

```

SORT CASES BY group.
SPLIT FILE SEPARATE BY group.
T-TEST PAIRS=ADS_frontal_N2_200_400ms WITH IDS_frontal_N2_200_400ms (PAIRED
)
/CRITERIA=CI(.9500)
/MISSING=ANALYSIS.

```

T-Test

Notes

Output Created		30-APR-2019 14:52:...
Comments		
Input	Data	/Users/szilvia/Box Sync/RA STUDIES/IDSFR/Auditory/auditory final copy....
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	group
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS=ADS_frontal_N2_200_400ms WITH IDS_frontal_N2_200_400ms (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:01.00

group = 1.00

Paired Samples Statistics^a

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 ADS_frontal_N2_200_400ms	11.5213	18	5.31544	1.25286
IDS_frontal_N2_200_400ms	11.1220	18	4.52698	1.06702

a. group = 1.00

Paired Samples Correlations^a

	N	Correlation	Sig.
Pair 1 ADS_frontal_N2_200_400ms & IDS_frontal_N2_200_400ms	18	.692	.001

a. group = 1.00

Paired Samples Test^a

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	ADS_frontal_N2_200_400ms - IDS_frontal_N2_200_400ms	.39929	3.93103	.92655	-1.55557	2.35414	.431	17	.672

a. group = 1.00

group = 2.00

Paired Samples Statistics^a

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 ADS_frontal_N2_200_400ms	9.4972	18	3.71111	.87472
IDS_frontal_N2_200_400ms	10.4602	18	3.93805	.92821

a. group = 2.00

Paired Samples Correlations^a

	N	Correlation	Sig.
Pair 1 ADS_frontal_N2_200_400ms & IDS_frontal_N2_200_400ms	18	.467	.051

a. group = 2.00

Paired Samples Test^a

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	ADS_frontal_N2_200_400ms - IDS_frontal_N2_200_400ms	-.96295	3.95444	.93207	-2.92945	1.00354	-1.033	17	.316

a. group = 2.00

T-TEST PAIRS=ADS_frontal_600_800ms WITH IDS_frontal_600_800ms (PAIRED)
/CRITERIA=CI(.9500)

/MISSING=ANALYSIS.

T-Test

Notes

Output Created		30-APR-2019 14:52:...
Comments		
Input	Data	/Users/szilvia/Box Sync/RA STUDIES/IDSFR/Auditory/auditory final copy....
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	group
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS=ADS_frontal_600_800ms WITH IDS_frontal_600_800ms (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00

group = 1.00

Paired Samples Statistics^a

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 ADS_frontal_600_800ms	12.5407	18	4.26461	1.00518
IDS_frontal_600_800ms	12.9194	18	5.97472	1.40825

a. group = 1.00

Paired Samples Correlations^a

	N	Correlation	Sig.
Pair 1 ADS_frontal_600_800ms & IDS_frontal_600_800ms	18	.701	.001

a. group = 1.00

Paired Samples Test ^a									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	ADS_frontal_600_800ms - IDS_frontal_600_800ms	-.37873	4.25955	1.00399	-2.49695	1.73949	-.377	17	.711

a. group = 1.00

group = 2.00

Paired Samples Statistics^a

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 ADS_frontal_600_800ms	10.0586	18	4.78734	1.12839
IDS_frontal_600_800ms	13.9688	18	6.13353	1.44569

a. group = 2.00

Paired Samples Correlations^a

	N	Correlation	Sig.
Pair 1 ADS_frontal_600_800ms & IDS_frontal_600_800ms	18	.278	.264

a. group = 2.00

Paired Samples Test ^a									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	ADS_frontal_600_800ms - IDS_frontal_600_800ms	-3.91022	6.64998	1.56742	-7.21718	-.60327	-2.495	17	.023

a. group = 2.00

```
GLM ADS_temporal_left200_400ms ADS_temporal_right200_400ms IDS_temporal_left200_400ms
    IDS_temporal_right200_400ms
  /WSFACTOR=ADS_IDS 2 Polynomial hem 2 Polynomial
  /METHOD=SSTYPE(3)
  /EMMEANS=TABLES(OVERALL)
  /EMMEANS=TABLES(ADS_IDS) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(hem) COMPARE ADJ(BONFERRONI)
```

```

/EMMEANS=TABLES(ADS_IDS*hem)
/PRINT=DESCRIPTIVE ETASQ
/CRITERIA=ALPHA(.05)
/WSDESIGN=ADS_IDS hem ADS_IDS*hem.

```

General Linear Model

Notes

Output Created		30-APR-2019 14:53:...
Comments		
Input	Data	/Users/szilvia/Box Sync/RA STUDIES/IDSFR/Auditor y/auditory final copy....
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	group
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		GLM ADS_temporal_left_200_ 400ms ADS_temporal_right_20 0_400ms IDS_temporal_left_200_ 400ms IDS_temporal_right_200 _400ms _WSFACTOR=ADS_IDS 2 Polynomial hem 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (OVERALL) /EMMEANS=TABLES (ADS_IDS) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (hem) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (ADS_IDS*hem) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=ADS_IDS hem ADS_IDS*hem.
Resources	Processor Time	00:00:00.04
	Elapsed Time	00:00:00.00

Within-Subjects Factors

Measure: MEASURE_1

ADS_IDS	hem	Dependent Variable
1	1	ADS_temporal_left_200_400ms
	2	ADS_temporal_right_200_400ms
2	1	IDS_temporal_left_200_400ms
	2	IDS_temporal_right_200_400ms

group = 1.00

Between

-

Subjects
Factors^a

--

a. group = 1.00

Descriptive Statistics^a

	Mean	Std. Deviation	N
ADS_temporal_left_200_400ms	-14.8966	4.98061	18
ADS_temporal_right_200_400ms	-13.7967	5.72315	18
IDS_temporal_left_200_400ms	-16.3953	5.69231	18
IDS_temporal_right_200_400ms	-14.1474	6.42499	18

a. group = 1.00

Multivariate Tests^{a,b}

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.042	.747 ^c	1.000	17.000	.399	.042
	Wilks' Lambda	.958	.747 ^c	1.000	17.000	.399	.042
	Hotelling's Trace	.044	.747 ^c	1.000	17.000	.399	.042
	Roy's Largest Root	.044	.747 ^c	1.000	17.000	.399	.042
hem	Pillai's Trace	.051	.921 ^c	1.000	17.000	.351	.051
	Wilks' Lambda	.949	.921 ^c	1.000	17.000	.351	.051
	Hotelling's Trace	.054	.921 ^c	1.000	17.000	.351	.051
	Roy's Largest Root	.054	.921 ^c	1.000	17.000	.351	.051
ADS_IDS * hem	Pillai's Trace	.032	.555 ^c	1.000	17.000	.466	.032
	Wilks' Lambda	.968	.555 ^c	1.000	17.000	.466	.032
	Hotelling's Trace	.033	.555 ^c	1.000	17.000	.466	.032
	Roy's Largest Root	.033	.555 ^c	1.000	17.000	.466	.032

a. group = 1.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. Exact statistic

Mauchly's Test of Sphericity^{a,b}

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^c		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000
hem	1.000	.000	0	.	1.000	1.000	1.000
ADS_IDS * hem	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. group = 1.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. 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^a

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	15.391	1	15.391	.747	.399	.042
	Greenhouse-Geisser	15.391	1.000	15.391	.747	.399	.042
	Huynh-Feldt	15.391	1.000	15.391	.747	.399	.042
	Lower-bound	15.391	1.000	15.391	.747	.399	.042
Error(ADS_IDS)	Sphericity Assumed	350.284	17	20.605			
	Greenhouse-Geisser	350.284	17.000	20.605			
	Huynh-Feldt	350.284	17.000	20.605			
	Lower-bound	350.284	17.000	20.605			
hem	Sphericity Assumed	50.435	1	50.435	.921	.351	.051
	Greenhouse-Geisser	50.435	1.000	50.435	.921	.351	.051
	Huynh-Feldt	50.435	1.000	50.435	.921	.351	.051
	Lower-bound	50.435	1.000	50.435	.921	.351	.051
Error(hem)	Sphericity Assumed	930.904	17	54.759			
	Greenhouse-Geisser	930.904	17.000	54.759			
	Huynh-Feldt	930.904	17.000	54.759			
	Lower-bound	930.904	17.000	54.759			
ADS_IDS * hem	Sphericity Assumed	5.931	1	5.931	.555	.466	.032
	Greenhouse-Geisser	5.931	1.000	5.931	.555	.466	.032
	Huynh-Feldt	5.931	1.000	5.931	.555	.466	.032
	Lower-bound	5.931	1.000	5.931	.555	.466	.032
Error (ADS_IDS*hem)	Sphericity Assumed	181.663	17	10.686			
	Greenhouse-Geisser	181.663	17.000	10.686			
	Huynh-Feldt	181.663	17.000	10.686			
	Lower-bound	181.663	17.000	10.686			

a. group = 1.00

Tests of Within-Subjects Contrasts^a

Measure: MEASURE_1

Source	ADS_IDS	hem	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear		15.391	1	15.391	.747	.399	.042
Error(ADS_IDS)	Linear		350.284	17	20.605			
hem		Linear	50.435	1	50.435	.921	.351	.051
Error(hem)		Linear	930.904	17	54.759			
ADS_IDS * hem	Linear	Linear	5.931	1	5.931	.555	.466	.032
Error (ADS_IDS*hem)	Linear	Linear	181.663	17	10.686			

a. group = 1.00

Tests of Between-Subjects Effects^a

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	15790.064	1	15790.064	349.385	.000	.954
Error	768.295	17	45.194			

a. group = 1.00

Estimated Marginal Means

1. Grand Mean^a

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
-14.809	.792	-16.481	-13.137

a. group = 1.00

2. ADS_IDS

Estimates^a

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-14.347	1.032	-16.524	-12.170
2	-15.271	.874	-17.114	-13.428

a. group = 1.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) ADS_IDS	(J) ADS_IDS	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	.925	1.070	.399	-1.333	3.182
2	1	-.925	1.070	.399	-3.182	1.333

