Total Seated Duration 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	TotalSeatedDurationBeforeEarthquake
2	TotalSeatedDurationDuringEarthquake
3	TotalSeatedDurationAfterEarthquake

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
TotalSeatedDurationBeforeEarthquake	Book Task	Given	2.61440	4.888134	20
		Not Given	1.89845	6.750083	20
		Total	2.25643	5.828352	40
	No Task	Given	.88111	3.506639	18
		Not Given	3.88219	10.926152	16
		Total	2.29338	7.931607	34
	Total	Given	1.79337	4.323055	38
		Not Given	2.78011	8.769103	36
		Total	2.27341	6.825502	74
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	38.24411	14.877809	18
		Not Given	15.07425	20.044009	16
		Total	27.34065	20.843386	34
	Total	Given	33.11737	17.365955	38
		Not Given	8.29925	15.107325	36
		Total	21.04369	20.451402	74
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	17.96650	16.518741	18
		Not Given	13.49088	20.367508	16
		Total	15.86032	18.283108	34
	Total	Given	11.71076	14.193366	38
		Not Given	8.31200	18.759500	36
		Total	10.05731	16.545669	74

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

Box's M	96.365
F	4.929
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	.609	53.632[b]	2.000	69.000
	Wilks' Lambda	.391	53.632[b]	2.000	69.000
	Hotelling's Trace	1.555	53.632[b]	2.000	69.000
	Roy's Largest Root	1.555	53.632[b]	2.000	69.000
Time * Task	Pillai's Trace	.160	6.548[b]	2.000	69.000
	Wilks' Lambda	.840	6.548[b]	2.000	69.000
	Hotelling's Trace	.190	6.548[b]	2.000	69.000
	Roy's Largest Root	.190	6.548[b]	2.000	69.000
Time * Information	Pillai's Trace	.399	22.952[b]	2.000	69.000
	Wilks' Lambda	.601	22.952[b]	2.000	69.000
	Hotelling's Trace	.665	22.952[b]	2.000	69.000
	Roy's Largest Root	.665	22.952[b]	2.000	69.000
Time * Task * Information	Pillai's Trace	.008	.293[b]	2.000	69.000
	Wilks' Lambda	.992	.293[b]	2.000	69.000
	Hotelling's Trace	.008	.293[b]	2.000	69.000
	Roy's Largest Root	.008	.293[b]	2.000	69.000

Multivariate Tests[a]

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Pillai's Trace	.000	.609	107.265
	Wilks' Lambda	.000	.609	107.265
	Hotelling's Trace	.000	.609	107.265
	Roy's Largest Root	.000	.609	107.265
Time * Task	Pillai's Trace	.002	.160	13.097
	Wilks' Lambda	.002	.160	13.097
	Hotelling's Trace	.002	.160	13.097
	Roy's Largest Root	.002	.160	13.097
Time * Information	Pillai's Trace	.000	.399	45.903
	Wilks' Lambda	.000	.399	45.903
	Hotelling's Trace	.000	.399	45.903
	Roy's Largest Root	.000	.399	45.903
Time * Task * Information	Pillai's Trace	.747	.008	.586
	Wilks' Lambda	.747	.008	.586
	Hotelling's Trace	.747	.008	.586
	Roy's Largest Root	.747	.008	.586

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	.897
	Wilks' Lambda	.897
	Hotelling's Trace	.897
	Roy's Largest Root	.897
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	.095
	Wilks' Lambda	.095
	Hotelling's Trace	.095
	Roy's Largest Root	.095

