

Appendix 8

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	18(a)	13.08	235.50
	Positive Ranks	4(b)	4.38	17.50
	Ties	2(c)		
	Total	24		

a VAR00002 < VAR00001

b VAR00002 > VAR00001

c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-3.540(a)
Asymp. Sig. (2-tailed)	.000

a Based on positive ranks.

b Wilcoxon Signed Ranks Test

Figure 24 Wilcoxon analysis for GHQ Experimental Group Base v 3 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	19(a)	13.87	263.50
	Positive Ranks	5(b)	7.30	36.50
	Ties	0(c)		
	Total	24		

a VAR00002 < VAR00001

b VAR00002 > VAR00001

c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-3.244(a)
Asymp. Sig. (2-tailed)	.001

a Based on positive ranks.

b Wilcoxon Signed Ranks Test

Figure 25 Wilcoxon analysis for GHQ Experimental Group Base v 6 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	20(a)	11.35	227.00
	Positive Ranks	1(b)	4.00	4.00
	Ties	2(c)		
	Total	23		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-3.877(a)
Asymp. Sig. (2-tailed)	.000

- a Based on positive ranks.
- b Wilcoxon Signed Ranks Test

Figure 26 Wilcoxon analysis for GHQ Experimental Group Base v 12 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	12(a)	12.83	154.00
	Positive Ranks	11(b)	11.09	122.00
	Ties	3(c)		
	Total	26		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-.487(a)
Asymp. Sig. (2-tailed)	.626

- a Based on positive ranks.
- b Wilcoxon Signed Ranks Test

Figure 27 Wilcoxon analysis for GHQ Control Group Base v 3 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	9(a)	8.22	74.00
	Positive Ranks	8(b)	9.88	79.00
	Ties	1(c)		
	Total	18		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-.118(a)
Asymp. Sig. (2-tailed)	.906

- a Based on negative ranks.
- b Wilcoxon Signed Ranks Test

Figure 28 Wilcoxon analysis for GHQ Control Group Base v 6 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	5(a)	9.10	45.50
	Positive Ranks	8(b)	5.69	45.50
	Ties	1(c)		
	Total	14		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	.000(a)
Asymp. Sig. (2-tailed)	1.000

- a The sum of negative ranks equals the sum of positive ranks.
- b Wilcoxon Signed Ranks Test

Figure 29 Wilcoxon analysis for GHQ Control Group Base v 12 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	6(a)	6.92	41.50
	Positive Ranks	17(b)	13.79	234.50
	Ties	0(c)		
	Total	23		

- a VAR00002 < VAR00001
 b VAR00002 > VAR00001
 c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-2.935(a)
Asymp. Sig. (2-tailed)	.003

- a Based on negative ranks.
 b Wilcoxon Signed Ranks Test

Figure 30 Wilcoxon analysis for VAS Experimental Group Base v 3 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	4(a)	6.25	25.00
	Positive Ranks	19(b)	13.21	251.00
	Ties	0(c)		
	Total	23		

- a VAR00002 < VAR00001
 b VAR00002 > VAR00001
 c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-3.437(a)
Asymp. Sig. (2-tailed)	.001

- a Based on negative ranks.
 b Wilcoxon Signed Ranks Test

Figure 31 Wilcoxon analysis for VAS Experimental Group Base v 6 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	5(a)	6.80	34.00
	Positive Ranks	18(b)	13.44	242.00
	Ties	0(c)		
	Total	23		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-3.163(a)
Asymp. Sig. (2-tailed)	.002

- a Based on negative ranks.
- b Wilcoxon Signed Ranks Test

Figure 32 Wilcoxon analysis for VAS Experimental Group Base v 12 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	15(a)	12.47	187.00
	Positive Ranks	10(b)	13.80	138.00
	Ties	0(c)		
	Total	25		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-.659(a)
Asymp. Sig. (2-tailed)	.510

- a Based on positive ranks.
- b Wilcoxon Signed Ranks Test

Figure 33 Wilcoxon analysis for VAS Control Group Base v 3 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	13(a)	10.92	142.00
	Positive Ranks	5(b)	5.80	29.00
	Ties	0(c)		
	Total	18		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-2.461(a)
Asymp. Sig. (2-tailed)	.014

