

* Encoding: UTF-8.

*Select the univariate datafile for the UNIANOVA.

UNIANOVA Data BY Time Group

```
/METHOD=SSTYPE(3)
/INTERCEPT=INCLUDE
/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)
/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)
/EMMEANS=TABLES(Time*Group)
/CRITERIA=ALPHA(0.05)
/DESIGN=Time Group Time*Group.
```

Univariate Analysis of Variance

Notes

Output Created		31-MAR-2019 14:43:05
Comments		
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	Active Dataset	DataSet3
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	N of Rows in Working Data File	252
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		UNIANOVA Data BY Time Group /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Time*Group) /CRITERIA=ALPHA(0.05) /DESIGN=Time Group Time*Group.
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	Elapsed Time	00:00:00,03

Between-Subjects Factors

		Value Label	N
Time	1	T1	126
	2	T2	126
Group	1	G1	84
	2	G2	84
	3	G3	84

Tests of Between-Subjects Effects

Dependent Variable: Data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	590391,808 ^a	5	118078,362	53,683	,000
Intercept	1123673,674	1	1123673,674	510,870	,000
Time	176355,379	1	176355,379	80,179	,000
Group	254080,666	2	127040,333	57,758	,000
Time * Group	159955,763	2	79977,881	36,361	,000
Error	541084,587	246	2199,531		
Total	2255150,069	252			
Corrected Total	1131476,395	251			

a. R Squared = ,522 (Adjusted R Squared = ,512)

Estimated Marginal Means

1. Time

Estimates

Dependent Variable: Data

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
T1	93,230	4,178	85,001	101,460
T2	40,322	4,178	32,092	48,551

Pairwise Comparisons

Dependent Variable: Data

(I) Time	(J) Time	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
T1	T2	52,908 [*]	5,909	,000	41,270	64,547
T2	T1	-52,908 [*]	5,909	,000	-64,547	-41,270

Based on estimated marginal means

*. The mean difference is significant at the 0,05 level.

b. Adjustment for multiple comparisons: Sidak.

Univariate Tests

Dependent Variable: Data

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	176355,379	1	176355,379	80,179	,000
Error	541084,587	246	2199,531		

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

2. Group

Estimates

Dependent Variable: Data

Group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
G1	38,577	5,117	28,498	48,656
G2	50,610	5,117	40,531	60,689
G3	111,141	5,117	101,062	121,220

Pairwise Comparisons

Dependent Variable: Data

(I) Group	(J) Group	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
G1	G2	-12,033	7,237	,265	-29,431	5,364
	G3	-72,564 *	7,237	,000	-89,962	-55,166
G2	G1	12,033	7,237	,265	-5,364	29,431
	G3	-60,531 *	7,237	,000	-77,928	-43,133
G3	G1	72,564 *	7,237	,000	55,166	89,962
	G2	60,531 *	7,237	,000	43,133	77,928

Based on estimated marginal means

*. The mean difference is significant at the 0,05 level.

b. Adjustment for multiple comparisons: Sidak.

Univariate Tests

Dependent Variable: Data

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	254080,666	2	127040,333	57,758	,000
Error	541084,587	246	2199,531		

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

3. Time * Group

Dependent Variable: Data

Time	Group	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
T1	G1	48,186	7,237	33,932	62,440
	G2	58,297	7,237	44,043	72,551
	G3	173,208	7,237	158,954	187,461
T2	G1	28,968	7,237	14,714	43,222
	G2	42,923	7,237	28,670	57,177
	G3	49,074	7,237	34,820	63,328

UNIANOVA Data BY Time Group PP

/RANDOM=PP

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Time*Group)

/CRITERIA=ALPHA(0.05)

/DESIGN=Time Group PP Time*Group Time*PP Group*PP.

