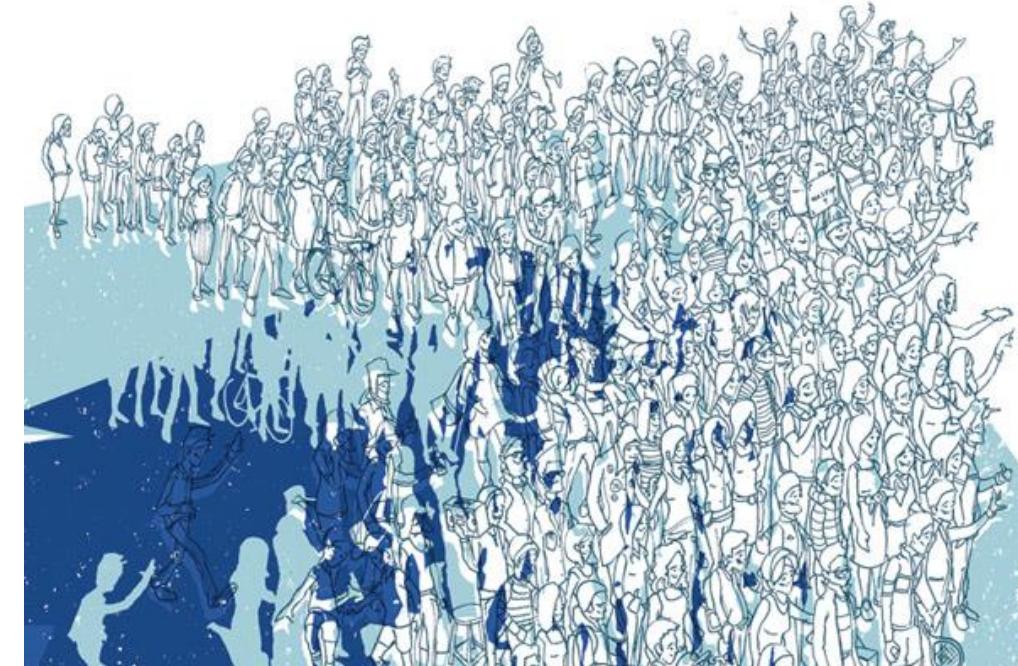
Methodologies cannot be true or false, only more or less appropriate (Atkin & Chatoo 2006)

What types of questions can qualitative research answer best?

Why?



In what
way?



How?



?

Use A Qualitative Approach To.....

- Identify and explore people's feelings, beliefs and experiences
- Understand why certain things happened in the way they did
 - behaviours, processes
- Generate new theory
- Generate hypotheses to be tested later
- Gather data in a naturalistic setting

Qualitative research is not the same as PPI

Doria *et al.* *Research Involvement and Engagement* (2018) 4:19
<https://doi.org/10.1186/s40900-018-0102-6>

Research Involvement
and Engagement

COMMENTARY

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We distinguish these two types of activities by using different terms for each. We use *focus groups* to refer to research activities, and *discussion groups* to refer to patient engagement activities. In focus groups, researchers collect data by speaking with a group of research subjects about their experiences. Researchers use this information to answer research questions and share their findings in academic journals and gatherings. In patient engagement, discussion groups are a way for patients to help plan research projects. Their contributions are not treated as research data, but instead they help make decisions that shape the research process. We have found that using different language to refer to each type of activity has led to improved clarity in research planning and research ethics submissions.

But patients can be involved in qualitative research

Public and Patient Participation (PPP)

Taking part in a research study – focus group, interview, questionnaire.