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	.834	12.540	2	.002	.858

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Time	.915	.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	13129.886	2	6564.943	37.252
	Greenhouse-Geisser	13129.886	1.715	7655.884	37.252
	Huynh-Feldt	13129.886	1.829	7177.736	37.252
	Lower-bound	13129.886	1.000	13129.886	37.252
Time * Task	Sphericity Assumed	1391.081	2	695.540	3.947
	Greenhouse-Geisser	1391.081	1.715	811.123	3.947
	Huynh-Feldt	1391.081	1.829	760.464	3.947
	Lower-bound	1391.081	1.000	1391.081	3.947
Time * Information	Sphericity Assumed	6852.379	2	3426.190	19.442
	Greenhouse-Geisser	6852.379	1.715	3995.543	19.442
	Huynh-Feldt	6852.379	1.829	3746.001	19.442
	Lower-bound	6852.379	1.000	6852.379	19.442
Time * Task * Information	Sphericity Assumed	101.238	2	50.619	.287
	Greenhouse-Geisser	101.238	1.715	59.031	.287
	Huynh-Feldt	101.238	1.829	55.344	.287
	Lower-bound	101.238	1.000	101.238	.287
Error(Time)	Sphericity Assumed	24672.164	140	176.230	
	Greenhouse-Geisser	24672.164	120.050	205.515	
	Huynh-Feldt	24672.164	128.048	192.680	
	Lower-bound	24672.164	70.000	352.459	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Sphericity Assumed	.000	.347	74.504
	Greenhouse-Geisser	.000	.347	63.888
	Huynh-Feldt	.000	.347	68.144
	Lower-bound	.000	.347	37.252
Time * Task	Sphericity Assumed	.022	.053	7.894
	Greenhouse-Geisser	.028	.053	6.769
	Huynh-Feldt	.025	.053	7.220
	Lower-bound	.051	.053	3.947
Time * Information	Sphericity Assumed	.000	.217	38.883
	Greenhouse-Geisser	.000	.217	33.342
	Huynh-Feldt	.000	.217	35.564
	Lower-bound	.000	.217	19.442
Time * Task * Information	Sphericity Assumed	.751	.004	.574
	Greenhouse-Geisser	.717	.004	.493
	Huynh-Feldt	.731	.004	.525
	Lower-bound	.594	.004	.287
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	.701
	Greenhouse-Geisser	.653
	Huynh-Feldt	.673
	Lower-bound	.500
Time * Information	Sphericity Assumed	1.000
	Greenhouse-Geisser	1.000
	Huynh-Feldt	1.000
	Lower-bound	.992
Time * Task * Information	Sphericity Assumed	.095
	Greenhouse-Geisser	.092
	Huynh-Feldt	.093
	Lower-bound	.083
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	2411.661	1	2411.661	15.712
	Quadratic	10718.226	1	10718.226	53.870
Time * Task	Linear	1007.114	1	1007.114	6.561
	Quadratic	383.966	1	383.966	1.930
Time * Information	Linear	172.459	1	172.459	1.124
	Quadratic	6679.920	1	6679.920	33.573
Time * Task * Information	Linear	90.459	1	90.459	.589
	Quadratic	10.779	1	10.779	.054
Error(Time)	Linear	10744.679	70	153.495	
	Quadratic	13927.486	70	198.964	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power[a]
Time	Linear	.000	.183	15.712	.974
	Quadratic	.000	.435	53.870	1.000
Time * Task	Linear	.013	.086	6.561	.714
	Quadratic	.169	.027	1.930	.278
Time * Information	Linear	.293	.016	1.124	.182
	Quadratic	.000	.324	33.573	1.000
Time * Task * Information	Linear	.445	.008	.589	.118
	Quadratic	.817	.001	.054	.056
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	2.719	3	70	.051
	Based on Median	.572	3	70	.635
	Based on Median and with adjusted df	.572	3	41.324	.636
	Based on trimmed mean	1.717	3	70	.171
TotalSeatedDurationDuringEarthquake	Based on Mean	8.134	3	70	.000
	Based on Median	4.142	3	70	.009
	Based on Median and with adjusted df	4.142	3	48.798	.011
	Based on trimmed mean	7.680	3	70	.000
TotalSeatedDurationAfterEarthquake	Based on Mean	2.144	3	70	.102
	Based on Median	2.047	3	70	.115
	Based on Median and with adjusted df	2.047	3	55.246	.118
	Based on trimmed mean	2.506	3	70	.066