Univariate Analysis of Variance

Notes

Output Created		31-MAR-2019 14:43:05
Comments		
Input	Data	C: \\Users\Fabian\Dropbox\MBIC\Data\Session 1\Session Data\Univariate Dataset.sav
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	Filter	<none>
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	Split File	<none>
	N of Rows in Working Data File	252
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		UNIANOVA Data BY Time Group PP /RANDOM=PP /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Time*Group) /CRITERIA=ALPHA(0.05) /DESIGN=Time Group PP Time*Group Time*PP Group*PP.
Resources	Processor Time	00:00:00,33
	Elapsed Time	00:00:00,33

Between-Subjects Factors

		Value Label	N
Time	1	T1	126
	2	T2	126
Group	1	G1	84
	2	G2	84
	3	G3	84
PP	1		6
	2		6
	3		6
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	5		6
	6		6
	7		6
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	34		6
	35		6
	36		6
	37		6
	38		6

Between-Subjects Factors

	Value Label	N
39		6
40		6
41		6
42		6

Tests of Between-Subjects Effects

Dependent Variable: Data

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	Hypothesis	1123673,674	1	1123673,674	183,959	,000
	Error	250440,172	41	6108,297 ^a		
Time	Hypothesis	176355,379	1	176355,379	151,474	,000
	Error	47734,603	41	1164,259 ^b		
Group	Hypothesis	254080,666	2	127040,333	82,022	,000
	Error	127006,216	82	1548,856 ^c		
PP	Hypothesis	250440,172	41	6108,297	4,700	,000
	Error	25325,806	19,487	1299,656 ^d		
Time * Group	Hypothesis	159955,763	2	79977,881	56,583	,000
	Error	115903,596	82	1413,458 ^e		
Time * PP	Hypothesis	47734,603	41	1164,259	,824	,750
	Error	115903,596	82	1413,458 ^e		
Group * PP	Hypothesis	127006,216	82	1548,856	1,096	,340
	Error	115903,596	82	1413,458 ^e		

a. MS(PP)

b. MS(Time * PP)

c. MS(Group * PP)

d. $MS(Time * PP) + MS(Group * PP) - MS(Error)$

e. MS(Error)

Expected Mean Squares^{a,b}

Source	Variance Component				
	Var(PP)	Var(Time * PP)	Var(Group * PP)	Var(Error)	Quadratic Term
Intercept	6,000	3,000	2,000	1,000	Intercept, Time, Group, Time * Group
Time	,000	3,000	,000	1,000	Time, Time * Group
Group	,000	,000	2,000	1,000	Group, Time * Group
PP	6,000	3,000	2,000	1,000	
Time * Group	,000	,000	,000	1,000	Time * Group
Time * PP	,000	3,000	,000	1,000	
Group * PP	,000	,000	2,000	1,000	
Error	,000	,000	,000	1,000	

a. For each source, the expected mean square equals the sum of the coefficients in the cells times the variance components, plus a quadratic term involving effects in the Quadratic Term cell.

b. Expected Mean Squares are based on the Type III Sums of Squares.

Estimated Marginal Means

1. Time

Estimates

Dependent Variable: Data

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
T1	93,230	3,349	86,567	99,893
T2	40,322	3,349	33,659	46,985

Pairwise Comparisons

Dependent Variable: Data

(I) Time	(J) Time	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
T1	T2	52,908 [*]	4,737	,000	43,486	62,331
T2	T1	-52,908 [*]	4,737	,000	-62,331	-43,486

Based on estimated marginal means

*. The mean difference is significant at the 0,05 level.

b. Adjustment for multiple comparisons: Sidak.

Univariate Tests

Dependent Variable: Data

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	176355,379	1	176355,379	124,769	,000
Error	115903,596	82	1413,458		

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

2. Group

Estimates

Dependent Variable: Data

Group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
G1	38,577	4,102	30,416	46,737
G2	50,610	4,102	42,450	58,770
G3	111,141	4,102	102,981	119,301

Pairwise Comparisons

Dependent Variable: Data

(I) Group	(J) Group	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
G1	G2	-12,033	5,801	,119	-26,174	2,107
	G3	-72,564 *	5,801	,000	-86,704	-58,424
G2	G1	12,033	5,801	,119	-2,107	26,174
	G3	-60,531 *	5,801	,000	-74,671	-46,390
G3	G1	72,564 *	5,801	,000	58,424	86,704
	G2	60,531 *	5,801	,000	46,390	74,671

Based on estimated marginal means

*. The mean difference is significant at the 0,05 level.

b. Adjustment for multiple comparisons: Sidak.