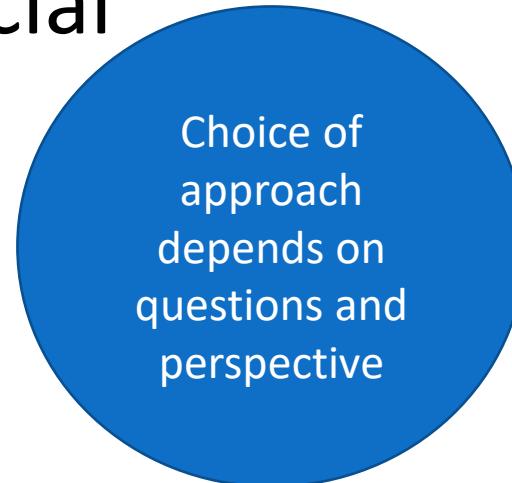
Patient and Public Involvement (PPI)

Doing research ‘with’ or ‘by’ people who use services rather than ‘to’, ‘about’ or ‘for’ them – involved in choice of topics, design, advising on the project, carrying out research

Co-design approaches are more likely to be qualitative

Qualitative research approaches

- Qualitative research covers a very broad range of philosophical underpinnings and methodological approaches
- Ontology – beliefs about the nature of the social world and what is known about it
- Epistemology – beliefs about the nature of knowledge and how it is obtained



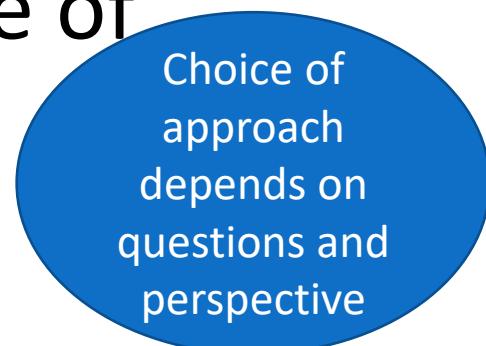
Choice of approach depends on questions and perspective

Qualitative research

- What is reality?
- The Guardian's 1986 'Points of view' advert

Qualitative research approaches

- Ethnography – immersion in a social world, observation
- Phenomenology – focus on structure and essence of experience of a phenomenon
- Grounded Theory – generation of a theory
- Case Study – detailed examination of one or more social units within their context
- Action Research – focus on solving a problem in action



Choice of approach depends on questions and perspective

Qualitative Methods

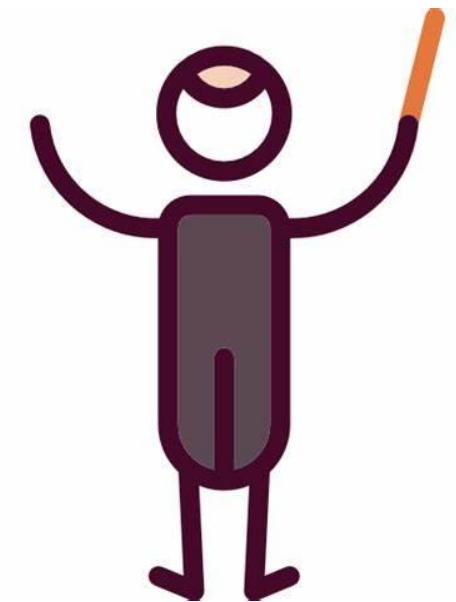
- Participant observation
- In depth interviews ★
- Focus groups ★
- Discourse/conversation analysis
- Documentary analysis



Verbatim transcripts, codes, themes,
interpretation



Triangulation



The researcher IS the instrument

- Important to be aware of own influence on data collection and analysis
- **Reflexivity** “challenges the status quo through a continuous process of questioning, examining, accepting and articulating our attitudes, assumptions, perspectives and roles” Barrett et al 2020
<https://onlinelibrary.wiley.com/doi/epdf/10.1111/tct.13133?samlefferrer>
- Different interviewing styles elicit different responses
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4539962/>

Family Practice
© Oxford University Press 2000

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The ‘doctor’ or the ‘girl from the University’? Considering the influence of professional roles on qualitative interviewing

