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A research hypothesis plays an essential role in the research study. Therefore, it is necessary to develop an accurate and precise research hypothesis. With the help of the research hypothesis, a researcher makes sure that he is not hidden towards a dead end, and it works as a direction map for the researcher.

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CENTER FOR RESEARCH, INNOVATION & DATA MANAGEMENT

To pursue the university's commitment to quality, the Center for Research Innovation & Data Management of the Lyceum of the Philippines University, has become the vital instrument in achieving the mission – vision of the university through institutionalizing research and strengthening the research culture and capability.

The center aims to institutionalize research by doing the following functions:

- *implement a sustainable research program for the institution as specified in the 5 year development plan;*
- *continuously serve as the central coordinating body which regulates, supervises, controls, evaluates and monitors the school's researches and recommends for dissemination and utilization;*
- *provide training and exposure for development to enhance research capability of school researchers;*
- *facilitate linkages with other institutions and find means to improve research capability, productivity, dissemination and utilization of research outputs;*
- *provide statistical services for student and faculty researchers.*

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Stating Research Problem & Developing Hypothesis

CENTER FOR RESEARCH
INNOVATION & DATA
MANAGEMENT



A hypothesis can be defined as a clear, specific and predictive statement that states the **possible outcome** of a scientific study. The result of the study is **based on previous research studies** and can be tested by scientific research.



The research hypothesis shows the direction to the researcher conducting the research. It states **what the researcher expects to find** from the study.



The research hypothesis **shows what you want to prove** with your research study. Therefore, the research **hypothesis should be written first** before you begin the study, no matter what kind of research study you are conducting.

Research hypothesis in Quantitative vs Qualitative



The research hypothesis in a quantitative study consists of one independent variable and one dependent variable, and the research hypothesis mentions the expected relationship between both of the variables.



The research hypothesis is not developed at the beginning of the research because of the inductive nature of the qualitative studies. The research hypothesis is introduced during the iterative process of data collection and the Interpretation of the data. Generally, in qualitative studies one or two central questions are developed and based on these central questions a series of five to ten sub questions is built and these sub-questions are further used to develop central questions for the research purpose.

VARIABLES IN HYPOTHESIS

DEPENDENT VARIABLE

An independent variable is a variable that a researcher can control and change,

INDEPENDENT VARIABLE

a dependent variable is a variable that the researcher measures and observes.

For example, regular exercise lowers the chances of a heart attack. In this example, the **regular exercise is an independent variable** and **probabilities of occurrence of heart attack is a dependent variable** that researchers can measure by observation.



Step 1. Have a question



Step 2. Do some preliminary research



Step 3. Formulation of hypothesis



Step 4. Refine the final hypothesis



Step 5. Use three methods to phrase your hypothesis



Step 6. Write the Null hypothesis

How to develop a reasonable research hypothesis?



SCAN ME