

**Good  
Afternoon**



# Presente

r:

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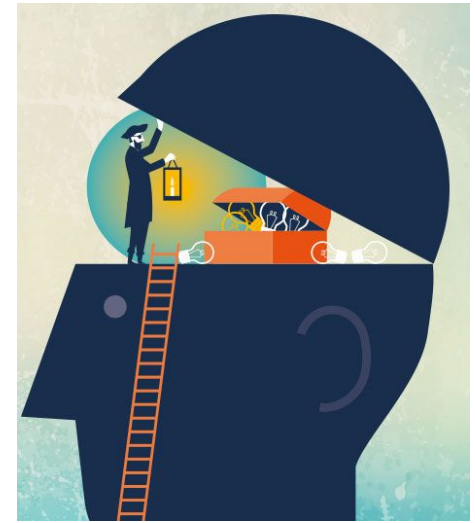


# RESEARCH METHODOLOGY





# Research???...



- Research – quest for knowledge

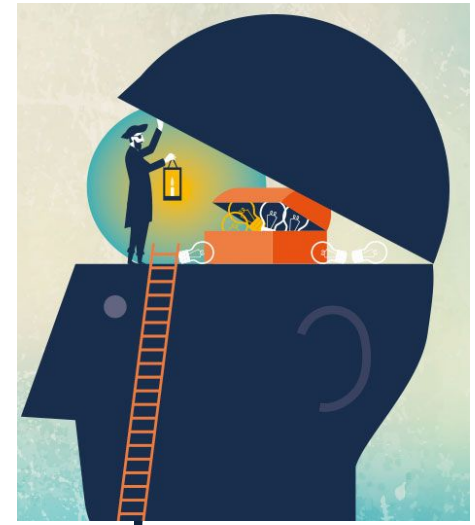
“Research is a quest for knowledge through diligent search or investigation or experimentation aimed at the discovery and interpretation of new knowledge.”

**-Health Research**

**Methodology, WHO.**



# Research???...



- Research is a **systematic** and **organized** way of finding answers to the questions.

**Systematic** - definite set of procedures and steps followed

**Organized** - a method/ structure is adopted

**Finding Answers** – Ultimate goal of the research

**Questions** – are central / vital to research



# Purpose of Research

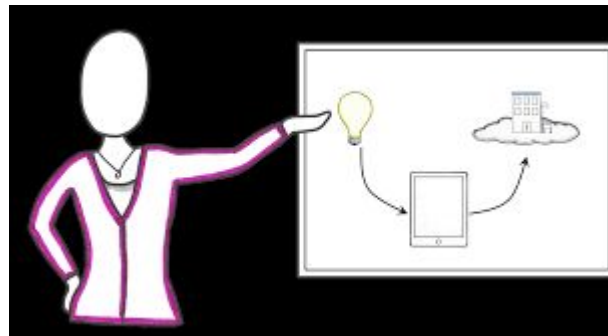
- Explore



- Describe

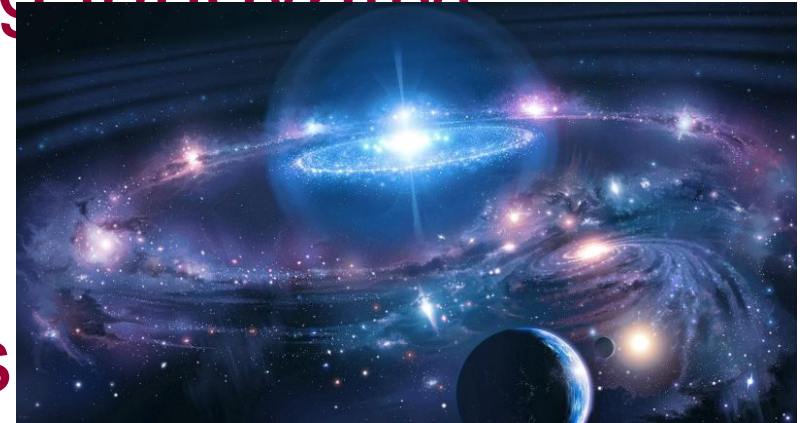


- Explain



# Classification

- **Basic:** Mainly for knowledge enhancement, no intention to create or invent anything innovative
- **Applied:** to solve practical problems





# Observational study: Classification

- **Descriptive study:** Describes the characteristics of population/sample or situation.
- ❖ Time, Place and People affected.



