General Linear Model

Warnings

Post hoc tests are not performed for Task because there are fewer than three groups.
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	TotalSeatedDurationBeforeEarthquake
2	TotalSeatedDurationDuringEarthquake
3	TotalSeatedDurationAfterEarthquake

Between-Subjects Factors

		N
Task	Book Task	40
	No Task	40
Information	Given	40
	Not Given	40

Descriptive Statistics

	Task	Information	Mean	Std. Deviation	N
TotalSeatedDurationBeforeEarthquake	Book Task	Given	2.61440	4.888134	20
		Not Given	1.89845	6.750083	20
		Total	2.25642	5.828352	40
	No Task	Given	2.77935	8.570403	20
		Not Given	8.86110	15.722561	20
		Total	5.82023	12.872392	40
	Total	Given	2.69688	6.887074	40
		Not Given	5.37978	12.452240	40
		Total	4.03832	10.088891	80
TotalSeatedDurationDuringEarthquake	Book Task	Given	28.50330	18.491100	20
		Not Given	2.87925	5.802549	20
		Total	15.69128	18.743981	40
	No Task	Given	39.01210	14.130068	20
		Not Given	19.22410	22.839422	20
		Total	29.11810	21.255655	40
	Total	Given	33.75770	17.092779	40
		Not Given	11.05167	18.412933	40
		Total	22.40469	21.026818	80
TotalSeatedDurationAfterEarthquake	Book Task	Given	6.08060	8.815506	20
		Not Given	4.16890	16.736646	20
		Total	5.12475	13.238722	40
	No Task	Given	27.98590	30.316934	20
		Not Given	21.07630	29.603994	20
		Total	24.53110	29.782189	40
	Total	Given	17.03325	24.671267	40
		Not Given	12.62260	25.233436	40
		Total	14.82793	24.894610	80

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

Box's M	120.424
F	6.207
df1	18
df2	20410.896
Sig.	.000

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

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

Multivariate Tests[a]

Effect		Value	F	Hypothesis df	Error df
Time	Pillai's Trace	.572	50.095[b]	2.000	75.000
	Wilks' Lambda	.428	50.095[b]	2.000	75.000
	Hotelling's Trace	1.336	50.095[b]	2.000	75.000
	Roy's Largest Root	1.336	50.095[b]	2.000	75.000
Time * Task	Pillai's Trace	.162	7.262[b]	2.000	75.000
	Wilks' Lambda	.838	7.262[b]	2.000	75.000
	Hotelling's Trace	.194	7.262[b]	2.000	75.000
	Roy's Largest Root	.194	7.262[b]	2.000	75.000
Time * Information	Pillai's Trace	.371	22.163[b]	2.000	75.000
	Wilks' Lambda	.629	22.163[b]	2.000	75.000
	Hotelling's Trace	.591	22.163[b]	2.000	75.000
	Roy's Largest Root	.591	22.163[b]	2.000	75.000
Time * Task * Information	Pillai's Trace	.019	.714[b]	2.000	75.000
	Wilks' Lambda	.981	.714[b]	2.000	75.000
	Hotelling's Trace	.019	.714[b]	2.000	75.000
	Roy's Largest Root	.019	.714[b]	2.000	75.000

Multivariate Tests[a]

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Pillai's Trace	.000	.572	100.189
	Wilks' Lambda	.000	.572	100.189
	Hotelling's Trace	.000	.572	100.189
	Roy's Largest Root	.000	.572	100.189
Time * Task	Pillai's Trace	.001	.162	14.525
	Wilks' Lambda	.001	.162	14.525
	Hotelling's Trace	.001	.162	14.525
	Roy's Largest Root	.001	.162	14.525
Time * Information	Pillai's Trace	.000	.371	44.326
	Wilks' Lambda	.000	.371	44.326
	Hotelling's Trace	.000	.371	44.326
	Roy's Largest Root	.000	.371	44.326
Time * Task * Information	Pillai's Trace	.493	.019	1.428
	Wilks' Lambda	.493	.019	1.428
	Hotelling's Trace	.493	.019	1.428
	Roy's Largest Root	.493	.019	1.428

Multivariate Tests[a]

