

Research design

By

Dr\ Hend salah

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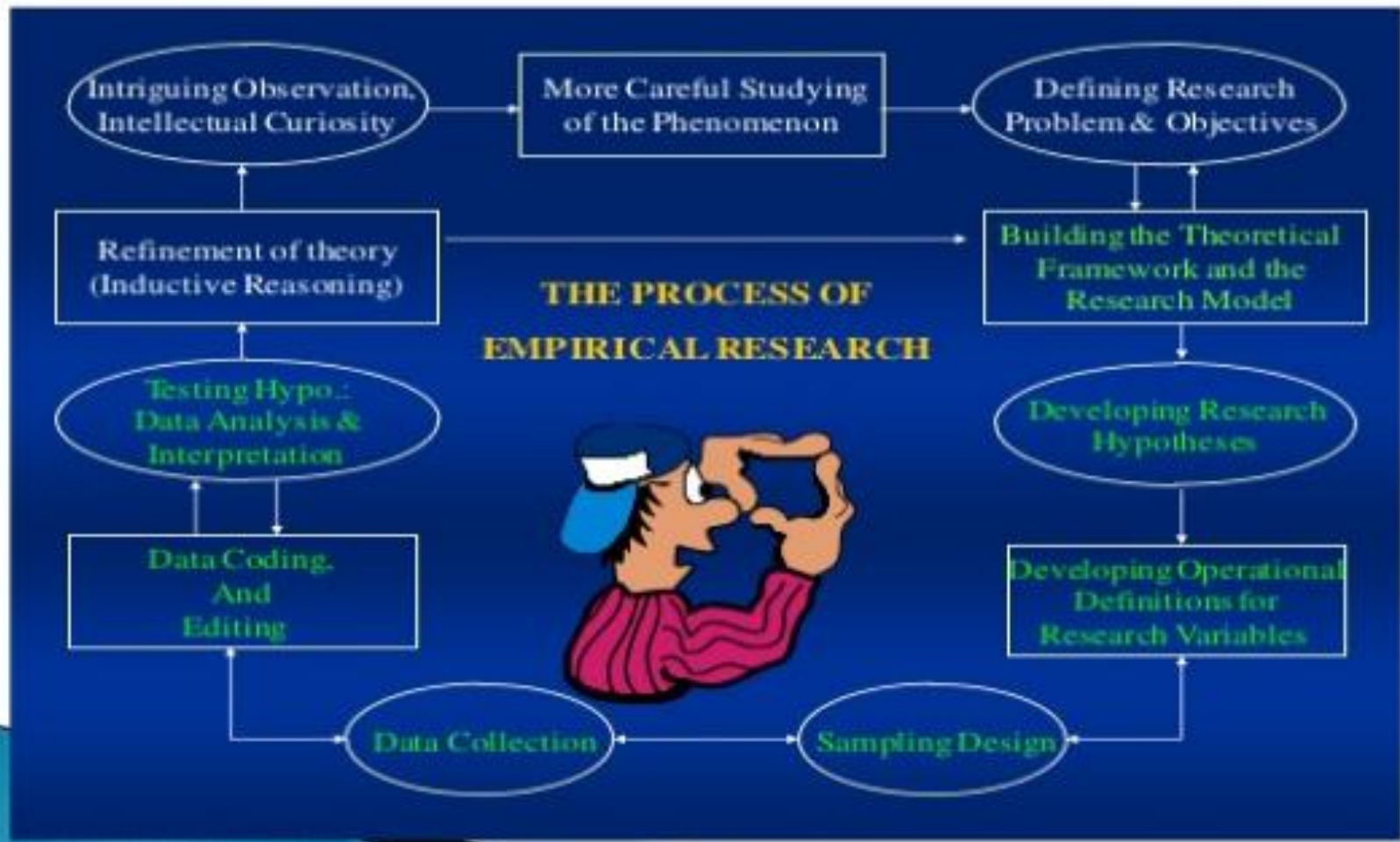
Objectives:

By the end of the lecture the students will be able to:

- 1- define research design
- 2- list purpose of research design
- 3- differentiate between types of research design

RESEARCH DESIGN

- **RESEARCH DESIGN** refers to the plan, structure, and strategy of research--the blueprint that will guide the research process.