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	28142.874	1	28142.874	148.871	.000	.680
Task	2878.549	1	2878.549	15.227	.000	.179
Information	4277.195	1	4277.195	22.626	.000	.244
Task * Information	19.892	1	19.892	.105	.747	.002
Error	13232.910	70	189.042			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power[a]
Intercept	148.871	1.000
Task	15.227	.970
Information	22.626	.997
Task * Information	.105	.062
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
11.307	.927	9.459	13.155

2. Task

Estimates

Measure: MEASURE_1

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Book Task	7.691	1.255	5.188	10.194
No Task	14.923	1.364	12.203	17.643

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	-7.232*	1.853	.000	-10.929	-3.536
No Task	Book Task	7.232*	1.853	.000	3.536	10.929

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	959.516	1	959.516	15.227	.000	.179
Error	4410.970	70	63.014			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	15.227	.970
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	15.715	1.290	13.143	18.287
Not Given	6.899	1.331	4.244	9.554

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	8.816*	1.853	.000	5.120	12.513
Not Given	Given	-8.816*	1.853	.000	-12.513	-5.120

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	1425.732	1	1425.732	22.626	.000	.244
Error	4410.970	70	63.014			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power[a]
Contrast	22.626	.997
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	2.319	.804	.716	3.922
2	21.175	1.815	17.555	24.796
3	10.427	1.854	6.729	14.125

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	-18.856*	1.872	.000	-23.448	-14.264
	3	-8.108*	2.045	.001	-13.125	-3.090
2	1	18.856*	1.872	.000	14.264	23.448
	3	10.749*	2.593	.000	4.389	17.108
3	1	8.108*	2.045	.001	3.090	13.125
	2	-10.749*	2.593	.000	-17.108	-4.389

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	.609	53.632[a]	2.000	69.000	.000	.609
Wilks' lambda	.391	53.632[a]	2.000	69.000	.000	.609
Hotelling's trace	1.555	53.632[a]	2.000	69.000	.000	.609
Roy's largest root	1.555	53.632[a]	2.000	69.000	.000	.609

Multivariate Tests

	Noncent. Parameter	Observed Power[b]
Pillai's trace	107.265	1.000
Wilks' lambda	107.265	1.000
Hotelling's trace	107.265	1.000
Roy's largest root	107.265	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	1.775	8.859	15.940
	Not Given	2.982	1.775	-.558	6.522
No Task	Given	19.031	1.871	15.299	22.762
	Not Given	10.816	1.985	6.858	14.774

6. Task * Time

Measure: MEASURE_1

Task	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Book Task	1	2.256	1.089	.085	4.428
	2	15.691	2.459	10.788	20.595
	3	5.125	2.511	.116	10.134
No Task	1	2.382	1.183	.022	4.741
	2	26.659	2.671	21.331	31.987
	3	15.729	2.729	10.286	21.171

