

## MANOVA\_RESULTS\_SEL\_STUDY

### Between-Subjects Factors

	Value	Label	N
SEL	1.00	SEL	50
	2.00	Non SEL	50

### Descriptive Statistics

	SEL	Mean	Std. Deviation	N
Self Regulation	SEL	52.0000	4.46757	50
	Non SEL	44.1600	2.75799	50
	Total	48.0800	5.40049	100
Altruistic Behavior	SEL	52.9200	4.85227	50
	Non SEL	47.4400	3.87646	50
	Total	50.1800	5.16472	100

### Box's Test of Equality of Covariance Matrices<sup>a</sup>

Box's M	14.202
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F	4.629
df1	3
df2	1728720.000
Sig.	.003

Tests the null hypothesis that the observed covariance matrices of the dependent variables are equal across groups.

a. Design: Intercept + SEL

### Multivariate Tests<sup>a</sup>

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power <sup>c</sup>
Intercept	Pillai's Trace	.995	9082.562 <sup>b</sup>	2.000	97.000	.000	.995	18165.124	1.000
	Wilks' Lambda	.005	9082.562 <sup>b</sup>	2.000	97.000	.000	.995	18165.124	1.000
	Hotelling's Trace	187.269	9082.562 <sup>b</sup>	2.000	97.000	.000	.995	18165.124	1.000
	Roy's Largest Root	187.269	9082.562 <sup>b</sup>	2.000	97.000	.000	.995	18165.124	1.000
SEL	Pillai's Trace	.534	55.494 <sup>b</sup>	2.000	97.000	.000	.534	110.988	1.000
	Wilks' Lambda	.466	55.494 <sup>b</sup>	2.000	97.000	.000	.534	110.988	1.000
	Hotelling's Trace	1.144	55.494 <sup>b</sup>	2.000	97.000	.000	.534	110.988	1.000

Roy's Largest Root	1.144	55.494 <sup>b</sup>	2.000	97.000	.000	.534	110.988	1.000
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a. Design: Intercept + SEL

b. Exact statistic

c. Computed using alpha = ,05

### Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power <sup>c</sup>
Corrected Model	Self Regulation	1536.640 <sup>a</sup>	1	1536.640	111.489	.000	.532	111.489	1.000
	Altruistic Behavior	750.760 <sup>b</sup>	1	750.760	38.928	.000	.284	38.928	1.000
Intercept	Self Regulation	231168.640	1	231168.640	16772.186	.000	.994	16772.186	1.000
	Altruistic Behavior	251803.240	1	251803.240	13056.464	.000	.993	13056.464	1.000
SEL	Self Regulation	1536.640	1	1536.640	111.489	.000	.532	111.489	1.000
	Altruistic Behavior	750.760	1	750.760	38.928	.000	.284	38.928	1.000
Error	Self Regulation	1350.720	98	13.783					
	Altruistic Behavior	1890.000	98	19.286					
Total	Self Regulation	234056.000	100						
	Altruistic Behavior	254444.000	100						
Corrected Total	Self Regulation	2887.360	99						

Altruistic Behavior	2640.760	99						
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a. R Squared = .532 (Adjusted R Squared = .527)

b. R Squared = .284 (Adjusted R Squared = .277)

c. Computed using alpha = ,05

### Estimated Marginal Means

#### SEL

#### Estimates

Dependent Variable	SEL	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Self Regulation	SEL	52.000	.525	50.958	53.042
	Non SEL	44.160	.525	43.118	45.202
Altruistic Behavior	SEL	52.920	.621	51.688	54.152
	Non SEL	47.440	.621	46.208	48.672

#### Pairwise Comparisons

Dependent Variable	(I) SEL	(J) SEL	Mean Difference (I-J)	Std. Error	Sig. <sup>b</sup>	95% Confidence Interval for Difference <sup>b</sup>	
						Lower Bound	Upper Bound
Self Regulation	SEL	Non SEL	7.840*	.743	.000	6.367	9.313
	Non SEL	SEL	-7.840*	.743	.000	-9.313	-6.367
Altruistic Behavior	SEL	Non SEL	5.480*	.878	.000	3.737	7.223
	Non SEL	SEL	-5.480*	.878	.000	-7.223	-3.737

Based on estimated marginal means

\*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Bonferroni.

### Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power <sup>b</sup>
Pillai's trace	.534	55.494 <sup>a</sup>	2.000	97.000	.000	.534	110.988	1.000
Wilks' lambda	.466	55.494 <sup>a</sup>	2.000	97.000	.000	.534	110.988	1.000
Hotelling's trace	1.144	55.494 <sup>a</sup>	2.000	97.000	.000	.534	110.988	1.000
Roy's largest root	1.144	55.494 <sup>a</sup>	2.000	97.000	.000	.534	110.988	1.000

Each F tests the multivariate effect of SEL. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

b. Computed using alpha = ,05

### Univariate Tests

Dependent Variable		Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power <sup>a</sup>
Self Regulation	Contrast	1536.640	1	1536.640	111.489	.000	.532	111.489	1.000
	Error	1350.720	98	13.783					
Altruistic Behavior	Contrast	750.760	1	750.760	38.928	.000	.284	38.928	1.000
	Error	1890.000	98	19.286					

The F tests the effect of SEL. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Computed using alpha = ,05