Total Time Spent In cover Across Time (Group 1,2,3,4)

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	TotalDurationIntableCoverBeforeEarthquake
2	TotalDurationIntableCoverDuringEarthquake
3	TotalDurationIntableCoverAfterEarthquake

Between-Subjects Factors

		N
Task	Book Task	40
	No Task	34
Information	Given	38
	Not Given	36

Descriptive Statistics

	Task	Information	Mean	Std. Deviation	N
TotalDurationIntableCoverBeforeEarthquake	Book Task	Given	.24085	.652898	20
		Not Given	.06330	.283086	20
		Total	.15207	.504775	40
	No Task	Given	.71450	1.692329	18
		Not Given	.71488	2.859500	16
		Total	.71468	2.278614	34
	Total	Given	.46521	1.261833	38
		Not Given	.35289	1.911974	36
		Total	.41057	1.600911	74
TotalDurationIntableCoverDuringEarthquake	Book Task	Given	9.19285	13.266992	20
		Not Given	.35135	1.115205	20
		Total	4.77210	10.315037	40
	No Task	Given	14.16744	18.612809	18
		Not Given	8.65469	17.452120	16
		Total	11.57321	18.019767	34
	Total	Given	11.54924	15.996717	38
		Not Given	4.04172	12.194994	36
		Total	7.89693	14.672306	74
TotalDurationIntableCoverAfterEarthquake	Book Task	Given	.94210	1.233123	20
		Not Given	3.81085	14.801035	20
		Total	2.37648	10.467937	40
	No Task	Given	1.39639	1.843083	18
		Not Given	4.21506	11.189280	16
		Total	2.72282	7.790916	34
	Total	Given	1.15729	1.547401	38
		Not Given	3.99050	13.138595	36
		Total	2.53561	9.274195	74

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

Box's M	410.100
F	20.977
df1	18
df2	16056.615
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	.248	11.382[b]	2.000	69.000
	Wilks' Lambda	.752	11.382[b]	2.000	69.000
	Hotelling's Trace	.330	11.382[b]	2.000	69.000
	Roy's Largest Root	.330	11.382[b]	2.000	69.000
Time * Task	Pillai's Trace	.046	1.658[b]	2.000	69.000
	Wilks' Lambda	.954	1.658[b]	2.000	69.000
	Hotelling's Trace	.048	1.658[b]	2.000	69.000
	Roy's Largest Root	.048	1.658[b]	2.000	69.000
Time * Information	Pillai's Trace	.089	3.382[b]	2.000	69.000
	Wilks' Lambda	.911	3.382[b]	2.000	69.000
	Hotelling's Trace	.098	3.382[b]	2.000	69.000
	Roy's Largest Root	.098	3.382[b]	2.000	69.000
Time * Task * Information	Pillai's Trace	.003	.114[b]	2.000	69.000
	Wilks' Lambda	.997	.114[b]	2.000	69.000
	Hotelling's Trace	.003	.114[b]	2.000	69.000
	Roy's Largest Root	.003	.114[b]	2.000	69.000

Multivariate Tests[a]

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Pillai's Trace	.000	.248	22.764
	Wilks' Lambda	.000	.248	22.764
	Hotelling's Trace	.000	.248	22.764
	Roy's Largest Root	.000	.248	22.764
Time * Task	Pillai's Trace	.198	.046	3.316
	Wilks' Lambda	.198	.046	3.316
	Hotelling's Trace	.198	.046	3.316
	Roy's Largest Root	.198	.046	3.316
Time * Information	Pillai's Trace	.040	.089	6.764
	Wilks' Lambda	.040	.089	6.764
	Hotelling's Trace	.040	.089	6.764
	Roy's Largest Root	.040	.089	6.764
Time * Task * Information	Pillai's Trace	.892	.003	.229
	Wilks' Lambda	.892	.003	.229
	Hotelling's Trace	.892	.003	.229
	Roy's Largest Root	.892	.003	.229

Multivariate Tests[a]