Based on estimated marginal means

a. group = 1.00

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.042	.747 ^b	1.000	17.000	.399	.042
Wilks' lambda	.958	.747 ^b	1.000	17.000	.399	.042
Hotelling's trace	.044	.747 ^b	1.000	17.000	.399	.042
Roy's largest root	.044	.747 ^b	1.000	17.000	.399	.042

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 1.00

b. Exact statistic

3. hem

Estimates^a

Measure: MEASURE_1

hem	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-15.646	1.128	-18.026	-13.266
2	-13.972	1.226	-16.560	-11.384

a. group = 1.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) hem	(J) hem	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-1.674	1.744	.351	-5.354	2.006
2	1	1.674	1.744	.351	-2.006	5.354

Based on estimated marginal means

a. group = 1.00

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.051	.921 ^b	1.000	17.000	.351	.051
Wilks' lambda	.949	.921 ^b	1.000	17.000	.351	.051
Hotelling's trace	.054	.921 ^b	1.000	17.000	.351	.051
Roy's largest root	.054	.921 ^b	1.000	17.000	.351	.051

Each F tests the multivariate effect of hem. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 1.00

b. Exact statistic

4. ADS_IDS * hem^a

Measure: MEASURE_1

ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	-14.897	1.174	-17.373	-12.420
	2	-13.797	1.349	-16.643	-10.951
2	1	-16.395	1.342	-19.226	-13.565
	2	-14.147	1.514	-17.342	-10.952

a. group = 1.00

group = 2.00

Between

-

Subjects
Factors^a

a. group = 2.00

Descriptive Statistics^a

	Mean	Std. Deviation	N
ADS_temporal_left_200_400ms	-10.5523	6.15940	18
ADS_temporal_right_200_400ms	-10.6731	6.63881	18
IDS_temporal_left_200_400ms	-11.7665	7.15650	18
IDS_temporal_right_200_400ms	-9.2743	7.42574	18

a. group = 2.00

Multivariate Tests^{a,b}

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.000	.006 ^c	1.000	17.000	.939	.000
	Wilks' Lambda	1.000	.006 ^c	1.000	17.000	.939	.000
	Hotelling's Trace	.000	.006 ^c	1.000	17.000	.939	.000
	Roy's Largest Root	.000	.006 ^c	1.000	17.000	.939	.000
hem	Pillai's Trace	.034	.592 ^c	1.000	17.000	.452	.034
	Wilks' Lambda	.966	.592 ^c	1.000	17.000	.452	.034
	Hotelling's Trace	.035	.592 ^c	1.000	17.000	.452	.034
	Roy's Largest Root	.035	.592 ^c	1.000	17.000	.452	.034
ADS_IDS * hem	Pillai's Trace	.100	1.885 ^c	1.000	17.000	.188	.100
	Wilks' Lambda	.900	1.885 ^c	1.000	17.000	.188	.100
	Hotelling's Trace	.111	1.885 ^c	1.000	17.000	.188	.100
	Roy's Largest Root	.111	1.885 ^c	1.000	17.000	.188	.100

a. group = 2.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. Exact statistic

Mauchly's Test of Sphericity^{a,b}

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^c		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000
hem	1.000	.000	0	.	1.000	1.000	1.000
ADS_IDS * hem	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. group = 2.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. 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^a

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	.153	1	.153	.006	.939	.000
	Greenhouse-Geisser	.153	1.000	.153	.006	.939	.000
	Huynh-Feldt	.153	1.000	.153	.006	.939	.000
	Lower-bound	.153	1.000	.153	.006	.939	.000
Error(ADS_IDS)	Sphericity Assumed	436.014	17	25.648			
	Greenhouse-Geisser	436.014	17.000	25.648			
	Huynh-Feldt	436.014	17.000	25.648			
	Lower-bound	436.014	17.000	25.648			
hem	Sphericity Assumed	25.305	1	25.305	.592	.452	.034
	Greenhouse-Geisser	25.305	1.000	25.305	.592	.452	.034
	Huynh-Feldt	25.305	1.000	25.305	.592	.452	.034
	Lower-bound	25.305	1.000	25.305	.592	.452	.034
Error(hem)	Sphericity Assumed	726.950	17	42.762			
	Greenhouse-Geisser	726.950	17.000	42.762			
	Huynh-Feldt	726.950	17.000	42.762			
	Lower-bound	726.950	17.000	42.762			
ADS_IDS * hem	Sphericity Assumed	30.724	1	30.724	1.885	.188	.100
	Greenhouse-Geisser	30.724	1.000	30.724	1.885	.188	.100
	Huynh-Feldt	30.724	1.000	30.724	1.885	.188	.100
	Lower-bound	30.724	1.000	30.724	1.885	.188	.100
Error (ADS_IDS*hem)	Sphericity Assumed	277.149	17	16.303			
	Greenhouse-Geisser	277.149	17.000	16.303			
	Huynh-Feldt	277.149	17.000	16.303			
	Lower-bound	277.149	17.000	16.303			

a. group = 2.00

Tests of Within-Subjects Contrasts^a

Measure: MEASURE_1

Source	ADS_IDS	hem	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear		.153	1	.153	.006	.939	.000
Error(ADS_IDS)	Linear		436.014	17	25.648			
hem		Linear	25.305	1	25.305	.592	.452	.034
Error(hem)		Linear	726.950	17	42.762			
ADS_IDS * hem	Linear	Linear	30.724	1	30.724	1.885	.188	.100
Error (ADS_IDS*hem)	Linear	Linear	277.149	17	16.303			

a. group = 2.00

Tests of Between-Subjects Effects^a

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	8038.965	1	8038.965	77.554	.000	.820
Error	1762.163	17	103.657			

a. group = 2.00

Estimated Marginal Means

1. Grand Mean^a

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
-10.567	1.200	-13.098	-8.035

a. group = 2.00

2. ADS_IDS

Estimates^a

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-10.613	1.145	-13.029	-8.196
2	-10.520	1.510	-13.706	-7.335

a. group = 2.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) ADS_IDS (J) ADS_IDS		Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-.092	1.194	.939	-2.611	2.426
2	1	.092	1.194	.939	-2.426	2.611

Based on estimated marginal means

a. group = 2.00

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.000	.006 ^b	1.000	17.000	.939	.000
Wilks' lambda	1.000	.006 ^b	1.000	17.000	.939	.000
Hotelling's trace	.000	.006 ^b	1.000	17.000	.939	.000
Roy's largest root	.000	.006 ^b	1.000	17.000	.939	.000

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 2.00

b. Exact statistic

3. hem

Estimates^a

Measure: MEASURE_1

hem	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-11.159	1.343	-13.994	-8.325
2	-9.974	1.504	-13.147	-6.800

a. group = 2.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) hem	(J) hem	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-1.186	1.541	.452	-4.438	2.066
2	1	1.186	1.541	.452	-2.066	4.438

Based on estimated marginal means

a. group = 2.00

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.034	.592 ^b	1.000	17.000	.452	.034
Wilks' lambda	.966	.592 ^b	1.000	17.000	.452	.034
Hotelling's trace	.035	.592 ^b	1.000	17.000	.452	.034
Roy's largest root	.035	.592 ^b	1.000	17.000	.452	.034