Village



Village



# Observational study: Classification

- **Analytical:** Helps to find out the relation or association between two variables.



Village  
A

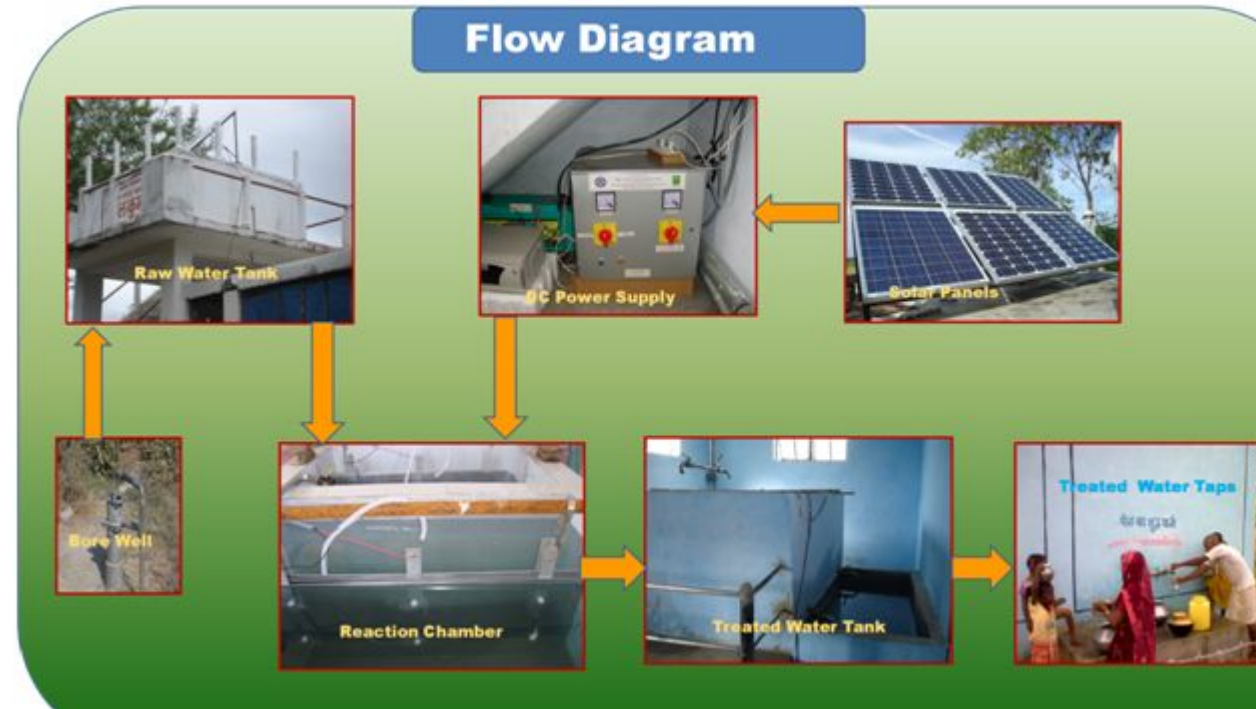


Village  
B



# Classification Experimental:

- **Experimental:** Establishes the causal relationship.
- ❖ Intervention or manipulation



DEFLUORIDATIO



# Confounder



# Steps

1. Selection of research topic :

Feasible, Interesting, Novel, Ethical, Relevant –  
FINER.

[supporting documents\covid and anxiety.jpg](#)

2. Review of Literature: Gives information about  
available studies on the selected topic.

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3. Specify Aim and Objectives:



