

General Linear Model

Warnings

Box's Test of Equality of Covariance Matrices is not computed because there are fewer than two nonsingular cell covariance matrices.

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	TimeNearCornerBeforeEarthquake
2	TimeNearCornerDuringEarthquake
3	TimeNearCornerAfterEarthquake

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
TimeNearCornerBeforeEarthquake	Book Task	Given	.24705	1.104841	20
		Not Given	.00000	.000000	20
		Total	.12352	.781241	40
	No Task	Given	.00000	.000000	20
		Not Given	.00000	.000000	20
		Total	.00000	.000000	40
	Total	Given	.12352	.781241	40
		Not Given	.00000	.000000	40
		Total	.06176	.552421	80
TimeNearCornerDuringEarthquake	Book Task	Given	.05500	.245967	20
		Not Given	.11965	.517025	20
		Total	.08733	.400969	40
	No Task	Given	4.58770	11.751172	20
		Not Given	.05435	.216069	20
		Total	2.32103	8.518623	40
	Total	Given	2.32135	8.518929	40
		Not Given	.08700	.392515	40
		Total	1.20417	6.096450	80
TimeNearCornerAfterEarthquake	Book Task	Given	.00000	.000000	20
		Not Given	.00000	.000000	20
		Total	.00000	.000000	40
	No Task	Given	.78185	1.731644	20
		Not Given	.01510	.067529	20
		Total	.39847	1.270361	40
	Total	Given	.39093	1.271846	40
		Not Given	.00755	.047750	40
		Total	.19924	.914819	80

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df
Time	Pillai's Trace	.051	2.028 ^b	2.000	75.000
	Wilks' Lambda	.949	2.028 ^b	2.000	75.000
	Hotelling's Trace	.054	2.028 ^b	2.000	75.000
	Roy's Largest Root	.054	2.028 ^b	2.000	75.000
Time * Task	Pillai's Trace	.092	3.809 ^b	2.000	75.000
	Wilks' Lambda	.908	3.809 ^b	2.000	75.000
	Hotelling's Trace	.102	3.809 ^b	2.000	75.000
	Roy's Largest Root	.102	3.809 ^b	2.000	75.000
Time * Information	Pillai's Trace	.045	1.756 ^b	2.000	75.000
	Wilks' Lambda	.955	1.756 ^b	2.000	75.000
	Hotelling's Trace	.047	1.756 ^b	2.000	75.000
	Roy's Largest Root	.047	1.756 ^b	2.000	75.000
Time * Task * Information	Pillai's Trace	.091	3.753 ^b	2.000	75.000
	Wilks' Lambda	.909	3.753 ^b	2.000	75.000
	Hotelling's Trace	.100	3.753 ^b	2.000	75.000
	Roy's Largest Root	.100	3.753 ^b	2.000	75.000

Multivariate Tests^a

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Pillai's Trace	.139	.051	4.056
	Wilks' Lambda	.139	.051	4.056
	Hotelling's Trace	.139	.051	4.056
	Roy's Largest Root	.139	.051	4.056
Time * Task	Pillai's Trace	.027	.092	7.618
	Wilks' Lambda	.027	.092	7.618
	Hotelling's Trace	.027	.092	7.618
	Roy's Largest Root	.027	.092	7.618
Time * Information	Pillai's Trace	.180	.045	3.511
	Wilks' Lambda	.180	.045	3.511
	Hotelling's Trace	.180	.045	3.511
	Roy's Largest Root	.180	.045	3.511
Time * Task * Information	Pillai's Trace	.028	.091	7.505
	Wilks' Lambda	.028	.091	7.505
	Hotelling's Trace	.028	.091	7.505
	Roy's Largest Root	.028	.091	7.505

Multivariate Tests^a

Effect		Observed Power ^c
Time	Pillai's Trace	.406
	Wilks' Lambda	.406
	Hotelling's Trace	.406
	Roy's Largest Root	.406
Time * Task	Pillai's Trace	.676
	Wilks' Lambda	.676
	Hotelling's Trace	.676
	Roy's Largest Root	.676
Time * Information	Pillai's Trace	.357
	Wilks' Lambda	.357
	Hotelling's Trace	.357
	Roy's Largest Root	.357
Time * Task * Information	Pillai's Trace	.669
	Wilks' Lambda	.669
	Hotelling's Trace	.669
	Roy's Largest Root	.669

