

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	TotalDurationInTableCoverBeforeEarthquake
2	TotalDurationInTableCoverDuringEarthquake
3	TotalDurationInTableCoverAfterEarthquake

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
TotalDurationInTableCover BeforeEarthquake	Book Task	Given	.24085	.652898	20
		Not Given	.06330	.283086	20
		Total	.15207	.504775	40
	No Task	Given	.64305	1.615819	20
		Not Given	.57190	2.557615	20
		Total	.60748	2.111893	40
	Total	Given	.44195	1.233334	40
		Not Given	.31760	1.814442	40
		Total	.37978	1.542760	80
TotalDurationInTableCover DuringEarthquake	Book Task	Given	9.19285	13.266992	20
		Not Given	.35135	1.115205	20
		Total	4.77210	10.315037	40
	No Task	Given	12.26925	18.351699	20
		Not Given	7.40520	15.833148	20
		Total	9.83723	17.095947	40
	Total	Given	10.73105	15.882423	40
		Not Given	3.87828	11.640206	40
		Total	7.30466	14.258595	80
TotalDurationInTableCover AfterEarthquake	Book Task	Given	.94210	1.233123	20
		Not Given	3.81085	14.801035	20
		Total	2.37647	10.467937	40
	No Task	Given	1.21790	1.814809	20
		Not Given	3.41090	10.079126	20
		Total	2.31440	7.233923	40
	Total	Given	1.08000	1.537806	40
		Not Given	3.61087	12.500388	40
		Total	2.34544	8.940354	80

**Box's Test of
Equality of
Covariance
Matrices^a**

Box's M	411.207
F	21.196
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	.220	10.597 ^b	2.000	75.000
	Wilks' Lambda	.780	10.597 ^b	2.000	75.000
	Hotelling's Trace	.283	10.597 ^b	2.000	75.000
	Roy's Largest Root	.283	10.597 ^b	2.000	75.000
Time * Task	Pillai's Trace	.030	1.149 ^b	2.000	75.000
	Wilks' Lambda	.970	1.149 ^b	2.000	75.000
	Hotelling's Trace	.031	1.149 ^b	2.000	75.000
	Roy's Largest Root	.031	1.149 ^b	2.000	75.000
Time * Information	Pillai's Trace	.084	3.425 ^b	2.000	75.000
	Wilks' Lambda	.916	3.425 ^b	2.000	75.000
	Hotelling's Trace	.091	3.425 ^b	2.000	75.000
	Roy's Largest Root	.091	3.425 ^b	2.000	75.000
Time * Task * Information	Pillai's Trace	.006	.221 ^b	2.000	75.000
	Wilks' Lambda	.994	.221 ^b	2.000	75.000
	Hotelling's Trace	.006	.221 ^b	2.000	75.000
	Roy's Largest Root	.006	.221 ^b	2.000	75.000

Multivariate Tests^a

Effect		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Pillai's Trace	.000	.220	21.193
	Wilks' Lambda	.000	.220	21.193
	Hotelling's Trace	.000	.220	21.193
	Roy's Largest Root	.000	.220	21.193
Time * Task	Pillai's Trace	.323	.030	2.297
	Wilks' Lambda	.323	.030	2.297
	Hotelling's Trace	.323	.030	2.297
	Roy's Largest Root	.323	.030	2.297
Time * Information	Pillai's Trace	.038	.084	6.851
	Wilks' Lambda	.038	.084	6.851
	Hotelling's Trace	.038	.084	6.851
	Roy's Largest Root	.038	.084	6.851
Time * Task * Information	Pillai's Trace	.803	.006	.441
	Wilks' Lambda	.803	.006	.441
	Hotelling's Trace	.803	.006	.441
	Roy's Largest Root	.803	.006	.441

Multivariate Tests^a

Effect		Observed Power ^c
Time	Pillai's Trace	.987
	Wilks' Lambda	.987
	Hotelling's Trace	.987
	Roy's Largest Root	.987
Time * Task	Pillai's Trace	.245
	Wilks' Lambda	.245
	Hotelling's Trace	.245
	Roy's Largest Root	.245
Time * Information	Pillai's Trace	.627
	Wilks' Lambda	.627
	Hotelling's Trace	.627
	Roy's Largest Root	.627
Time * Task * Information	Pillai's Trace	.083
	Wilks' Lambda	.083
	Hotelling's Trace	.083
	Roy's Largest Root	.083