7. Information * Time

Measure: MEASURE_1

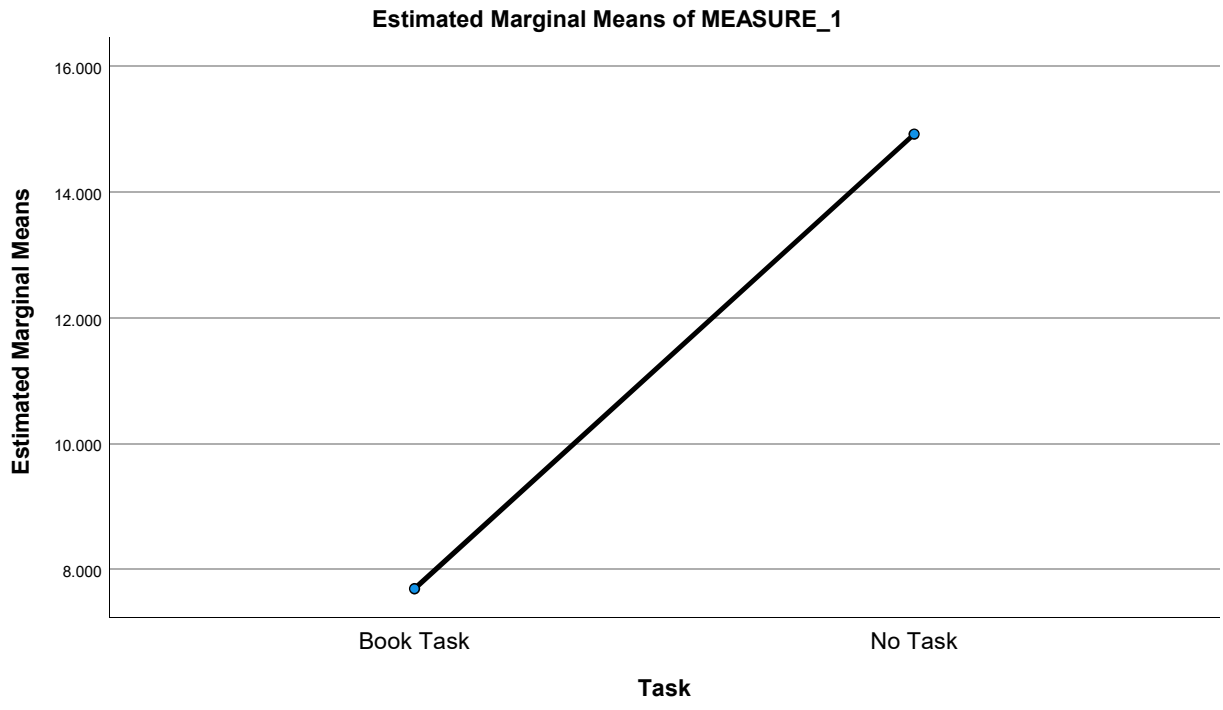
Information	Time	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
Given	1	1.748	1.119	-.483	3.979
	2	33.374	2.526	28.336	38.412
	3	12.024	2.580	6.877	17.170
Not Given	1	2.890	1.155	.587	5.194
	2	8.977	2.608	3.776	14.178
	3	8.830	2.664	3.517	14.143

