

READY, SET, COMPARE

	Exposure(+)	Exposure(-)	
Outcome(+)	a	b	n ₃
Outcome(-)	c	d	n ₄
	n ₁	n ₂	N

APPROACHES	OPERATION	TEST
(1) Compare Means	$\frac{a/n_1}{b/n_2}$ <i>compared to</i>	Student t-test Ho: $\text{mean}_{\text{IoAPGAR}} - \text{mean}_{\text{hiAPGAR}} = 0$
(2) Distribution different from what is expected by chance	$\chi^2 = \sum \frac{(\text{Observed}-\text{Expected})^2}{\text{Expected}}$	Chi-squared Ho: Expected-Observed=0
(3) Relative Risk	$\frac{a/n_1}{b/n_2}$	Relative risk ratio Ho: $\frac{\text{RR}_{\text{IoAPGAR}}}{\text{RR}_{\text{hiAPGAR}}} = 1$
(4) Odds Ratio nb: odds=probability of being in one group versus the probability of not being in the group = a/c	$\frac{a \cdot d}{b \cdot c}$	Odds ratio Ho: $\frac{\text{ODDS}_{\text{IoAPGAR}}}{\text{ODDS}_{\text{hiAPGAR}}} = 1$