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	.088	182.565	2	.000	.523

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Epsilon ^b	
	Huynh-Feldt	Lower-bound
Time	.545	.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	62.237	2	31.119	2.643
	Greenhouse-Geisser	62.237	1.046	59.509	2.643
	Huynh-Feldt	62.237	1.090	57.121	2.643
	Lower-bound	62.237	1.000	62.237	2.643
Time * Task	Sphericity Assumed	61.314	2	30.657	2.604
	Greenhouse-Geisser	61.314	1.046	58.626	2.604
	Huynh-Feldt	61.314	1.090	56.273	2.604
	Lower-bound	61.314	1.000	61.314	2.604
Time * Information	Sphericity Assumed	52.995	2	26.497	2.250
	Greenhouse-Geisser	52.995	1.046	50.672	2.250
	Huynh-Feldt	52.995	1.090	48.638	2.250
	Lower-bound	52.995	1.000	52.995	2.250
Time * Task * Information	Sphericity Assumed	65.301	2	32.651	2.773
	Greenhouse-Geisser	65.301	1.046	62.439	2.773
	Huynh-Feldt	65.301	1.090	59.933	2.773
	Lower-bound	65.301	1.000	65.301	2.773
Error(Time)	Sphericity Assumed	1789.783	152	11.775	
	Greenhouse-Geisser	1789.783	79.484	22.517	
	Huynh-Feldt	1789.783	82.807	21.614	
	Lower-bound	1789.783	76.000	23.550	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Sphericity Assumed	.074	.034	5.286
	Greenhouse-Geisser	.107	.034	2.764
	Huynh-Feldt	.105	.034	2.880
	Lower-bound	.108	.034	2.643
Time * Task	Sphericity Assumed	.077	.033	5.207
	Greenhouse-Geisser	.109	.033	2.723
	Huynh-Feldt	.108	.033	2.837
	Lower-bound	.111	.033	2.604
Time * Information	Sphericity Assumed	.109	.029	4.501
	Greenhouse-Geisser	.137	.029	2.353
	Huynh-Feldt	.135	.029	2.452
	Lower-bound	.138	.029	2.250
Time * Task * Information	Sphericity Assumed	.066	.035	5.546
	Greenhouse-Geisser	.098	.035	2.900
	Huynh-Feldt	.097	.035	3.021
	Lower-bound	.100	.035	2.773
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	.519
	Greenhouse-Geisser	.370
	Huynh-Feldt	.377
	Lower-bound	.362
Time * Task	Sphericity Assumed	.513
	Greenhouse-Geisser	.365
	Huynh-Feldt	.373
	Lower-bound	.357
Time * Information	Sphericity Assumed	.453
	Greenhouse-Geisser	.323
	Huynh-Feldt	.330
	Lower-bound	.316
Time * Task * Information	Sphericity Assumed	.540
	Greenhouse-Geisser	.385
	Huynh-Feldt	.393
	Lower-bound	.376
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	.756	1	.756	1.432
	Quadratic	61.481	1	61.481	2.671
Time * Task	Linear	2.725	1	2.725	5.161
	Quadratic	58.589	1	58.589	2.545
Time * Information	Linear	.675	1	.675	1.279
	Quadratic	52.320	1	52.320	2.273
Time * Task * Information	Linear	2.569	1	2.569	4.867
	Quadratic	62.732	1	62.732	2.725
Error(Time)	Linear	40.126	76	.528	
	Quadratic	1749.657	76	23.022	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power ^a
Time	Linear	.235	.018	1.432	.219
	Quadratic	.106	.034	2.671	.365
Time * Task	Linear	.026	.064	5.161	.611
	Quadratic	.115	.032	2.545	.350
Time * Information	Linear	.262	.017	1.279	.201
	Quadratic	.136	.029	2.273	.319
Time * Task * Information	Linear	.030	.060	4.867	.586
	Quadratic	.103	.035	2.725	.371
Error(Time)	Linear				
	Quadratic				