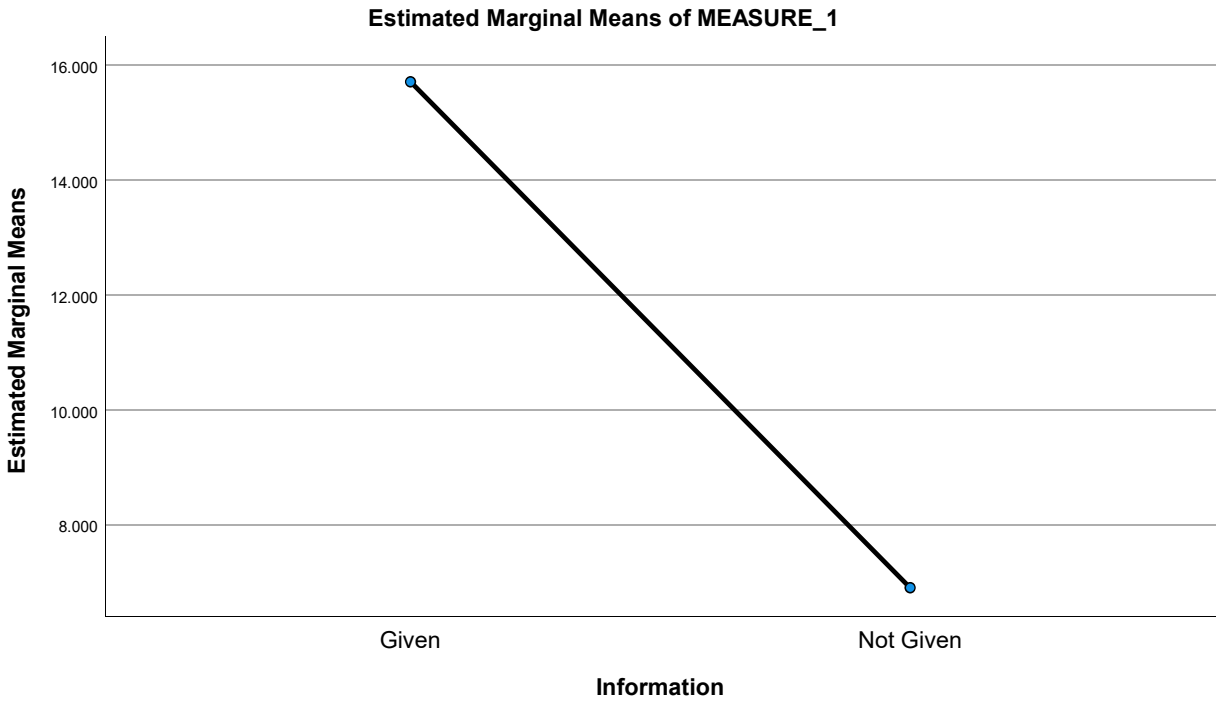
8. Task * Information * Time

Measure: MEASURE_1

Task	Information	Time	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Book Task	Given	1	2.614	1.540	-.457	5.685
		2	28.503	3.477	21.569	35.438
		3	6.081	3.552	-1.003	13.164
	Not Given	1	1.898	1.540	-1.173	4.970
		2	2.879	3.477	-4.055	9.814
		3	4.169	3.552	-2.915	11.252
No Task	Given	1	.881	1.623	-2.356	4.118
		2	38.244	3.665	30.934	45.554
		3	17.966	3.744	10.500	25.433
	Not Given	1	3.882	1.722	.449	7.316
		2	15.074	3.887	7.321	22.827
		3	13.491	3.971	5.571	21.411