Helen Richards and Carol Emslie

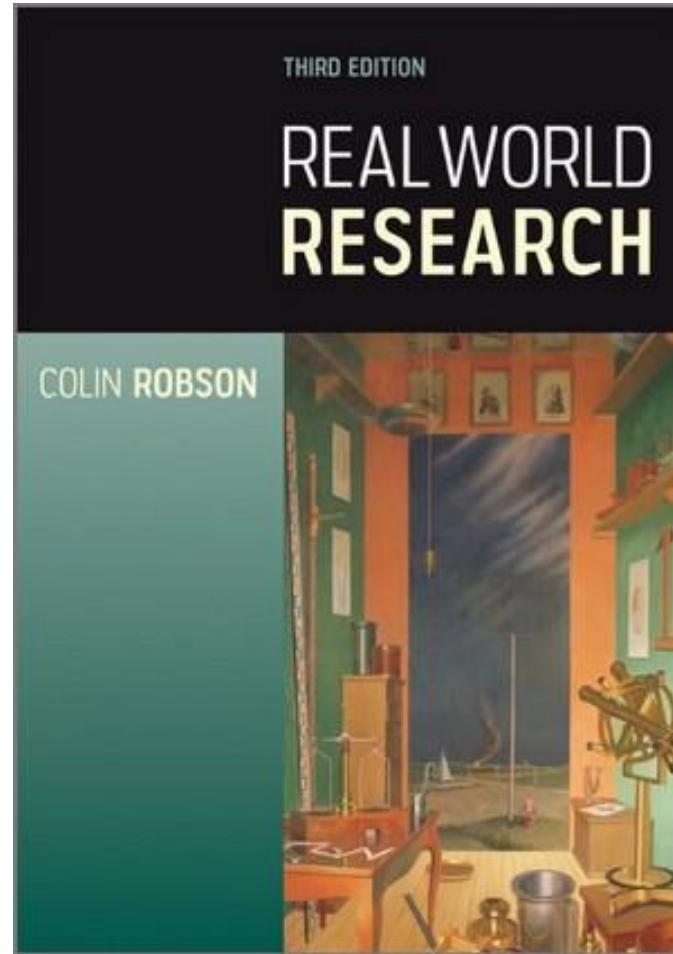
Richards H and Emslie C. The ‘doctor’ or the ‘girl from the University’? Considering the influence of professional roles on qualitative interviewing. *Family Practice* 2000; **17**: 71–75.

The qualitative interview

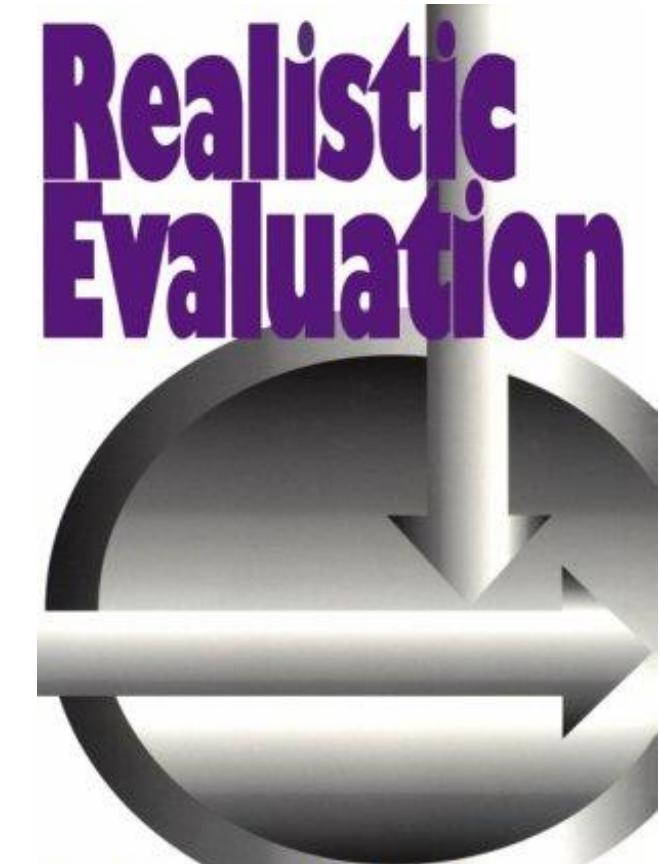
- Listen to how the researcher is interviewing this man
- What techniques is she using?
- How successful do you think they are?
- What is your sense of this interview?
- What did you think was done well?
- And not so well?

