# How to Identify Research Interest
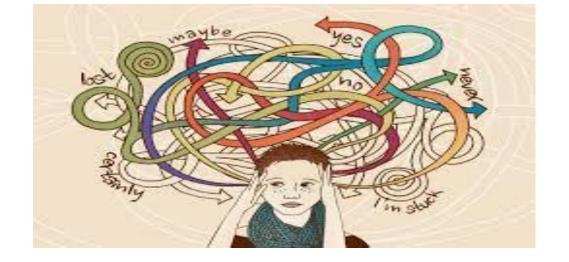
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- Research- Scares a lot of people

- State of mind-a friendly

- Problem solving mind

- Tomorrow mind instead of the Yesterday mind

- Begin with an intellectual itch, needs scratching

- 3 important characteristics
  - Research challenges
  - Creative
  - Systematic

# Need to know before start writing

- F-easible
- I-nteresting
- N-ovel
- E-thical
- R-elevant
- Time

# What to include in Research Proposal

- Title
- Introduction
- Literature Review
- Importance of the Study
- Objectives
- Study Design
- Identify the Population
- Describe the Setting

- Outcomes
- Data Collection Plan
- Data Analysis
- Study Limitations
- Ethical Considerations
- References

# Aims and Objectives

- Base for the research

- Summarize in general terms

- Close to the statement of the problem

- Clear what the author is going to do and for

  what purpose

# Cont:

- 1-3 sentences and concise

- *Example: The present study aims at evaluating the effect of mobilization in patients with knee Osteoarthritis.*

- *The present study was conducted to study the prevalence of knee pain in patients with grade 2 knee osteoarthritis.*

# Formulating the Objectives

- Must fit into the problem statement
- Two common errors-
  - First, vaguely stated
  - Second, not presented according to priority
- Must contain-
  - What is to be achieved by the study
  - Obtaining answers to research questions/ testing hypothesis

- S-pecific
- M-easureable
- A-chievable
- R-ealistic
- T-ime

- <span style="color:red">Aim=</span> what you hope to achieve
- ***Example:*** *To investigate the relationship between gait parameters and pain among patients with Knee OA*

- <span style="color:green">Objective=</span> the action you will take in order to achieve the aim
- ***Example:*** *Data of pain and gait parameters will be extracted from different grades of knee OA patients*
- *Data will be analyzed to establish the correlation between gait parameters, pain and grades of knee OA.*

# Methodology/ Material and Methods

- Study Design
- Study Locations
- Study Settings
- Study Participants
- Sampling
- Selection criteria
  - Inclusion criteria
  - Exclusion criteria
- Outcome measures
- Procedures

# Methodology/ Material and Methods

- Study Design-
  - Objectives
  - Therapeutic area
  - Treatment comparison
  - Outcome
  - Phase of the trial

- Cross sectional study

- Case control study

- Cohort study

- Interventional study

- Sampling
  - Probability Sampling
  - Non-Probability Sampling

| Probability Sampling | Non-Probability Sampling |
|---|---|
| Simple Random Sampling | Convenience Sampling |
| Stratified Sampling | Purposive Sampling |
| Systematic Sampling | Quota Sampling |
| Cluster Sampling | Snowball Sampling |
| Multistage Sampling | |

# THANK YOU

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(PT)_Lecture_Research Methodology