Each F tests the multivariate effect of hem. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 2.00

b. Exact statistic

4. ADS_IDS * hem^a

Measure: MEASURE_1

ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	-10.552	1.452	-13.615	-7.489
	2	-10.673	1.565	-13.975	-7.372
2	1	-11.766	1.687	-15.325	-8.208
	2	-9.274	1.750	-12.967	-5.582

a. group = 2.00

```
GLM ADS_temporal_left600_800ms ADS_temporal_right600_800ms IDS_temporal_1
eft_600_800ms
    IDS_temporal_right600_800ms
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    /METHOD=SSTYPE(3)
    /EMMEANS=TABLES(OVERALL)
    /EMMEANS=TABLES(ADS_IDS) COMPARE ADJ(BONFERRONI)
    /EMMEANS=TABLES(hem) COMPARE ADJ(BONFERRONI)
    /EMMEANS=TABLES(ADS_IDS*hem)
    /PRINT=DESCRIPTIVE ETASQ
    /CRITERIA=ALPHA(.05)
    /WSDESIGN=ADS_IDS hem ADS_IDS*hem.
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General Linear Model

Notes

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	Weight	<none>
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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		GLM ADS_temporal_left_600_800ms ADS_temporal_right_600_800ms IDS_temporal_left_600_800ms IDS_temporal_right_600_800ms /WSFACTOR=ADS_IDS 2 Polynomial hem 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (OVERALL) /EMMEANS=TABLES (ADS_IDS) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (hem) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (ADS_IDS*hem) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=ADS_IDS hem ADS_IDS*hem.
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Within-Subjects Factors

Measure: MEASURE_1

ADS_IDS	hem	Dependent Variable
1	1	ADS_temporal_left_600_800ms
	2	ADS_temporal_right_600_800ms
2	1	IDS_temporal_left_600_800ms
	2	IDS_temporal_right_600_800ms

group = 1.00

Between

-

Subjects
Factors^a

--

a. group = 1.00

Descriptive Statistics^a

	Mean	Std. Deviation	N
ADS_temporal_left_600_800ms	-12.8467	5.87741	18
ADS_temporal_right_600_800ms	-13.9577	7.33661	18
IDS_temporal_left_600_800ms	-16.2650	8.30503	18
IDS_temporal_right_600_800ms	-15.4477	8.47342	18

a. group = 1.00

Multivariate Tests^{a,b}

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.288	6.875 ^c	1.000	17.000	.018	.288
	Wilks' Lambda	.712	6.875 ^c	1.000	17.000	.018	.288
	Hotelling's Trace	.404	6.875 ^c	1.000	17.000	.018	.288
	Roy's Largest Root	.404	6.875 ^c	1.000	17.000	.018	.288
hem	Pillai's Trace	.000	.007 ^c	1.000	17.000	.934	.000
	Wilks' Lambda	1.000	.007 ^c	1.000	17.000	.934	.000
	Hotelling's Trace	.000	.007 ^c	1.000	17.000	.934	.000
	Roy's Largest Root	.000	.007 ^c	1.000	17.000	.934	.000
ADS_IDS * hem	Pillai's Trace	.039	.689 ^c	1.000	17.000	.418	.039
	Wilks' Lambda	.961	.689 ^c	1.000	17.000	.418	.039
	Hotelling's Trace	.041	.689 ^c	1.000	17.000	.418	.039
	Roy's Largest Root	.041	.689 ^c	1.000	17.000	.418	.039

a. group = 1.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. Exact statistic

Mauchly's Test of Sphericity^{a,b}

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^c		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000
hem	1.000	.000	0	.	1.000	1.000	1.000
ADS_IDS * hem	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. group = 1.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. 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^a

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	108.412	1	108.412	6.875	.018	.288
	Greenhouse-Geisser	108.412	1.000	108.412	6.875	.018	.288
	Huynh-Feldt	108.412	1.000	108.412	6.875	.018	.288
	Lower-bound	108.412	1.000	108.412	6.875	.018	.288
Error(ADS_IDS)	Sphericity Assumed	268.090	17	15.770			
	Greenhouse-Geisser	268.090	17.000	15.770			
	Huynh-Feldt	268.090	17.000	15.770			
	Lower-bound	268.090	17.000	15.770			
hem	Sphericity Assumed	.388	1	.388	.007	.934	.000
	Greenhouse-Geisser	.388	1.000	.388	.007	.934	.000
	Huynh-Feldt	.388	1.000	.388	.007	.934	.000
	Lower-bound	.388	1.000	.388	.007	.934	.000
Error(hem)	Sphericity Assumed	936.406	17	55.083			
	Greenhouse-Geisser	936.406	17.000	55.083			
	Huynh-Feldt	936.406	17.000	55.083			
	Lower-bound	936.406	17.000	55.083			
ADS_IDS * hem	Sphericity Assumed	16.733	1	16.733	.689	.418	.039
	Greenhouse-Geisser	16.733	1.000	16.733	.689	.418	.039
	Huynh-Feldt	16.733	1.000	16.733	.689	.418	.039
	Lower-bound	16.733	1.000	16.733	.689	.418	.039
Error (ADS_IDS*hem)	Sphericity Assumed	413.127	17	24.302			
	Greenhouse-Geisser	413.127	17.000	24.302			
	Huynh-Feldt	413.127	17.000	24.302			
	Lower-bound	413.127	17.000	24.302			

a. group = 1.00

Tests of Within-Subjects Contrasts^a

Measure: MEASURE_1

Source	ADS_IDS	hem	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear		108.412	1	108.412	6.875	.018	.288
Error(ADS_IDS)	Linear		268.090	17	15.770			
hem		Linear	.388	1	.388	.007	.934	.000
Error(hem)		Linear	936.406	17	55.083			
ADS_IDS * hem	Linear	Linear	16.733	1	16.733	.689	.418	.039
Error (ADS_IDS*hem)	Linear	Linear	413.127	17	24.302			

a. group = 1.00

Tests of Between-Subjects Effects^a

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	15409.156	1	15409.156	115.004	.000	.871
Error	2277.795	17	133.988			

a. group = 1.00

Estimated Marginal Means

1. Grand Mean^a

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
-14.629	1.364	-17.507	-11.751

a. group = 1.00

2. ADS_IDS

Estimates^a

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-13.402	1.380	-16.314	-10.491
2	-15.856	1.502	-19.025	-12.688

a. group = 1.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) ADS_IDS	(J) ADS_IDS	Mean Difference (I-J)	Std. Error	Sig. ^c	95% Confidence Interval for Difference ^c	
					Lower Bound	Upper Bound
1	2	2.454 [*]	.936	.018	.479	4.429
2	1	-2.454 [*]	.936	.018	-4.429	-.479

Based on estimated marginal means

*. The mean difference is significant at the

a. group = 1.00

c. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.288	6.875 ^b	1.000	17.000	.018	.288
Wilks' lambda	.712	6.875 ^b	1.000	17.000	.018	.288
Hotelling's trace	.404	6.875 ^b	1.000	17.000	.018	.288
Roy's largest root	.404	6.875 ^b	1.000	17.000	.018	.288

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 1.00

b. Exact statistic

3. hem

Estimates^a

Measure: MEASURE_1

hem	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-14.556	1.518	-17.759	-11.352
2	-14.703	1.717	-18.324	-11.081

a. group = 1.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) hem	(J) hem	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	.147	1.749	.934	-3.544	3.838
2	1	-.147	1.749	.934	-3.838	3.544

Based on estimated marginal means

a. group = 1.00

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.000	.007 ^b	1.000	17.000	.934	.000
Wilks' lambda	1.000	.007 ^b	1.000	17.000	.934	.000
Hotelling's trace	.000	.007 ^b	1.000	17.000	.934	.000
Roy's largest root	.000	.007 ^b	1.000	17.000	.934	.000

Each F tests the multivariate effect of hem. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 1.00

b. Exact statistic

4. ADS_IDS * hem^a

Measure: MEASURE_1

ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	-12.847	1.385	-15.769	-9.924
	2	-13.958	1.729	-17.606	-10.309
2	1	-16.265	1.958	-20.395	-12.135
	2	-15.448	1.997	-19.661	-11.234

a. group = 1.00

group = 2.00

Between

-

Subjects
Factors^a

a. group = 2.00

Descriptive Statistics^a

	Mean	Std. Deviation	N
ADS_temporal_left_600_800ms	-8.0722	7.04117	18
ADS_temporal_right_600_800ms	-8.7170	6.63176	18
IDS_temporal_left_600_800ms	-13.1032	9.05134	18
IDS_temporal_right_600_800ms	-11.8429	8.24280	18

a. group = 2.00

Multivariate Tests^{a,b}

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.367	9.836 ^c	1.000	17.000	.006	.367
	Wilks' Lambda	.633	9.836 ^c	1.000	17.000	.006	.367
	Hotelling's Trace	.579	9.836 ^c	1.000	17.000	.006	.367
	Roy's Largest Root	.579	9.836 ^c	1.000	17.000	.006	.367
hem	Pillai's Trace	.003	.048 ^c	1.000	17.000	.829	.003
	Wilks' Lambda	.997	.048 ^c	1.000	17.000	.829	.003
	Hotelling's Trace	.003	.048 ^c	1.000	17.000	.829	.003
	Roy's Largest Root	.003	.048 ^c	1.000	17.000	.829	.003
ADS_IDS * hem	Pillai's Trace	.047	.832 ^c	1.000	17.000	.375	.047
	Wilks' Lambda	.953	.832 ^c	1.000	17.000	.375	.047
	Hotelling's Trace	.049	.832 ^c	1.000	17.000	.375	.047
	Roy's Largest Root	.049	.832 ^c	1.000	17.000	.375	.047

a. group = 2.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. Exact statistic

Mauchly's Test of Sphericity^{a,b}

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^c		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000
hem	1.000	.000	0	.	1.000	1.000	1.000
ADS_IDS * hem	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. group = 2.00

b. Design: Intercept

Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

c. 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^a

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	299.407	1	299.407	9.836	.006	.367
	Greenhouse-Geisser	299.407	1.000	299.407	9.836	.006	.367
	Huynh-Feldt	299.407	1.000	299.407	9.836	.006	.367
	Lower-bound	299.407	1.000	299.407	9.836	.006	.367
Error(ADS_IDS)	Sphericity Assumed	517.474	17	30.440			
	Greenhouse-Geisser	517.474	17.000	30.440			
	Huynh-Feldt	517.474	17.000	30.440			
	Lower-bound	517.474	17.000	30.440			
hem	Sphericity Assumed	1.705	1	1.705	.048	.829	.003
	Greenhouse-Geisser	1.705	1.000	1.705	.048	.829	.003
	Huynh-Feldt	1.705	1.000	1.705	.048	.829	.003
	Lower-bound	1.705	1.000	1.705	.048	.829	.003
Error(hem)	Sphericity Assumed	600.319	17	35.313			
	Greenhouse-Geisser	600.319	17.000	35.313			
	Huynh-Feldt	600.319	17.000	35.313			
	Lower-bound	600.319	17.000	35.313			
ADS_IDS * hem	Sphericity Assumed	16.333	1	16.333	.832	.375	.047
	Greenhouse-Geisser	16.333	1.000	16.333	.832	.375	.047
	Huynh-Feldt	16.333	1.000	16.333	.832	.375	.047
	Lower-bound	16.333	1.000	16.333	.832	.375	.047
Error (ADS_IDS*hem)	Sphericity Assumed	333.826	17	19.637			
	Greenhouse-Geisser	333.826	17.000	19.637			
	Huynh-Feldt	333.826	17.000	19.637			
	Lower-bound	333.826	17.000	19.637			

a. group = 2.00

Tests of Within-Subjects Contrasts^a

Measure: MEASURE_1

Source	ADS_IDS	hem	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear		299.407	1	299.407	9.836	.006	.367
Error(ADS_IDS)	Linear		517.474	17	30.440			
hem		Linear	1.705	1	1.705	.048	.829	.003
Error(hem)		Linear	600.319	17	35.313			
ADS_IDS * hem	Linear	Linear	16.333	1	16.333	.832	.375	.047
Error (ADS_IDS*hem)	Linear	Linear	333.826	17	19.637			

a. group = 2.00

Tests of Between-Subjects Effects^a

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	7838.254	1	7838.254	49.597	.000	.745
Error	2686.672	17	158.040			

a. group = 2.00

Estimated Marginal Means

1. Grand Mean^a

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
-10.434	1.482	-13.560	-7.308

a. group = 2.00

2. ADS_IDS

Estimates^a

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-8.395	1.366	-11.277	-5.512
2	-12.473	1.836	-16.346	-8.600

a. group = 2.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) ADS_IDS	(J) ADS_IDS	Mean Difference (I-J)	Std. Error	Sig. ^c	95% Confidence Interval for Difference ^c	
					Lower Bound	Upper Bound
1	2	4.078 [*]	1.300	.006	1.335	6.822
2	1	-4.078 [*]	1.300	.006	-6.822	-1.335

Based on estimated marginal means

*. The mean difference is significant at the

a. group = 2.00

c. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.367	9.836 ^b	1.000	17.000	.006	.367
Wilks' lambda	.633	9.836 ^b	1.000	17.000	.006	.367
Hotelling's trace	.579	9.836 ^b	1.000	17.000	.006	.367
Roy's largest root	.579	9.836 ^b	1.000	17.000	.006	.367

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 2.00

b. Exact statistic

3. hem

Estimates^a

Measure: MEASURE_1

hem	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-10.588	1.702	-14.178	-6.998
2	-10.280	1.573	-13.599	-6.960

a. group = 2.00

Pairwise Comparisons^a

Measure: MEASURE_1

(I) hem	(J) hem	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-.308	1.401	.829	-3.263	2.647
2	1	.308	1.401	.829	-2.647	3.263

Based on estimated marginal means

a. group = 2.00

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests^a

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.003	.048 ^b	1.000	17.000	.829	.003
Wilks' lambda	.997	.048 ^b	1.000	17.000	.829	.003
Hotelling's trace	.003	.048 ^b	1.000	17.000	.829	.003
Roy's largest root	.003	.048 ^b	1.000	17.000	.829	.003

Each F tests the multivariate effect of hem. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.^a

a. group = 2.00

b. Exact statistic

4. ADS_IDS * hem^a

Measure: MEASURE_1

ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	-8.072	1.660	-11.574	-4.571
	2	-8.717	1.563	-12.015	-5.419
2	1	-13.103	2.133	-17.604	-8.602
	2	-11.843	1.943	-15.942	-7.744

a. group = 2.00

