General Linear Model

Warnings

Post hoc tests are not performed for Information because there are fewer than three groups.

Within-Subjects Factors

Measure: MEASURE_1

Time	Dependent Variable
1	ItemsObservedBeforeEarthquake
2	ItemsObservedDuringEarthquake
3	ItemsObservedAfterEarthquake

Between-Subjects Factors

		N
Information	Given	40
	Not Given	40

Descriptive Statistics

	Information	Mean	Std. Deviation	N
ItemsObservedBeforeEarthquake	Given	1.050	1.7824	40
	Not Given	1.350	2.0198	40
	Total	1.200	1.8987	80
ItemsObservedDuringEarthquake	Given	.275	.7506	40
	Not Given	.700	1.3996	40
	Total	.488	1.1362	80
ItemsObservedAfterEarthquake	Given	1.900	3.4403	40
	Not Given	1.650	2.4552	40
	Total	1.775	2.9723	80

Box's Test of Equality of Covariance Matrices[a]

Box's M	48.862
F	7.803
df1	6
df2	44080.302
Sig.	.000

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

a. Design: Intercept + Information
Within Subjects Design: Time

Multivariate Tests[a]

Effect		Value	F	Hypothesis df	Error df	Sig.
Time	Pillai's Trace	.219	10.771[b]	2.000	77.000	.000
	Wilks' Lambda	.781	10.771[b]	2.000	77.000	.000
	Hotelling's Trace	.280	10.771[b]	2.000	77.000	.000
	Roy's Largest Root	.280	10.771[b]	2.000	77.000	.000
Time * Information	Pillai's Trace	.026	1.017[b]	2.000	77.000	.366
	Wilks' Lambda	.974	1.017[b]	2.000	77.000	.366
	Hotelling's Trace	.026	1.017[b]	2.000	77.000	.366
	Roy's Largest Root	.026	1.017[b]	2.000	77.000	.366

Multivariate Tests[a]

Effect		Partial Eta Squared	Noncent. Parameter	Observed Power[c]
Time	Pillai's Trace	.219	21.542	.988
	Wilks' Lambda	.219	21.542	.988
	Hotelling's Trace	.219	21.542	.988
	Roy's Largest Root	.219	21.542	.988
Time * Information	Pillai's Trace	.026	2.034	.221
	Wilks' Lambda	.026	2.034	.221
	Hotelling's Trace	.026	2.034	.221
	Roy's Largest Root	.026	2.034	.221

a. Design: Intercept + Information
Within Subjects Design: Time

b. Exact statistic

c. Computed using alpha = .05

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon[b] Greenhouse-Geisser
Time	.583	41.493	2	.000	.706

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Time	.724	.500

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept + Information
Within Subjects Design: Time

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F
Time	Sphericity Assumed	66.558	2	33.279	16.987
	Greenhouse-Geisser	66.558	1.412	47.143	16.987
	Huynh-Feldt	66.558	1.449	45.946	16.987
	Lower-bound	66.558	1.000	66.558	16.987
Time * Information	Sphericity Assumed	5.158	2	2.579	1.317
	Greenhouse-Geisser	5.158	1.412	3.654	1.317
	Huynh-Feldt	5.158	1.449	3.561	1.317
	Lower-bound	5.158	1.000	5.158	1.317
Error(Time)	Sphericity Assumed	305.617	156	1.959	
	Greenhouse-Geisser	305.617	110.123	2.775	
	Huynh-Feldt	305.617	112.992	2.705	
	Lower-bound	305.617	78.000	3.918	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power[a]
Time	Sphericity Assumed	.000	.179	33.974	1.000
	Greenhouse-Geisser	.000	.179	23.983	.997
	Huynh-Feldt	.000	.179	24.608	.997
	Lower-bound	.000	.179	16.987	.983
Time * Information	Sphericity Assumed	.271	.017	2.633	.281
	Greenhouse-Geisser	.266	.017	1.859	.238
	Huynh-Feldt	.266	.017	1.907	.241
	Lower-bound	.255	.017	1.317	.205
Error(Time)	Sphericity Assumed				
	Greenhouse-Geisser				
	Huynh-Feldt				
	Lower-bound				

a. Computed using alpha = .05

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Type III Sum of Squares	df	Mean Square	F	Sig.
Time	Linear	13.225	1	13.225	8.990	.004
	Quadratic	53.333	1	53.333	21.795	.000
Time * Information	Linear	3.025	1	3.025	2.056	.156
	Quadratic	2.133	1	2.133	.872	.353
Error(Time)	Linear	114.750	78	1.471		
	Quadratic	190.867	78	2.447		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Partial Eta Squared	Noncent. Parameter	Observed Power[a]
Time	Linear	.103	8.990	.842
	Quadratic	.218	21.795	.996
Time * Information	Linear	.026	2.056	.294
	Quadratic	.011	.872	.152
Error(Time)	Linear			
	Quadratic			

a. Computed using alpha = .05

Levene's Test of Equality of Error Variances[a]