Effect		Observed Power[c]
Time	Pillai's Trace	.991
	Wilks' Lambda	.991
	Hotelling's Trace	.991
	Roy's Largest Root	.991
Time * Task	Pillai's Trace	.338
	Wilks' Lambda	.338
	Hotelling's Trace	.338
	Roy's Largest Root	.338
Time * Information	Pillai's Trace	.619
	Wilks' Lambda	.619
	Hotelling's Trace	.619
	Roy's Largest Root	.619
Time * Task * Information	Pillai's Trace	.067
	Wilks' Lambda	.067
	Hotelling's Trace	.067
	Roy's Largest Root	.067

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	.700	24.578	2	.000	.769

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Time	.817	.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	2288.325	2	1144.162	12.137
	Greenhouse-Geisser	2288.325	1.539	1487.033	12.137
	Huynh-Feldt	2288.325	1.634	1400.324	12.137
	Lower-bound	2288.325	1.000	2288.325	12.137
Time * Task	Sphericity Assumed	461.659	2	230.829	2.449
	Greenhouse-Geisser	461.659	1.539	300.002	2.449
	Huynh-Feldt	461.659	1.634	282.509	2.449
	Lower-bound	461.659	1.000	461.659	2.449
Time * Information	Sphericity Assumed	973.838	2	486.919	5.165
	Greenhouse-Geisser	973.838	1.539	632.834	5.165
	Huynh-Feldt	973.838	1.634	595.933	5.165
	Lower-bound	973.838	1.000	973.838	5.165
Time * Task * Information	Sphericity Assumed	32.707	2	16.354	.173
	Greenhouse-Geisser	32.707	1.539	21.254	.173
	Huynh-Feldt	32.707	1.634	20.015	.173
	Lower-bound	32.707	1.000	32.707	.173
Error(Time)	Sphericity Assumed	13198.011	140	94.272	
	Greenhouse-Geisser	13198.011	107.720	122.522	
	Huynh-Feldt	13198.011	114.390	115.378	
	Lower-bound	13198.011	70.000	188.543	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Sphericity Assumed	.000	.148	24.274
	Greenhouse-Geisser	.000	.148	18.677
	Huynh-Feldt	.000	.148	19.833
	Lower-bound	.001	.148	12.137
Time * Task	Sphericity Assumed	.090	.034	4.897
	Greenhouse-Geisser	.105	.034	3.768
	Huynh-Feldt	.101	.034	4.001
	Lower-bound	.122	.034	2.449
Time * Information	Sphericity Assumed	.007	.069	10.330
	Greenhouse-Geisser	.013	.069	7.948
	Huynh-Feldt	.011	.069	8.440
	Lower-bound	.026	.069	5.165
Time * Task * Information	Sphericity Assumed	.841	.002	.347
	Greenhouse-Geisser	.783	.002	.267
	Huynh-Feldt	.797	.002	.283
	Lower-bound	.678	.002	.173
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	.995
	Greenhouse-Geisser	.982
	Huynh-Feldt	.986
	Lower-bound	.930
Time * Task	Sphericity Assumed	.486
	Greenhouse-Geisser	.422
	Huynh-Feldt	.436
	Lower-bound	.339
Time * Information	Sphericity Assumed	.820
	Greenhouse-Geisser	.741
	Huynh-Feldt	.760
	Lower-bound	.611
Time * Task * Information	Sphericity Assumed	.076
	Greenhouse-Geisser	.074
	Huynh-Feldt	.074
	Lower-bound	.070
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	170.810	1	170.810	3.713
	Quadratic	2117.515	1	2117.515	14.856
Time * Task	Linear	.163	1	.163	.004
	Quadratic	461.495	1	461.495	3.238
Time * Information	Linear	78.864	1	78.864	1.714
	Quadratic	894.974	1	894.974	6.279
Time * Task * Information	Linear	.119	1	.119	.003
	Quadratic	32.588	1	32.588	.229
Error(Time)	Linear	3220.447	70	46.006	
	Quadratic	9977.564	70	142.537	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power[a]
Time	Linear	.058	.050	3.713	.476
	Quadratic	.000	.175	14.856	.967
Time * Task	Linear	.953	.000	.004	.050
	Quadratic	.076	.044	3.238	.427
Time * Information	Linear	.195	.024	1.714	.252
	Quadratic	.015	.082	6.279	.695
Time * Task * Information	Linear	.960	.000	.003	.050
	Quadratic	.634	.003	.229	.076
Error(Time)	Linear				
	Quadratic				