<https://healthtalk.org/living-and-beyond-cancer/sense-of-identity-or-self-image>

Qualitative research aims to reflect the real world



What works, why
does it work, for
whom and in what
circumstances?



Qualitative vs quantitative research

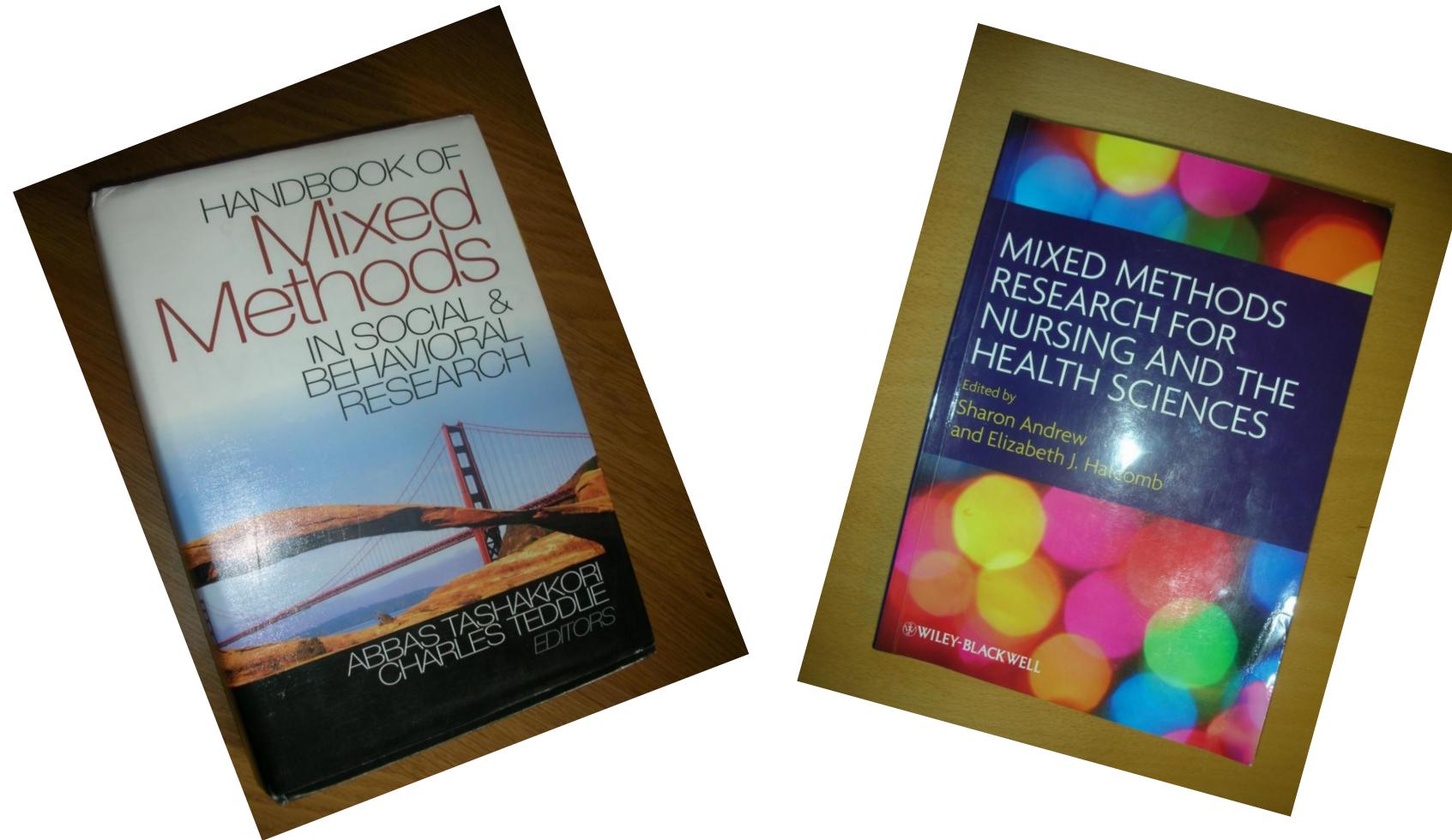
Qualitative Research

- Subjective
- Naturalistic
- Holistic
- Descriptive
- Conceptual
- Inductive
- Post positivist

Quantitative Research

- Objective
- Reductionist
- Experimental
- Scientific
- Deductive
- Controlled
- Positivist

Not necessarily an either/or...



Sampling in qualitative research is different



Characteristics of qualitative sampling

	Sample aims	Sample requirements	Sample type
Qualitative	In-depth exploration Data in context	Map diversity, include key groups and dimensions Smaller sample size	Purposive: Deliberate selection on basis of known characteristics
Quantitative	Measure extent Statistical correlations	Statistical representation exact mirror of population Large sample size, robustness of estimates	Random probability

Sampling in qualitative research

- 4 sampling techniques:
 - purposive
 - theoretical
 - convenience
 - snowballing

Purposive or criterion-based sampling

- Sample is selected with a **purpose** to represent a type in relation to key **criterion** that is suspected to be relevant.