Effect		Observed Power[c]
Time	Pillai's Trace	1.000
	Wilks' Lambda	1.000
	Hotelling's Trace	1.000
	Roy's Largest Root	1.000
Time * Task	Pillai's Trace	.927
	Wilks' Lambda	.927
	Hotelling's Trace	.927
	Roy's Largest Root	.927
Time * Information	Pillai's Trace	1.000
	Wilks' Lambda	1.000
	Hotelling's Trace	1.000
	Roy's Largest Root	1.000
Time * Task * Information	Pillai's Trace	.166
	Wilks' Lambda	.166
	Hotelling's Trace	.166
	Roy's Largest Root	.166

a. Design: Intercept + Task + Information + Task * 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	.810	15.825	2	.000	.840

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Time	.891	.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 + Task + Information + Task * 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	13630.562	2	6815.281	28.929
	Greenhouse-Geisser	13630.562	1.680	8111.734	28.929
	Huynh-Feldt	13630.562	1.782	7649.575	28.929
	Lower-bound	13630.562	1.000	13630.562	28.929
Time * Task	Sphericity Assumed	2560.136	2	1280.068	5.433
	Greenhouse-Geisser	2560.136	1.680	1523.572	5.433
	Huynh-Feldt	2560.136	1.782	1436.768	5.433
	Lower-bound	2560.136	1.000	2560.136	5.433
Time * Information	Sphericity Assumed	6864.245	2	3432.122	14.568
	Greenhouse-Geisser	6864.245	1.680	4085.006	14.568
	Huynh-Feldt	6864.245	1.782	3852.266	14.568
	Lower-bound	6864.245	1.000	6864.245	14.568
Time * Task * Information	Sphericity Assumed	429.059	2	214.530	.911
	Greenhouse-Geisser	429.059	1.680	255.339	.911
	Huynh-Feldt	429.059	1.782	240.791	.911
	Lower-bound	429.059	1.000	429.059	.911
Error(Time)	Sphericity Assumed	35809.424	152	235.588	
	Greenhouse-Geisser	35809.424	127.707	280.404	
	Huynh-Feldt	35809.424	135.422	264.428	
	Lower-bound	35809.424	76.000	471.177	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Sphericity Assumed	.000	.276	57.858
	Greenhouse-Geisser	.000	.276	48.610
	Huynh-Feldt	.000	.276	51.547
	Lower-bound	.000	.276	28.929
Time * Task	Sphericity Assumed	.005	.067	10.867
	Greenhouse-Geisser	.008	.067	9.130
	Huynh-Feldt	.007	.067	9.682
	Lower-bound	.022	.067	5.433
Time * Information	Sphericity Assumed	.000	.161	29.137
	Greenhouse-Geisser	.000	.161	24.480
	Huynh-Feldt	.000	.161	25.959
	Lower-bound	.000	.161	14.568
Time * Task * Information	Sphericity Assumed	.404	.012	1.821
	Greenhouse-Geisser	.390	.012	1.530
	Huynh-Feldt	.395	.012	1.623
	Lower-bound	.343	.012	.911
Error(Time)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Observed Power[a]
Time	Sphericity Assumed	1.000
	Greenhouse-Geisser	1.000
	Huynh-Feldt	1.000
	Lower-bound	1.000
Time * Task	Sphericity Assumed	.841
	Greenhouse-Geisser	.790
	Huynh-Feldt	.808
	Lower-bound	.634
Time * Information	Sphericity Assumed	.999
	Greenhouse-Geisser	.996
	Huynh-Feldt	.997
	Lower-bound	.965
Time * Task * Information	Sphericity Assumed	.205
	Greenhouse-Geisser	.190
	Huynh-Feldt	.195
	Lower-bound	.156
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
Time	Linear	4656.619	1	4656.619	19.283
	Quadratic	8973.943	1	8973.943	39.070
Time * Task	Linear	2509.864	1	2509.864	10.393
	Quadratic	50.272	1	50.272	.219
Time * Information	Linear	503.185	1	503.185	2.084
	Quadratic	6361.060	1	6361.060	27.694
Time * Task * Information	Linear	347.840	1	347.840	1.440
	Quadratic	81.219	1	81.219	.354
Error(Time)	Linear	18352.959	76	241.486	
	Quadratic	17456.465	76	229.690	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power[a]
Time	Linear	.000	.202	19.283	.991
	Quadratic	.000	.340	39.070	1.000
Time * Task	Linear	.002	.120	10.393	.889
	Quadratic	.641	.003	.219	.075
Time * Information	Linear	.153	.027	2.084	.297
	Quadratic	.000	.267	27.694	.999
Time * Task * Information	Linear	.234	.019	1.440	.220
	Quadratic	.554	.005	.354	.090
Error(Time)	Linear				
	Quadratic				

