# SMR | LEC 1 | DONE BY: OLA ALAHDAB

- Research: a <u>planned</u> course of action that aims <u>to understand</u> a phenomenon <u>or find</u> answers to research questions (Johnston, 2010).
- · All research (Quantitative & Qualitative):
- Seeks <u>answers</u> to questions.
- Utilised a predetermined group of procedures (<u>methods</u>) to get these answers.
- Collects data.
- Generates **results** that were not determined in advance.
- Generate results that are often applicable beyond the immediate boundaries of the study

### RESEARCH DESIGN:

- The **blueprint** for performing the research.
- The scheme or action plan for achieving the objectives of the research (Research questions should be finalised before deciding the research design).
- The **logical sequence** that connects the **data** to a study's initial research **questions** and, ultimately, to its **conclusions**.
- It includes: how the study will be conducted, type of data that will be gathered, the means (tools and techniques) to be used to obtain these data, sample size, and research setting.

### **RESEARCH METHODOLOGY AND METHODS:**

- Research **Methodology**: The **pathway or approach of action** that <u>justifies</u> the selection and employment of certain methods.
- Research **Methods**: The **means** of execution of the research.

### WHAT IS QUALITATIVE RESEARCH?

- Qualitative research is linked to the "Quality" concept.
- Quality refers to the **How** and Why of a thing.
- Qualitative research refers to the meanings, concepts, definitions, characteristics, symbols, and descriptions of things.
- Qualitative research provides a holistic view for the social phenomenon.
- Qualitative research answers "how" questions rather than "how many":
- "It looks at X in terms of how X varies in different circumstances rather than how big X is or how many Xs there are".
- Qualitative research seeks to understand a given research problem from the perspective of the local population it involves.
- It is **effective in obtaining <u>culturally specific information</u>** about values, opinions, behaviours, and social contexts of specific populations.
- Describes <u>how</u> people experience a given research issue.
- Offers unique opportunities for understanding complex situations (Austin & Sutton, 2014).
- Qualitative research seeks to understand the phenomenon under study in the context of the culture or the setting in which it has been studied (naturalistic) (Al-Busaidi, 2008).
- Adjectives like: Rich, Deep, Thick used when talking about qualitative research.



Bryon 1998 also mentioned the following:

major characteristic of qualitative research is that it enables a researcher to understand the social phenomenon

the meanings attributed to them by participants in the social setting or context in which they occur. According to Mattered 2001,

The aim of qualitative research is to identify the meaning of a social phenomenon the way the participants experience it and also perceive it

# The Qualitative Perspective

"I want to understand the world from **your** point of view. I want to know what **you** know in the way **you** know it. I want to understand the meaning of **your** experience, to walk in **your** shoes, to feel things as **you** feel them, to explain things as **you** explain them. Will **you** become my teacher and help me understand?"

James P. Spradley (1979)

### Characteristics of Qualitative Research:

- The focus is on process, understanding, and meaning;
- The researcher is the primary instrument of data collection and analysis;
- The **process** is **inductive** استقرائى;
- The product is richly descriptive.

# Focus on Meaning and Understanding:

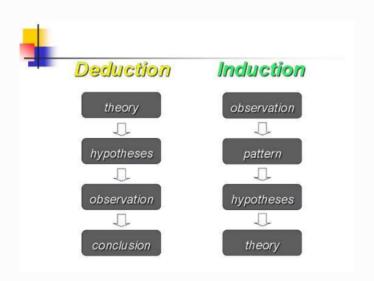
- Qualitative researchers are interested in <u>how</u> people interpret <u>their</u> experiences, how they construct <u>their</u> worlds, what meaning they attribute to <u>their</u> experiences.
- · Patton (1985) explains:

[Qualitative research] is an effort to understand situations in their uniqueness as part of a particular context and the interactions there. This understanding is an end in itself, so that it is not attempting to predict what may happen in the future necessarily, but to understand the nature of that setting — what it means for participants to be in that setting, what their lives are like, what's going on for them, what their meanings are, what the world looks like in that particular setting — and in the analysis to be able to communicate that faithfully to others who are interested in that setting.. The analysis strives for depth of understanding.

# Researcher as Primary Instrument

- A second characteristic of all forms of qualitative research is that the **researcher is the primary instrument for data collection and analysis**.
- Since understanding is the goal of this research, the human instrument, which is able to be immediately responsive and adaptive, would seem to be the ideal means of collecting and analysing data.
- Other advantages are that the **researcher can expand his or her understanding through nonverbal as well as verbal communication**, process information (data) **immediately**, clarify and summarize material, **check** with respondents for **accuracy** of interpretation, & **explore unusual or unanticipated responses**.