a. Computed using alpha = .05

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

		Levene Statistic	df1	df2	Sig.
TotalDurationIntableCoverBeforeEarthquake	Based on Mean	3.328	3	70	.024
	Based on Median	.791	3	70	.503
	Based on Median and with adjusted df	.791	3	28.577	.509
	Based on trimmed mean	1.501	3	70	.222
TotalDurationIntableCoverDuringEarthquake	Based on Mean	13.766	3	70	.000
	Based on Median	3.421	3	70	.022
	Based on Median and with adjusted df	3.421	3	47.637	.025
	Based on trimmed mean	10.793	3	70	.000
TotalDurationIntableCoverAfterEarthquake	Based on Mean	2.322	3	70	.083
	Based on Median	.582	3	70	.629
	Based on Median and with adjusted df	.582	3	32.577	.631
	Based on trimmed mean	.823	3	70	.485

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	3022.273	1	3022.273	30.502	.000	.303
Task	356.053	1	356.053	3.593	.062	.049
Information	119.567	1	119.567	1.207	.276	.017
Task * Information	18.264	1	18.264	.184	.669	.003
Error	6935.880	70	99.084			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power[a]
Intercept	30.502	1.000
Task	3.593	.464
Information	1.207	.192
Task * Information	.184	.071
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
3.705	.671	2.367	5.043

2. Task

Estimates

Measure: MEASURE_1

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Book Task	2.434	.909	.621	4.246
No Task	4.977	.987	3.008	6.946

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	-2.544	1.342	.062	-5.220	.133
No Task	Book Task	2.544	1.342	.062	-.133	5.220

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	118.684	1	118.684	3.593	.062	.049
Error	2311.960	70	33.028			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	3.593	.464
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

			95% Confidence Interval	
Information	Mean	Std. Error	Lower Bound	Upper Bound
Given	4.442	.934	2.580	6.304
Not Given	2.968	.964	1.046	4.891

Pairwise Comparisons

Measure: MEASURE_1

					95% Confidence Interval for Difference[a]	
(I) Information	(J) Information	Mean Difference (I-J)	Std. Error	Sig.[a]	Lower Bound	Upper Bound
Given	Not Given	1.474	1.342	.276	-1.202	4.150
Not Given	Given	-1.474	1.342	.276	-4.150	1.202

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	39.856	1	39.856	1.207	.276	.017
Error	2311.960	70	33.028			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	1.207	.192
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	.433	.188	.059	.808
2	8.092	1.641	4.819	11.364
3	2.591	1.092	.413	4.769

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	-7.658*	1.672	.000	-11.760	-3.557
	3	-2.158	1.120	.174	-4.904	.589
2	1	7.658*	1.672	.000	3.557	11.760
	3	5.500*	1.913	.016	.809	10.192
3	1	2.158	1.120	.174	-.589	4.904
	2	-5.500*	1.913	.016	-10.192	-.809

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	.248	11.382[a]	2.000	69.000	.000	.248
Wilks' lambda	.752	11.382[a]	2.000	69.000	.000	.248
Hotelling's trace	.330	11.382[a]	2.000	69.000	.000	.248
Roy's largest root	.330	11.382[a]	2.000	69.000	.000	.248

Multivariate Tests

	Noncent. Parameter	Observed Power[b]
Pillai's trace	22.764	.991
Wilks' lambda	22.764	.991
Hotelling's trace	22.764	.991
Roy's largest root	22.764	.991

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	3.459	1.285	.896	6.022
	Not Given	1.409	1.285	-1.154	3.971
No Task	Given	5.426	1.355	2.724	8.128
	Not Given	4.528	1.437	1.663	7.394

6. Task * Time

Measure: MEASURE_1

Task	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Book Task	1	.152	.254	-.355	.659
	2	4.772	2.222	.340	9.204
	3	2.376	1.479	-.574	5.327
No Task	1	.715	.276	.164	1.266
	2	11.411	2.414	6.596	16.226
	3	2.806	1.607	-.400	6.011

