

## Inference for Categorical Variables

### Parametric One-Sample Inference of Categorical Variables

- one-sample proportion test
  - do NOT use Yate's continuity, so specify:
    - `prop.test(..., correct = FALSE)`
- $\chi^2$  goodness of fit test
  - to ensure sufficient sample size:  $n \cdot p_{i0} > 5$
  - don't use continuity corrections!
    - `chisq.test(..., correct = FALSE)`
- 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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