Social Science Statistics

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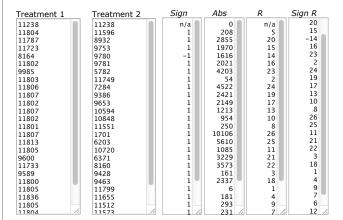
Wilcoxon Signed-Rank Test Calculator

Successi

Explanation of results

We have calculated both a W-value and Z-value. If the size of N is at least 20 - see the Results Details box - then the distribution of the Wilcoxon W statistic tends to form a normal distribution. This means you can use the Z-value to evaluate your hypothesis. If, on the other hand, the size of N is low, and particularly if it's below 10, you should use the W-value to evaluate your hypothesis.

You should also note that if a subject's difference score is zero - that is, if a subject has the same score in both treatment conditions - then the test discards the individual from the analysis and reduces the sample size. If you have a lot of ties, this procedure will undermine the reliability of the test (and also suggests that the requirement that the data is continuous has not been met).



Significance Level:

0.01

€0.05

1 or 2-tailed hypothesis?:

Two-tailed

Result Details

W-value: 14

Mean Difference: -190.73 Sum of pos. ranks: 337 Sum of neg. ranks: 14

Z-value: -4.1018

Mean (W): 175.5 Standard Deviation (W): 39.37

Sample Size (N): 26

Result 1 - Z-value

The Z-value is -4.1018. The p-value is 0. The result is significant at $p \le 0.05$.

The W-value is 14. The critical value of W for N = 26 at $p \le 0.05$ is 98. Therefore, the result is significant at p≤ 0.05.

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