```

SPLIT FILE OFF.
GLM ADS_temporal_left200_400ms ADS_temporal_right200_400ms IDS_temporal_1
eft_200_400ms
  IDS_temporal_right200_400ms BY group
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  /METHOD=SSTYPE(3)
  /EMMEANS=TABLES(OVERALL)
  /EMMEANS=TABLES(ADS_IDS) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(hem) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(ADS_IDS*hem)
  /EMMEANS=TABLES(group) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(group*ADS_IDS)
  /EMMEANS=TABLES(group*hem)
  /EMMEANS=TABLES(group*ADS_IDS*hem)
  /PRINT=DESCRIPTIVE ETASQ
  /CRITERIA=ALPHA(.05)
  /WSDESIGN=ADS_IDS hem ADS_IDS*hem
  /DESIGN=group.

```

General Linear Model

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		GLM ADS_temporal_left_200_ 400ms ADS_temporal_right_200_ 400ms IDS_temporal_left_200_ 400ms IDS_temporal_right_200_ 400ms BY group /WSFACTOR=ADS_IDS 2 Polynomial hem 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (OVERALL) /EMMEANS=TABLES (ADS_IDS) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (hem) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (ADS_IDS*hem) /EMMEANS=TABLES (group) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (group*ADS_IDS) /EMMEANS=TABLES (group*hem) /EMMEANS=TABLES (group*ADS_IDS*hem) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=ADS_IDS hem ADS_IDS*hem /DESIGN=group.
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	Elapsed Time	00:00:00.00

Within-Subjects Factors

Measure: MEASURE_1

ADS_IDS	hem	Dependent Variable
1	1	ADS_temporal_left_200_400ms
	2	ADS_temporal_right_200_400ms
2	1	IDS_temporal_left_200_400ms
	2	IDS_temporal_right_200_400ms

Between-Subjects Factors

	N
group 1.00	18
2.00	18

Descriptive Statistics

	group	Mean	Std. Deviation	N
ADS_temporal_left_200_400ms	1.00	-14.8966	4.98061	18
	2.00	-10.5523	6.15940	18
	Total	-12.7245	5.94382	36
ADS_temporal_right_200_400ms	1.00	-13.7967	5.72315	18
	2.00	-10.6731	6.63881	18
	Total	-12.2349	6.31074	36
IDS_temporal_left_200_400ms	1.00	-16.3953	5.69231	18
	2.00	-11.7665	7.15650	18
	Total	-14.0809	6.79146	36
IDS_temporal_right_200_400ms	1.00	-14.1474	6.42499	18
	2.00	-9.2743	7.42574	18
	Total	-11.7109	7.27598	36

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.008	.270 ^b	1.000	34.000	.607	.008
	Wilks' Lambda	.992	.270 ^b	1.000	34.000	.607	.008
	Hotelling's Trace	.008	.270 ^b	1.000	34.000	.607	.008
	Roy's Largest Root	.008	.270 ^b	1.000	34.000	.607	.008
ADS_IDS * group	Pillai's Trace	.012	.403 ^b	1.000	34.000	.530	.012
	Wilks' Lambda	.988	.403 ^b	1.000	34.000	.530	.012
	Hotelling's Trace	.012	.403 ^b	1.000	34.000	.530	.012
	Roy's Largest Root	.012	.403 ^b	1.000	34.000	.530	.012
hem	Pillai's Trace	.043	1.509 ^b	1.000	34.000	.228	.043
	Wilks' Lambda	.957	1.509 ^b	1.000	34.000	.228	.043
	Hotelling's Trace	.044	1.509 ^b	1.000	34.000	.228	.043
	Roy's Largest Root	.044	1.509 ^b	1.000	34.000	.228	.043
hem * group	Pillai's Trace	.001	.044 ^b	1.000	34.000	.835	.001
	Wilks' Lambda	.999	.044 ^b	1.000	34.000	.835	.001
	Hotelling's Trace	.001	.044 ^b	1.000	34.000	.835	.001
	Roy's Largest Root	.001	.044 ^b	1.000	34.000	.835	.001
ADS_IDS * hem	Pillai's Trace	.065	2.359 ^b	1.000	34.000	.134	.065
	Wilks' Lambda	.935	2.359 ^b	1.000	34.000	.134	.065
	Hotelling's Trace	.069	2.359 ^b	1.000	34.000	.134	.065
	Roy's Largest Root	.069	2.359 ^b	1.000	34.000	.134	.065
ADS_IDS * hem * group	Pillai's Trace	.010	.358 ^b	1.000	34.000	.554	.010
	Wilks' Lambda	.990	.358 ^b	1.000	34.000	.554	.010
	Hotelling's Trace	.011	.358 ^b	1.000	34.000	.554	.010
	Roy's Largest Root	.011	.358 ^b	1.000	34.000	.554	.010

a. Design: Intercept + group
Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

b. Exact statistic

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000
hem	1.000	.000	0	.	1.000	1.000	1.000
ADS_IDS * hem	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept + group
Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem

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	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	6.236	1	6.236	.270	.607	.008
	Greenhouse-Geisser	6.236	1.000	6.236	.270	.607	.008
	Huynh-Feldt	6.236	1.000	6.236	.270	.607	.008
	Lower-bound	6.236	1.000	6.236	.270	.607	.008
ADS_IDS * group	Sphericity Assumed	9.309	1	9.309	.403	.530	.012
	Greenhouse-Geisser	9.309	1.000	9.309	.403	.530	.012
	Huynh-Feldt	9.309	1.000	9.309	.403	.530	.012
	Lower-bound	9.309	1.000	9.309	.403	.530	.012
Error(ADS_IDS)	Sphericity Assumed	786.298	34	23.126			
	Greenhouse-Geisser	786.298	34.000	23.126			
	Huynh-Feldt	786.298	34.000	23.126			
	Lower-bound	786.298	34.000	23.126			
hem	Sphericity Assumed	73.595	1	73.595	1.509	.228	.043
	Greenhouse-Geisser	73.595	1.000	73.595	1.509	.228	.043
	Huynh-Feldt	73.595	1.000	73.595	1.509	.228	.043
	Lower-bound	73.595	1.000	73.595	1.509	.228	.043
hem * group	Sphericity Assumed	2.145	1	2.145	.044	.835	.001
	Greenhouse-Geisser	2.145	1.000	2.145	.044	.835	.001
	Huynh-Feldt	2.145	1.000	2.145	.044	.835	.001
	Lower-bound	2.145	1.000	2.145	.044	.835	.001
Error(hem)	Sphericity Assumed	1657.853	34	48.760			
	Greenhouse-Geisser	1657.853	34.000	48.760			
	Huynh-Feldt	1657.853	34.000	48.760			
	Lower-bound	1657.853	34.000	48.760			
ADS_IDS * hem	Sphericity Assumed	31.827	1	31.827	2.359	.134	.065
	Greenhouse-Geisser	31.827	1.000	31.827	2.359	.134	.065
	Huynh-Feldt	31.827	1.000	31.827	2.359	.134	.065
	Lower-bound	31.827	1.000	31.827	2.359	.134	.065
ADS_IDS * hem * group	Sphericity Assumed	4.828	1	4.828	.358	.554	.010
	Greenhouse-Geisser	4.828	1.000	4.828	.358	.554	.010
	Huynh-Feldt	4.828	1.000	4.828	.358	.554	.010
	Lower-bound	4.828	1.000	4.828	.358	.554	.010
Error (ADS_IDS*hem)	Sphericity Assumed	458.812	34	13.494			
	Greenhouse-Geisser	458.812	34.000	13.494			
	Huynh-Feldt	458.812	34.000	13.494			
	Lower-bound	458.812	34.000	13.494			

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	ADS_IDS	hem	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear		6.236	1	6.236	.270	.607	.008
ADS_IDS * group	Linear		9.309	1	9.309	.403	.530	.012
Error(ADS_IDS)	Linear		786.298	34	23.126			
hem		Linear	73.595	1	73.595	1.509	.228	.043
hem * group		Linear	2.145	1	2.145	.044	.835	.001
Error(hem)		Linear	1657.853	34	48.760			
ADS_IDS * hem	Linear	Linear	31.827	1	31.827	2.359	.134	.065
ADS_IDS * hem * group	Linear	Linear	4.828	1	4.828	.358	.554	.010
Error (ADS_IDS*hem)	Linear	Linear	458.812	34	13.494			

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	23181.092	1	23181.092	311.468	.000	.902
group	647.937	1	647.937	8.706	.006	.204
Error	2530.458	34	74.425			

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
-12.688	.719	-14.149	-11.227

2. ADS_IDS

Estimates

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-12.480	.771	-14.046	-10.913
2	-12.896	.872	-14.668	-11.123

Pairwise Comparisons

Measure: MEASURE_1

(I) ADS_IDS	(J) ADS_IDS	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	.416	.801	.607	-1.213	2.045
2	1	-.416	.801	.607	-2.045	1.213

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	.008	.270 ^a	1.000	34.000	.607	.008
Wilks' lambda	.992	.270 ^a	1.000	34.000	.607	.008
Hotelling's trace	.008	.270 ^a	1.000	34.000	.607	.008
Roy's largest root	.008	.270 ^a	1.000	34.000	.607	.008

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

3. hem

Estimates

Measure: MEASURE_1

hem	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-13.403	.877	-15.185	-11.620
2	-11.973	.970	-13.945	-10.001

Pairwise Comparisons

Measure: MEASURE_1

(I) hem	(J) hem	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-1.430	1.164	.228	-3.795	.935
2	1	1.430	1.164	.228	-.935	3.795

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	.043	1.509 ^a	1.000	34.000	.228	.043
Wilks' lambda	.957	1.509 ^a	1.000	34.000	.228	.043
Hotelling's trace	.044	1.509 ^a	1.000	34.000	.228	.043
Roy's largest root	.044	1.509 ^a	1.000	34.000	.228	.043

Each F tests the multivariate effect of hem. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

4. ADS_IDS * hem

Measure: MEASURE_1

ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	-12.724	.934	-14.622	-10.827
	2	-12.235	1.033	-14.334	-10.136
2	1	-14.081	1.078	-16.271	-11.891
	2	-11.711	1.157	-14.063	-9.359

5. group

Estimates

Measure: MEASURE_1

group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1.00	-14.809	1.017	-16.875	-12.743
2.00	-10.567	1.017	-12.633	-8.500

Pairwise Comparisons

Measure: MEASURE_1

(I) group	(J) group	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1.00	2.00	-4.242 [*]	1.438	.006	-7.164	-1.320
2.00	1.00	4.242 [*]	1.438	.006	1.320	7.164

Based on estimated marginal means

*. The mean difference is significant at the

b. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests

Measure: MEASURE_1

	Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Contrast	161.984	1	161.984	8.706	.006	.204
Error	632.614	34	18.606			

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

6. group * ADS_IDS

Measure: MEASURE_1

group	ADS_IDS	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1	-14.347	1.090	-16.562	-12.131
	2	-15.271	1.234	-17.778	-12.765
2.00	1	-10.613	1.090	-12.828	-8.397
	2	-10.520	1.234	-13.027	-8.014

7. group * hem

Measure: MEASURE_1

group	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1	-15.646	1.240	-18.167	-13.125
	2	-13.972	1.372	-16.761	-11.183
2.00	1	-11.159	1.240	-13.680	-8.639
	2	-9.974	1.372	-12.763	-7.185

8. group * ADS_IDS * hem

Measure: MEASURE_1

group	ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
1.00	1	1	-14.897	1.320	-17.580	-12.214
		2	-13.797	1.461	-16.766	-10.828
	2	1	-16.395	1.524	-19.493	-13.298
		2	-14.147	1.637	-17.473	-10.821
2.00	1	1	-10.552	1.320	-13.235	-7.869
		2	-10.673	1.461	-13.642	-7.704
	2	1	-11.766	1.524	-14.864	-8.669
		2	-9.274	1.637	-12.600	-5.948

GLM ADS_temporal_left600_800ms ADS_temporal_right600_800ms IDS_temporal_1
eft_600_800ms