a. Computed using alpha = .05

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

		Levene Statistic	df1	df2	Sig.
TotalSeatedDurationBeforeEarthquake	Based on Mean	8.298	3	76	.000
	Based on Median	2.150	3	76	.101
	Based on Median and with adjusted df	2.150	3	41.815	.108
	Based on trimmed mean	6.837	3	76	.000
TotalSeatedDurationDuringEarthquake	Based on Mean	11.181	3	76	.000
	Based on Median	5.733	3	76	.001
	Based on Median and with adjusted df	5.733	3	51.014	.002
	Based on trimmed mean	10.997	3	76	.000
TotalSeatedDurationAfterEarthquake	Based on Mean	8.006	3	76	.000
	Based on Median	4.451	3	76	.006
	Based on Median and with adjusted df	4.451	3	56.114	.007
	Based on trimmed mean	7.478	3	76	.000

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

a. Design: Intercept + Task + Information + Task * 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	45421.074	1	45421.074	103.487	.000	.577
Task	8831.599	1	8831.599	20.122	.000	.209
Information	3980.062	1	3980.062	9.068	.004	.107
Task * Information	97.177	1	97.177	.221	.639	.003
Error	33356.998	76	438.908			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power[a]
Intercept	103.487	1.000
Task	20.122	.993
Information	9.068	.844
Task * Information	.221	.075
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
13.757	1.352	11.064	16.450

2. Task

Estimates

Measure: MEASURE_1

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Book Task	7.691	1.912	3.882	11.500
No Task	19.823	1.912	16.014	23.632

Pairwise Comparisons

Measure: MEASURE_1

(I) Task	(J) Task	Mean Difference (I-J)	Std. Error	Sig.[b]	95% Confidence Interval for Difference[b]	
					Lower Bound	Upper Bound
Book Task	No Task	-12.132*	2.705	.000	-17.519	-6.746
No Task	Book Task	12.132*	2.705	.000	6.746	17.519

Based on estimated marginal means

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

b. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests

Measure: MEASURE_1

	Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Contrast	2943.866	1	2943.866	20.122	.000	.209
Error	11118.999	76	146.303			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	20.122	.993
Error		

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

a. Computed using alpha = .05

3. Information

Estimates

Measure: MEASURE_1

Information	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Given	17.829	1.912	14.020	21.638
Not Given	9.685	1.912	5.876	13.494

Pairwise Comparisons

Measure: MEASURE_1

(I) Information	(J) Information	Mean Difference (I-J)	Std. Error	Sig.[b]	95% Confidence Interval for Difference[b]	
					Lower Bound	Upper Bound
Given	Not Given	8.145*	2.705	.004	2.758	13.531
Not Given	Given	-8.145*	2.705	.004	-13.531	-2.758

Based on estimated marginal means

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

b. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests

Measure: MEASURE_1

	Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Contrast	1326.687	1	1326.687	9.068	.004	.107
Error	11118.999	76	146.303			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	9.068	.844
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

4. Time

Estimates

Measure: MEASURE_1

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	4.038	1.104	1.839	6.237
2	22.405	1.851	18.717	26.092
3	14.828	2.594	9.661	19.994

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	-18.366*	1.896	.000	-23.008	-13.725
	3	-10.790*	2.457	.000	-16.805	-4.774
2	1	18.366*	1.896	.000	13.725	23.008
	3	7.577*	2.835	.028	.636	14.517
3	1	10.790*	2.457	.000	4.774	16.805
	2	-7.577*	2.835	.028	-14.517	-.636

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	.572	50.095[a]	2.000	75.000	.000	.572
Wilks' lambda	.428	50.095[a]	2.000	75.000	.000	.572
Hotelling's trace	1.336	50.095[a]	2.000	75.000	.000	.572
Roy's largest root	1.336	50.095[a]	2.000	75.000	.000	.572