7. Information * Time

Measure: MEASURE_1

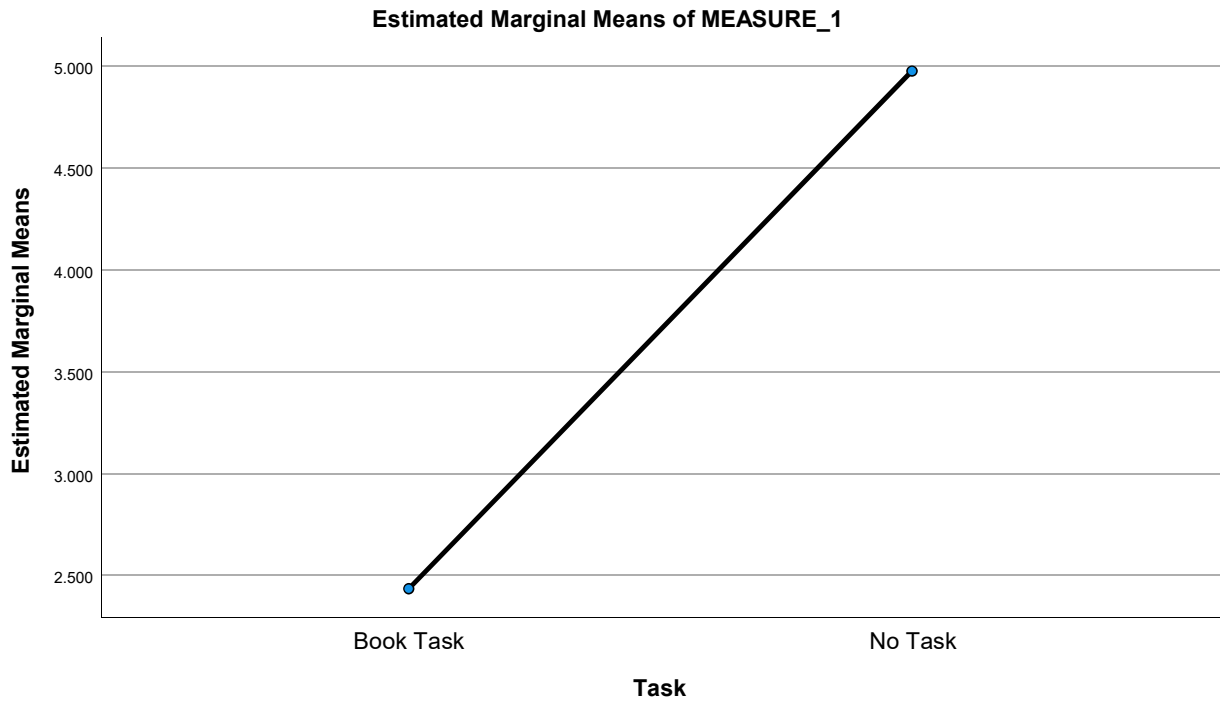
Information	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Given	1	.478	.261	-.043	.999
	2	11.680	2.283	7.127	16.233
	3	1.169	1.520	-1.862	4.200
Not Given	1	.389	.270	-.149	.927
	2	4.503	2.357	-.198	9.204
	3	4.013	1.569	.884	7.142