The choice of a research design depends on the objectives of the study. There are many types of research designs that can be used in basic and experimental research. Described here are some of the most frequently used designs. They are classified into: non- or pre-experimental designs, true experimental designs, and quasi-experimental designs.

Purpose of research design

- Direct researcher in planning and implementing the study.
- To avoid bias that may affect outcomes

Components of research design

A plan of what data to gather, from whom, how and when to collect the data, and how to analyze the data obtained

• **Components of Research Design**

1. Introduction
2. Purpose statement
3. Objectives of the research
4. Significance of the study
5. Methodology and Methods
6. Research questions and hypothesis
7. Limitations and delimitation

Types of research designs

BASIC DESIGNS

SPECIFIC TYPES OF RESEARCH DESIGN

BASIC RESEARCH DESIGNS:

- ▶ **Experimental Designs:**
 - True Experimental Studies
 - Pre-experimental Studies
 - Quasi-Experimental Studies

- ▶ **Non-Experimental Designs:**
 - Expost Facto/Correlational Studies

types

EXPERIMENTAL DESIGNS

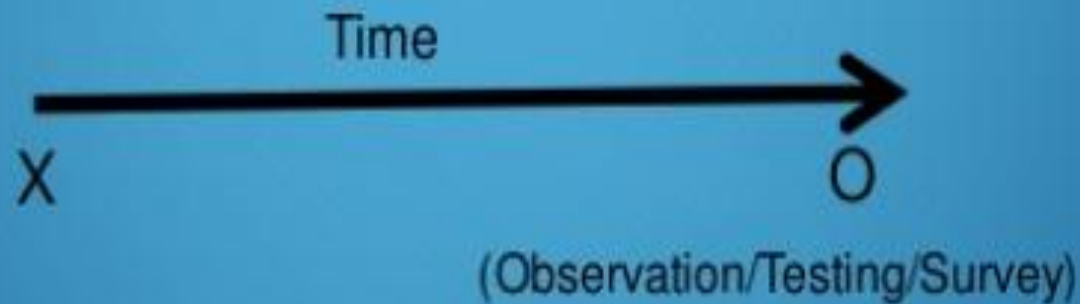
One of the simplest experimental designs is the **ONE GROUP PRETEST-POSTTEST DESIGN--EXAMPLE?**

One way to examine _____ :



- ▶ **RESULT:** Significant Improvement from O1 to O2 (i.e., sig. O2 - O1 difference)
- ▶ **QUESTION:** Did X (the drug) cause the improvement?

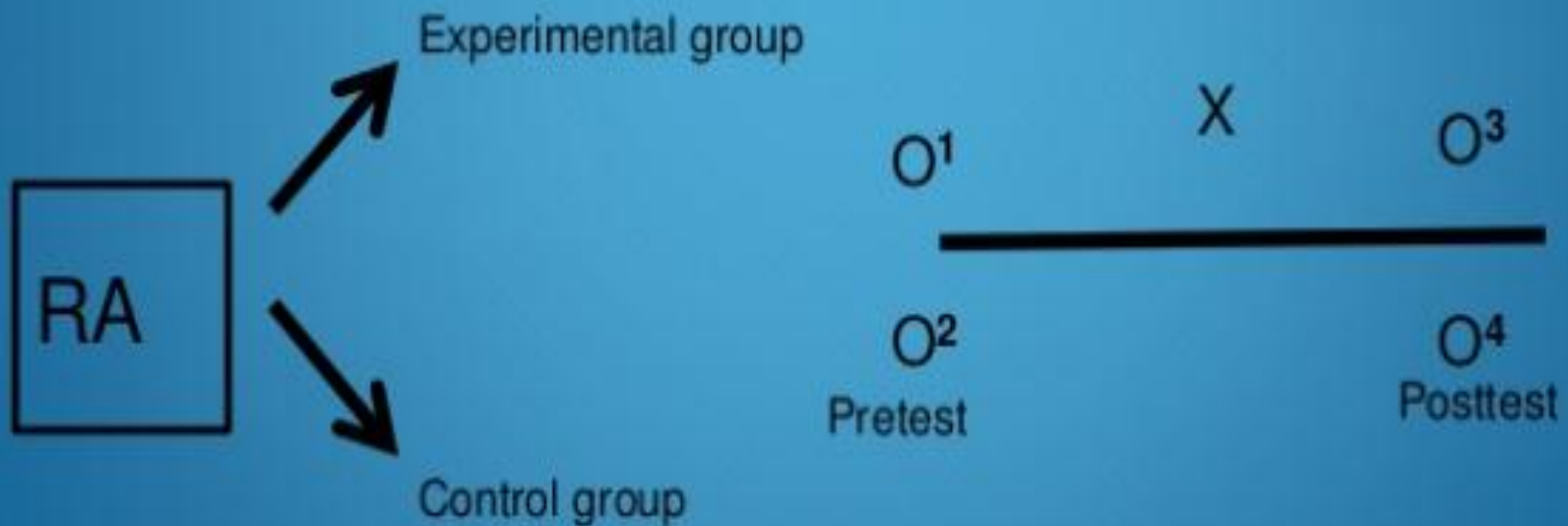
Posttest Only Design or After-Only Survey