Multivariate Tests

	Noncent. Parameter	Observed Power[b]
Pillai's trace	100.189	1.000
Wilks' lambda	100.189	1.000
Hotelling's trace	100.189	1.000
Roy's largest root	100.189	1.000

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

5. Task * Information

Measure: MEASURE_1

Task	Information	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Book Task	Given	12.399	2.705	7.013	17.786
	Not Given	2.982	2.705	-2.405	8.369
No Task	Given	23.259	2.705	17.872	28.646
	Not Given	16.387	2.705	11.000	21.774

6. Task * Time

Measure: MEASURE_1

Task	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Book Task	1	2.256	1.561	-.854	5.366
	2	15.691	2.618	10.476	20.906
	3	5.125	3.669	-2.182	12.431
No Task	1	5.820	1.561	2.710	8.930
	2	29.118	2.618	23.903	34.333
	3	24.531	3.669	17.225	31.838

7. Information * Time

Measure: MEASURE_1

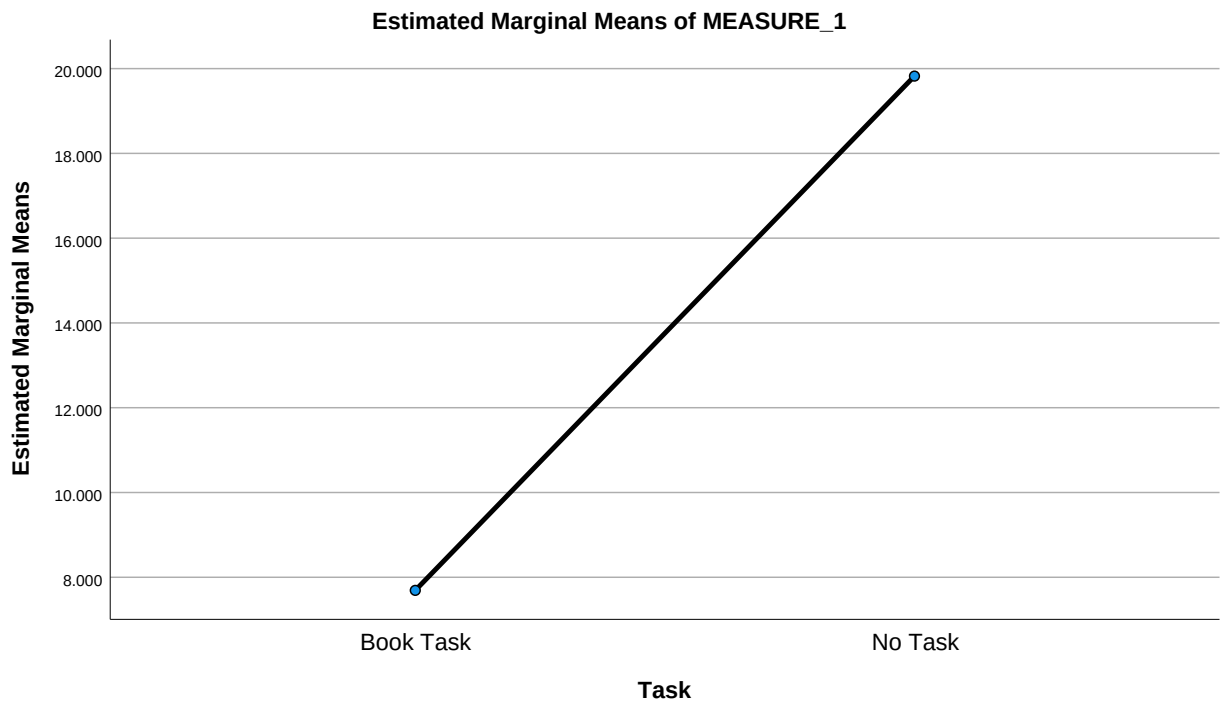
Information	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Given	1	2.697	1.561	-.413	5.807
	2	33.758	2.618	28.543	38.973
	3	17.033	3.669	9.727	24.340
Not Given	1	5.380	1.561	2.270	8.490
	2	11.052	2.618	5.837	16.266
	3	12.623	3.669	5.316	19.929

