

Table 27-3 Mann-Whitney U Test: Difference in Apgar Score with Cesarean and Vaginal Delivery

*Nonparametric Tests: Independent Samples.

NPTESTS

```
/INDEPENDENT TEST (APGAR) GROUP (group) MANN_WHITNEY
/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
/CRITERIA ALPHA=0.05 CILEVEL=95.
```

Nonparametric Tests

This test was run using Nonparametric Tests > Independent Samples. In SPSS, by double clicking on the Hypothesis Test Summary box, further analysis is displayed. This information is shown below.

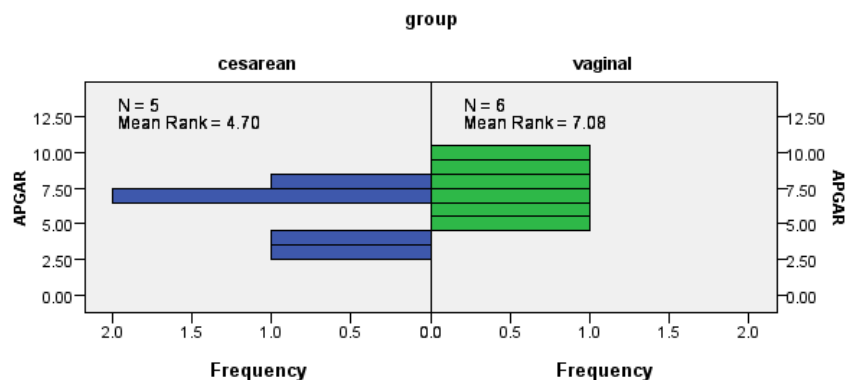
Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of APGAR is the same across categories of group.	Independent-Samples Mann-Whitney U Test	.247 ¹	Retain the null hypothesis.

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

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Independent-Samples Mann-Whitney U Test



Total N	11
Mann-Whitney U	21.500
Wilcoxon W	42.500
Test Statistic	21.500
Standard Error	5.415
Standardized Test Statistic	1.200
Asymptotic Sig. (2-sided test)	.230
Exact Sig. (2-sided test)	.247

NPAR TESTS

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/M-W= APGAR BY group(1 2)
/MISSING ANALYSIS.

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NPar Tests

This test was run using Nonparametric Tests > Legacy Dialogs > 2 Independent Samples

Mann-Whitney Test

		Ranks		
	group	N	Mean Rank	Sum of Ranks
APGAR	cesarean	5	4.70	23.50
	vaginal	6	7.08	42.50
	Total	11		

Test Statistics^a

	APGAR
Mann-Whitney U	8.500
Wilcoxon W	23.500
Z	-1.200
Asymp. Sig. (2-tailed)	.230
Exact Sig. [2*(1-tailed Sig.)]	.247 ^b

a. Grouping Variable: group

b. Not corrected for ties.