MR.RATHIDEVI

PROFESSOR

ICON

- 1) Define descriptive epidemiology?
 - * Descriptive epidemiology is the first phase of epidemiology investigation.
- * These studies are concerned with the observing the distribution of disease or health related characteristics in human population.

2) Define Epidemic?

(Epi=upon,demos=people

* The unusual occurrence in a community or region of disease, specific health related behavior (eg: Smoking)or other health related events (eg: Traffic accident) clearly in excess of "unexpected occurrence".

3) Define Endemic?

En=in,demos=people

*The constant presence of disease within a geographical area or the usual prevalence of a given diseases in a particular area

4) Define Pandemic?

Pan=all,demos=people

An epidemic occurring over a very wide area, crossing international boundaries and usually affecting a large number of people.

eg:AIDS,Influenza,Corona

5) Define Hypothesis?

- * On the basis of time, place and person distribution or the agent, host, environment modes formulate hypothesis, to explain the epidermic in terms of
 - a) Possible source
 - b) causative agent
 - c) Possible modes of spread
 - d)environmental factor.

6) Define Case control Studies?

- *Case control studies are basically comparison studies.
- * Case and control must be comparable with respect to know "confounding factor" such as age, sex, occupation, and social status etc.

7) Define Cohort study?

*Cohort study is another type of analytical study which is usually undertaken to obtain additional evidence to refute or support the existence of an association between suspected cause and disease.

- * Cohort study is know by a variety of names
- *Prospective study
- *Longitudinal study
- *Incidence study
- *Forward -looking study.
- 8) Define uses of descriptive epidemiology?
 - * Provide data.
 - * Provide clues to etiology.
 - * Provide background for planning, organizing and evaluating, preventive and curative services.
 - * Contribute to research.
- 9) List out advantages and disadvantages of case control studies?

ADVANTAGES:

- * Relatively easy to carry out.
- *Rapid and inexpensive (Compared with cohort studies).
- *Require comparatively few subjects.
- *Ethical problems minimal.

DISADVANTAGES:

- *Selection of an appropriate control group may be difficult.
- *We cannot measure incidence, and can only estimate the relatives risk.
- *Do not distinguish between cause and associated factors.
- * Another major concern is the representative of cases and controls.
- 10) Write down the elements of cohorts study?
 - *Selection of study subjects.
 - *Observing data on exposure.
 - * Selection of comparison groups.
 - *Follow and
 - * Analysis.
 - 1. Difference between rate, ratio, proportion

Rate: A rate measures the occurrence of some particular events (development of disease or occurrence of death) in a defined population during a given time period.

Death rate = $\underline{\text{number of deaths in one year}}$ X 1000 Mid year population Ratio: It is the measure of disease frequency. It is expresses a relation in size between two random quantities.

Proportion: A proportion is a ratio which indicates the relation in magnitude of a part of the whole. A proportion is usually expressed as percentage.

2. Difference between Incidence and prevalence

Incidence: Incidence is defined as the number of NEW cases occurring in a defined population during a specific period of time.

Incidence = <u>number of new cases specific disease during a given time period</u> X 1000

Population at risk during that period

Prevalence: Disease prevalence refers specifically to all current cases (old&new) existing at a given point in time or over a period of time in a given population.

No.of all current cases of a specified disease existing at given point in time X 100 Estimated population at same point in time

3. Difference between Mortality and Morbidity

Mortality: A measure of the frequency of occurrence of death in a defined population during a specified interval of time.

Morbidity: Any departure subjective or objective from a state of physiological or psychological well being.