Research Methodology & Biostatistics

Dr Ashok Kumar Yadav (PhD,MBA(HM),MSc(N),BHMS,BSc)

Dean & Principal
HOD & Professor Mental Health Nursing
Faculty of Nursing
Tantia University
Sriganganagar

RESEARCH PROBLEM / QUESTION

Introduction: A research problem is a question that a researcher want to answer or a problem that a research want to solve. A research problem is the first step of the research process.

Definition: A research problem is a enigmatic troubling area or topic which needs an enquiry to get better understanding or ultimate solution.

According to kerlinger: A problem is an interrogative sentence or statement that ask what relation exists between two or more variables.

Identification of research problem: Identification of a research problem is the first and most important step in research process generally, a broad area is selected and than a broad topic is narrowed down to a specific on sentence statement of the problem.

Source of research:

Common sources from which researcher may find ideas to identify and formulate a research problem.

Personal Experiences: By personal experience of a researcher, the researcher can get idea to formulate research problem.

Practical Experiences: Nurses get plenty of ideas to formulate research problems from their clinical experience.

Nursing Literature: Ideas for research projects often come from reading the nursing literature.

Previous research: A body of knowledge should be developed on a sound foundation of research findings.

Theories: Research is a process of theory development and theory testing.

Social Issues: An idea for a study may arise social or political issues relevance to the health care community for example, HIV/AIDS, Domestic violence, female foeticide and sexual harassment are the current social and political issue.

Ideas from external sources: External sources sometimes provide idea for research for example, research topic given to the student, discussion with other nurses, researchers or nursing faculty.

Consultation with experts: Experts are believed to have sound experience in their respective field and may help in finding a current problem, which may serve as basis for formulation of research problem.

Exposure to field situations: During field exposure, researcher get variety of experiences, which may provide plenty of ideas to formulate researcher problems. For example, while working in a filed a researcher observed a specific traditional practice for cure of a disease condition, which can be used as research problems to investigate its efficacy.

Folklores/Mythos: Common beliefs could be right or wrong. For example, it is generally believed that studying just before the test decrease the score; we believe we should not study just before test to relax out mind. Researchers can conduct a research study; whether on should study before the test or not.

Intuition natural ability or power: It is believed that reflective mind is good sources of ideas, which may be used to formulate a good research problem.

Criteria of a good research problem

- 1. Significance to nursing profession: A research problem could be considered significant for nursing profession if it fulfils the following:
 - A research problem is significant for nursing profession when it is directed to develop or refine the body of professional knowledge.
 - Nursing profession, patients, nurses and health care professional will be benefitted from the study.
 - The results will improve clinical nursing practices.
 - Promotes nursing theory development or testing.
 - Provides solution of current nursing practice needs.
 - Generate information to get practical implications for nursing profession.

- Original Every research problem should be new and unique in itself. It is the key responsibility of a researcher that an innovation knowledge is used for selecting a research problem. So it will be able to extend the growth of body of knowledge in a profession.
- 3. Feasible possible to do Feasibility is an essential consideration of any research project. Feasibility of research problem in reference to time, availability of subjects, facilities, equipment, money and ethical considerations should be checked.
- Solvable/Researchable Problem selected is considered good only if it is solvable.
- 5. Current issue A good research problem must be based on the current problems and needs of a profession.
- 6. Interesting A research problem can only be considered good if it is interesting in research field.

STEPs for Formulation of Research problem:-

Selection of a research topic



Reviewing the literature and theories.



Delimiting the research topic.



Evaluating the research problem.



Formulating final statement of research problem.

THANK YOU