a. Computed using alpha = .05

Levene's Test of Equality of Error Variances^a

		Levene Statistic	df1	df2	Sig.
TimeNearCornerBeforeEarthquake	Based on Mean	4.457	3	76	.006
	Based on Median	1.000	3	76	.398
	Based on Median and with adjusted df	1.000	3	19.000	.414
	Based on trimmed mean	1.000	3	76	.398
TimeNearCornerDuringEarthquake	Based on Mean	12.434	3	76	.000
	Based on Median	2.940	3	76	.038
	Based on Median and with adjusted df	2.940	3	19.103	.059
	Based on trimmed mean	6.150	3	76	.001
TimeNearCornerAfterEarthquake	Based on Mean	17.826	3	76	.000
	Based on Median	4.020	3	76	.010
	Based on Median and with adjusted df	4.020	3	19.058	.023
	Based on trimmed mean	10.526	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	57.246	1	57.246	4.722	.033	.059
Task	41.955	1	41.955	3.461	.067	.044
Information	50.096	1	50.096	4.133	.046	.052
Task * Information	43.651	1	43.651	3.601	.062	.045
Error	921.296	76	12.122			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power ^a
Intercept	4.722	.574
Task	3.461	.451
Information	4.133	.519
Task * Information	3.601	.466
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
.488	.225	.041	.936

2. Task

Estimates

Measure: MEASURE_1

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Book Task	.070	.318	-.563	.703
No Task	.907	.318	.273	1.540

Pairwise Comparisons

Measure: MEASURE_1

(I) Task	(J) Task	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
Book Task	No Task	-.836	.449	.067	-1.731	.059
No Task	Book Task	.836	.449	.067	-.059	1.731

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	13.985	1	13.985	3.461	.067	.044
Error	307.099	76	4.041			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power ^a
Contrast	3.461	.451
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	.945	.318	.312	1.578
Not Given	.032	.318	-.602	.665

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	.914 [*]	.449	.046	.019	1.809
Not Given	Given	-.914 [*]	.449	.046	-1.809	-.019

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	16.699	1	16.699	4.133	.046	.052
Error	307.099	76	4.041			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power ^a
Contrast	4.133	.519
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	.062	.062	-.061	.185
2	1.204	.658	-.106	2.514
3	.199	.097	.006	.392

Pairwise Comparisons

Measure: MEASURE_1

(I) Time	(J) Time	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-1.142	.659	.262	-2.757	.472
	3	-.137	.115	.706	-.419	.144
2	1	1.142	.659	.262	-.472	2.757
	3	1.005	.660	.395	-.610	2.620
3	1	.137	.115	.706	-.144	.419
	2	-1.005	.660	.395	-2.620	.610

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.051	2.028 ^a	2.000	75.000	.139	.051
Wilks' lambda	.949	2.028 ^a	2.000	75.000	.139	.051
Hotelling's trace	.054	2.028 ^a	2.000	75.000	.139	.051
Roy's largest root	.054	2.028 ^a	2.000	75.000	.139	.051

Multivariate Tests

	Noncent. Parameter	Observed Power ^b
Pillai's trace	4.056	.406
Wilks' lambda	4.056	.406
Hotelling's trace	4.056	.406
Roy's largest root	4.056	.406

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	.101	.449	-.795	.996
	Not Given	.040	.449	-.855	.935
No Task	Given	1.790	.449	.895	2.685
	Not Given	.023	.449	-.872	.918

6. Task * Time

Measure: MEASURE_1

Task	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Book Task	1	.124	.087	-.050	.297
	2	.087	.930	-1.765	1.940
	3	.000	.137	-.273	.273
No Task	1	.000	.087	-.174	.174
	2	2.321	.930	.468	4.174
	3	.398	.137	.126	.671