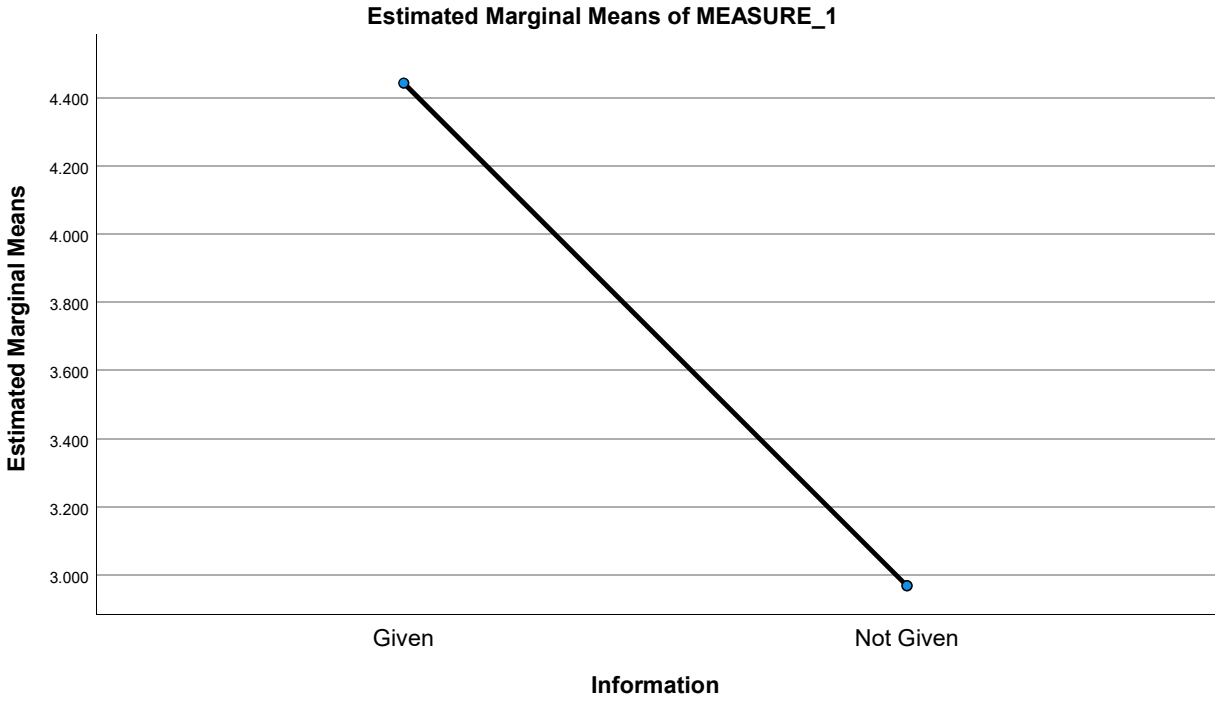
8. Task * Information * Time

Measure: MEASURE_1

Task	Information	Time	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Book Task	Given	1	.241	.360	-.476	.958
		2	9.193	3.143	2.925	15.460
		3	.942	2.092	-3.230	5.114
	Not Given	1	.063	.360	-.654	.780
		2	.351	3.143	-5.916	6.619
		3	3.811	2.092	-.361	7.983
No Task	Given	1	.715	.379	-.041	1.470
		2	14.167	3.313	7.561	20.774
		3	1.396	2.205	-3.002	5.794
	Not Given	1	.715	.402	-.087	1.517
		2	8.655	3.513	1.647	15.662
		3	4.215	2.339	-.450	8.880