Profile Plots




Estimated Marginal Means of MEASURE_1
Estimated Marginal Means
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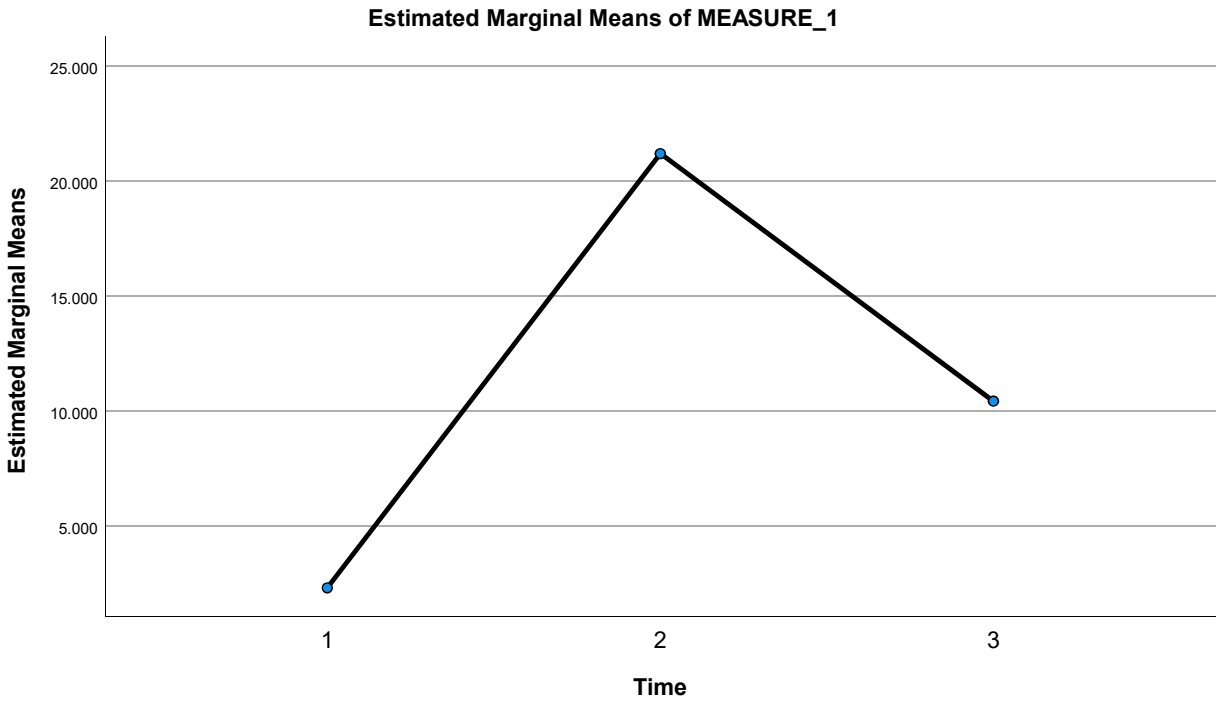
