Wilcoxon Results Report

Joseph Oliveira

7/5/2020

Contents

Comparisons

Each row represents a comparison.

Experimental vs. Control Groups

The total of Pre and the total of Post intervention responses for the Control group is compared to the total of Pre and the total of Post intervention responses for the Experimental group.

Group.x	Group.y	Time	Survey
Experimental	Control	Pre	FACES
Experimental	Control	Pre	AKS
Experimental	Control	Pre	FES
Experimental	Control	Pre	SCS
Experimental	Control	Pre	FPPS
Experimental	Control	Pre	SEAS
Experimental	Control	Post	FACES
Experimental	Control	Post	AKS
Experimental	Control	Post	FES
Experimental	Control	Post	SCS
Experimental	Control	Post	FPPS
Experimental	Control	Post	SEAS

Pre vs Post within Experimental and Control Groups

For each the Experimental and the Control group, the total of Pre intervention responses were compared to the total of Post intervention responses.

Time.x	Time.y	Group	Survey
Pre	Post	Experimental	FACES
Pre	Post	Experimental	AKS
Pre	Post	Experimental	FES
Pre	Post	Experimental	SCS
Pre	Post	Experimental	FPPS
Pre	Post	Experimental	SEAS
Pre	Post	Control	FACES
Pre	Post	Control	AKS
Pre	Post	Control	FES
Pre	Post	Control	SCS
Pre	Post	Control	FPPS
Pre	Post	Control	SEAS

Results

Experimental vs. Control Groups Results

- H_0: There is no difference between the distribution of {*Pre*, *Post*} *Experimental* group survey responses and the distribution {*Pre*, *Post*} *Control* group survey responses.
- H_A: The distribution of the {*Pre*, *Post*} *Experimental* group survey responses $\neq$ the distirbution of the {*Pre*, *Post*} *Control* group survey responses.

Time	Survey	Group.x	Group.y	Test Statistic	p	ES
Pre	AKS	Experimental	Control	20.0	0.2896778	5.000000
Post	AKS	Experimental	Control	36.0	0.5469450	9.000000
Post	FACES	Experimental	Control	42.0	0.2109217	10.500000
Pre	FACES	Experimental	Control	30.0	1.0000000	7.500000
Post	FES	Experimental	Control	43.0	0.1742049	10.750000
Pre	FES	Experimental	Control	33.0	0.7861121	8.250000
Pre	FPPS	Experimental	Control	28.0	0.0499907	8.082904
Post	FPPS	Experimental	Control	27.5	0.0603629	7.938566
Pre	SCS	Experimental	Control	21.5	0.3949381	6.206515
Post	SCS	Experimental	Control	17.5	0.8641908	5.051815
Post	SEAS	Experimental	Control	32.5	0.2990292	8.685990
Pre	SEAS	Experimental	Control	22.5	0.8971665	6.013378

Pre vs. Post Results

- H_0: There is no difference between the distribution of {*Experimental, Control*} *Pre* survey responses and the distribution of {*Experimental, Control*} *Post* survey responses.
- H_A: The mean of the distribution of the {*Pre*, *Post*} *Pre* survey responses $<$ the mean of the distribution of the {*Pre*, *Post*} *Post* survey responses.

Group	Survey	Time.x	Time.y	Test Statistic	p	ES
Experimental	AKS	Pre	Post	14	0.0920002	3.1304952
Control	AKS	Pre	Post	11	0.5839463	3.1754265
Experimental	FACES	Pre	Post	18	0.1791632	4.0249224
Control	FACES	Pre	Post	10	0.7907539	2.8867513
Experimental	FES	Pre	Post	1	0.0019531	0.2236068
Control	FES	Pre	Post	2	0.0887649	0.5773503
Experimental	FPPS	Pre	Post	8	0.1745382	2.0000000
Control	FPPS	Pre	Post	2	0.1875000	0.7071068
Experimental	SCS	Pre	Post	0	0.0107697	0.0000000
Control	SCS	Pre	Post	1	0.0987330	0.3535534
Experimental	SEAS	Pre	Post	3	0.0195313	0.7500000
Control	SEAS	Pre	Post	7	0.5000000	2.0207259

Test Statistic from Wilcoxon Test
p = P-Value
ES = Effect Size