# Steps

4. Research Design:  
Based on the topic  
selected

5. Sample size calculation:  
Based on previous  
literature, pilot study

OBSERVATIONAL STUDY

Experimental Study

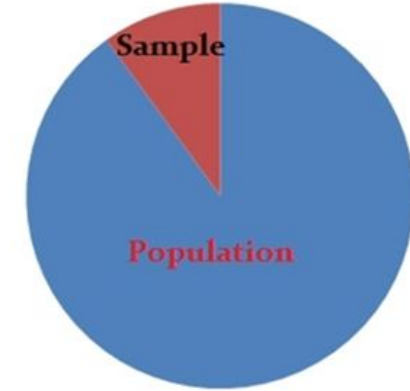
$$N = 4\sigma^2/d^2$$

$$n = \frac{(Z_{\alpha/2} + Z_{\beta})^2 \times 2\sigma^2}{(\mu_1 - \mu_2)^2}$$

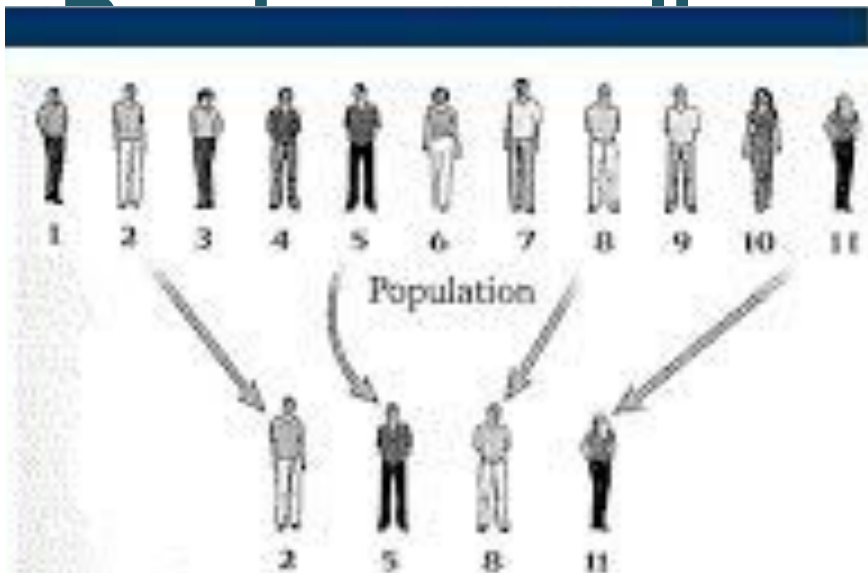


# Steps

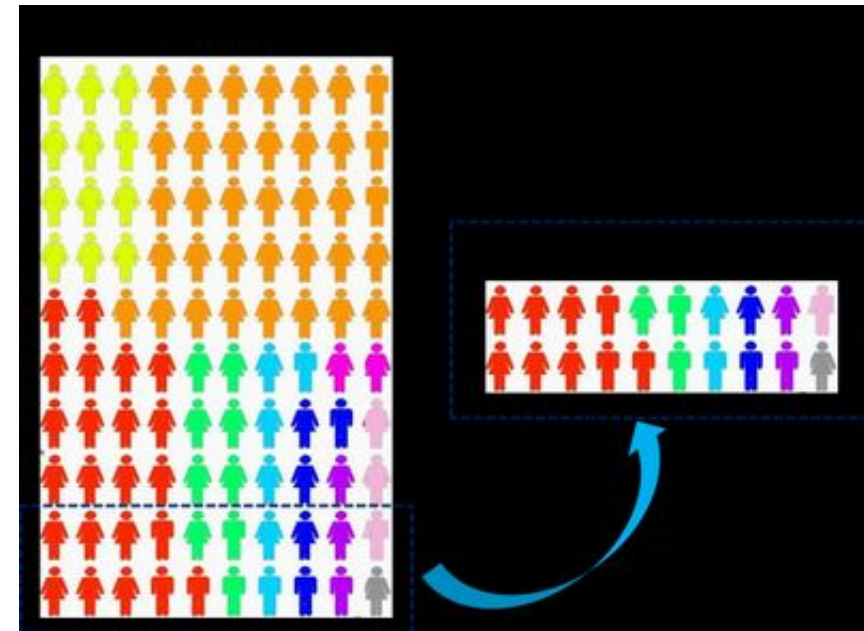
## 6. Sample selection: Sampling techniques



### a. Random sampling



### b. Non



# Steps

7. Collection of data:

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supporting documents\covid result excel sheet.xlsx

8. Analysis of data:

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# Steps

## 9. Preparation c manuscript:

CORONA VIRUS DISEASE — A DISASTER OR BIOLOGICAL WARFARE!!!...