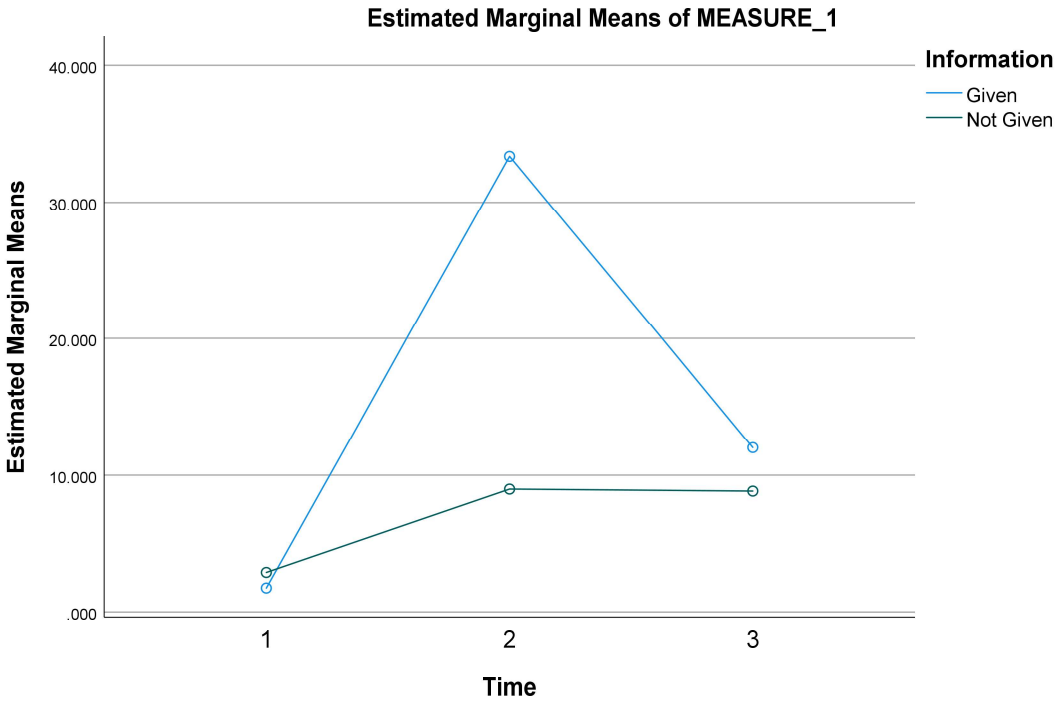
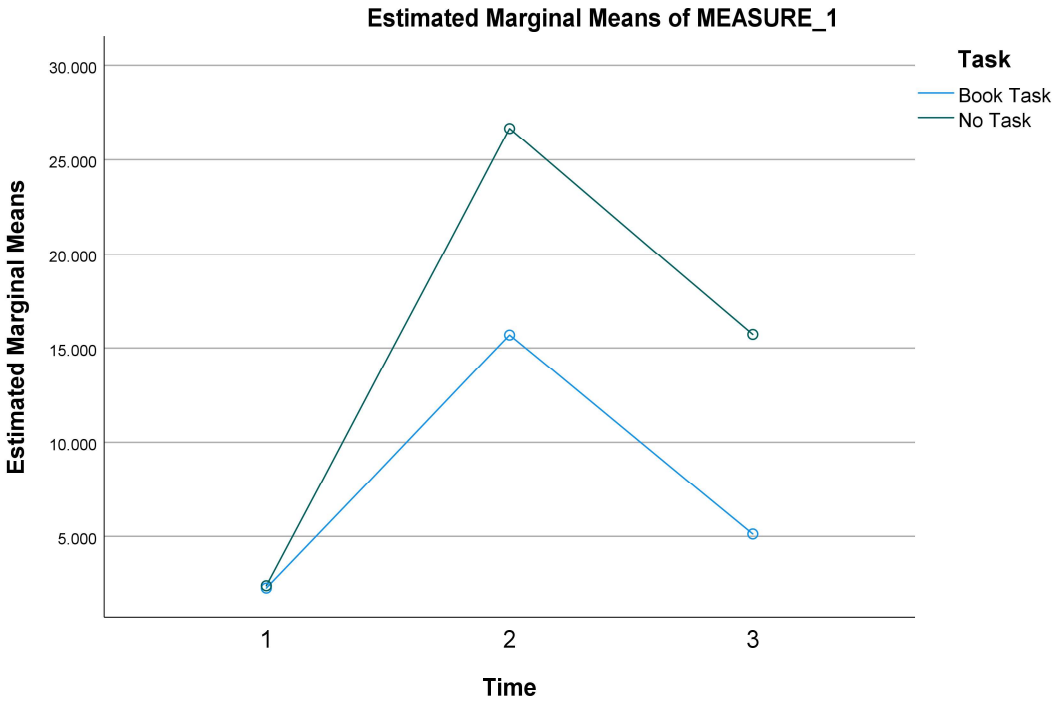
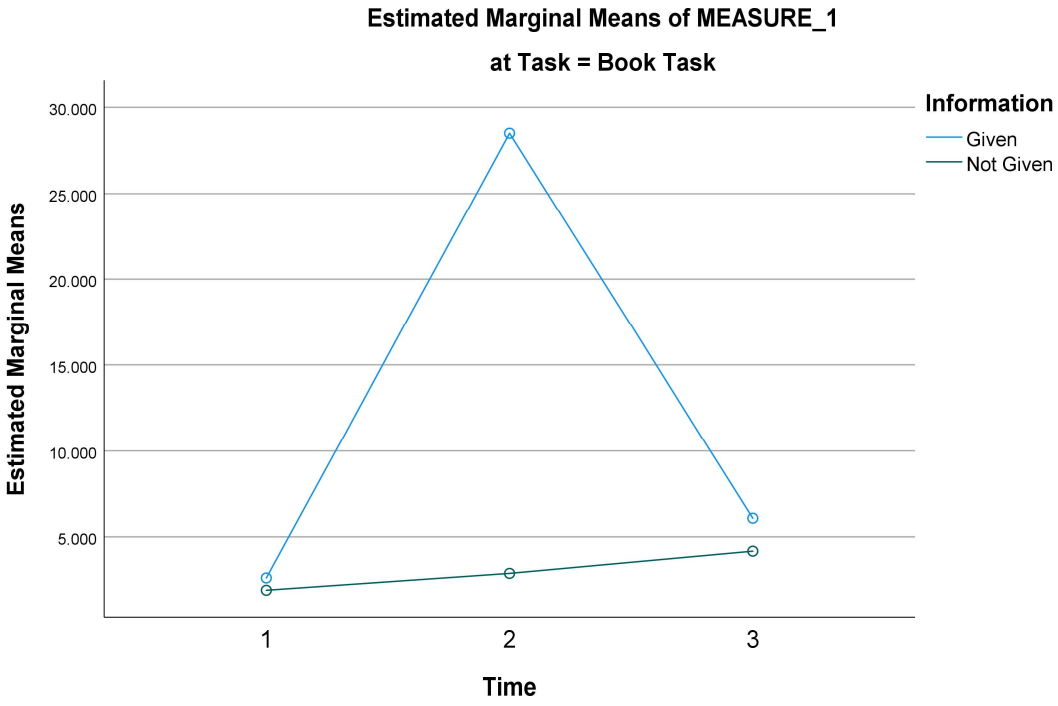
14.000
12.000
10.000
8.000
Given
Not Given
Information


