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DEPARTMENT OF COMMUNITY MEDICINE
GOVERNMENT MEDICAL COLLEGE
CHANDIGARH

AN INTRODUCTION

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PLANNING AND DESIGNING OF RESEARCH

Objectives and Discussion:

- What is Research?
- Why Research Conducted?
- What are different types of Research?

How? Where? When?

Research:

 Logical effort to solve some difficulty experienced in the context of theoretical knowledge or practical solutions.

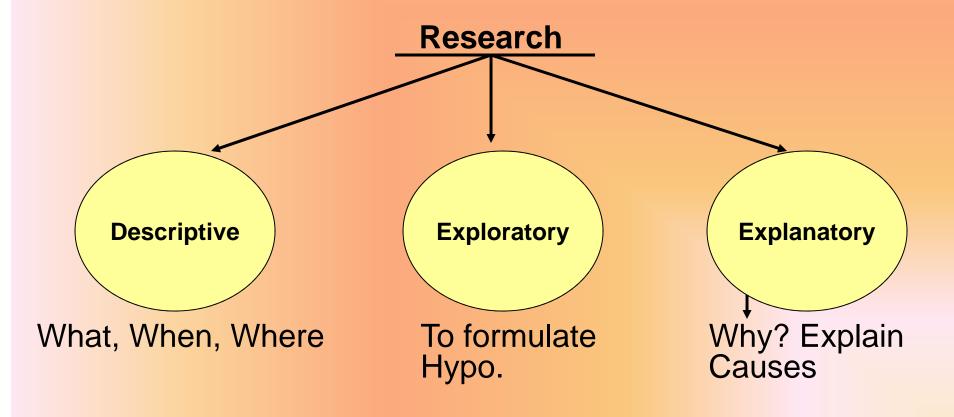
Research Question:

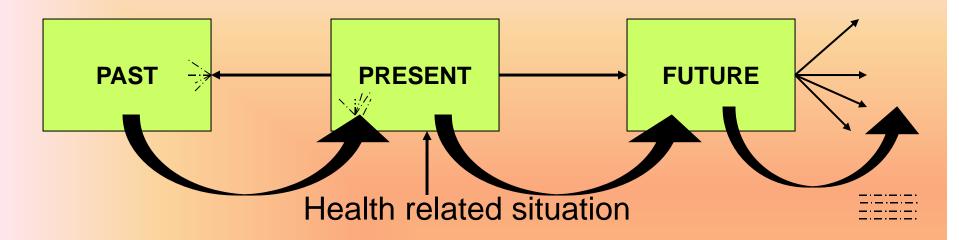
 Uncertainty about something which a researcher want to resolve by making observations.

PLANNING AND DESIGNING OF RESEARCH

Research Problem:

 Some difficulty experienced in the context of theoretical knowledge or practical situations or both, which a researcher want to solve.





Descriptive: - One situation at one time/different times

Several situations at one time/different

times

Explanatory: - Concerned with causes about some

phenomena

Exploratory: - No/little information

To diagnosis situations, screening alternatives, new ideas, est. of hypo, case studies on clinical manifestations, surgical

complications, adverse reactions etc.

CHOICE OF A RESEARCH TOPIC

RESEARCHABLE:

- Practical and theoretical relevance.
- Utility of the RP
- Feasibility
- Reliable Information
- Capable of developing hypothesis
- Acceptable, Applicable, Ethical

Guidelines:

- Avoid saturated areas
- Think what, why and how?
- Individual Interest
- Decide clear-cut objectives
- Feasibility

SOURCE OF SELECTION OF RP

- Earlier Research / Review
- Experience
- Prevalent Theories
- Govt. Priorities
- Imaginations
- Observed Situations
- Personal Curiosity
- Adoption of newer technology
- Prevalent theories / review

CHOICE OF A RESEARCH TOPIC

Types of Research—Qualitative
Quantitative

Qualitative Research:

- No representative sampling
- No strict sampling design
- Description of experiences
- Helpful in estab. Hypo. for future res.
- Non quantitative analysis

Quantitative Research:

- Representative sampling
- Strict sampling design
- Prior Hypothesis
- Quantitative & Qualitative Analysis with all scales of measurements.

CHOICE OF A RESEARCH TOPIC

- RP should be focussed on assessing relationship between two or more concepts.
- Several research questions / objectives
- Clear statement and possibility of data collection
- No ethical problem
- Practical and theoretical relevance
- Beneficial to the community
- Implications to clinical practice

Factors Affecting Selection of Topic:

- Researcher's interest
- Research Question
- Research Model and Research Value
- Units of study
- Time and cost schedule

BROAD AREAS OF RESEARCH

- Experimental
- Applied
- Operational (Evaluation & Monitoring)

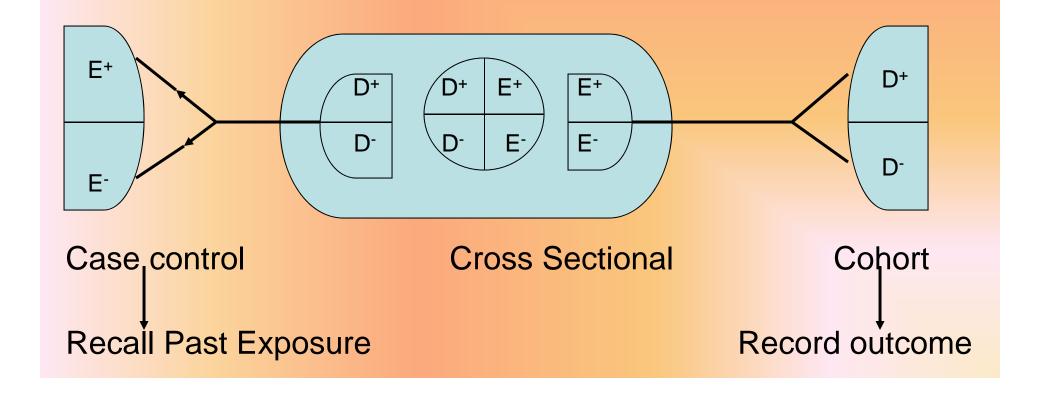
Broad Classification:

- Quantitative Research
- Qualitative Research

Types of Research:

- Exploratory / Formulative
- Experimental
- Descriptive
- Evaluation
- Explanatory / Casual
- Pure Vs Applied
- Basic Research
- Epidemiological Research
- Clinical Research

APPROACHES OF CONDUCTING RESEARCH



PLANING OF RESEARCH

STEPS INVOLVED

STEPS INVOLVED IN PLANING OF RESEARCH

- Objectives of Survey/Study
- Information to be collected
- Target Population and Sampled Population
- Optimum Sample Size
- Sampling Design
- Study Design
- Questionnaire/Schedule

- Organization of Field Work
- Data Collection
- Problem of Non-Response
- Data Analysis
- Report Writing
- Guidance for Future Work