Profile Plots

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Estimated Marginal Means
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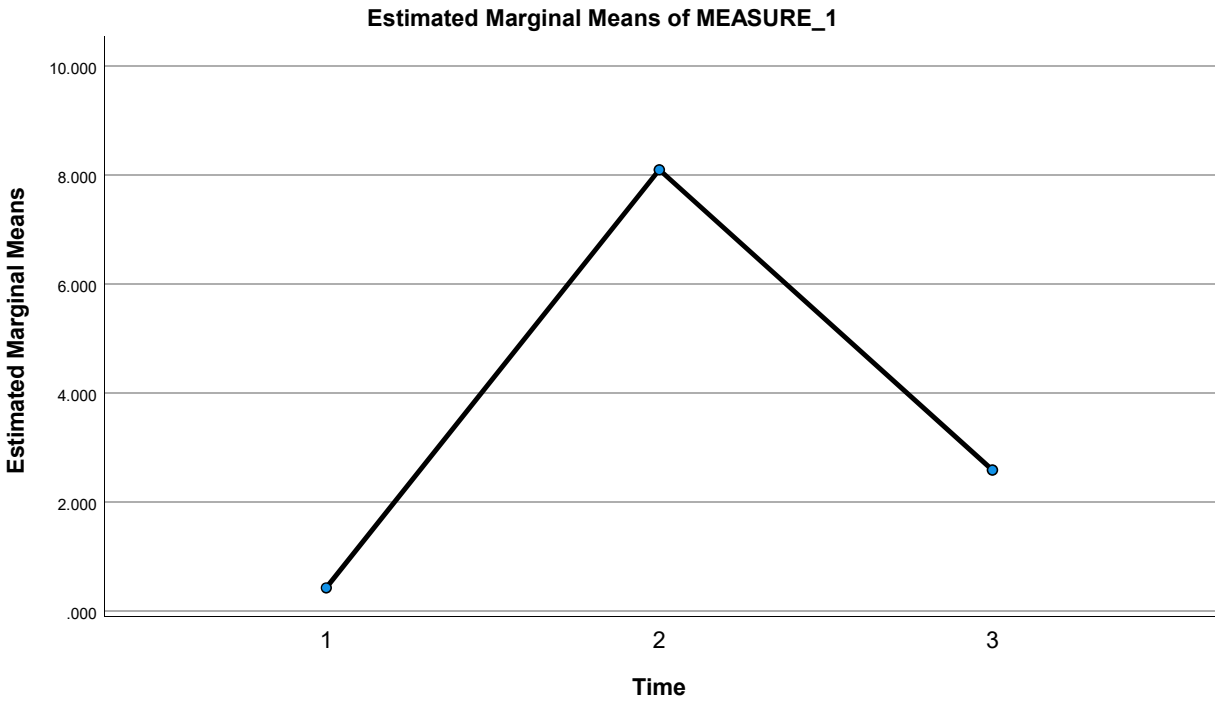