7. Information * Time

Measure: MEASURE_1

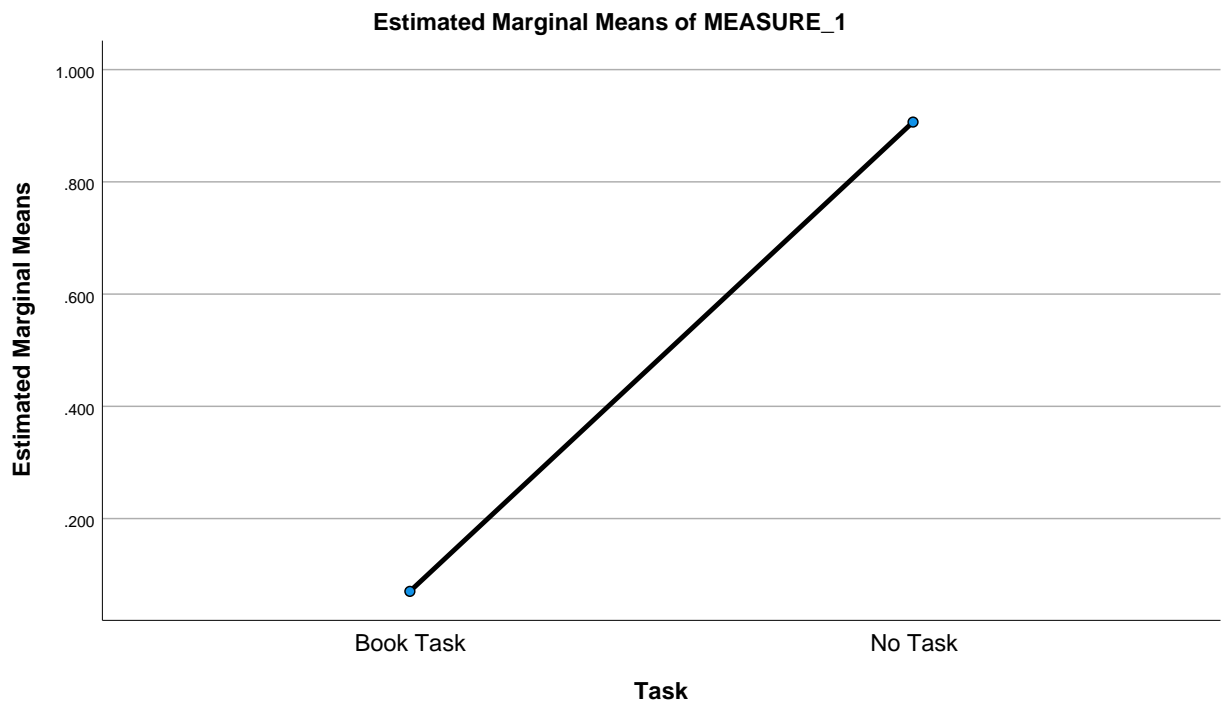
Information	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Given	1	.124	.087	-.050	.297
	2	2.321	.930	.469	4.174
	3	.391	.137	.118	.664
Not Given	1	.000	.087	-.174	.174
	2	.087	.930	-1.766	1.940
	3	.008	.137	-.265	.280