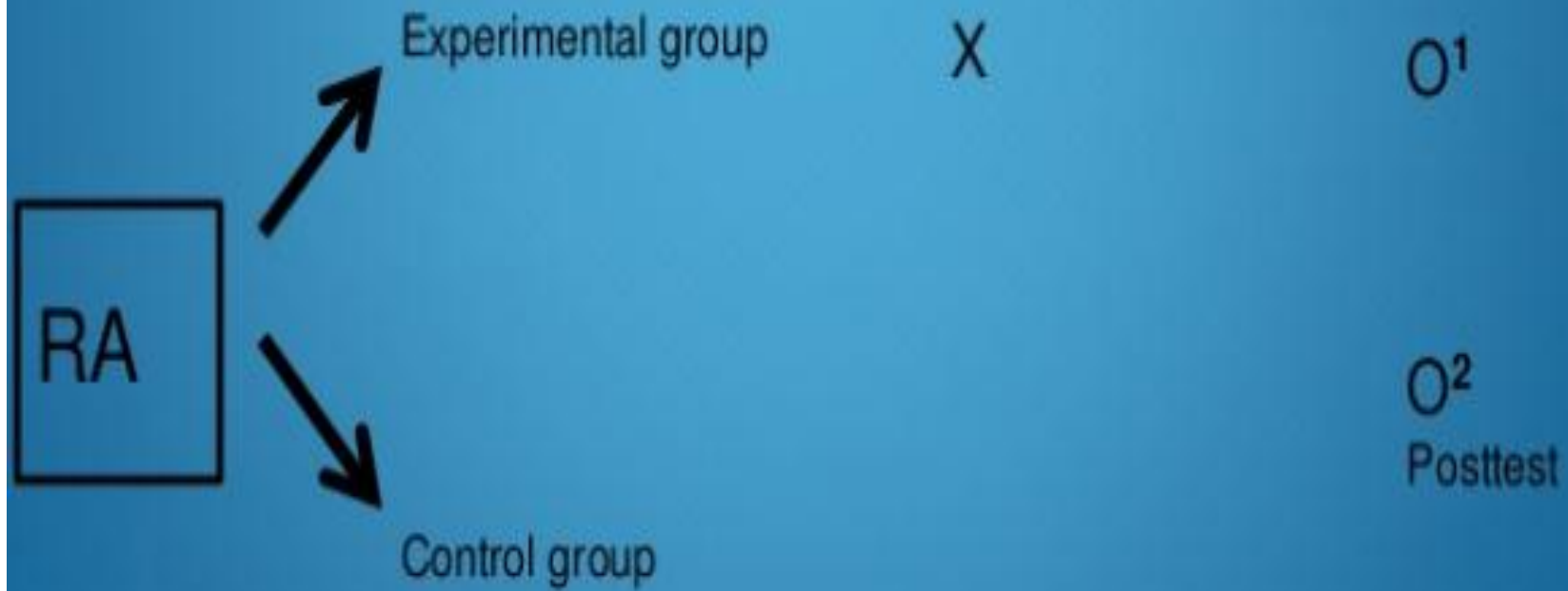
Static Group Comparison



Pretest-posttest Control Group Design



Posttest Only Control Group Design



Time Series Design

Time



quiz

- Define research design
- What are purpose of research design?
- List types of research design?
- Differentiate between prospective and retrospective design?

THANK YOU