- a Based on positive ranks.
- b Wilcoxon Signed Ranks Test

Figure 34 Wilcoxon analysis for VAS Control Group Base v 6 Months

Ranks

		N	Mean Rank	Sum of Ranks
VAR00002 - VAR00001	Negative Ranks	12(a)	7.33	88.00
	Positive Ranks	2(b)	8.50	17.00
	Ties	0(c)		
	Total	14		

- a VAR00002 < VAR00001
- b VAR00002 > VAR00001
- c VAR00002 = VAR00001

Test Statistics(b)

	VAR00002 - VAR00001
Z	-2.229(a)
Asymp. Sig. (2-tailed)	.026

- a Based on positive ranks.
- b Wilcoxon Signed Ranks Test

Figure 35 Wilcoxon analysis for VAS Control Group Base v 12 Months

Mann-Whitney Test

Ranks

	VAR00001	N	Mean Rank	Sum of Ranks
VAR00002	1.00	24	31.81	763.50
	2.00	26	19.67	511.50
	Total	50		

Test Statistics(a)

	VAR00002
Mann-Whitney U	160.500
Wilcoxon W	511.500
Z	-2.945
Asymp. Sig. (2-tailed)	.003

a Grouping Variable: VAR00001

Figure 36 Mann-Whitney U-test analysis for GHQ Base – 3 months, Experimental Group v Control Group

Ranks

	VAR00001	N	Mean Rank	Sum of Ranks
VAR00002	1.00	24	26.33	632.00
	2.00	18	15.06	271.00
	Total	42		

Test Statistics(a)

	VAR00002
Mann-Whitney U	100.000
Wilcoxon W	271.000
Z	-2.950
Asymp. Sig. (2-tailed)	.003

a Grouping Variable: VAR00001

Figure 37 Mann-Whitney U-test analysis for GHQ Base – 6 months, Experimental Group v Control Group

Ranks

	VAR00001	N	Mean Rank	Sum of Ranks
VAR00002	1.00	23	23.09	531.00
	2.00	14	12.29	172.00
	Total	37		

Test Statistics(b)

	VAR00002
Mann-Whitney U	67.000
Wilcoxon W	172.000
Z	-2.946
Asymp. Sig. (2-tailed)	.003
Exact Sig. [2*(1-tailed Sig.)]	.003(a)

a Not corrected for ties.

b Grouping Variable: VAR00001

Figure 38 Mann-Whitney U-test analysis for GHQ Base – 12 months, Experimental Group v Control Group

Ranks

	VAR00001	N	Mean Rank	Sum of Ranks
VAR00002	1.00	23	18.46	424.50
	2.00	25	30.06	751.50
	Total	48		

Test Statistics(a)

	VAR00002
Mann-Whitney U	148.500
Wilcoxon W	424.500
Z	-2.869
Asymp. Sig. (2-tailed)	.004

a Grouping Variable: VAR00001

Figure 39 Mann-Whitney U-test analysis for VAS Base – 3 months, Experimental Group v Control Group

Ranks

	VAR00001	N	Mean Rank	Sum of Ranks
VAR00002	1.00	23	14.35	330.00
	2.00	18	29.50	531.00
	Total	41		

Test Statistics(a)

	VAR00002
Mann-Whitney U	54.000
Wilcoxon W	330.000
Z	-4.020
Asymp. Sig. (2-tailed)	.000

a Grouping Variable: VAR00001

Figure 40 Mann-Whitney U-test analysis for VAS Base – 6 months, Experimental Group v Control Group

Ranks

	VAR00001	N	Mean Rank	Sum of Ranks
VAR00002	1.00	23	13.87	319.00
	2.00	14	27.43	384.00
	Total	37		

Test Statistics(b)

	VAR00002
Mann-Whitney U	43.000
Wilcoxon W	319.000
Z	-3.695
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000(a)

a Not corrected for ties.

b Grouping Variable: VAR00001

Figure 41 Mann-Whitney U-test analysis for VAS Base – 12 months, Experimental Group v Control Group