Common Epidemiological Equations

odule 1.

The following are some of	common equations used in epidemiology that were covered in mo
Prevalence	
	number of people with the disease
	size of population
Cumulative incidence	
	number of people who develop the disease
	the number of people who were initially at risk
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Incidence rate	
_	number of incident events
tl	he amount of person-time at risk for disease or condition
Case fatality	
	number of deaths
	total number of cases with the disease
Cumulative mortality	
	number of deaths
	number initially at risk for dying of that disease
Proportional mortality	,
	number of deaths
	total number of deaths

Relative risk

risk of the disease in exposed risk of the disease in the unexposed

	Outcome	No outcome	
Exposed	Α	В	A + B
Unexposed	С	D	C + D

Cumulative incidence in exposed (CI_e) =
$$\frac{A}{A + B}$$

Cumulative incidence in unexposed (CI_u) = $\frac{C}{C + D}$

Relative risk (RR) = $\frac{A / A + B}{C / C + D}$

Odds ratio

	Outcome	No outcome
Exposed	Α	В
Unexposed	С	D