

# Tests for Two Independent Samples

## 1. Birthweight Data

### Mann-Whitney Test

Ranks

gp	N	Mean Rank	Sum of Ranks
BW A	9	5.33	48.00
B	8	13.13	105.00
Total	17		

Test Statistics<sup>b</sup>

	BW
Mann-Whitney U	3.000
Wilcoxon W	48.000
Z	-3.187
Asymp. Sig. (2-tailed)	.001
Exact Sig. [2*(1-tailed Sig.)]	.001 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: gp

## 2. Treadmill test Data

### Mann-Whitney Test

Ranks

Group	N	Mean Rank	Sum of Ranks
Time 1	8	12.63	101.00
2	10	7.00	70.00
Total	18		

Test Statistics<sup>b</sup>

	Time
Mann-Whitney U	15.000
Wilcoxon W	70.000
Z	-2.222
Asymp. Sig. (2-tailed)	.026
Exact Sig. [2*(1-tailed Sig.)]	.027 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: Group

## Two Dependent Samples (Paired Data)

### 1. Haemodialysis Data

#### Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
after - before	Negative Ranks	3 <sup>a</sup>	4.50	13.50
	Positive Ranks	8 <sup>b</sup>	6.56	52.50
	Ties	1 <sup>c</sup>		
	Total	12		

a. after < before

b. after > before

c. after = before

Test Statistics<sup>b</sup>

	after - before
Z	-1.736 <sup>a</sup>
Asymp. Sig. (2-tailed)	.083

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

### 2. PEFR/Asthma Data

#### Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
PERF after - PERF before	Negative Ranks	8 <sup>a</sup>	5.50	44.00
	Positive Ranks	1 <sup>b</sup>	1.00	1.00
	Ties	0 <sup>c</sup>		
	Total	9		

a. PERF after < PERF before

b. PERF after > PERF before

c. PERF after = PERF before

Test Statistics<sup>b</sup>

	PERF after - PERF before
Z	-2.549 <sup>a</sup>
Asymp. Sig. (2-tailed)	.011

a. Based on positive ranks.

b. Wilcoxon Signed Ranks Test