Table 27-5 Kruskal-Wallis One-Way Analysis of Variance by Ranks: Change in Pain

```
*Nonparametric Tests: Independent Samples.
NPTESTS
  /INDEPENDENT TEST (pain) GROUP (group) KRUSKAL_WALLIS(COMPARE=STEPWISE)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.
```

Nonparametric Tests

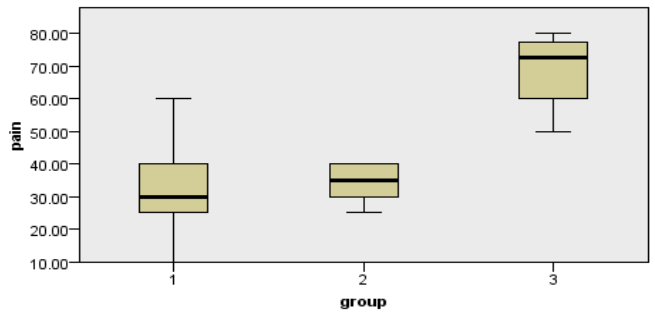
This test was run using Nonparametric Tests > Independent Samples. This method can run multiple comparisons. In SPSS, double clicking on the Hypothesis Test Summary would display further analysis. These results are shown below, including homogeneous subsets.

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of pain is the same across categories of group.	Independent-Samples Kruskal-Wallis Test	.025	Reject the null hypothesis.

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

Independent-Samples Kruskal-Wallis Test



Total N	14
Test Statistic	7.340
Degrees of Freedom	2
Asymptotic Sig. (2-sided test)	.025

1. The test statistic is adjusted for ties.

Homogeneous Subsets based on pain

		Subset 1	Subset 2
Sample[1]	1	5.400	
	2	5.800	
	3		12.250
Test Statistic		.102	.[2]
Sig. (2-sided test)		.750	.
Adjusted Sig. (2-sided test)		.750	.

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

[1]Each cell shows the sample average rank of pain.

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

```
NPAR TESTS
  /K-W=pain BY group(1 3)
  /MISSING ANALYSIS.
```

NPar Tests

This test was run using Nonparametric Tests > Legacy Dialogs > k Independent Samples.
It does not include multiple comparisons.

Kruskal-Wallis Test

Ranks

	group	N	Mean Rank
pain	1	5	5.40
	2	5	5.80
	3	4	12.25
	Total	14	

Test Statistics[a,b]

	pain
Kruskal-Wallis H	7.340
df	2
Asymp. Sig.	.025

a. Kruskal Wallis Test

b. Grouping Variable: group