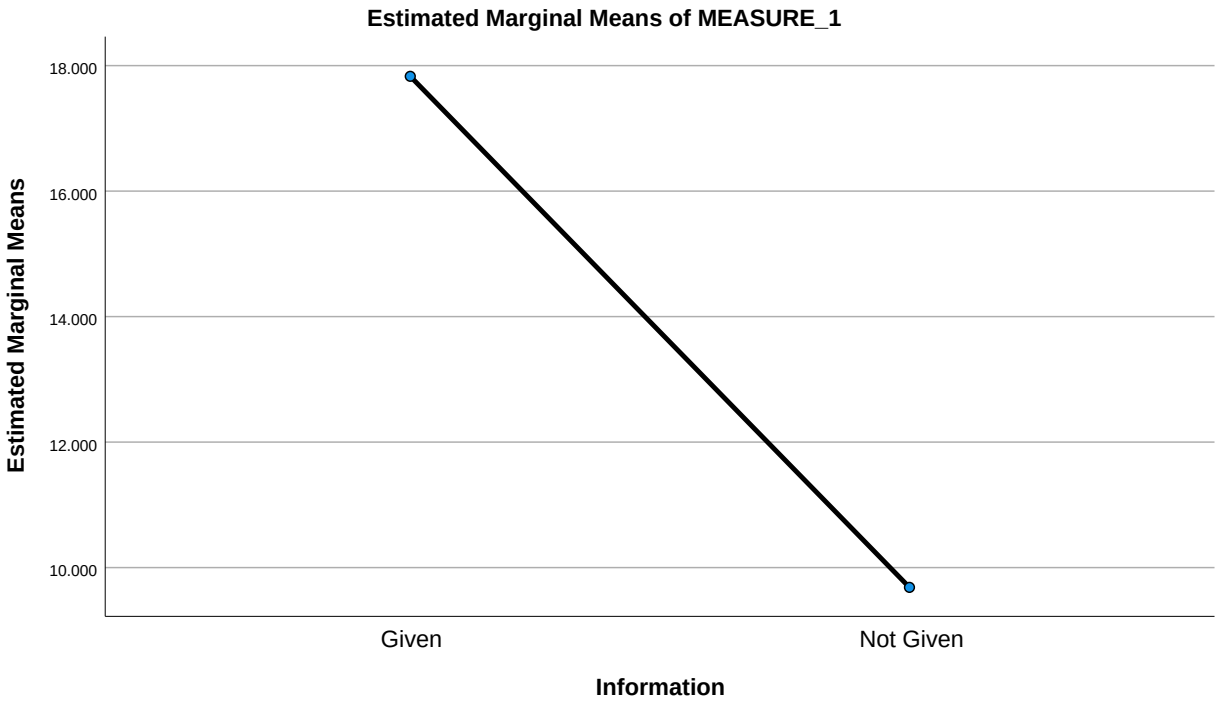
8. Task * Information * Time

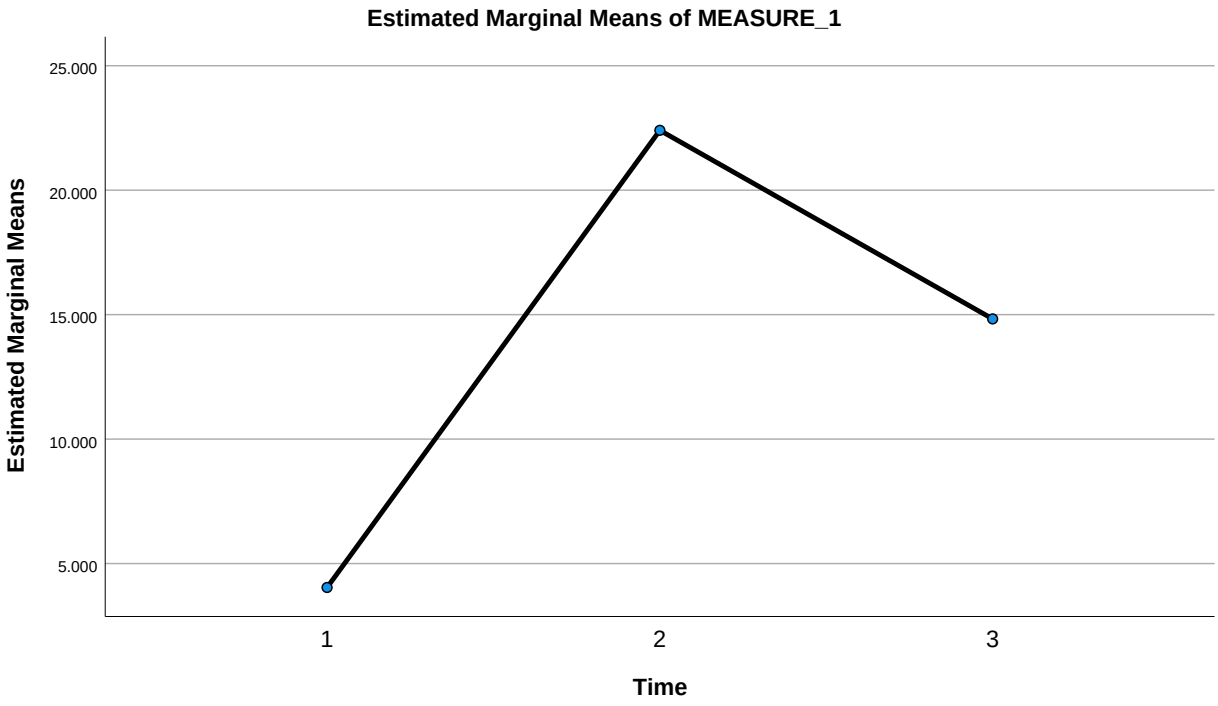
Measure: MEASURE_1

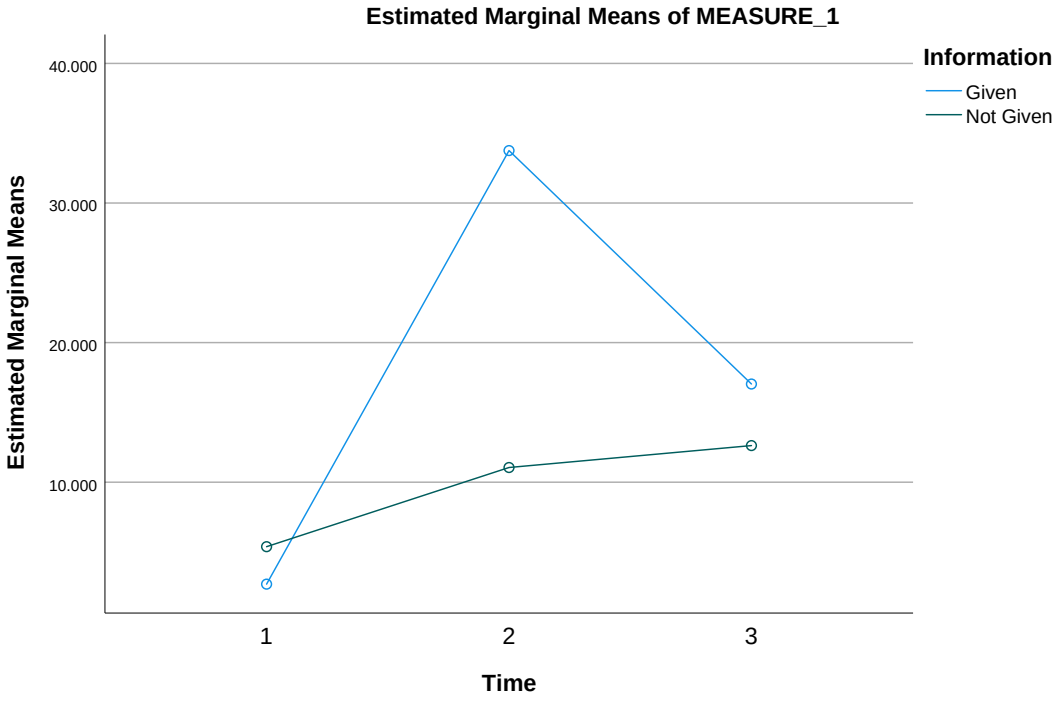
Task	Information	Time	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Book Task	Given	1	2.614	2.208	-1.784	7.013
		2	28.503	3.703	21.128	35.878
		3	6.081	5.188	-4.252	16.414
	Not Given	1	1.898	2.208	-2.500	6.297
		2	2.879	3.703	-4.496	10.254
		3	4.169	5.188	-6.164	14.502
No Task	Given	1	2.779	2.208	-1.619	7.177
		2	39.012	3.703	31.637	46.387
		3	27.986	5.188	17.653	38.319
	Not Given	1	8.861	2.208	4.463	13.259
		2	19.224	3.703	11.849	26.599
		3	21.076	5.188	10.743	31.409