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Since time immemorial humans are suffering from the infinite number of problem, diseases, caused by micro-organisms is not an exception. Microbiology is an amazing branch of medicine that is always appreciated for its monitoring of novel organisms which later becomes part and parcel of human life. But, till we get habituated what is the status of community!!!. When very little is known about the disease, its mechanism, clinical features, no definite drug to treat, at last, a fetching vaccine is a dream... Imagine the condition of the country, when the spread of the disease is just like a slow poison never gets to know when the person is infected till the incubation days get over and involves many people with whomsoever they come in contact!!!. One such Pandemic which has become uncracked nut for the health-care professionals, safeguarding authorities and the government is COVID.

By this time most of us know about COVID as it has become the celebrity on media by not sparing any arena from agriculture till technology, any person from poor till rich, younger to elders, we should truly respect the impartial feature of the virus. Now, the question it was it unintentional or intentional of the COVID native to introduce the world to one such threat when people are already suffering physically, mentally as well as socially. COVID has not only to have an effect on humans health but it is going to impact the economy of the country badly which requires years together to recover, in-turn affects the occupational status on an individual with lots of stress and tensions leading to mental illness.

According to WHO, Health means the state of an individual (which is never a state as it keeps changing), with physical, mental, and social well-being not just the absence of disease or death. Till now, we humans could meet social and physical components at-least if not mental to say we are healthy. COVID stole that independence even and locked humans at home or with a mask, when life was already running at great difficulty was it is necessary to have an additional effect? Imagine the condition of the vulnerable populations like pregnant ladies, children, elderly!!!.

# Steps

## 10. Publication of the study:



### Corona Virus Disease — A Disaster or Biological Warfare!!!...

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Since time immemorial humans are suffering from the infinite number of problem, diseases caused by micro-organisms are not an exception. Microbiology is an amazing branch of medicine that is always appreciated for its monitoring of novel organisms which later becomes part and parcel of human life. But, till we get habituated what is the status of community! When very little is known about the disease, its mechanism, clinical features, no definite drug to treat, at last, a fetching vaccine is a dream... Imagine the condition of the country, when the spread of the disease is just like a slow poison never gets to know when the person is infected till the incubation days get over and involves many people with whom ever they come in contact!!.. One such Pandemic which has become uncracked nut for the health-care professionals, safeguarding authorities and the government is COVID.

By this time most of us know about COVID as it has become the celebrity on media by not sparing any arena from agriculture till technology, any person from poor till rich, younger to elders, we should truly respect the impartial feature of the virus. Now, the question it was it unintentional or intentional of the COVID native to introduce the world to one such threat when people are already suffering physically, mentally as well as socially. COVID has not only to have an effect on humans health but it is going to impact the economy of the country badly which requires years together to recover, in-turn affects the occupational status on an individual with lots of stress and tensions leading to mental illness.

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Best part is people get to know each other better due to lockdown, which never happened before as all were busy in their world, but how when it becomes endless!!.. There is a limit to everything. Things in moderation are always better and safer. Another one year it takes everything to get back to normalcy!!...as destruction is always easy, construction is painful.

In the future, any other country for that matter COVID is a lesson learned, let it be intentional or unintentional its crucial to adopt and follow all precautionary measures in whatever we invent before it acquires humans. We, humans, are already in trouble to survive let all of us not steal the lives of others either by mistake or intentionally.

**Moral:** Any harm to the human at the present scenario is guilt it will have a ripple effect



# Ethical Implications in Research

- **To do good:**



- **To Do no Harm**



# Ethical implications in Research

- **Autonomy**

- i. **Respect for others:**



- ii. **Consent:**

**EMERGENCY MEDICAL CONSENT FORM**

\_\_\_\_\_ has my permission to obtain  
emergency medical treatment for my child, \_\_\_\_\_  
when I cannot be reached or if a delay in reaching my child would be dangerous for him/her.

**Mother/Guardian's Name** \_\_\_\_\_

Home Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**Father/Guardian's Name** \_\_\_\_\_

Home Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_



# Ethical implications in Research

- **Justice:**



- **Confidentiality:**



- **Veracity/Truthfulness**  
**SS:**



# Plagiarism



# Conclusion



Research is to see what everybody else has seen  
and to think what nobody else has thought.

(Albert Szent-Gyorgyi)



# Queries???...





Thank  
You