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
Information
Given
Not Given
Estimated Marginal Means
30.000
25.000
20.000
15.000
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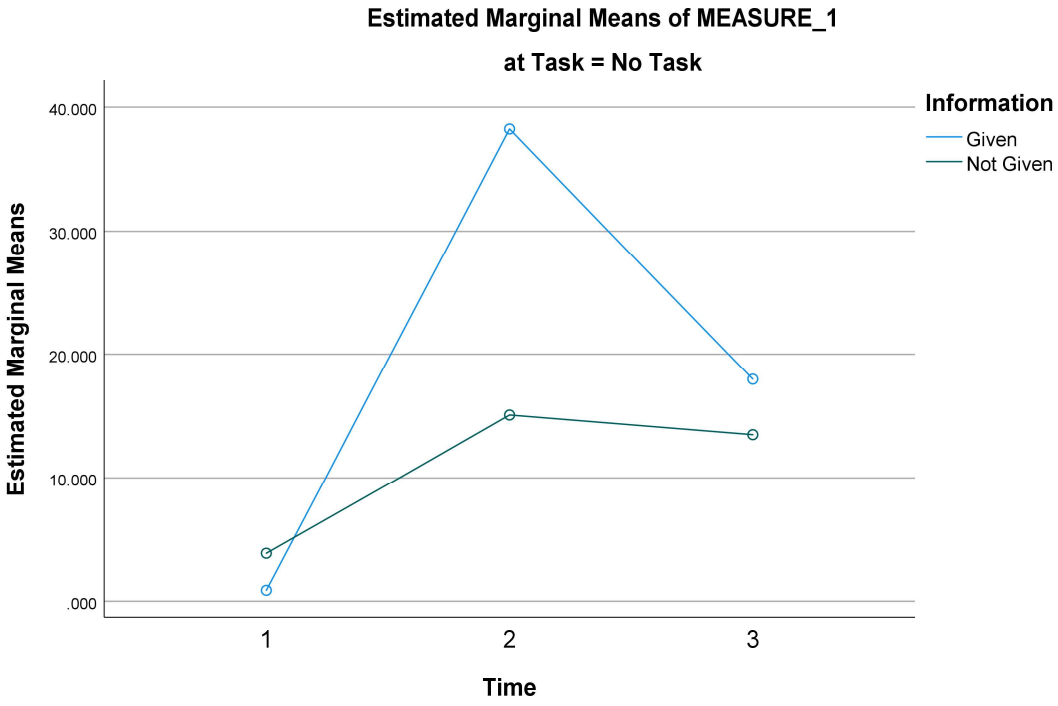
5.000
1
2
3
Time


Estimated Marginal Means of MEASURE_1
at Task = No Task
Information
Given
Not Given
Estimated Marginal Means
40.000
30.000
20.000
10.000
.000
1
2
3
Time