IDS 702

Odds and odds ratios

Definition of odds

Broad: measure of the likelihood of a particular outcome

Specific: ratio of the probability that an outcome occurs to the probability that it does not occur

Definition of odds ratio

Broad: quantifies the strength of association between two events

Specific: odds that an outcome will occur given a particular exposure, compared to the odds of the outcome occurring in the absence of that exposure

Example

Cataract+	Cataract-	Total
607	2011	2618

Hiller R, Kahn HA. Senile cataract extraction and diabetes. *Br J Ophtalmol.* 1976;60:283–286. doi: 10.1136/bjo.60.4.283

Example

	Cataract+	Cataract-	Total
Diabetes+	55	84	139
Diabetes-	552	1927	2479
Total	607	2011	2618

A note about interpretation

	Cataract+	Cataract-	Total
Diabetes+	55	84	139
Diabetes-	552	1927	2479
Total	607	2011	2618

- •"2.3x more likely to develop cataracts"

- •"2.3x the risk of developing cataracts"

Hiller R, Kahn HA. Senile cataract extraction and diabetes. *Br J Ophtalmol.* 1976;60:283–286. doi: 10.1136/bjo.60.4.283