

Part 1: Goal and objectives of a research

Part 2: Research questions and hypotheses



What we learnt before:

Research Process

- The Research Problem
- Formulation of Research Objectives
- Review of Related Literature
- Delimitation of the Research Problem
- Formulation of Testable Hypothesis
- Identification of Research Variables
- Construction of Research Design
- Designing Tools for Data Collection
- Designing Plan for Data Analysis
- Collection of Data
- Data Processing
- Data Analysis and Interpretation
- Drawing Conclusions and Recommendations
- Writing of Research Report
- Reporting of Research Findings



What we learnt before: Problem Statement

Global Perspective

Diabetes is a devastating and costly disease

Morbidity

Mortality

Financial cost

More specific

Successful and unsuccessful attempts to intervene with people who have diabetes

Most specific

The purpose of this study is to examine new ways to educate people with diabetes

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oPart 1

Goal and Objectives



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- This presentation will assist you in improving your knowledge in writing goal and objectives of your research proposal. Hence, after this presentation you will be able to:
- 1. Write goal of given topics.
- 2. Write precise research objectives.

Introduction

Goal
Objective
Question
Hypotheses

Problem Statement

Research Methodology



- A general, broad statement of what you wish to achieve
- Related to problem statement
- What is to be accomplished by the study
- Similar to title with some additional information
- Determine instead of assess





- A step toward accomplishing a goal
- Specific in agreement with the title
- Logical roadmap to the goal
- Identify variables, research design, methodology, data gathering
- The same as goal in simple studies; e.g, determine the average weight of ...
- Not work steps



- Action verbs(describe, determine, identify, assess, compare)
- Improper verbs: perceive, believe, understand, prove
- Secondary objectives: subgroups data analysis
- Better to determine at the beginning
- Applied purposes



- Correlation of ratings of students' overall performance in a medicine clerkship with ratings of knowledge
- Rating students' overall performance in a medicine clerkship
- 2. Rating students' knowledge in a medicine clerkship
- 3. Determining the correlation of ratings of students' overall performance in a medicine clerkship with ratings of knowledge



- Correlation of ratings of students' overall performance in a medicine clerkship with ratings of knowledge
- Rating students' overall performance in a medicine clerkship by students' gender
- 2. Rating students' knowledge in a medicine clerkship in different age groups
- 3. Determining the correlation of ratings of students' overall performance in a medicine clerkship with ratings of knowledge



- Correlation of ratings of students' overall performance in a medicine clerkship with ratings of knowledge
- If research hypothesis is approved, our institution will plan to increase students' knowledge; otherwise;

oPart 2

Research Questions and Hypotheses



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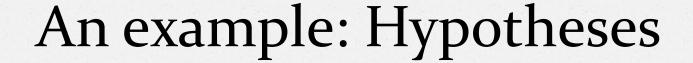
- This presentation will assist you in improving your knowledge in writing research questions and hypotheses. Hence, after this presentation you will be able to:
- Write appropriate research questions.
- Write hypotheses and null hypotheses.

Questions, Hypotheses

- Questions for descriptive objectives
- Hypotheses for analytical objectives
- The same number with research objectives
- Hypotheses: researchers' best guess
- Will tense

Hypotheses

- Testable
- Statistical or research hypotheses
- Null(H₀) or Alternative(H_A) hypotheses
- Directional or non-directional
- Two-way or one-way



- Correlation of ratings of students' overall performance in a medicine clerkship with ratings of knowledge

Or

There is a positive correlation between ...