The process is inductive.....



3.1. Theme once Contribution of the organization
The contribution of the organization
The contribution of the organization was identified by participants as
important in inhibiting or facilitating their capacity to recognize and respond
to the patient with specie. Participants highlighted that organizational factors
were often related by processes and models of care, and that establishing or
resources impacted on their ability to recognize and respond to the patient
with repeits. For example, and the patient's well-being. You know
they're unwell. how you don't un specie more interested and the pressures
about the justiced flow. The majority of our shift is all about flow, it's about
flow of the implication by positioners and shooling at major is the beause I have
done a lot of BPIO [Distinues Fractice Improvement Officer] stuff and NEAT
[National Emergency Access Taggle stuff it lead to look in the time a lot...
From, a maxing point of view and it sounds really hermile to say out of my
month, but I flash that the prient conses second as the flow of patients have
been ripsed out from under you and your getting new ones in. I just don't
think that you've get time to fully assess them and work them up until the
next one arrives.' CNI.

"Time constraints make nurses not have time to Think' therefore being task orientated, and less Shely to recognise sepsis- not engaging your brain as much when you are busy, and task orientated. You write the observations down so all the boxes are ticked, patient can be moved into next area and so busy between different jobs that you are not actually thinking about what you are doing. You are not in a space to think as it is so first." RN4

"When you are really busy you sun, people go into auto plist and then they're just as opposed to assessing what's actually on in their head they become more task orientated in saying ok this is what I need to do and they focus more on patting the dots on the lines on a piece of paper rather than what the dots on the lines actually mean". NGR

- Often qualitative researchers undertake a qualitative study because **there is a lack of theory or an existing theory fails to adequately explain a phenomenon**.
- Another important characteristic of qualitative research is that the process is <u>inductive</u>; that is, <u>researchers gather</u> <u>data to build concepts</u>, hypotheses, or theories rather than deductively testing hypotheses as in positivist (quantitative) research.
- Bits and pieces of information from interviews, observations, or documents are combined and ordered into larger themes as the researcher works from the particular to the general.

	Qualitative Research	Quantitative Research
Purpose	Discover ideas; develop a detailed and in-depth understanding of a phenomenon	Test hypotheses or specific research questions
Approach	Observe and interpret	Measure and test
Data Collection Methods	Unstructured; free- forms	Structured; response categories provided
Researcher Independence	Researcher is intimately involved; results are subjective	Researcher is uninvolved, results are objective
Sample	Small samples – often natural setting	Large samples to allow generalization
Most often used in:	Exploratory research designs	Descriptive and causal research designs

# Rich Description of the end product:

- The product of a qualitative inquiry is richly descriptive.
- Words and pictures rather than numbers are used to convey what the researcher has learned about a phenomenon.
- There are likely to be **descriptions of the context**, the **participants involved**, and the **activities of interest**.
- In addition, data in the form of <u>quotes</u> from documents, field <u>notes</u>, and participant <u>interviews</u>, excerpts from <u>videotapes</u>, <u>electronic</u> communication, or a combination of these are always included in <u>support</u> of the findings of the study. These quotes contribute to the descriptive nature of qualitative research.

# QUALITATIVE VERSUS QUANTITATIVE (CONT'D)

- Qualitative and quantitative methods give <u>different, complementary</u> pictures of the things we observe (Lune & Berg, 2016; Al-Busaidi, 2008)).
- Qualitative is linked to Quality WHERAS Quantitative is linked to Quantity.
- Qualitative studies involve the <u>systematic collection</u>, <u>organization</u>, <u>description and</u> <u>interpretation of textual</u>, <u>verbal or visual data</u> (Hammarberg, Kirkman, & de Lacey, 2016).
- Quantitative studies generally involve the systematic collection of data about a phenomenon, using standardized measures and statistical analysis.
- Quantitative research leans toward "what" questions, while qualitative tends toward "why" and "how".

• Ethical considerations are often more complex in qualitative research.

### WHY TO USE QUALITATIVE RESEARCH?

- The <u>limitations</u> (and criticism) of quantitative approaches have always been taken as a starting point to give reasons why qualitative research should be used.
- Qualitative research emphasises that human beings should be studied as agents capable of self reflection and giving meanings to their actions.

