

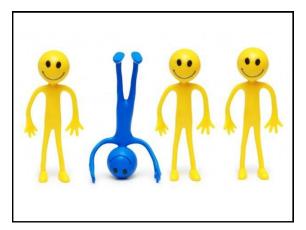


QUALITATIVE RESEARCH: Drug Utilisation Research

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WORKSHOP OBJECTIVES

- Exploring/overview of quantitative and qualitative methodologies applied in drug utilisation research (DUR)
- Discussing qualitative research methods:
 - Overview of qualitative methods
 - Developing questions for focus groups
 - Mock focus group



DRUG UTILISATION STUDIES

Distribution, marketing, prescription, use and dispensing of medicines in a society - specific emphasis placed on social, medical and economic consequences





DRUG UTILISATION METHODOLOGIES

2 Main methodologies:



- Quantitative (mostly used and widely accepted)
 - Majority of DUR studies fall into this methodology
 - Types of studies, for example:
 - ☐ To quantify the current state of drug usage
 - □ Drug use cost
 - Drug use trends
 - ☐ Time course of drug usage at various levels

Definition of qualitative research



- Can be defined by 4 characteristics:
 - Purpose: Understanding the meaning of individuals' experiences
 - ☐ Primary instrument: Data collected and analysed by the researcher himself/herself
 - ☐ Inductive process: Researchers use qualitative studies to gather evidence to develop theories & hypotheses
 - Product: Descriptive data (words or pictures); not numbers

What is qualitative research?

- It is an inquiry process in which the researcher:
 - Explores one key concept
 - Asks his/her participants general, broad questions
 - Obtains participants' views in words/images
 - Conducts analysis and codes data for themes
 - Themes used to describe participants' views
 - Interprets meaning by focusing on personal reflection & past research

Qualitative versus quantitative			
Qualitative	Quantitative		
Multiple realities	Single reality		
Reality is social & contextual	Reality is objective & context-free		
Holistic	Reductionistic		
Inductive reasoning	Deductive & inductive reasoning		
Discovery of meaning → basis of knowledge	Basis of knowledge → cause & effect relationships		
Develops theory	Tests theory		

Qualitative versus quantitative (continued)

Qualitative	Quantitative	
Meaning of concepts	Measurement of variables	
Process orientated	Outcome orientated	
Basic element of analysis = words	Basic element of analysis = numbers	
Unique	Generalisation	
Trustworthiness of findings	Control of error	

ommonly used	traditions/types of qualitative
Basic qualitative research	To understand individuals' meanings of their experiences Collect data by document analysis/ observations/interviews/focus groups
Ethnography	Study of culture & society Researcher forms part of culture/society
Phenomenology	Studying conscious experiences of people in their "life-world"
Grounded Theory	Builds theories based on changes occurring over time with a certain phenomena
When shou	ld qualitative research be used?
Exploring peo something	ples' experiences or views of
For example:	
Peoples' exp therapies	eriences towards taking certain drug
· ·	perceptions of pharmaceutical
advertisellie	



 Exploring "new areas" where its issues are not understood or identified For example: Studies where questionnaire surveys are required 	
Assessing if a new service can be implemented	-
For example: Discussing the value of a drug abuse awareness campaign at university	
PUSHBACK	
AGAINST DRUG ABUSE	
Focusing on the context of something	
Sensitive topics in which flexibility will reduce distress	
Questions that cannot be answered by measuring or counting something	

Most common methods in basic qualitative research

Focus groups



- Interviews
 - ☐ Similar procedure as in focus groups
 - ☐ Types: Informal, open-ended, guide approach, closed-fixed response, telephonic



In-depth interviews



Focus groups

- The term "focus group" was coined in 1956 (Lewis, 1995)
- Seen as an activity where an interviewer or facilitator asks participants specific questions about a topic
- Qualitative data collection procedure which consists of a planned group discussion of a main topic of interest
- Aim is to obtain diverse ideas & perceptions of the topic; aim is not to achieve consensus
- Conducted in a relaxed environment to foster participation

Advantages and disadvantages of focus groups

Advantages

- Generates rich information quickly
- Information comes directly from people who have insight
- Provides diverse opinions & ideas
- Relatively low cost & efficient

Disadvantages

- Susceptible to facilitator bias
- Few vocal individuals can dominate discussion
- Limited generalisability to larger populations