e.g. socio-demographics, experiences, behaviours, roles
- Two aims:
 - key criteria are represented
 - diversity within each criteria
- Different approaches: homogenous, heterogeneous, extreme case, key informants

Theoretical sampling

- Sample based on their **potential contribution** to development and testing of theoretical constructs
- Associated with development of grounded theory
 - initial sample selected
 - data analysed
 - further sample selected to refine emerging categories and theories
- Useful in exploratory research where little is known about particular phenomena

Snowballing and convenience sampling

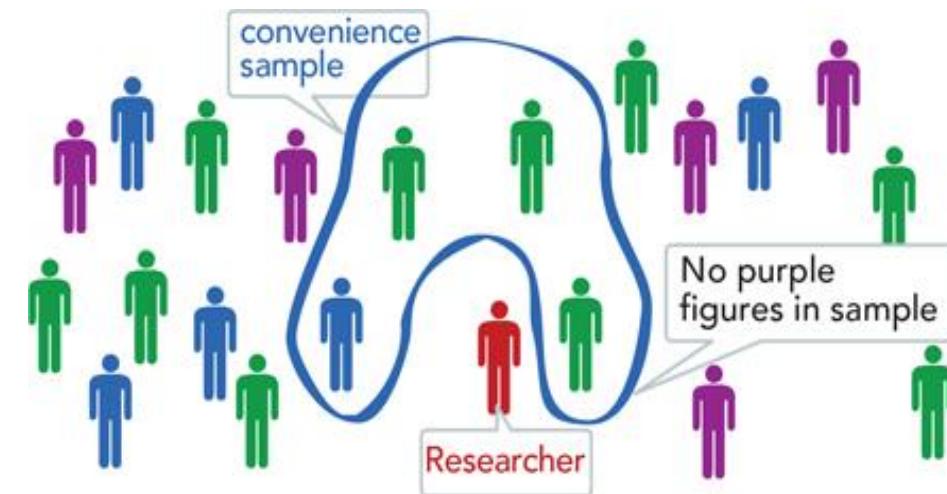
Snowballing:

- Series of introductions to a new sample from research participants
- Useful for hard to reach groups



Convenience:

- Chooses sample according to ease of access
- Lacks clear sampling strategy



RESEARCH ARTICLE

Everyday
16-monthAxel Wolf^{1,3*}, Inger Ekr**Abstract**

Background: Modern health care may be driven primarily by the practices of professionals rather than the design of the care environment.

Methods: Ethnographic methods were used. Researchers working in a primary care setting took place with registered patients. Interviews were conducted with three assistant nurses.