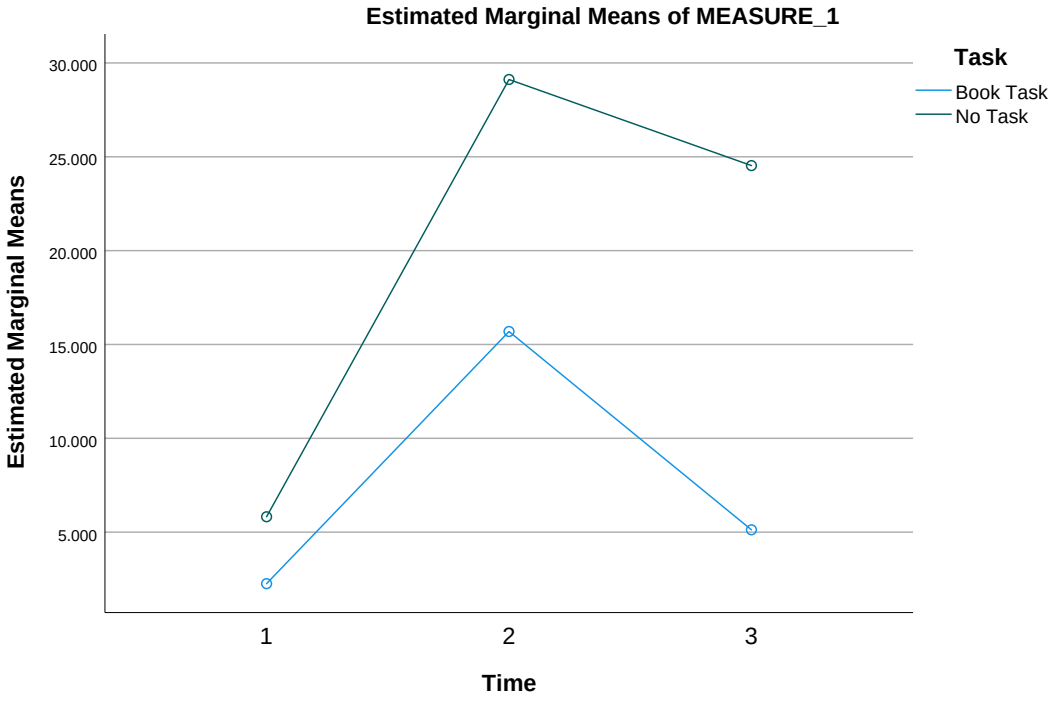
Profile Plots



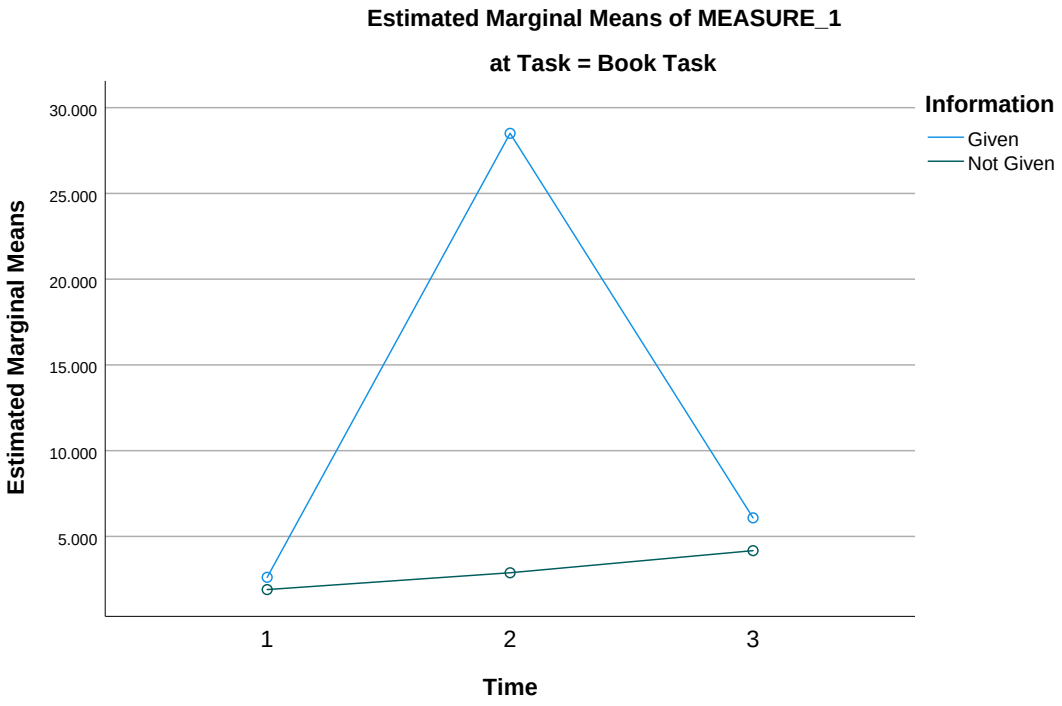

Estimated Marginal Means of MEASURE_1
Estimated Marginal Means
18.000
16.000
14.000
12.000
10.000
Given
Not Given
Information

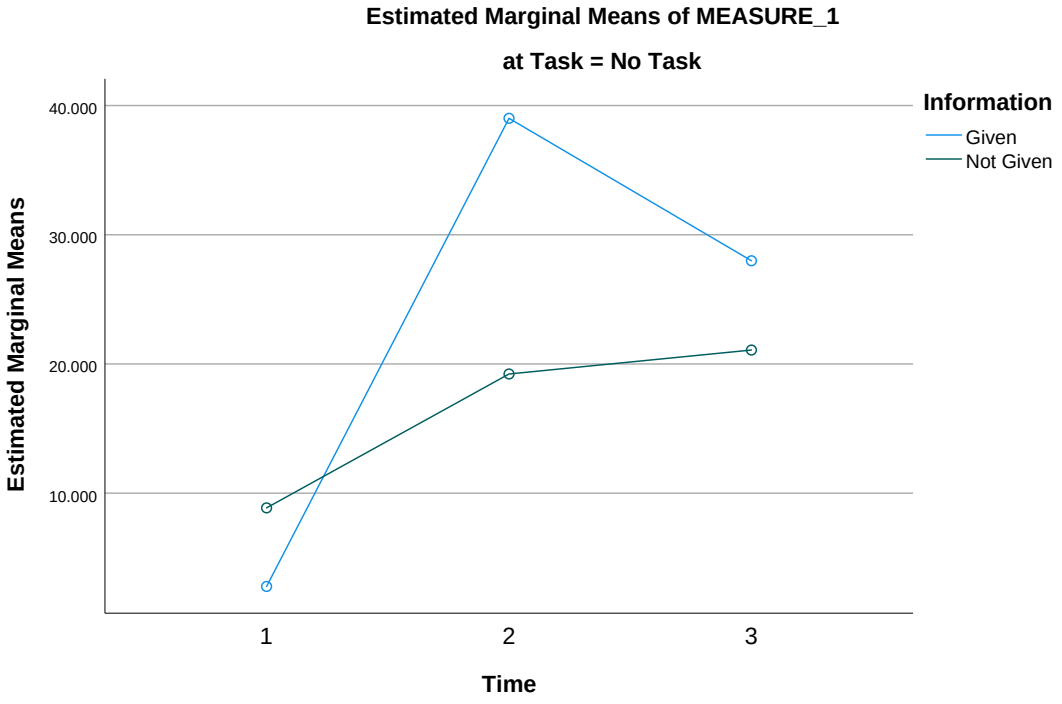

Estimated Marginal Means of MEASURE_1
Estimated Marginal Means
25.000
20.000
15.000
10.000
5.000
1
2
3
Time





Time * Information * Task


Estimated Marginal Means of MEASURE_1
at Task = Book Task
Estimated Marginal Means
30.000
25.000
20.000
15.000
10.000
5.000
1
2
3
Time
Information
Given
Not Given


Estimated Marginal Means of MEASURE_1
at Task = No Task
Estimated Marginal Means
40.000
30.000
20.000
10.000
1
2
3
Time
Information
Given
Not Given