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IDS_temporal_right600_800ms BY group
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/EMMEANS=TABLES(ADS_IDS) COMPARE ADJ(BONFERRONI)
/EMMEANS=TABLES(hem) COMPARE ADJ(BONFERRONI)
/EMMEANS=TABLES(ADS_IDS*hem)
/EMMEANS=TABLES(group) COMPARE ADJ(BONFERRONI)
/EMMEANS=TABLES(group*ADS_IDS)
/EMMEANS=TABLES(group*hem)
/EMMEANS=TABLES(group*ADS_IDS*hem)
/PRINT=DESCRIPTIVE ETASQ
/CRITERIA=ALPHA(.05)
/WSDESIGN=ADS_IDS hem ADS_IDS*hem
/DESIGN=group.
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General Linear Model

Notes

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Comments		
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	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		GLM ADS_temporal_left_600_ 800ms ADS_temporal_right_600_ 800ms IDS_temporal_left_600_ 800ms IDS_temporal_right_600_ 800ms BY group /WSFACTOR=ADS_IDS 2 Polynomial hem 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (OVERALL) /EMMEANS=TABLES (ADS_IDS) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (hem) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (ADS_IDS*hem) /EMMEANS=TABLES (group) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (group*ADS_IDS) /EMMEANS=TABLES (group*hem) /EMMEANS=TABLES (group*ADS_IDS*hem) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=ADS_IDS hem ADS_IDS*hem /DESIGN=group.
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Within-Subjects Factors

Measure: MEASURE_1

ADS_IDS	hem	Dependent Variable
1	1	ADS_temporal_left_600_800ms
	2	ADS_temporal_right_600_800ms
2	1	IDS_temporal_left_600_800ms
	2	IDS_temporal_right_600_800ms

Between-Subjects Factors

	N
group 1.00	18
2.00	18

Descriptive Statistics

	group	Mean	Std. Deviation	N
ADS_temporal_left_600_800ms	1.00	-12.8467	5.87741	18
	2.00	-8.0722	7.04117	18
	Total	-10.4595	6.83527	36
ADS_temporal_right_600_800ms	1.00	-13.9577	7.33661	18
	2.00	-8.7170	6.63176	18
	Total	-11.3374	7.38705	36
IDS_temporal_left_600_800ms	1.00	-16.2650	8.30503	18
	2.00	-13.1032	9.05134	18
	Total	-14.6841	8.71005	36
IDS_temporal_right_600_800ms	1.00	-15.4477	8.47342	18
	2.00	-11.8429	8.24280	18
	Total	-13.6453	8.43899	36

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.328	16.623 ^b	1.000	34.000	.000	.328
	Wilks' Lambda	.672	16.623 ^b	1.000	34.000	.000	.328
	Hotelling's Trace	.489	16.623 ^b	1.000	34.000	.000	.328
	Roy's Largest Root	.489	16.623 ^b	1.000	34.000	.000	.328
ADS_IDS * group	Pillai's Trace	.029	1.028 ^b	1.000	34.000	.318	.029
	Wilks' Lambda	.971	1.028 ^b	1.000	34.000	.318	.029
	Hotelling's Trace	.030	1.028 ^b	1.000	34.000	.318	.029
	Roy's Largest Root	.030	1.028 ^b	1.000	34.000	.318	.029
hem	Pillai's Trace	.000	.005 ^b	1.000	34.000	.943	.000
	Wilks' Lambda	1.000	.005 ^b	1.000	34.000	.943	.000
	Hotelling's Trace	.000	.005 ^b	1.000	34.000	.943	.000
	Roy's Largest Root	.000	.005 ^b	1.000	34.000	.943	.000
hem * group	Pillai's Trace	.001	.041 ^b	1.000	34.000	.840	.001
	Wilks' Lambda	.999	.041 ^b	1.000	34.000	.840	.001
	Hotelling's Trace	.001	.041 ^b	1.000	34.000	.840	.001
	Roy's Largest Root	.001	.041 ^b	1.000	34.000	.840	.001
ADS_IDS * hem	Pillai's Trace	.042	1.505 ^b	1.000	34.000	.228	.042
	Wilks' Lambda	.958	1.505 ^b	1.000	34.000	.228	.042
	Hotelling's Trace	.044	1.505 ^b	1.000	34.000	.228	.042
	Roy's Largest Root	.044	1.505 ^b	1.000	34.000	.228	.042
ADS_IDS * hem * group	Pillai's Trace	.000	.000 ^b	1.000	34.000	.994	.000
	Wilks' Lambda	1.000	.000 ^b	1.000	34.000	.994	.000
	Hotelling's Trace	.000	.000 ^b	1.000	34.000	.994	.000
	Roy's Largest Root	.000	.000 ^b	1.000	34.000	.994	.000

- a. Design: Intercept + group
Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem
- b. Exact statistic

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000
hem	1.000	.000	0	.	1.000	1.000	1.000
ADS_IDS * hem	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

- a. Design: Intercept + group
Within Subjects Design: ADS_IDS + hem + ADS_IDS * hem
- 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	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	384.075	1	384.075	16.623	.000	.328
	Greenhouse-Geisser	384.075	1.000	384.075	16.623	.000	.328
	Huynh-Feldt	384.075	1.000	384.075	16.623	.000	.328
	Lower-bound	384.075	1.000	384.075	16.623	.000	.328
ADS_IDS * group	Sphericity Assumed	23.745	1	23.745	1.028	.318	.029
	Greenhouse-Geisser	23.745	1.000	23.745	1.028	.318	.029
	Huynh-Feldt	23.745	1.000	23.745	1.028	.318	.029
	Lower-bound	23.745	1.000	23.745	1.028	.318	.029
Error(ADS_IDS)	Sphericity Assumed	785.564	34	23.105			
	Greenhouse-Geisser	785.564	34.000	23.105			
	Huynh-Feldt	785.564	34.000	23.105			
	Lower-bound	785.564	34.000	23.105			
hem	Sphericity Assumed	.233	1	.233	.005	.943	.000
	Greenhouse-Geisser	.233	1.000	.233	.005	.943	.000
	Huynh-Feldt	.233	1.000	.233	.005	.943	.000
	Lower-bound	.233	1.000	.233	.005	.943	.000
hem * group	Sphericity Assumed	1.861	1	1.861	.041	.840	.001
	Greenhouse-Geisser	1.861	1.000	1.861	.041	.840	.001
	Huynh-Feldt	1.861	1.000	1.861	.041	.840	.001
	Lower-bound	1.861	1.000	1.861	.041	.840	.001
Error(hem)	Sphericity Assumed	1536.725	34	45.198			
	Greenhouse-Geisser	1536.725	34.000	45.198			
	Huynh-Feldt	1536.725	34.000	45.198			
	Lower-bound	1536.725	34.000	45.198			
ADS_IDS * hem	Sphericity Assumed	33.065	1	33.065	1.505	.228	.042
	Greenhouse-Geisser	33.065	1.000	33.065	1.505	.228	.042
	Huynh-Feldt	33.065	1.000	33.065	1.505	.228	.042
	Lower-bound	33.065	1.000	33.065	1.505	.228	.042
ADS_IDS * hem * group	Sphericity Assumed	.001	1	.001	.000	.994	.000
	Greenhouse-Geisser	.001	1.000	.001	.000	.994	.000
	Huynh-Feldt	.001	1.000	.001	.000	.994	.000
	Lower-bound	.001	1.000	.001	.000	.994	.000
Error (ADS_IDS*hem)	Sphericity Assumed	746.953	34	21.969			
	Greenhouse-Geisser	746.953	34.000	21.969			
	Huynh-Feldt	746.953	34.000	21.969			
	Lower-bound	746.953	34.000	21.969			

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	ADS_IDS	hem	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear		384.075	1	384.075	16.623	.000	.328
ADS_IDS * group	Linear		23.745	1	23.745	1.028	.318	.029
Error(ADS_IDS)	Linear		785.564	34	23.105			
hem		Linear	.233	1	.233	.005	.943	.000
hem * group		Linear	1.861	1	1.861	.041	.840	.001
Error(hem)		Linear	1536.725	34	45.198			
ADS_IDS * hem	Linear	Linear	33.065	1	33.065	1.505	.228	.042
ADS_IDS * hem * group	Linear	Linear	.001	1	.001	.000	.994	.000
Error (ADS_IDS*hem)	Linear	Linear	746.953	34	21.969			

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	22613.741	1	22613.741	154.874	.000	.820
group	633.669	1	633.669	4.340	.045	.113
Error	4964.466	34	146.014			

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
-12.532	1.007	-14.578	-10.485

2. ADS_IDS

Estimates

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-10.898	.971	-12.872	-8.925
2	-14.165	1.186	-16.575	-11.755

Pairwise Comparisons

Measure: MEASURE_1

(I) ADS_IDS	(J) ADS_IDS	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	3.266 [*]	.801	.000	1.638	4.894
2	1	-3.266 [*]	.801	.000	-4.894	-1.638

Based on estimated marginal means

*. The mean difference is significant at the

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.328	16.623 ^a	1.000	34.000	.000	.328
Wilks' lambda	.672	16.623 ^a	1.000	34.000	.000	.328
Hotelling's trace	.489	16.623 ^a	1.000	34.000	.000	.328
Roy's largest root	.489	16.623 ^a	1.000	34.000	.000	.328

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

3. hem

Estimates

Measure: MEASURE_1

hem	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	-12.572	1.140	-14.889	-10.254
2	-12.491	1.164	-14.857	-10.125

Pairwise Comparisons

Measure: MEASURE_1

(I) hem	(J) hem	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.080	1.120	.943	-2.358	2.197
2	1	.080	1.120	.943	-2.197	2.358

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	.000	.005 ^a	1.000	34.000	.943	.000
Wilks' lambda	1.000	.005 ^a	1.000	34.000	.943	.000
Hotelling's trace	.000	.005 ^a	1.000	34.000	.943	.000
Roy's largest root	.000	.005 ^a	1.000	34.000	.943	.000

Each F tests the multivariate effect of hem. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

4. ADS_IDS * hem

Measure: MEASURE_1

ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	-10.459	1.081	-12.656	-8.263
	2	-11.337	1.166	-13.706	-8.969
2	1	-14.684	1.448	-17.626	-11.742
	2	-13.645	1.393	-16.477	-10.814

5. group

Estimates

Measure: MEASURE_1

group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1.00	-14.629	1.424	-17.523	-11.735
2.00	-10.434	1.424	-13.328	-7.540

Pairwise Comparisons

Measure: MEASURE_1

(I) group	(J) group	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1.00	2.00	-4.195 [*]	2.014	.045	-8.288	-.103
2.00	1.00	4.195 [*]	2.014	.045	.103	8.288

Based on estimated marginal means

*. The mean difference is significant at the

b. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests

Measure: MEASURE_1

	Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Contrast	158.417	1	158.417	4.340	.045	.113
Error	1241.117	34	36.503			

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

6. group * ADS_IDS

Measure: MEASURE_1

group	ADS_IDS	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1	-13.402	1.373	-16.193	-10.612
	2	-15.856	1.677	-19.264	-12.448
2.00	1	-8.395	1.373	-11.185	-5.604
	2	-12.473	1.677	-15.881	-9.065

7. group * hem

Measure: MEASURE_1

group	hem	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1	-14.556	1.613	-17.833	-11.279
	2	-14.703	1.647	-18.049	-11.357
2.00	1	-10.588	1.613	-13.865	-7.311
	2	-10.280	1.647	-13.626	-6.934

8. group * ADS_IDS * hem

Measure: MEASURE_1

group	ADS_IDS	hem	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
1.00	1	1	-12.847	1.529	-15.953	-9.740
		2	-13.958	1.648	-17.307	-10.608
	2	1	-16.265	2.047	-20.426	-12.104
		2	-15.448	1.970	-19.452	-11.444
2.00	1	1	-8.072	1.529	-11.179	-4.966
		2	-8.717	1.648	-12.067	-5.367
	2	1	-13.103	2.047	-17.264	-8.942
		2	-11.843	1.970	-15.847	-7.839