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	.693	27.494	2	.000	.765

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Epsilon ^b	
	Huynh-Feldt	Lower-bound
Time	.809	.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	2037.648	2	1018.824	11.401
	Greenhouse-Geisser	2037.648	1.530	1331.504	11.401
	Huynh-Feldt	2037.648	1.617	1260.042	11.401
	Lower-bound	2037.648	1.000	2037.648	11.401
Time * Task	Sphericity Assumed	318.703	2	159.352	1.783
	Greenhouse-Geisser	318.703	1.530	208.257	1.783
	Huynh-Feldt	318.703	1.617	197.080	1.783
	Lower-bound	318.703	1.000	318.703	1.783
Time * Information	Sphericity Assumed	935.832	2	467.916	5.236
	Greenhouse-Geisser	935.832	1.530	611.521	5.236
	Huynh-Feldt	935.832	1.617	578.701	5.236
	Lower-bound	935.832	1.000	935.832	5.236
Time * Task * Information	Sphericity Assumed	62.082	2	31.041	.347
	Greenhouse-Geisser	62.082	1.530	40.567	.347
	Huynh-Feldt	62.082	1.617	38.390	.347
	Lower-bound	62.082	1.000	62.082	.347
Error(Time)	Sphericity Assumed	13583.038	152	89.362	
	Greenhouse-Geisser	13583.038	116.306	116.788	
	Huynh-Feldt	13583.038	122.902	110.520	
	Lower-bound	13583.038	76.000	178.724	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.	Partial Eta Squared	Noncent. Parameter
Time	Sphericity Assumed	.000	.130	22.802
	Greenhouse-Geisser	.000	.130	17.447
	Huynh-Feldt	.000	.130	18.437
	Lower-bound	.001	.130	11.401
Time * Task	Sphericity Assumed	.172	.023	3.566
	Greenhouse-Geisser	.180	.023	2.729
	Huynh-Feldt	.179	.023	2.884
	Lower-bound	.186	.023	1.783
Time * Information	Sphericity Assumed	.006	.064	10.472
	Greenhouse-Geisser	.012	.064	8.013
	Huynh-Feldt	.011	.064	8.468
	Lower-bound	.025	.064	5.236
Time * Task * Information	Sphericity Assumed	.707	.005	.695
	Greenhouse-Geisser	.649	.005	.532
	Huynh-Feldt	.661	.005	.562
	Lower-bound	.557	.005	.347
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	.992
	Greenhouse-Geisser	.976
	Huynh-Feldt	.980
	Lower-bound	.915
Time * Task	Sphericity Assumed	.369
	Greenhouse-Geisser	.320
	Huynh-Feldt	.330
	Lower-bound	.261
Time * Information	Sphericity Assumed	.826
	Greenhouse-Geisser	.746
	Huynh-Feldt	.763
	Lower-bound	.618
Time * Task * Information	Sphericity Assumed	.105
	Greenhouse-Geisser	.098
	Huynh-Feldt	.100
	Lower-bound	.090
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	154.553	1	154.553	3.627
	Quadratic	1883.095	1	1883.095	13.835
Time * Task	Linear	2.678	1	2.678	.063
	Quadratic	316.026	1	316.026	2.322
Time * Information	Linear	70.502	1	70.502	1.654
	Quadratic	865.330	1	865.330	6.358
Time * Task * Information	Linear	1.529	1	1.529	.036
	Quadratic	60.552	1	60.552	.445
Error(Time)	Linear	3238.739	76	42.615	
	Quadratic	10344.299	76	136.109	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power ^a
Time	Linear	.061	.046	3.627	.468
	Quadratic	.000	.154	13.835	.957
Time * Task	Linear	.803	.001	.063	.057
	Quadratic	.132	.030	2.322	.325
Time * Information	Linear	.202	.021	1.654	.246
	Quadratic	.014	.077	6.358	.702
Time * Task * Information	Linear	.850	.000	.036	.054
	Quadratic	.507	.006	.445	.101
Error(Time)	Linear				
	Quadratic				

a. Computed using alpha = .05

Levene's Test of Equality of Error Variances^a

		Levene Statistic	df1	df2	Sig.
TotalDurationInTableCover BeforeEarthquake	Based on Mean	2.521	3	76	.064
	Based on Median	.623	3	76	.602
	Based on Median and with adjusted df	.623	3	35.596	.605
	Based on trimmed mean	1.037	3	76	.381
TotalDurationInTableCover DuringEarthquake	Based on Mean	12.178	3	76	.000
	Based on Median	2.724	3	76	.050
	Based on Median and with adjusted df	2.724	3	52.817	.053
	Based on trimmed mean	9.596	3	76	.000
TotalDurationInTableCover AfterEarthquake	Based on Mean	2.205	3	76	.094
	Based on Median	.534	3	76	.660
	Based on Median and with adjusted df	.534	3	34.509	.662
	Based on trimmed mean	.633	3	76	.596

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	2682.624	1	2682.624	27.874	.000	.268
Task	198.631	1	198.631	2.064	.155	.026
Information	131.794	1	131.794	1.369	.246	.018
Task * Information	19.359	1	19.359	.201	.655	.003
Error	7314.348	76	96.241			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Noncent. Parameter	Observed Power ^a
Intercept	27.874	.999
Task	2.064	.294
Information	1.369	.211
Task * Information	.201	.073
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
3.343	.633	2.082	4.605

2. Task

Estimates

Measure: MEASURE_1

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Book Task	2.434	.896	.650	4.217
No Task	4.253	.896	2.469	6.037

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	-1.819	1.267	.155	-4.342	.703
No Task	Book Task	1.819	1.267	.155	-.703	4.342

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	66.210	1	66.210	2.064	.155	.026
Error	2438.116	76	32.080			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power ^a
Contrast	2.064	.294
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	4.084	.896	2.301	5.868
Not Given	2.602	.896	.819	4.386

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	1.482	1.267	.246	-1.040	4.005
Not Given	Given	-1.482	1.267	.246	-4.005	1.040

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	43.931	1	43.931	1.369	.246	.018
Error	2438.116	76	32.080			

Univariate Tests

Measure: MEASURE_1

	Noncent. Parameter	Observed Power ^a
Contrast	1.369	.211
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