Table 27-9 Friedman Two-Way Analysis of Variance by Ranks: Blood Pressure in Three Positions

```
*Nonparametric Tests: Related Samples.
NPTESTS
  /RELATED TEST(Level Elevated Down) FRIEDMAN(COMPARE=STEPWISE)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.
```

Nonparametric Tests

This test was run using Nonparametric Tests > Related Samples (Settings: Choose Tests: Customize > Friedman) ---In SPSS, double clicking on the Hypothesis Test Summary box will run results, which are shown below.

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distributions of Level, Elevated and Down are the same.	Related-Samples Friedman's Two-Way Analysis of Variance by Ranks	.008	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

Total N	6
Test Statistic	9.652
Degrees of Freedom	2
Asymptotic Sig. (2-sided test)	.008

Homogeneous Subsets

		Subset 1	Subset 2
Sample[1]	Level	1.083	
	Elevated		2.083
	Down		2.833
Test Statistic		.[2]	2.667
Sig. (2-sided test)		.	.102
Adjusted Sig. (2-sided test)		.	.102

Homogeneous subsets are based on asymptotic significances. The significance level is .05.

[1] Each cell shows the sample average rank.

[2] Unable to compute because the subset contains only one sample.

```
NPAR TESTS
  /FRIEDMAN=Level Elevated Down
  /STATISTICS DESCRIPTIVES
  /MISSING LISTWISE.
```

NPar Tests

This test was run using Nonparametric Tests > Legacy Dialogs > k Related Samples. This procedure does not perform multiple comparisons.

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Level	6	115.0000	10.48809	100.00	130.00
Elevated	6	134.1667	19.60017	100.00	155.00
Down	6	148.3333	24.01388	110.00	175.00

Friedman Test

Ranks

	Mean Rank
Level	1.08
Elevated	2.08
Down	2.83

Test Statistics[a]

N	6
Chi-Square	9.652
df	2
Asymp. Sig.	.008

a. Friedman Test