```
GLM ADS_frontal_N2200_400ms IDS_frontal_N2200_400ms BY group
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/EMMEANS=TABLES(OVERALL)
/EMMEANS=TABLES(ADS_IDS) COMPARE ADJ(BONFERRONI)
/EMMEANS=TABLES(group) COMPARE ADJ(BONFERRONI)
/EMMEANS=TABLES(group*ADS_IDS)
```

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/PRINT=DESCRIPTIVE ETASQ
/CRITERIA=ALPHA(.05)
/WSDESIGN=ADS_IDS
/DESIGN=group.

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General Linear Model

Notes

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	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
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**Within-Subjects
Factors**

Measure: MEASURE_1

ADS_IDS	Dependent Variable
1	ADS_frontal_N2_200_400 ms
2	IDS_frontal_N2_200_400 ms

**Between-Subjects
Factors**

	N
group 1.00	18
2.00	18

Descriptive Statistics

	group	Mean	Std. Deviation	N
ADS_frontal_N2_200_400ms	1.00	11.5213	5.31544	18
	2.00	9.4972	3.71111	18
	Total	10.5093	4.63317	36
IDS_frontal_N2_200_400ms	1.00	11.1220	4.52698	18
	2.00	10.4602	3.93805	18
	Total	10.7911	4.19514	36

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.005	.184 ^b	1.000	34.000	.671	.005
	Wilks' Lambda	.995	.184 ^b	1.000	34.000	.671	.005
	Hotelling's Trace	.005	.184 ^b	1.000	34.000	.671	.005
	Roy's Largest Root	.005	.184 ^b	1.000	34.000	.671	.005
ADS_IDS * group	Pillai's Trace	.031	1.074 ^b	1.000	34.000	.307	.031
	Wilks' Lambda	.969	1.074 ^b	1.000	34.000	.307	.031
	Hotelling's Trace	.032	1.074 ^b	1.000	34.000	.307	.031
	Roy's Largest Root	.032	1.074 ^b	1.000	34.000	.307	.031

a. Design: Intercept + group
Within Subjects Design: ADS_IDS

b. Exact statistic

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept + group
Within Subjects Design: ADS_IDS

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	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	1.430	1	1.430	.184	.671	.005
	Greenhouse-Geisser	1.430	1.000	1.430	.184	.671	.005
	Huynh-Feldt	1.430	1.000	1.430	.184	.671	.005
	Lower-bound	1.430	1.000	1.430	.184	.671	.005
ADS_IDS * group	Sphericity Assumed	8.351	1	8.351	1.074	.307	.031
	Greenhouse-Geisser	8.351	1.000	8.351	1.074	.307	.031
	Huynh-Feldt	8.351	1.000	8.351	1.074	.307	.031
	Lower-bound	8.351	1.000	8.351	1.074	.307	.031
Error(ADS_IDS)	Sphericity Assumed	264.270	34	7.773			
	Greenhouse-Geisser	264.270	34.000	7.773			
	Huynh-Feldt	264.270	34.000	7.773			
	Lower-bound	264.270	34.000	7.773			

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	ADS_IDS	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear	1.430	1	1.430	.184	.671	.005
ADS_IDS * group	Linear	8.351	1	8.351	1.074	.307	.031
Error(ADS_IDS)	Linear	264.270	34	7.773			

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	8166.676	1	8166.676	261.406	.000	.885
group	32.464	1	32.464	1.039	.315	.030
Error	1062.207	34	31.241			

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
10.650	.659	9.311	11.989

2. ADS_IDS

Estimates

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	10.509	.764	8.957	12.062
2	10.791	.707	9.354	12.228

Pairwise Comparisons

Measure: MEASURE_1

(I) ADS_IDS (J) ADS_IDS		Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.282	.657	.671	-1.617	1.054
2	1	.282	.657	.671	-1.054	1.617

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	.005	.184 ^a	1.000	34.000	.671	.005
Wilks' lambda	.995	.184 ^a	1.000	34.000	.671	.005
Hotelling's trace	.005	.184 ^a	1.000	34.000	.671	.005
Roy's largest root	.005	.184 ^a	1.000	34.000	.671	.005

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

3. group

Estimates

Measure: MEASURE_1

group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1.00	11.322	.932	9.428	13.215
2.00	9.979	.932	8.086	11.872

Pairwise Comparisons

Measure: MEASURE_1

(I) group	(J) group	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1.00	2.00	1.343	1.317	.315	-1.334	4.020
2.00	1.00	-1.343	1.317	.315	-4.020	1.334

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	16.232	1	16.232	1.039	.315	.030
Error	531.104	34	15.621			

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

4. group * ADS_IDS

Measure: MEASURE_1

group	ADS_IDS	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1	11.521	1.080	9.326	13.717
	2	11.122	1.000	9.090	13.154
2.00	1	9.497	1.080	7.301	11.693
	2	10.460	1.000	8.428	12.492