		Levene Statistic	df1	df2	Sig.
ItemsObservedBeforeEarthquake	Based on Mean	1.133	1	78	.290
	Based on Median	.496	1	78	.483
	Based on Median and with adjusted df	.496	1	76.812	.483
	Based on trimmed mean	.879	1	78	.351
ItemsObservedDuringEarthquake	Based on Mean	8.353	1	78	.005
	Based on Median	2.864	1	78	.095
	Based on Median and with adjusted df	2.864	1	59.721	.096
	Based on trimmed mean	6.657	1	78	.012
ItemsObservedAfterEarthquake	Based on Mean	.768	1	78	.384
	Based on Median	.140	1	78	.709
	Based on Median and with adjusted df	.140	1	70.544	.709
	Based on trimmed mean	.298	1	78	.587

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Information
Within Subjects Design: Time

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	319.704	1	319.704	32.283	.000	.293
Information	1.504	1	1.504	.152	.698	.002
Error	772.458	78	9.903			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power[a]
Intercept	32.283	1.000
Information	.152	.067
Error		

a. Computed using alpha = .05

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
1.154	.203	.750	1.559

2. Information

Estimates

Measure: MEASURE_1

Information	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Given	1.075	.287	.503	1.647
Not Given	1.233	.287	.661	1.805

Pairwise Comparisons

Measure: MEASURE_1

(I) Information	(J) Information	Mean Difference (I-J)	Std. Error	Sig.[a]	95% Confidence Interval for Difference[a]	
					Lower Bound	Upper Bound
Given	Not Given	-.158	.406	.698	-.967	.650
Not Given	Given	.158	.406	.698	-.650	.967

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests

Measure: MEASURE_1

	Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Contrast	.501	1	.501	.152	.698	.002
Error	257.486	78	3.301			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	.152	.067
Error		

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

a. Computed using alpha = .05

3. Time

Estimates

Measure: MEASURE_1

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	1.200	.213	.776	1.624
2	.488	.126	.238	.737
3	1.775	.334	1.110	2.440

Pairwise Comparisons

Measure: MEASURE_1

(I) Time	(J) Time	Mean Difference (I-J)	Std. Error	Sig.[b]	95% Confidence Interval for Difference[b]	
					Lower Bound	Upper Bound
1	2	.713*	.173	.000	.290	1.135
	3	-.575*	.192	.011	-1.044	-.106
2	1	-.713*	.173	.000	-1.135	-.290
	3	-1.287*	.283	.000	-1.981	-.594
3	1	.575*	.192	.011	.106	1.044
	2	1.288*	.283	.000	.594	1.981

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
Pillai's trace	.219	10.771[a]	2.000	77.000	.000	.219
Wilks' lambda	.781	10.771[a]	2.000	77.000	.000	.219
Hotelling's trace	.280	10.771[a]	2.000	77.000	.000	.219
Roy's largest root	.280	10.771[a]	2.000	77.000	.000	.219

Multivariate Tests

	Noncent. Parameter	Observed Power[b]
Pillai's trace	21.542	.988
Wilks' lambda	21.542	.988
Hotelling's trace	21.542	.988
Roy's largest root	21.542	.988