### ESSENTIAL FEATURES OF QUALITATIVE RESEARCH

- 1. **Perspectives** of the participants and their diversity.
- 2. **Reflexivity** of the researcher.
- 3. **Variety** of approaches and methods in qualitative research.
- 4. Subjectivity.
- 5. Focus on the whole (holistic picture).
- 6. The <u>methodology is flexible</u> because it may use multiple methods to examine the same question or area ('triangulation').
- 7. Iteration.
- 8. Qualitative research can complement quantitative data. For example, a qualitative phase of research might *precede* quantitative data collection in order to <u>explore</u> a new area, to <u>generate</u> hypotheses, or to help <u>develop</u> data collection instruments. In turn, qualitative research might *follow* a quantitative phase of research in order <u>to elucidate</u> and <u>explain</u> the 'numbers' or to <u>probe</u> the issues more in depth with a smaller number of individuals.

# Naturalistic Design:

- Naturalistic " if it took place in a <u>real-world</u> setting rather than a laboratory, and whatever was being observed and studied was allowed to happen "naturally".
- In naturalistic inquiry the investigator does not control or manipulate what is being studied.

# **PURPOSES** OF QUALITATIVE RESEARCH:

• Describe • Understand • Explain • Identify • Develop • Generate.

# Qualitative Research Purpose Describe Understand Explain Identify Develop Generate

### MAJOR TYPES OF QUALITATIVE RESEARCH:

- Ethnographies, in which the researcher studies an intact <u>cultural</u>
  group in a natural setting over a prolonged period of time by collecting, primarily observational data. The research process is **flexible** and typically **evolves contextually** in response to the lived realities encountered in the field setting.
- Case studies, in which the researcher explores in depth a program, an event, a process, or one or more individuals.
- Narrative research, a form of <u>inquiry</u> in which the researcher studies the lives of the individuals and asks one or more individuals to provide <u>stories</u> about their lives.
- Phenomenological research, in which the researcher <u>identifies</u> the essence of human <u>experiences</u> concerning a phenomenon, as described by participants in a study.
- Grounded theory, in which the researcher attempts to <u>derive</u> a general, theory of a process, action or interaction grounded in the views of participants in a study. This process <u>involves</u> <u>using multiple stages of data collection</u> and the refinement and interrelationship of

categories of information.

### Qualitative Research Question:

<ul> <li>Creswell's (2009) example of a script for a qualitative research central question:</li> </ul>
(How or what) is the ("story for" for narrative research; "meaning of" the
phenomenon for phenomenology; "theory that explains the process of" for grounded theory
"culture-sharing pattern" for ethnography; "issue" in the "case" for case study) of
(central phenomenon) for (participants) at (research site).

# Papers on various types of Qualitative research:

- The <u>tension</u> between person centred and task focused care in an acute surgical setting: A critical ethnography.
- An investigation on physicians' acceptance of hospital information systems: a case study
- What do patients <u>say</u> about their physicians? An **analysis** of 3000 narrative comments posted on a German physician rating website
- The nurses and physicians <u>perceptions</u> of ethical self-care in their professional relationship with each other: **A phenomenological study**.
- Getting <u>work</u> done: a grounded theory study of resident physician value of nursing communication.

### **DATA COLLECTION IN QUALITATIVE RESEARCH:**

- Observations.
- Interviews.
- · Documents review/analysis.
- Observations, in which the researcher takes field notes on the activities and behaviour of the individuals at the research site. In these field notes, the researcher records in an <u>unstructured</u> or <u>semi-structured</u> way, activities at the research site.
- Interviews, the research conducts <u>face to face</u> interviews with participants, interviews participants by <u>telephone</u> or engages in <u>focus group interviews</u> with 6 to 8 interviewees in each group. These interviews involve <u>unstructured</u> and generally <u>open ended questions</u> that are <u>few in number</u> and intended to elicit views and opinions from participants.
- Document review/analysis, the researcher may **collect documents**, these may be public documents (newspapers, reports, letters, mails)

# QUALITATIVE DATA ANALYSIS AND INTERPRETATION:

- Data analysis in qualitative research is an <u>ongoing process</u> involving <u>continual reflection</u> about the data, <u>asking</u> analytic questions, and writing <u>memos</u> during the study.
- It is not sharply divided from other activities such as collecting data.
- The first step in qualitative analysis is to develop thorough and comprehensive descriptions of the phenomenon under study (thick descriptions).

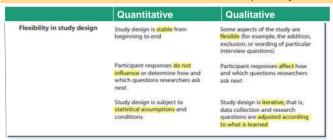
# Qualitative research process:

- Select topic and problem- problem identification.
- Justify significance of study.
- Design study.
- · Identify and gain access to subjects.
- <u>Select</u> study subjects and data (<u>purposive sampling</u>).
- · Analyse data.
- Interpret results/conclusion.