```
GLM ADS_frontal_600_800ms IDS_frontal_600_800ms BY group
  /WSFACTOR=ADS_IDS 2 Polynomial
  /METHOD=SSTYPE(3)
  /EMMEANS=TABLES(OVERALL)
  /EMMEANS=TABLES(ADS_IDS) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(group) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(group*ADS_IDS)
  /PRINT=DESCRIPTIVE ETASQ
  /CRITERIA=ALPHA(.05)
  /WSDESIGN=ADS_IDS
  /DESIGN=group.
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General Linear Model

Notes

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Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		GLM ADS_frontal_600_800ms IDS_frontal_600_800ms BY group /WSFACTOR=ADS_IDS 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (OVERALL) /EMMEANS=TABLES (ADS_IDS) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (group) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (group*ADS_IDS) /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /WSDESIGN=ADS_IDS /DESIGN=group.
Resources	Processor Time	00:00:00.02
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Within-Subjects Factors

Measure: MEASURE_1

ADS_IDS	Dependent Variable
1	ADS_frontal_600_800ms
2	IDS_frontal_600_800ms

**Between-Subjects
Factors**

	N
group 1.00	18
2.00	18

Descriptive Statistics

	group	Mean	Std. Deviation	N
ADS_frontal_600_800ms	1.00	12.5407	4.26461	18
	2.00	10.0586	4.78734	18
	Total	11.2996	4.64217	36
IDS_frontal_600_800ms	1.00	12.9194	5.97472	18
	2.00	13.9688	6.13353	18
	Total	13.4441	5.99120	36

