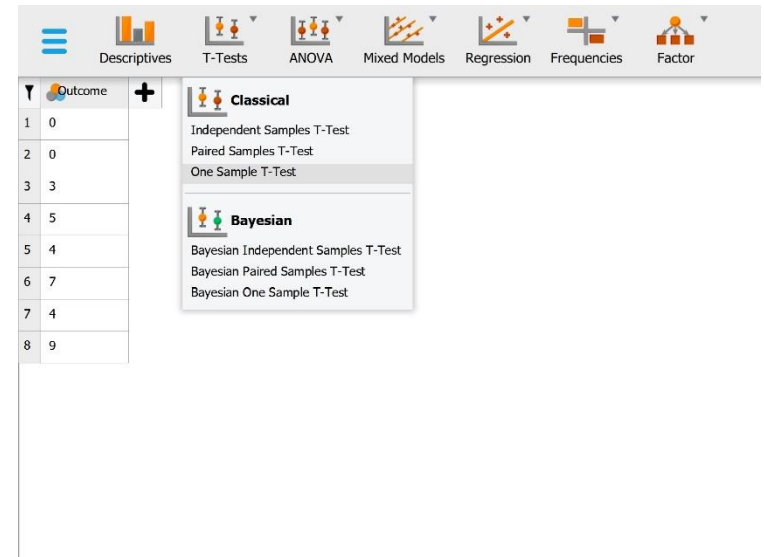


Confidence Interval for a Mean

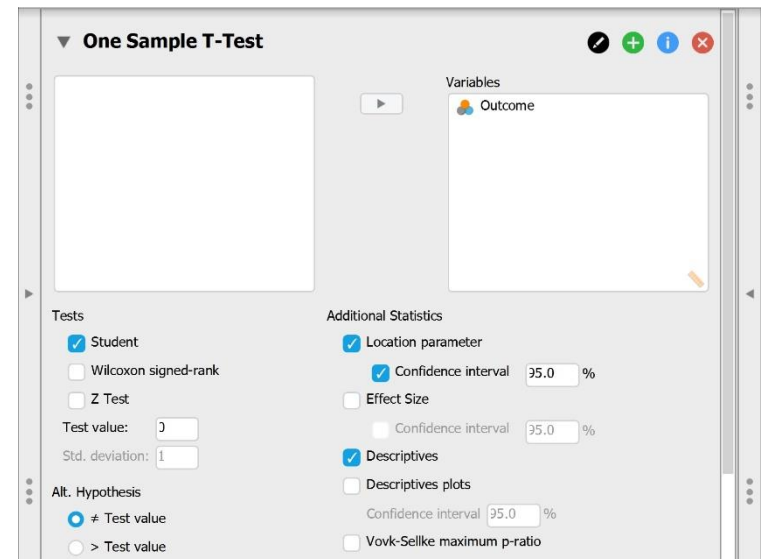
Obtaining One-Sample Inferential Statistics

1. First, enter the data (described elsewhere).
2. In the "Analyses" section of the menu, select the "T-Tests → One Sample T-Test" option.



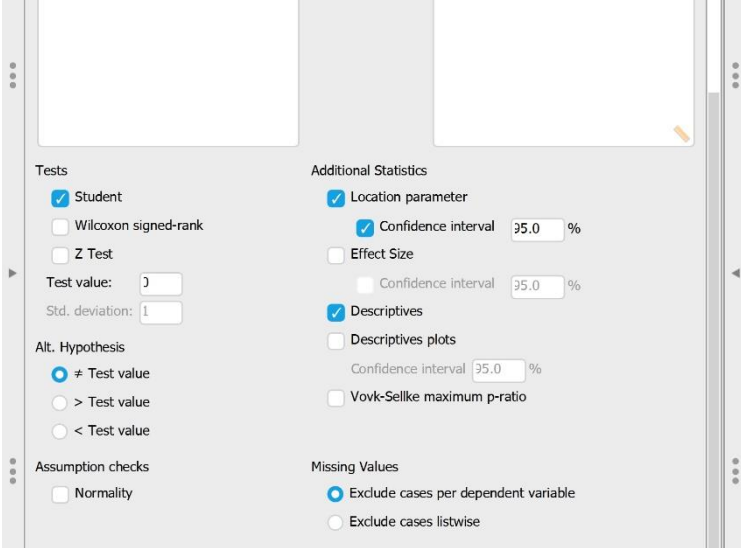
Choosing Variables

3. A set of options will then appear for you to choose the variables and statistics of interest.
4. Select the variable you wish to analyze by clicking on it in the left-hand box and then the arrow to move it into the right-hand box.
5. Output will automatically appear on the right side of the window.



Obtaining Inferential Statistics

6. To get the confidence interval for the mean, make sure the “Test Value” is set to zero.
7. Check the “Confidence Interval” box (and alter the width of the interval if desired).
8. Similarly, select other options that are important for you: “Descriptives” will offer a mean and standard deviation for the variable; and “Descriptives plots” will provide a graph of the confidence interval.
9. Updated output will automatically appear on the right side of the window.



The image shows a screenshot of the SPSS 'Tests' dialog box. The 'Tests' section on the left has 'Student' checked, with 'Test value' set to 0 and 'Std. deviation' set to 1. 'Alt. Hypothesis' is set to '≠ Test value'. 'Assumption checks' has 'Normality' checked. The 'Additional Statistics' section on the right has 'Location parameter' checked, 'Confidence interval' checked with a width of 95.0%, 'Effect Size' unchecked, 'Descriptives' checked, 'Descriptives plots' unchecked, and 'Vovk-Sellke maximum p-ratio' unchecked. The 'Missing Values' section at the bottom has 'Exclude cases per dependent variable' selected.

Tests

- ☒ Student
 - Test value: 0
 - Std. deviation: 1
- ☐ Wilcoxon signed-rank
- ☐ Z Test

Alt. Hypothesis

- ☒ ≠ Test value
- ☐ > Test value
- ☐ < Test value

Assumption checks

- ☒ Normality

Additional Statistics

- ☒ Location parameter
 - ☒ Confidence interval 95.0 %
 - ☐ Effect Size
 - Confidence interval 95.0 %
- ☒ Descriptives
 - ☐ Descriptives plots
 - Confidence interval 95.0 %
 - ☐ Vovk-Sellke maximum p-ratio

Missing Values

- ☒ Exclude cases per dependent variable
- ☐ Exclude cases listwise

Your data have now been analyzed!