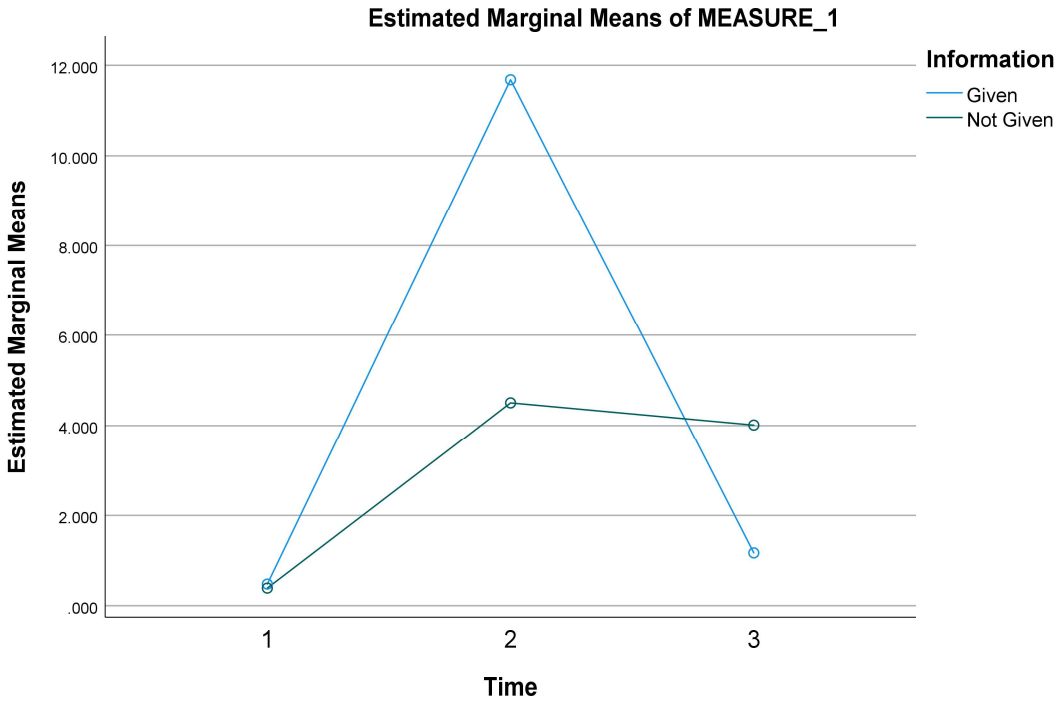
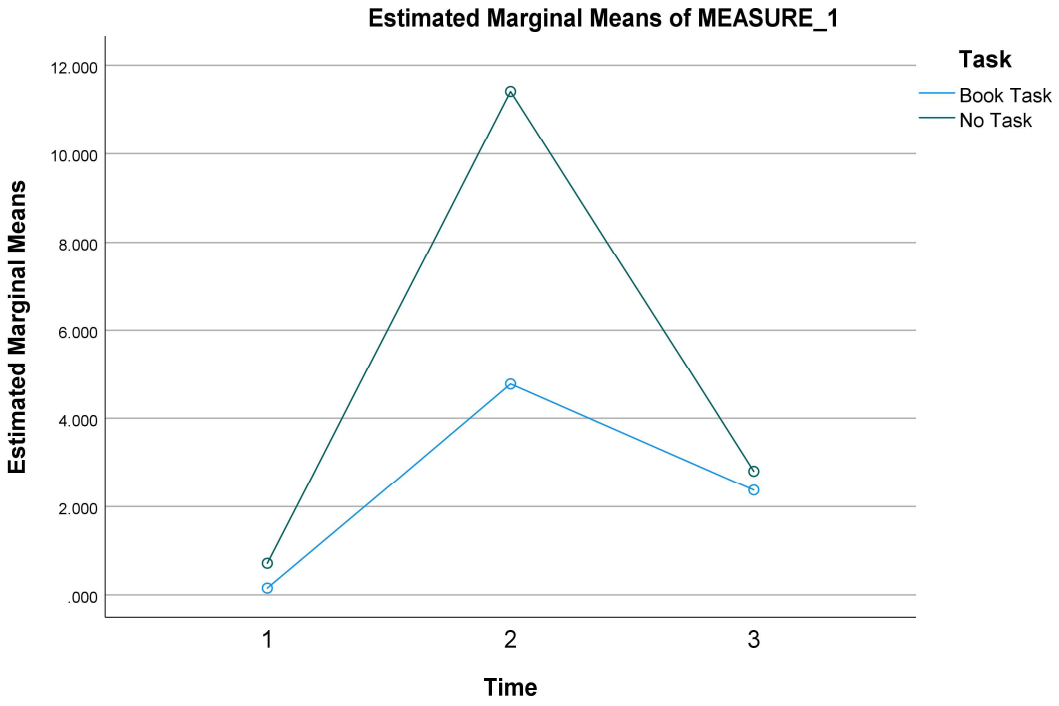
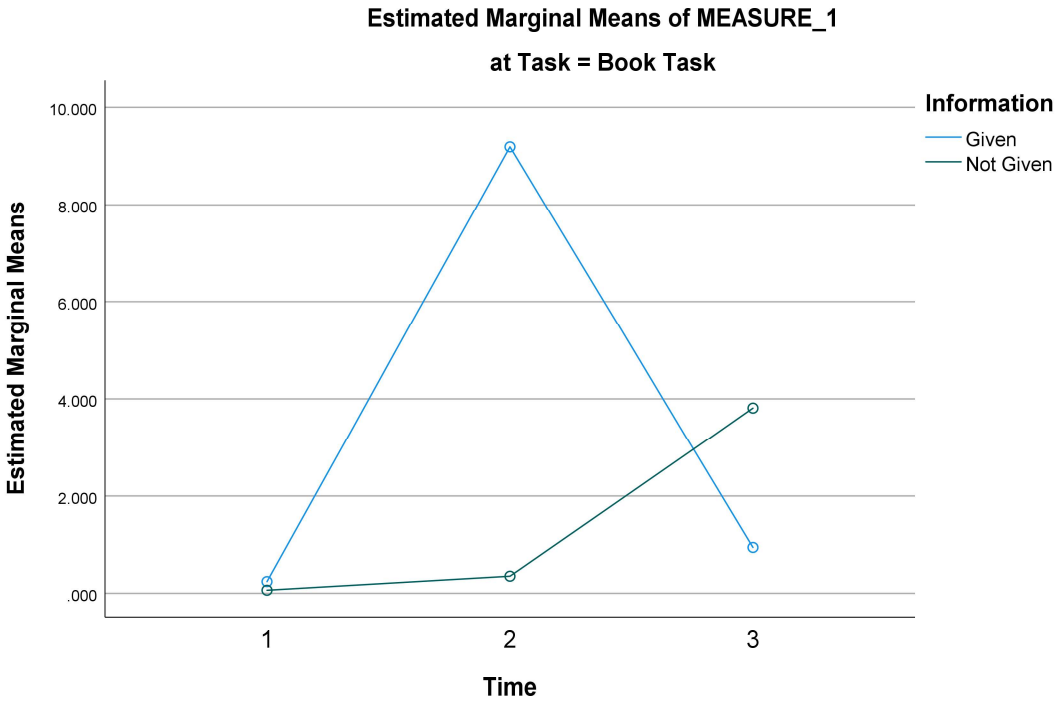
4.200
4.000
3.800
3.600
3.400
3.200
3.000
Given
Not Given
Information