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

a. Exact statistic

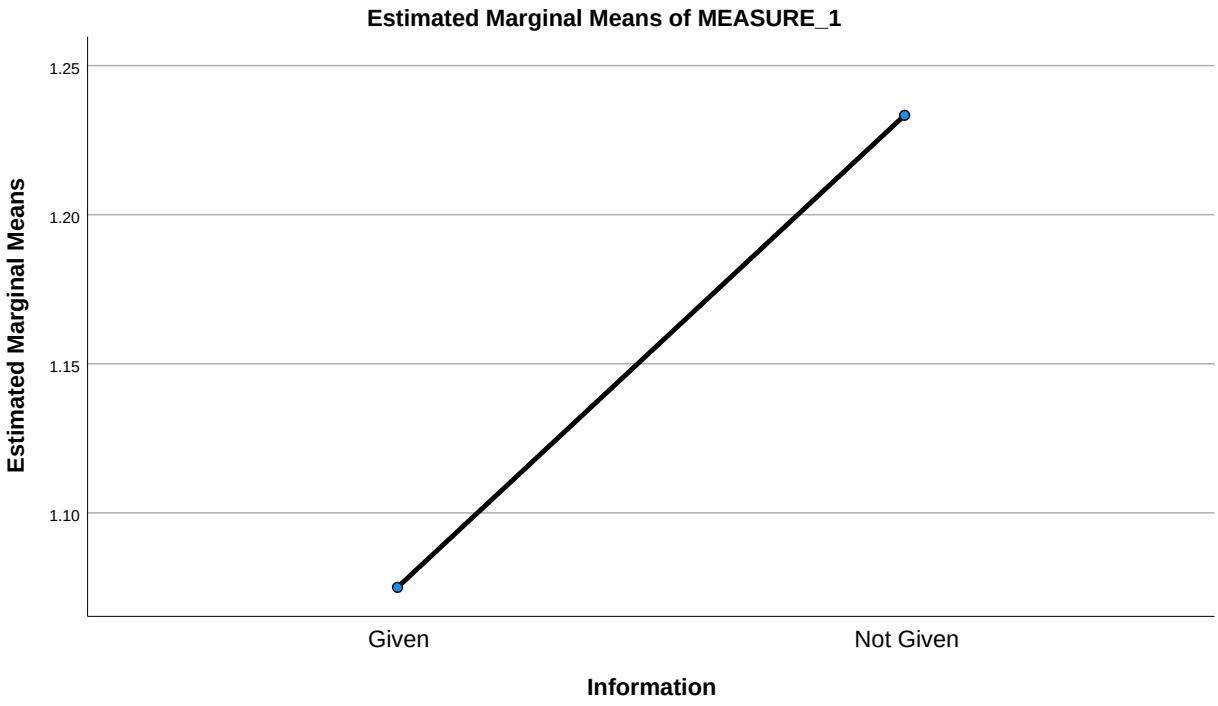
b. Computed using alpha = .05

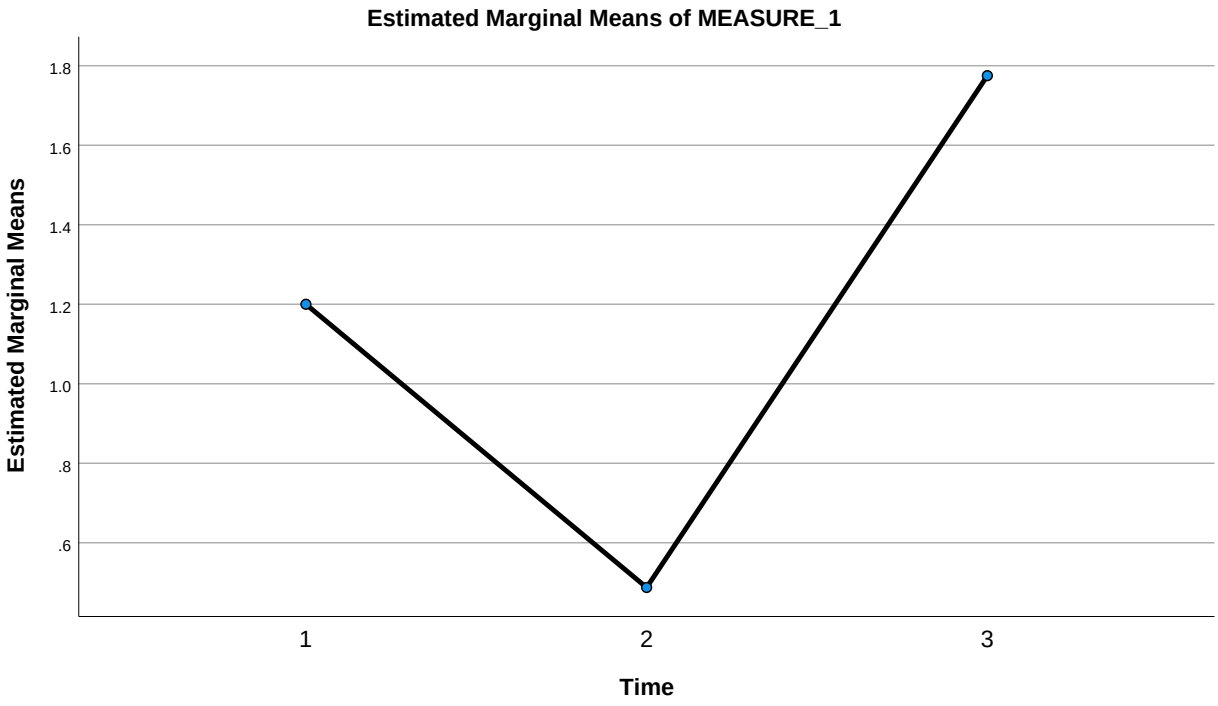
4. Information * Time

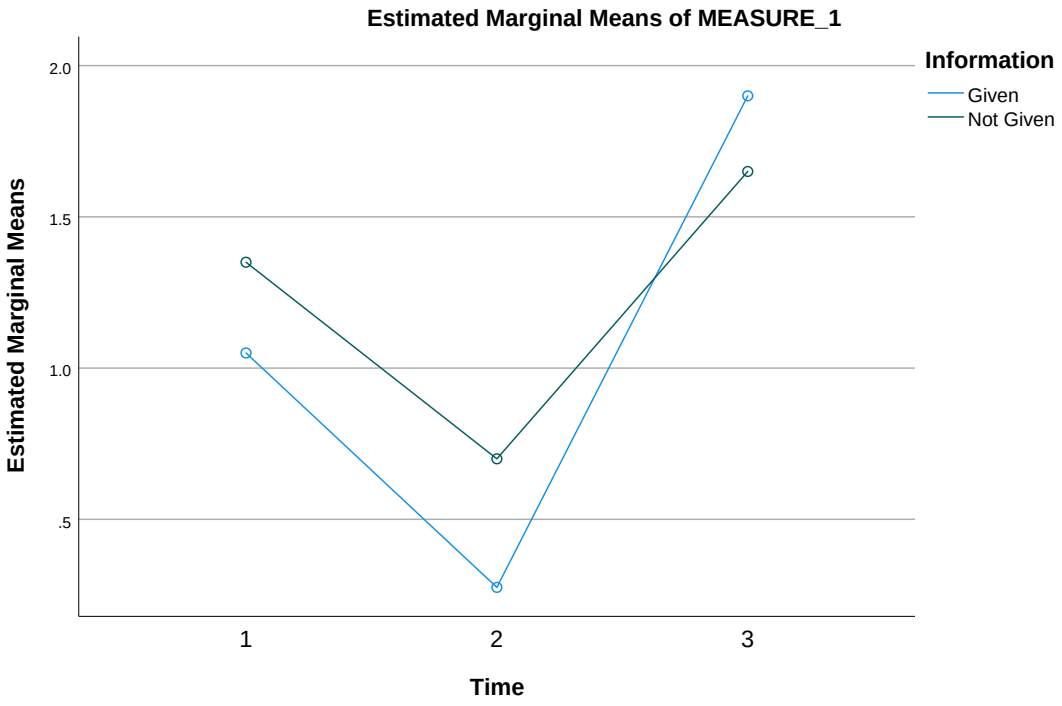
Measure: MEASURE_1

				95% Confidence Interval	
Information	Time	Mean	Std. Error	Lower Bound	Upper Bound
Given	1	1.050	.301	.450	1.650
	2	.275	.178	-.079	.629
	3	1.900	.473	.959	2.841
Not Given	1	1.350	.301	.750	1.950
	2	.700	.178	.346	1.054
	3	1.650	.473	.709	2.591

Profile Plots


Estimated Marginal Means of MEASURE_1
Estimated Marginal Means
1.25
1.20
1.15
1.10
Given
Not Given
Information


Estimated Marginal Means of MEASURE_1
Estimated Marginal Means
1.8
1.6
1.4
1.2
1.0
.8
.6
1
2
3
Time


Estimated Marginal Means of MEASURE_1
Information
Given
Not Given
Estimated Marginal Means
2.0
1.5
1.0
.5
1
2
3
Time