Results: We identified patients and healthcare professionals with modest capacity for self-care. This resulted in feelings of helplessness.

Conclusions: The care environment may be characterized by a lack of communication between biomedical and person-centred care. This may result in increased moral stress among those involved.



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OPEN ACCESS

Citation: Notenboer A, Roelen CAM, van Rhenen W, Groothoff JW (2016) Focus Group Study Exploring Factors Related to Frequent Sickness Absence. PLoS ONE 11(2): e0148647. doi:10.1371/journal.pone.0148647

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RESEARCH ARTICLE

Focus Group Study to Explore Factors Related to Frequent Sickness Absence

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Introduction

Research investigating factors related to frequent sickness absence from the workplace is scarce.

Methods

We performed a qualitative study with frequent sickness absences. Focus groups were analyzed with the Grounded Theory method.

Results

Many participants reported frequent sickness absence due to home demands, personal responsibility to attend to family members, and improving communication with the employer.

Adherence to medication in stroke survivors: A qualitative comparison of low and high adherers

Julie A. Chambers¹, Ronan E. O'Carroll¹*, Barbara Hamilton¹, Jennifer Whittaker¹, Marie Johnston², Cathie Sudlow³ and Martin Dennis³

Objectives. The aim of this study was to investigate factors that may explain variance in adherence to medication in stroke patients.

Design. A qualitative comparison of high and low adherers to medication.

Methods. Thirteen participants, selected from a sample of 180 stroke survivors because they self-reported the lowest adherence to medication regimes, were matched with 13 reporting maximal adherence. All took part in semi-structured qualitative interviews.

Results. Thematic analysis revealed that those with poor adherence to medication reported both intentional and non-intentional non-adherence. Two main themes emerged: the importance of stability of a medication routine and beliefs about medication and treatment. High adherers reported remembering to take their medication and seeking support from both family and health professionals. They also had a realistic understanding of the consequences of non-adherence, and believed their medicine did them more good than harm. Low adherers reported forgetting their medication, sometimes intentionally not taking their medication and receiving poor support from medical staff. They disliked taking their medication, had limited knowledge about the medication rationale or intentions, and often disputed its benefits.



Qualitative research contributes evidence at various levels



Synthesis of the qualitative evidence

Psycho-Oncology

Psycho-Oncology (2012)

Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: [10.1002/pon.3148](https://doi.org/10.1002/pon.3148)

Review

Supporting ‘work-related goals’ rather than ‘return to work’ after cancer? A systematic review and meta-synthesis of 25 qualitative studies

Mary Wells^{1*}, Brian Williams², Danielle Fimigl³, Heidi Lang¹, Joanne Coyle³, Thilo Kroll³ and Steve MacGillivray³

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Abstract

Background: This study aimed to systematically review and synthesise qualitative studies of employment and cancer.

Methods: A rigorous systematic review and meta-synthesis process was followed. A total of 13 233 papers were retrieved from eight databases; 69 were deemed relevant following title and abstract appraisal. Four further publications were identified via contact with key authors. Screening of full texts resulted in the retention of 25 publications from six countries, which were included in the synthesis.

Qualitative research also contributes here



O'Cathain *et al.* *Pilot and Feasibility Studies* (2015) 1:32
DOI 10.1186/s40814-015-0026-y



REVIEW

Open Access



Maximising the impact of qualitative research in feasibility studies for randomised controlled trials: guidance for researchers

Alicia O'Cathain^{1*}, Pat Hoddinott², Simon Lewin^{3,4}, Kate J. Thomas¹, Bridget Young⁵, Joy Adamson⁶, Yvonne JFM. Jansen⁷, Nicola Mills⁸, Graham Moore⁹ and Jenny L. Donovan⁸

“A potential dissonance between efficacy and effectiveness that can be explained by qualitative research”