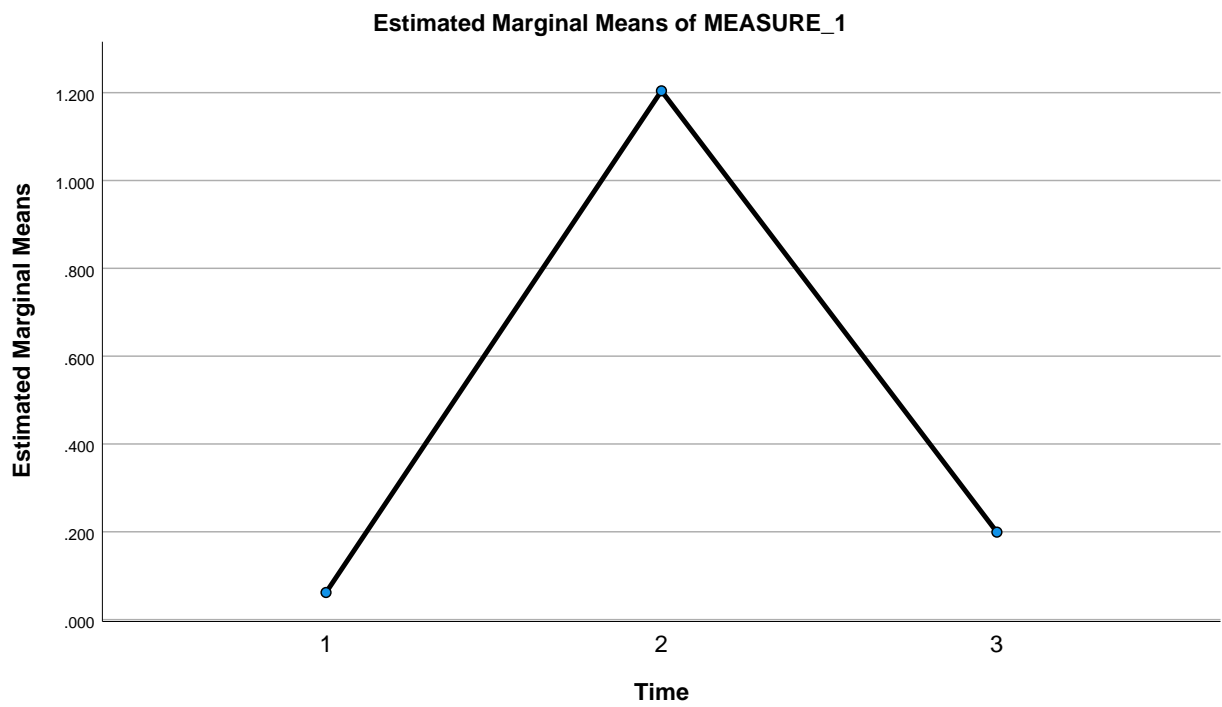
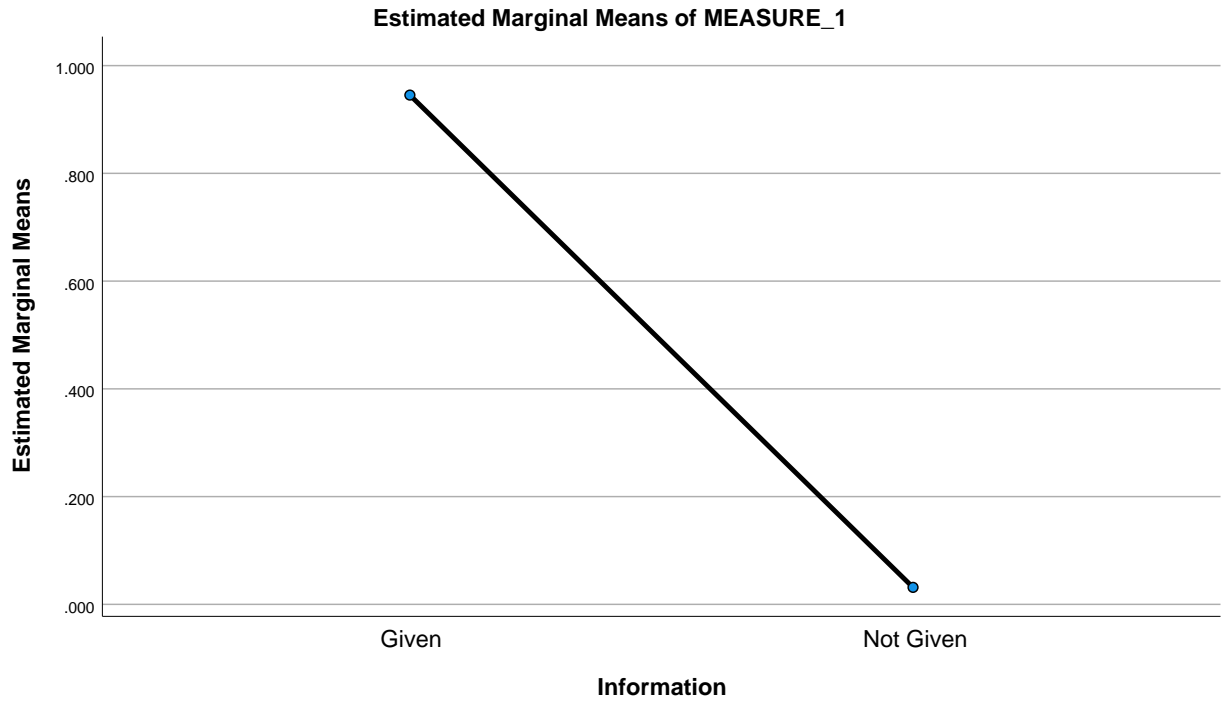
8. Task * Information * Time

