17-11-2020

Study Design

Filtristical questions. To answer these questions we need to collect data with variability.

=) Dampling and observation table:

(asuaity vo consclutions )

A causes B to rappen

A & B happen together.

· correlation does not hecessarily imply causation.

= sampling methods

Random (Good way)

- · Simple handom sample
- · shratified
- · dustriced

Not random (Bad way)

- · voluntary blas
- · Contichance blas.

- 3) Observational studies vs Experiment:
  - i) Dample study , trying to infer a population parameter from a sea randomly octected sample.
- ii) Observational study ?
  - · We measure or survey members of a sampling without trying to affect them.
    - · main aim Finding causation is not the main

## iil Experiment +

we assign people or things to groups and apply some treatment to one of the groups; while the other group down not recieve the treatment.

## > Experiments

- . The condition should be Dimilar for both sets of people.
- . The experiment should be replicated
  - . marined piar.