

Odds Ratio

This is defined as the ratio of odds of disease among exposed (odds_1) and odds of disease among unexposed (odds_0).

$$\text{OR} = (\text{odds}_1) / (\text{odds}_0)$$

	Disease		
	Yes	No	
Unexposed	A	B	A+B
Exposed	C	D	C+D
Total	A+C	B+D	N = A+B+C+D

Using the above table, we can calculate the odds ratio using this formula:

$$OR = A/B \div C/D = AD/BC$$

Risk difference percentage (RD%) represents the proportion of cases in the exposed group that were actually caused by the exposure. This is equal to *attributable fraction for exposed* (see below). It is calculated as follows:

$$\text{RD\%} = (r_1 - r_0) / r_1$$

Links

Related Articles

- Attributable and Relative Risks, Odds Ratio

Bibliography

BENCKO, Vladimír. *Hygiene & Epidemiology : Selected Chapters*. 2nd edition. Karolinum, 2011. Chapter 6.1: Principles of epidemiological studies. ISBN 978-80-246-0793-1.