

Example

NPARTESTS K-S(UNIFORM)=V1 /K-S(NORMAL,0,1)=V2.

Overview

NPARTESTS is a collection of nonparametric tests. These tests make minimal assumptions about the underlying distribution of the data.⁵⁰ In addition to the nonparametric tests that are available in NPARTESTS, the k -sample chi-square and Fisher's exact test are available in procedure CROSSTABS.

The tests that are available in NPARTESTS can be grouped into three broad categories based on how the data are organized: one-sample tests, related-samples tests, and independent-samples tests. A one-sample test analyzes one variable. A test for related samples compares two or more variables for the same set of cases. An independent-samples test analyzes one variable that is grouped by categories of another variable.

The one-sample tests that are available in procedure NPARTESTS are:

- BINOMIAL
- CHISQUARE
- K-S (Kolmogorov-Smirnov)
- RUNS

Tests for two related samples are:

- MCNEMAR
- SIGN
- WILCOXON

Tests for k related samples are:

- COCHRAN
- FRIEDMAN
- KENDALL

Tests for two independent samples are:

- M-W (Mann-Whitney)
- K-S (Kolmogorov-Smirnov)
- W-W (Wald-Wolfowitz)
- MOSES

Tests for k independent samples are:

- K-W (Kruskal-Wallis)
- MEDIAN

Options

Statistical Display. In addition to the tests, you can request univariate statistics, quartiles, and counts for all variables that are specified on the command. You can also control the pairing of variables in tests for two related samples.

Random Sampling. NPARTESTS must store cases in memory when computing tests that use ranks. You can use random sampling when there is not enough space to store all cases.

50. Siegel, S., and N. J. Castellan. 1988. *Nonparametric statistics for the behavioral sciences*. New York: McGraw-Hill, Inc..