

[Inference for Categorical Variables](#)

Cochran-Mantel-haenszel test

A tool for adjusting out confounding of Z, if X -

> Z --> Y

looks at two binary categorical variables while adjusting for the value of a third categorical variable

Parametric One-Sample Inference of Categorical Variables

- one-sample proportion test
 - do NOT use Yate's continuity, so specify:
 - `prop.test(..., correct = FALSE)`
- χ^2 goodness of fit test
 - to ensure sufficient sample size: $n \cdot \text{cdotp}_{\{0\}} > 5$
 - don't use continuity corrections!
 - `chisq.test(..., correct = FALSE)`

NOTE: one-sample single proportion test gives a 95% CI - χ^2 does not!

Types of Probabilities

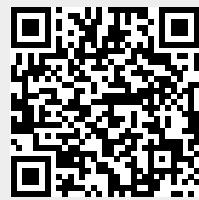
[Joint, Marginal and Conditional Probabilities](#)

- QI
 - [SQUIRE 2.0 for QI Reporting](#)
 - Stepped-wedge trial
 - [Link](#)
- Linear regression
 - [Q-Q plot](#)
 - plot of residuals
 - [Cook's Distance](#)
 - these are different!
 - correlative
 - descriptive
 - predictive
 - associative
- confounding vs. effect modification

[to assess a paired difference](#)

- create histogram
- plot as box plot
- make [Q-Q plot](#)

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