Notes

Rate= Number of cases / Population of the area in specific time period **X 100**

Ratio

Is a relative No. that express the magnitude of one occurrence in relation to the other.

(2 independents Groups) $\frac{a}{b}$

Secondary attack rate =

No. of secondary cases occurring within the accepted incubation period following exposure to a primary case / No. of exposed susceptible **X 100**

وما

I = incidence /D = duration / P= Prevalence

$$\text{Prevalence} = I * D$$

النصر

P = № of existing cases of a disease / total population at risk at a given point in time **X 100**

إلا

Period Prevalence =

№. of existing cases of a disease within time period / Average study population within time period X1000

Point Prevalence =

صبر

№. of existing cases of the disease at a point in time / Total study population at a point in time X1000

Incidence rate =

№ of new cases of a disease within a population in a given time period / № of persons exposed to risk of developing the disease in the same time period **X 1000**

ساعة

وما

النصر

إلا

صبر

ساعة

Crude death rate: =

№ of deaths in certain population in a year & locality

№ of population in the same year and locality

A. Age Specific Death Rate:

No. of persons dying in a certain age and a certain year and area X1000

Total № of the same age group in the same year and same area

B. Sex Specific Death Rate:

№ of deaths in a certain sex during a year in a certain locality X1000

Total № of the same sex during the same year &locality

3. Cause Specific Mortality Rate=

Total № of deaths due to a certain cause during a year and a given locality X 100

Estimated midyear population during the same year & locality

4. Case Fatality Rate=

Total №. of deaths from certain disease in specific time & place X1000

Total № of those having the same disease in the same time &plac

5. Proportionate Mortality Rates=

Total № of deaths due to a certain cause during a year in given locality X1000

Total № of deaths from all causes during the same year & locality

DALY = YLL + YLD

disability-adjusted life year (DALY)

years of life lost (YLLs) years of healthy life lost due to disability (YLDs)

Relative risk = incidence a / incidence b

Attributable risk = incidence a - incidence b / incidence a

$$OR = \frac{a/c}{b/d} = \frac{ad}{bc}$$

$$PAR = I_T - I_0$$

I_T is the incidence rate in the population

I_0 is the incidence rate in the unexposed group

$$PAR\% = \frac{PAR}{I_T} \times 100$$