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## Summary of Epidemiologic Measures of Occurrence

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View Legal Code	Prevalence	Risk	Rate	Odds
Abbreviation	Р	R	IR	0
		Cumulative incidence	Incidence rate	
Synonyms	Prevalence proportion	Incidence proportion	Incidence density	Incidence odds
			Proportion of the population	
	Proportion of the population	Proportion of the population	who developed the health	
	living with a health condition (or	who developed the health	condition per unit of time at risk	Ratio of cases to non-cases
	history of a condition) at at	condition over the specified		[For EO - ratio of exposed to
Interpretation in words Sub-types	specific point or period in time	amount of follow-up time	follow-up time	unexposed]
	Period prevalence	•	· ·	Prevalence odds (PO)
	Point prevalence			Exposure odds (EO)
				Cases (incident or prevalent -
				depends on study design)
Numerator	Prevalent cases	Incident cases	Incident cases	[For EO - Exposed]
	Total study population at point			
	of inquiry (either an average			
	over a period of time or at a	Total at-risk study population at		Non-cases (controls)
Denominator		baseline	Total person-time at-risk	[For EO - Non-exposed]
Denominator includes		No - all subject must be free of		No for most odds
diseased subjects?	Yes	disease at baseline	disease at baseline	Yes for EO
Formula				Odds:(a+c)/(b+d)
(2x2 table abbreviations)	(a+c)/(a+b+c+d)	(a+c)/(a+b+c+d)	(a+c)/(total person-time at risk)	
		Cases per person (must report		
Units	Cases per person	time period of follow-up)	Cases per person-time	NONE
Range	0 - 1	0 - 1	0 - infinity	0 - infinity
		Per 100 (%); 1,000; 10,000; or	Per 1,000; 10,000; or 100,000	
Common scaling factor	Percent	100,000 population	person-years	Not scaled
				Case-control
	Cross-sectional			Cross-sectional (PO)
	Cohort (at baseline or for non-	Cohort	Cohort	Cohort
Common study designs	outcome variables)	Experimental	Experimental	Experimental
		Ecologic (group-level)	Ecologic (group-level)	Ecologic (group-level)
more the medsure is dised	Prevalence ratio	Risk ratio	Rate ratio	
Associated measures	Prevalence difference	Risk difference	Rate difference	Odds ratio
Associated measures				No for odds with prevalent
Requires prospective				cases
observation to ascertain				Yes for odds with incident
incident cases?	No	Yes	Yes	
		105	165	cases
		2x2 Table	Diseased	Non-diseased
		Exposed	а	b
				i .

Unexposed



Ricchetti-Masterson K, Lopes B, Yeatts KB. Summary of Epidemiologic Measures. UNC Gillings School of Global Public Health. August 2013.

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