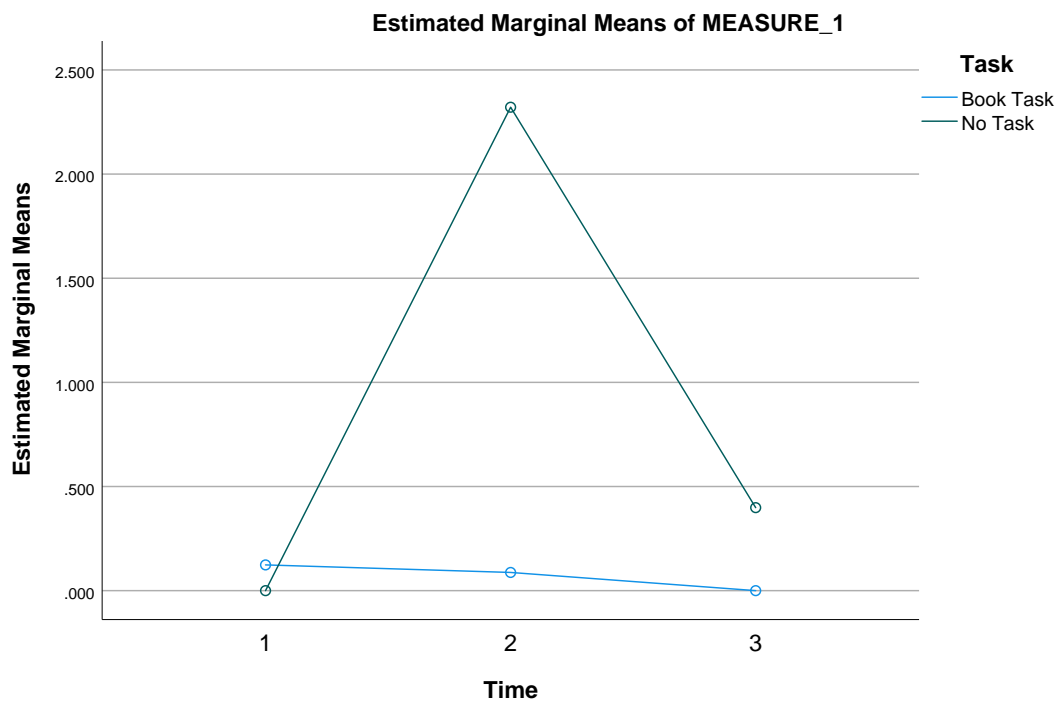
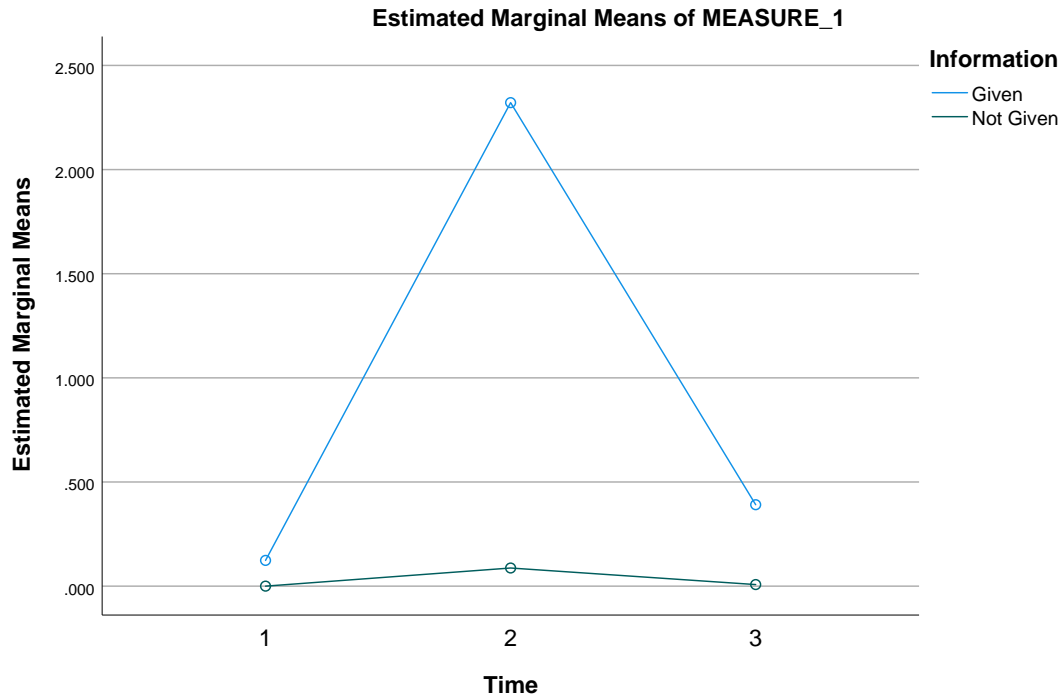
Measure: MEASURE_1

Task	Information	Time	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Book Task	Given	1	.247	.124	.001	.493
		2	.055	1.316	-2.565	2.675
		3	5.551E-17	.194	-.386	.386
	Not Given	1	-2.776E-17	.124	-.246	.246
		2	.120	1.316	-2.501	2.740
		3	.000	.194	-.386	.386
No Task	Given	1	-2.776E-17	.124	-.246	.246
		2	4.588	1.316	1.967	7.208
		3	.782	.194	.396	1.168
	Not Given	1	2.776E-17	.124	-.246	.246
		2	.054	1.316	-2.566	2.675
		3	.015	.194	-.371	.401

Profile Plots







Time * Information * Task

