

- each unit has an equal chance to be involved in the study.

Probabilistic Sampling

simple random sampling

- ① numbered list
- ② Decide on the sample size
- ③ select the required number of sampling unit. by using :
 - a. Lottery method
 - b. random number table .

systematic sampling

Individuals are chosen at regular intervals from the sampling frame

$$* \text{Interval size} = \frac{\text{Study Population}}{\text{Sample size}}$$

$$\text{ex: Interval size} = \frac{40000}{100} = 400$$

- كل 400 شخص باخذ واحد منهم.

stratified Sampling

Clubs items of whole population into different groups called strata, based on their similar characteristics

x ملة حطة :
 لو علمت حطة :
 حبة ال gender
 وكانت نسبة
 ال ذنات في
 المجتمع 60%
 لذنم تكون
 نسبة في
 ال sample
 بعتو 60%.

Cluster Sampling

selection of study units (clusters) instead of the selection individuals

- Advantage:

1. sampling frame is not required in this case.
2. sampling study population scattered over a large area.

x The final type of probabilistic sampling is:

- Multistage sampling.
- Involves more than one sampling method
- Does not require a initial sampling frame of whole population.
- Require sampling frame of final clusters
- Applicable to community based studies.

Nonprobabilistic sampling

Convenience Sampling



- people may or may not be typical of the population
- no accurate way to determine their representativeness
- advantage: saves time and money.

Snow ball sampling



- method by which the study subjects assist in obtaining other potential subjects. (networking).
- يعني بي بعض الـ أشخاص ما يجبووا يكتشفوا عن هوياء ناعم مثل: (اي بتقاطوا محذرات)، او يعني تا س يكون عندهم امراض نادرة.
- اذا عرفت شخص واحد عنده هائي المشاكل ممكن انه يولي على اشخاص تانية عندهم نفس المشاكل ولما اجمع عدد معين هيلج بقدر اعمل البجن بيتي.

Quota Sampling



- mean for securing potential subjects from the strata.
- variables of interest to the researcher: subject attributes such as ⇒ age, gender, educational background.
- توضيح: .
- نستعمل هذه الطريقة لضمان حق فئة معينة في المجتمع.
- مثل الكوتا النسائية.
- ف بتجاهل الـ percentage ما يتبع فكرة انه لو عندي 60% إناث في المجتمع لدرهم يكون فيه 60% إناث عن الـ sample.

Purposive Sampling



- "handpicking, judgmental"
- subject are chosen because:
- 1- They are typical or representative of the pop.
- 2- They are more experts in the field of research topic.