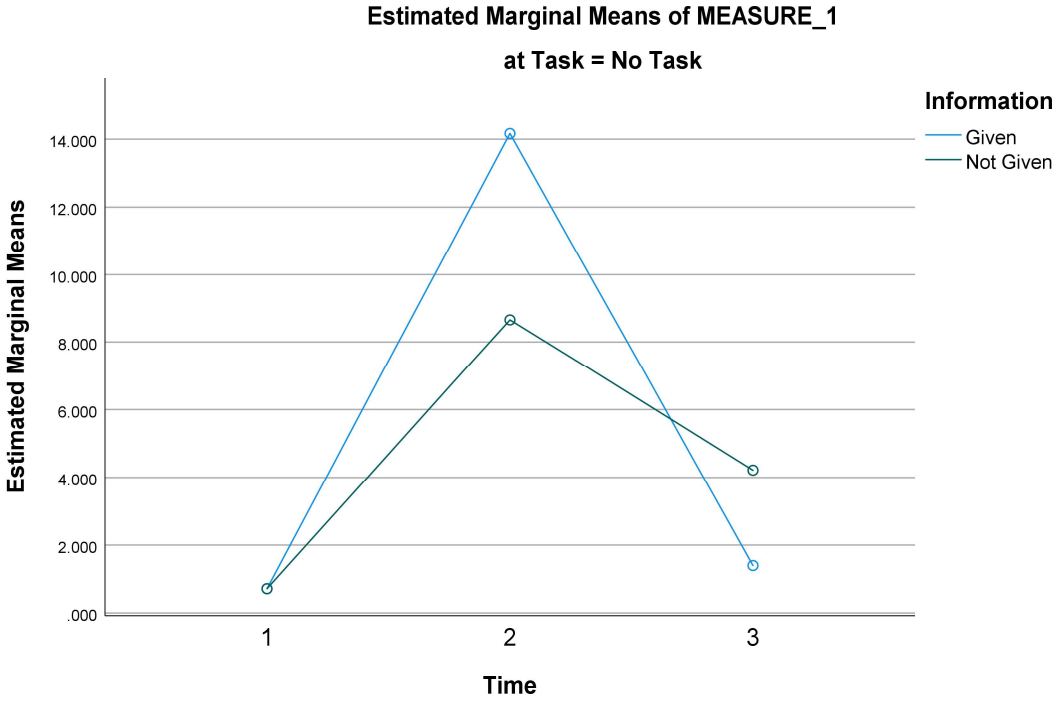

Estimated Marginal Means of MEASURE_1
Estimated Marginal Means
10.000
8.000
6.000
4.000
2.000
.000
1
2
3
Time





Time * Information * Task


Estimated Marginal Means of MEASURE_1
at Task = Book Task
Information
Given
Not Given
Estimated Marginal Means
10.000
8.000
6.000
4.000
2.000
.000
1
2
3
Time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at Task = No Task
Information
Given
Not Given
Estimated Marginal Means
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12.000
10.000
8.000
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4.000
2.000
.000
1
2
3
Time