Activities necessary to conduct focus groups

Three phases:

- Phase 1: Conceptualisation
- Phase 2: Group discussion
- Phase 3: Analysing and reporting

Phase 1: Conceptualisation

- Purpose
- Whom to study
- Planning

Purpose & whom to study

- What do you want to achieve with the focus group? Type of information?
- From whom can you get this information?
- Ties in with the aim and objectives of the study

Planning

Physical administrative activities to plan before the focus group can be conducted:

- ☐ Venue to conduct focus group
- ☐ Transport of participants
- ☐ Invitation: Preamble & consent form
- Will food be served?
- ☐ Obtaining a **facilitator** to lead the focus group
- ☐ Budget
- ☐ 2 voice recorders





Phase 2: Group discussion

- Participant selection
- Development of questions
- Skills required by facilitator

Participant selection

- What type of people do you want to invite to participate?
- **Sampling:** Random vs convenience vs purposive vs stratified, etc.
- Sample size: Usually 6 12 participants

Development of questions

- Need to develop a focus group protocol
- Protocol:
 - ☐ Detailed plans written down to ensure order during focus groups
 - ☐ Consists of steps (introduction & conclusion) tasks, questions and/or prompts
- Probes and clarifying questions
 - ☐ Ensures that participants will give more than just one sentence answers
 - ☐ Assists in more detailed information on the topic

Do's & don'ts of asking questions/prompts ■ Keep participants talking ☐ Listen and do not finish participants' thoughts ☐ See things from the participants' perspectives ☐ Participants should be viewed as experts ■ Do not make assumptions, ask simple questions ☐ Do not ask leading questions, e.g., "Don't you think..." Groups will be provided with topics each consisting GROUP of specific aims and **ACTIVITY 1** objectives Each group must develop a set of 3 questions relating to this topic Skills required by facilitator • Ability to lead a group and be comfortable • "Think on their feet" · Make participants feel comfortable and at ease; open to talk • Ability to "draw information out of people" · Advisable to use psychologists / psychology postgraduate students

Phase 3: Analysing and reporting

- · Analysis of discussion
- · Reporting of data

Analysis of the discussion & recording of data

- Discussion recorded by means of voice recorder (preferably 2)
- Researcher needs to listen to recorded data at least twice within a 24 hour period
- Capture recorded data verbatim (word for word, including sounds made)
- Conduct thematic analysis based on Tesch's technique of descriptive analysis
- Descriptive statements used to discuss the findings quoting excerpts from the raw data

GROUP ACTIVITY 2

- Decide on a facilitator who will ask the questions
- Each group to swop their topic, aim, objectives and 3 questions developed in Group activity 1 with another group
- Explain the new topic to your group
- Conduct a mock focus group



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Rigour in thematic analysis

- General principles to which qualitative research have to adhere to
- · "Good practice guidelines"
- Will add credibility, reliability, and validity to the focus group results
- Green and Thorogood or Lincoln and Guba's criteria

Ethics
Ethics in business
moral principles
rules and regulation
of right conduct red
values that guide t

Ethical considerations

- Confidentiality: No names of participants may be published; any names in recordings must be written as a 'code reference'
- Inform participants that focus group is voluntary and that they can withdraw at any moment
- Inform participants beforehand about voice recorders
- Invite by means of a preamble & consent form must be signed by each before focus group (also verbal)
- Humans involved requires ethical clearance from a research committee

QUALITATIVE RESEARCH IN DUR

- Types of DUR studies:
 - Appropriateness of drug utilisation
 - ☐ Prescription data linked with drug indications
- Uses of qualitative studies in DUR:
 - ☐ Study the appropriateness of drug usage in terms of its indications, dosage & duration
 - $\hfill \Box$ Assess the clinical efficacy of drugs
 - Assist in understanding barriers to using evidence based medicine, and its limitations in informing decisions about treatment

Other advantages of qualitative research

- Effective in mixed method methodologies → qualitative & quantitative methods
- Focus groups

 themes identified can be used to develop questions/statements to conduct unique surveys, for example, consumer surveys and health professional surveys



CONCLUSION

- · Need to give DUR a "human perspective"
- Qualitative methods such as focus groups and interviews should be encouraged in drug utilisation

"Everything that can be counted does not always count; everything that counts cannot always be counted."

Albert Einstein

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