Cochrane Qualitative Research Methods Group

<http://cqrmg.cochrane.org/supplemental-handbook-guidance>

Figure 1: Causal pathway for mammography screening

Simple causal pathway for efficacy

Variations influencing effectiveness

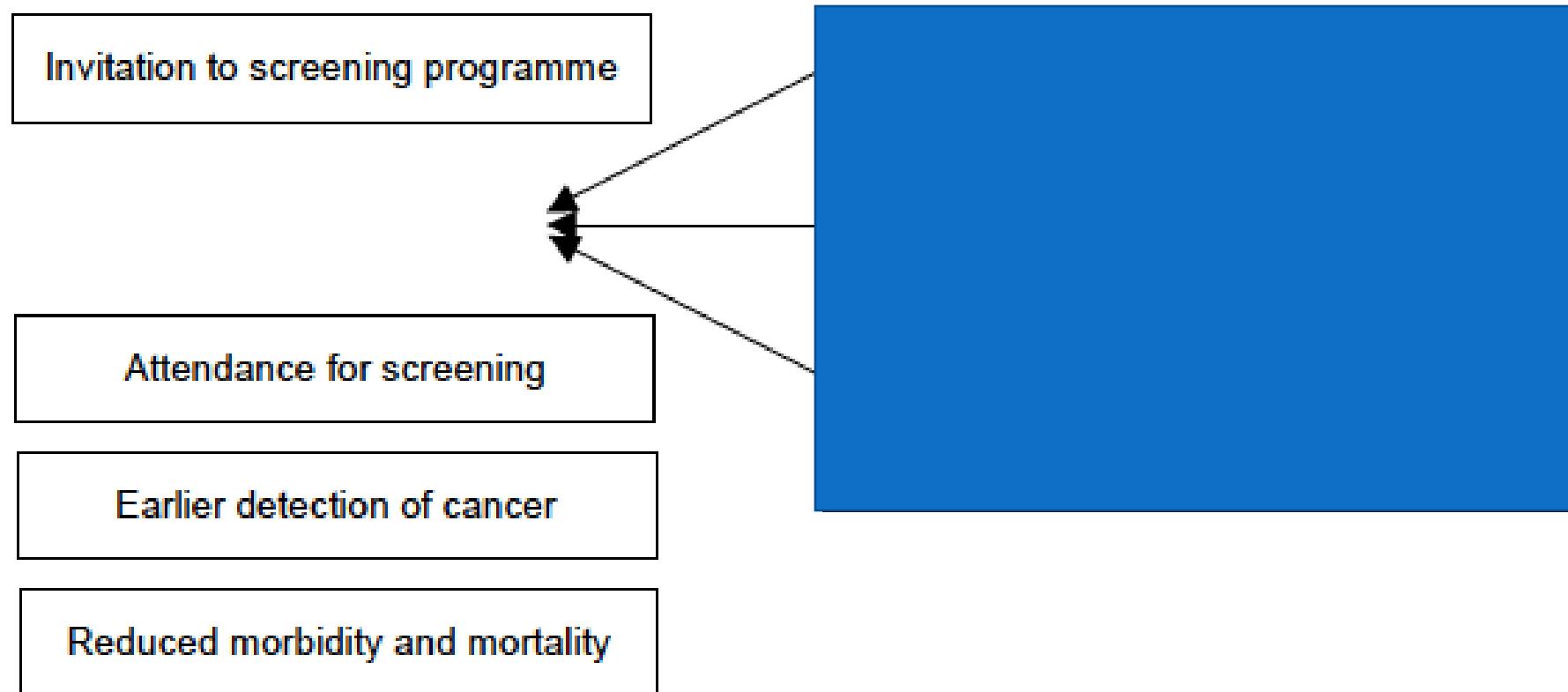
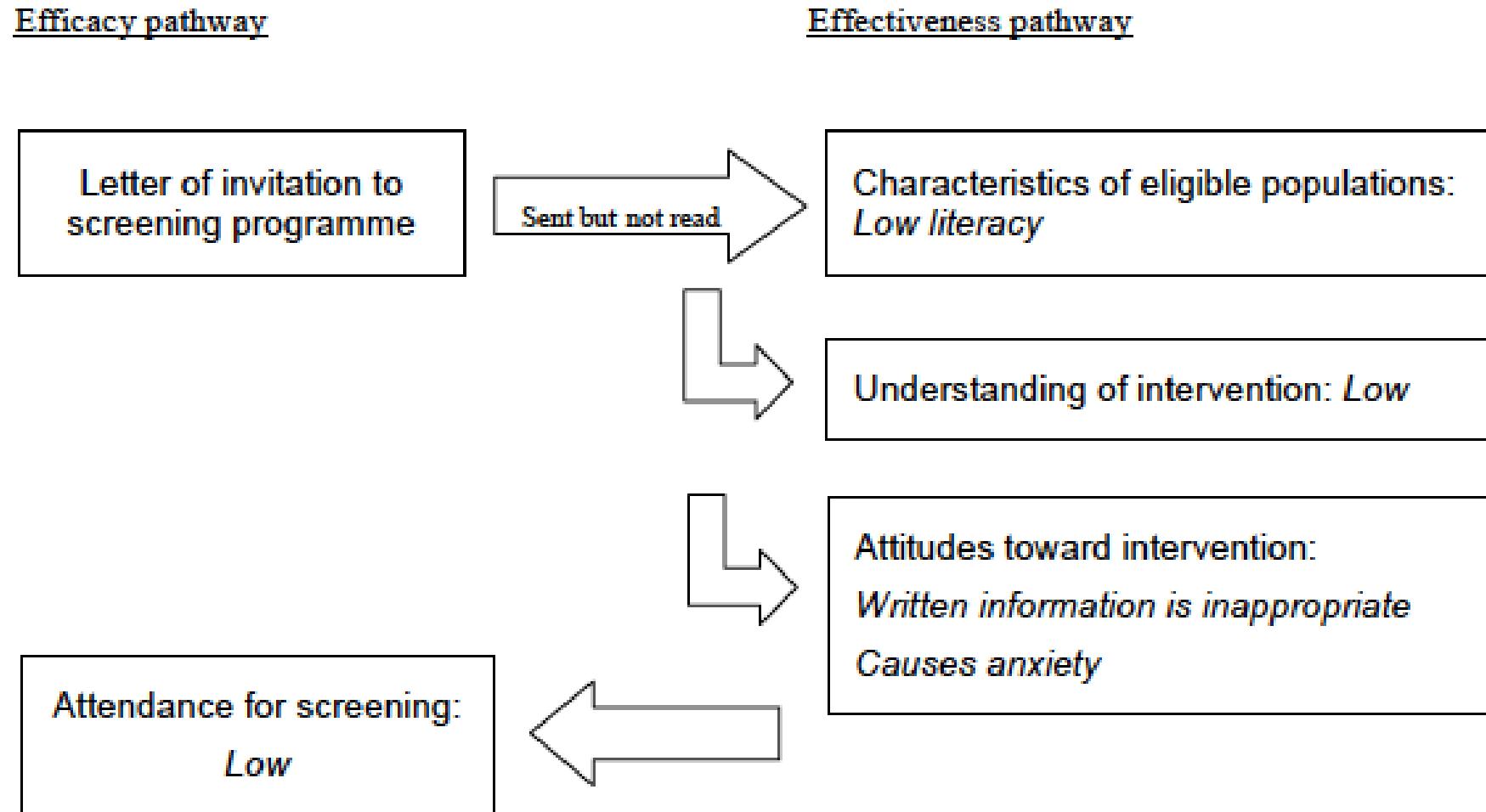


Figure 2: Causal pathway informed by qualitative research



Summary - Qualitative research

Is very important for improving understanding on how, and whether, people perceive health interventions to be effective and acceptable – or more fundamentally, whether they work. Qualitative evidence is also essential to understanding the factors influencing the implementation of health policies and interventions

World Health Organisation Guideline Development Handbook 2014