### **APPROACHES** TO QUALITATIVE RESEARCH:

- There is **no 'right' way of doing qualitative research**, but some approaches are **more appropriate** to certain research goals than others.
- · Qualitative research design is emergent.
- The initial plan for research cannot be tightly prescribed, and that all phases of the process may change or shift after the researchers enter the field and begin to collect data.

# Quantitative Versus Qualitative (study design)



# WHAT **RESEARCH QUESTION** CAN QUALITATIVE RESEARCH **BEST ANSWER**?

- Consider the following:
- · 'Lived experience'.
- 'Insider' perspective of reality (emic).
- o Emic approach: interpretation of the data from the <u>perspective of the population</u> under study.
- <u>Context/meaning oriented</u> rather than measurement oriented. The information gathered by actually talking directly to people and seeing them behave and act within their context.

# QUALITATIVE SAMPLING:

- Selection of a sample is a key element of a study design.
- · Usually non-probability (purposive or convenience) sampling.
- Convenience sampling allows the researcher to select participants who are readily accessible or available.
- Purposive sampling avails of accessible participants, but it provides the additional advantage of facilitating the selection of participants whose qualities or experiences are required for the study.

# RIGOUR OF QUALITATIVE RESEARCH:

- Rigour refers to the quality of the research.
- Strategies that help in achieving rigour in qualitative research:

- 1. Clear descriptions of the sample necessary for the study to be meaningful.
- 2. An indication of how and why the sample was chosen.
- 3. <u>Engagement with others</u>, such as multiple researchers, in order to code or discuss data widely.
- 4. The use of quotations in the representation of data findings.
- 5. An assessment of a researcher or group of researchers' assumptions about the data
- 6. Clearly defined study design.
- 7. <u>Triangulation</u> (examining the phenomenon from different angles; measures, methods, researchers).

# TRUST WORTHINESS OF QUALITATIVE RESEARCH:

- Trust worthiness refers to the assessment of the quality and worth of the complete study.
- Help to determine how study <u>findings</u> <u>reflect</u> the <u>aims</u> of the study, according to the data provided by respondents.
- Trust worthiness has 4 components:
- 1. **Credibility** مصداقیة (VS internal validity): the confidence that can be placed in the <u>truth</u> of the research findings. Credibility establishes whether the research findings <u>represent</u> <u>plausible information</u> drawn from the participants' original data <u>and is a correct</u> <u>interpretation of the participants' original view</u>.
- 2. **Transferability (VS external validity)**: refers to the possibility that a qualitative study's theoretical position <u>can be used in other contexts</u>, <u>or with other population groups</u> and that findings can be applied to other contexts, cohorts or population groups.
- 3. **Dependability (VS reliability)**: refers to whether a study's <u>findings could be achieved</u>, and the <u>working methods repeated</u>, were another researcher to conduct the same study.
- 4. **Confirmability (VS objectivity)**: ensures that a study's findings are <u>clearly</u> <u>representative</u> of the participants' views, rather than the researchers' preferences.

### **FEASIBILTY**:

- The feasibility of research projects must be considered early on in the design phase of a study, in order to determine whether the research is likely to be successfully completed.
- Researchers need to consider <u>staffing requirements</u> for data collection, and analysis, and the presentation of results, as well as budget constraints, and required time frames.
- For example, asking a group of participants to complete a one hundred-page questionnaire survey or attend a two-day focus group meeting is unlikely to be considered feasible by most people.
- The <u>scope of the project</u> must also be feasible, with refinement of research questions to a focused topic.
- When considering the feasibility of research, the <u>limitations</u> of researcher expertise <u>must also be taken into account</u>.



Criterion	Strategy employed		
Credibility	<ul> <li>Prolonged engagement</li> <li>Peer briefing</li> <li>Triangulation</li> <li>Member checks</li> </ul>		
Transferability	<ul><li>Providing thick description</li><li>Purposive sampling</li></ul>		
Dependability	<ul><li>Create an audit trail</li><li>Triangulation</li></ul>		
Confirmability	<ul><li>Triangulation</li><li>Practise reflexivity</li></ul>		

# **LIMITATIONS OF QUALITATIVE RESEARCH:**

• The main limitation of qualitative research is that their **findings cannot be extended to wider populations** with the same degree of certainty that quantitative analyses can (**limited generalisability**).

# **Check Your Understanding Question:**

Which of the following is true about qualitative research?

- A. Data are usually collected in a laboratory setting.
- B. Focus is on studying the "whole".
- C. Focus is on generalisation.
- D. Qualitative research is deductive.