

Formula Chart Handout Key

	Top #	Subtract Bottom #
Attributable risk P 165	Incidence rate in an exposed population	Incidence rate in a nonexposed population

Frequently Used Measures of Morbidity Measure

	Numerator	Denominator
Incidence proportion (or attack rate or risk) p154 & 156-7	Number of new cases of disease during specified time interval	Population at start of time interval
Incidence rate P 154-5	Number of new cases of disease during specified time interval	Summed person-years of observation or average population during time interval
Prevalence proportion P 155 box 7.1 & 156; ATI p 25	Number of existing cases in the population at a specific time	Population total at a given time
Point prevalence P 156	Number of current cases (new and preexisting) at a specified point in time	Population at the same specified point in time
Period prevalence P156	Number of current cases (new and preexisting) over a specified period of time	Average or mid-interval population

Frequently Used Measures of Mortality Measure—These involve a multiplier

	Numerator	Denominator
Crude death (mortality) rate P 157 & 163	Total number of deaths during a given time interval	Mid-interval population (The # of people in the population at mid-year)
Cause-specific death (mortality) rate P 157 & 163	Number of deaths assigned to a specific disease (cause) during a given time interval	Mid-interval population (The # of people in the population at mid-year)
Case specific death (mortality) rate P157 & 163	The number of deaths from a specific disease during a given time interval (1 year)	Number of people living with the disease during the same time frame (1 year.)
Neonatal mortality rate P 157	Number of deaths among children < 28 days of age during a given time interval (1 year)	Number of live births during the same time interval (1 year)
Infant mortality rate P 157	Number of deaths among children < 1 year of age during a given time interval (1 year)	Number of live births during the same time interval (1 year)
Maternal mortality rate P 157	Number of deaths assigned to pregnancy-related causes during a given time interval (1 year)	Number of live births during the same time interval (1 year)

Frequently Used Measures of Natality Measure

	Numerator	Denominator
Crude birth rate	Number of live births during a specified time interval	Mid-interval population