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Kruskal wallis test in r

"DataTab was a lifesaver for my master's thesis! The intuitive interface made complex statistical analysis so much easier.I could easily understand and apply the findings without getting lost in the numbers." Emily R., Psychology Graduate Student "As someone with no background in statistics, I was nervous about the analysis for my thesis. DataTab’s step-by-step guidance made it simple and stress-free. It was like having a tutor by my side!" Michael T., Business Administration Master’s Student "Our team uses DataTab for analyzing patient outcomes, and it has significantly reduced the time spent on statistical reporting. The intuitive interface and automatic result interpretations ensure we stay on schedule for critical projects." Alex M., Data Analyst "DataTab has been a game-changer for my Six Sigma projects. It simplifies data analysis, and the interpretations are clear and actionable. It’s an indispensable tool for driving process improvement." Ryan J., Six Sigma Black Belt Alternative to statistical software like SPSS and Minitab DATAtab was designed for ease of use and is a compelling alternative to statistical programs such as SPSS, Minitab and STATA. On datatab.net, data can be statistically evaluated directly online and very easily (e.g. t-test, regression, correlation etc.). DATAtab's goal is to make the world of statistical data analysis as simple as possible, no installation and easy to use. class: center, middle, inverse, title-slide # Non-parametric tests ### Yue Jiang ### Duke University --- ### Why nonparametric methods? For the methods we have studied so far, we have assumed the populations from which the data were drawn were either normally distributed or approximately so. This is a necessary property for the tests to be valid. Because the distributional form is assumed known, with only values of `\(\mu\)` and `\(\sigma\)` unknown, these methods are known as .vocab[parametric] methods. .vocab[Nonparametric methods] make fewer assumptions about the nature of the underlying distributions and may be appropriate when some assumptions of parametric methods are not satisfied. --- ### Sign test The .vocab[sign test] is a nonparametric alternative to the paired t-test. It does not assume normality but just requires that observations are independent. The null hypothesis of the sign test is that the median difference among pairs in the underlying population is 0. --- ### Sign test: cold data A medical researcher claims that a new vaccine will decrease the number of colds in adults. You randomly select 14 adults and record the number of colds each has in a one-year period. After giving the vaccine to each adult, you again record the number of colds each has in a one-year period. At `\(\alpha\)` = 0.05, do the data support the researcher’s claim? | # Colds| | :----- | - | - | -