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
ADS_IDS	Pillai's Trace	.135	5.309 ^b	1.000	34.000	.027	.135
	Wilks' Lambda	.865	5.309 ^b	1.000	34.000	.027	.135
	Hotelling's Trace	.156	5.309 ^b	1.000	34.000	.027	.135
	Roy's Largest Root	.156	5.309 ^b	1.000	34.000	.027	.135
ADS_IDS * group	Pillai's Trace	.096	3.599 ^b	1.000	34.000	.066	.096
	Wilks' Lambda	.904	3.599 ^b	1.000	34.000	.066	.096
	Hotelling's Trace	.106	3.599 ^b	1.000	34.000	.066	.096
	Roy's Largest Root	.106	3.599 ^b	1.000	34.000	.066	.096

a. Design: Intercept + group
Within Subjects Design: ADS_IDS

b. Exact statistic

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
ADS_IDS	1.000	.000	0	.	1.000	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept + group
Within Subjects Design: ADS_IDS

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	Sig.	Partial Eta Squared
ADS_IDS	Sphericity Assumed	82.778	1	82.778	5.309	.027	.135
	Greenhouse-Geisser	82.778	1.000	82.778	5.309	.027	.135
	Huynh-Feldt	82.778	1.000	82.778	5.309	.027	.135
	Lower-bound	82.778	1.000	82.778	5.309	.027	.135
ADS_IDS * group	Sphericity Assumed	56.122	1	56.122	3.599	.066	.096
	Greenhouse-Geisser	56.122	1.000	56.122	3.599	.066	.096
	Huynh-Feldt	56.122	1.000	56.122	3.599	.066	.096
	Lower-bound	56.122	1.000	56.122	3.599	.066	.096
Error(ADS_IDS)	Sphericity Assumed	530.111	34	15.591			
	Greenhouse-Geisser	530.111	34.000	15.591			
	Huynh-Feldt	530.111	34.000	15.591			
	Lower-bound	530.111	34.000	15.591			

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	ADS_IDS	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
ADS_IDS	Linear	82.778	1	82.778	5.309	.027	.135
ADS_IDS * group	Linear	56.122	1	56.122	3.599	.066	.096
Error(ADS_IDS)	Linear	530.111	34	15.591			

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	11020.568	1	11020.568	264.790	.000	.886
group	9.237	1	9.237	.222	.641	.006
Error	1415.080	34	41.620			

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
12.372	.760	10.827	13.917

2. ADS_IDS

Estimates

Measure: MEASURE_1

ADS_IDS	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	11.300	.756	9.764	12.835
2	13.444	1.009	11.393	15.495

Pairwise Comparisons

Measure: MEASURE_1

(I) ADS_IDS	(J) ADS_IDS	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-2.144 [*]	.931	.027	-4.036	-.253
2	1	2.144 [*]	.931	.027	.253	4.036

Based on estimated marginal means

*. The mean difference is significant at the

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared
Pillai's trace	.135	5.309 ^a	1.000	34.000	.027	.135
Wilks' lambda	.865	5.309 ^a	1.000	34.000	.027	.135
Hotelling's trace	.156	5.309 ^a	1.000	34.000	.027	.135
Roy's largest root	.156	5.309 ^a	1.000	34.000	.027	.135

Each F tests the multivariate effect of ADS_IDS. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

3. group

Estimates

Measure: MEASURE_1

group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1.00	12.730	1.075	10.545	14.915
2.00	12.014	1.075	9.829	14.199

Pairwise Comparisons

Measure: MEASURE_1

(I) group	(J) group	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1.00	2.00	.716	1.521	.641	-2.374	3.807
2.00	1.00	-.716	1.521	.641	-3.807	2.374

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	4.618	1	4.618	.222	.641	.006
Error	707.540	34	20.810			

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

4. group * ADS_IDS

Measure: MEASURE_1

group	ADS_IDS	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1.00	1	12.541	1.069	10.369	14.712
	2	12.919	1.427	10.019	15.820
2.00	1	10.059	1.069	7.887	12.230
	2	13.969	1.427	11.069	16.869

```

SORT CASES BY group.
SPLIT FILE SEPARATE BY group.
NPAR TESTS
  /WILCOXON=ADS_frontal_600_800ms WITH IDS_frontal_600_800ms (PAIRED)
  /MISSING ANALYSIS.

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NPar Tests

Notes

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	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /WILCOXON=ADS_frontal_600_800ms WITH IDS_frontal_600_800ms (PAIRED) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.01
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	Number of Cases Allowed ^a	449389

a. Based on availability of workspace memory.

group = 1.00

Wilcoxon Signed Ranks Test

Ranks^a

		N	Mean Rank	Sum of Ranks
IDS_frontal_600_800ms - ADS_frontal_600_800ms	Negative Ranks	8 ^b	9.13	73.00
	Positive Ranks	10 ^c	9.80	98.00
	Ties	0 ^d		
	Total	18		

a. group = 1.00

b. IDS_frontal_600_800ms < ADS_frontal_600_800ms

c. IDS_frontal_600_800ms > ADS_frontal_600_800ms

d. IDS_frontal_600_800ms = ADS_frontal_600_800ms

Test Statistics^{a,b}

	IDS_frontal_600_800ms - ADS_frontal_600_800ms
Z	-.544 ^c
Asymp. Sig. (2-tailed)	.586

a. group = 1.00

b. Wilcoxon Signed Ranks Test

c. Based on negative ranks.

group = 2.00

Wilcoxon Signed Ranks Test

Ranks^a

	N	Mean Rank	Sum of Ranks
IDS_frontal_600_800ms - ADS_frontal_600_800ms			
Negative Ranks	3 ^b	11.67	35.00
Positive Ranks	15 ^c	9.07	136.00
Ties	0 ^d		
Total	18		

a. group = 2.00

b. IDS_frontal_600_800ms < ADS_frontal_600_800ms

c. IDS_frontal_600_800ms > ADS_frontal_600_800ms

d. IDS_frontal_600_800ms = ADS_frontal_600_800ms

Test Statistics^{a,b}

	IDS_frontal_600_800ms - ADS_frontal_600_800ms
Z	-2.199 ^c
Asymp. Sig. (2-tailed)	.028

a. group = 2.00

b. Wilcoxon Signed Ranks Test

c. Based on negative ranks.

```
COMPUTE temp_600_800ms_ADS=MEAN(ADS_temporal_left_600_800ms, ADS_temporal_right_600_800ms).
EXECUTE.
COMPUTE temp_600_800ms_IDS=MEAN(IDS_temporal_left_600_800ms, IDS_temporal_right_600_800ms).
EXECUTE.
```


NPAR TESTS

/WILCOXON=temp_600_800ms_ADS WITH temp_600_800ms_IDS (PAIRED)

/MISSING ANALYSIS.

NPar Tests

Notes

Output Created		04-MAY-2019 23:07:...
Comments		
Input	Data	/Users/szilvia/Box Sync/RA STUDIES/IDSFR/NEW ANALYSIS/Auditory/auditory results.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	group
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /WILCOXON=temp_600_800ms_ADS WITH temp_600_800ms_IDS (PAIRED) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00
	Number of Cases Allowed^a	449389

a. Based on availability of workspace memory.

group = 1.00

Wilcoxon Signed Ranks Test

Ranks^a

		N	Mean Rank	Sum of Ranks
temp_600_800ms_IDS - temp_600_800ms_ADS	Negative Ranks	13 ^b	10.46	136.00
	Positive Ranks	5 ^c	7.00	35.00
	Ties	0 ^d		
	Total	18		

a. group = 1.00

b. temp_600_800ms_IDS < temp_600_800ms_ADS

c. temp_600_800ms_IDS > temp_600_800ms_ADS

d. temp_600_800ms_IDS = temp_600_800ms_ADS

Test Statistics^{a,b}

	temp_600_800ms_IDS - temp_600_800ms_ADS
Z	-2.199 ^c
Asymp. Sig. (2-tailed)	.028

a. group = 1.00

b. Wilcoxon Signed Ranks Test

c. Based on positive ranks.

group = 2.00

Wilcoxon Signed Ranks Test

Ranks^a

		N	Mean Rank	Sum of Ranks
temp_600_800ms_IDS - temp_600_800ms_ADS	Negative Ranks	13 ^b	11.08	144.00
	Positive Ranks	5 ^c	5.40	27.00
	Ties	0 ^d		
	Total	18		

a. group = 2.00

b. temp_600_800ms_IDS < temp_600_800ms_ADS

c. temp_600_800ms_IDS > temp_600_800ms_ADS

d. temp_600_800ms_IDS = temp_600_800ms_ADS

Test Statistics^{a,b}

	temp_600_80 0ms_IDS - temp_600_80 0ms_ADS
Z	-2.548 ^c
Asymp. Sig. (2-tailed)	.011

a. group = 2.00

b. Wilcoxon Signed Ranks Test

c. Based on positive ranks.