Univariate Tests

Dependent Variable: Data

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	254080,666	2	127040,333	89,879	,000
Error	115903,596	82	1413,458		

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

3. Time * Group

Dependent Variable: Data

Time	Group	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
T1	G1	48,186	5,801	36,645	59,726
	G2	58,297	5,801	46,756	69,837
	G3	173,208	5,801	161,667	184,748
T2	G1	28,968	5,801	17,427	40,508
	G2	42,923	5,801	31,383	54,464
	G3	49,074	5,801	37,534	60,614

DATASET ACTIVATE DataSet5.

*Select the Multivariate datafile for the RM ANOVA.

GLM G1T1 G2T1 G3T1 G1T2 G2T2 G3T2

/WSFACTOR=Time 2 Polynomial Group 3 Polynomial

/METHOD=SSTYPE(3)

/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Time*Group)

/PRINT=PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Time Group Time*Group.

General Linear Model

Notes

Output Created	31-MAR-2019 14:43:14	
Comments		
Input	Data	C: \\Users\Fabian\Dropbox\MBIC\Data\Session 1\Session Data\Multivariate Dataset.sav
	Active Dataset	DataSet5
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	42
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 G1T1 G2T1 G3T1 G1T2 G2T2 G3T2 /WSFACTOR=Time 2 Polynomial Group 3 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Time*Group) /PRINT=PARAMETER /CRITERIA=ALPHA(.05) /WSDSIGN=Time Group Time*Group.	
Resources	Processor Time	00:00:00,03
	Elapsed Time	00:00:00,03

[DataSet5] C:\Users\Fabian\Dropbox\MBIC\Data\Session 1\Session Data\Multivariate Dataset.sav

Within-Subjects Factors

Measure: MEASURE_1

Time	Group	Dependent Variable
1	1	G1T1
	2	G2T1
	3	G3T1
2	1	G1T2
	2	G2T2
	3	G3T2

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Time	Pillai's Trace	,787	151,475 ^b	1,000	41,000	,000
	Wilks' Lambda	,213	151,475 ^b	1,000	41,000	,000
	Hotelling's Trace	3,695	151,475 ^b	1,000	41,000	,000
	Roy's Largest Root	3,695	151,475 ^b	1,000	41,000	,000
Group	Pillai's Trace	,738	56,379 ^b	2,000	40,000	,000
	Wilks' Lambda	,262	56,379 ^b	2,000	40,000	,000
	Hotelling's Trace	2,819	56,379 ^b	2,000	40,000	,000
	Roy's Largest Root	2,819	56,379 ^b	2,000	40,000	,000
Time * Group	Pillai's Trace	,654	37,742 ^b	2,000	40,000	,000
	Wilks' Lambda	,346	37,742 ^b	2,000	40,000	,000
	Hotelling's Trace	1,887	37,742 ^b	2,000	40,000	,000
	Roy's Largest Root	1,887	37,742 ^b	2,000	40,000	,000

a. Design: Intercept

Within Subjects Design: Time + Group + Time * Group

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
Time	1,000	,000	0	.	1,000	1,000	1,000
Group	,691	14,766	2	,001	,764	,788	,500
Time * Group	,662	16,477	2	,000	,748	,769	,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

Within Subjects Design: Time + Group + Time * Group

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.
Time	Sphericity Assumed	176352,867	1	176352,867	151,475	,000
	Greenhouse-Geisser	176352,867	1,000	176352,867	151,475	,000
	Huynh-Feldt	176352,867	1,000	176352,867	151,475	,000
	Lower-bound	176352,867	1,000	176352,867	151,475	,000
Error(Time)	Sphericity Assumed	47733,841	41	1164,240		
	Greenhouse-Geisser	47733,841	41,000	1164,240		
	Huynh-Feldt	47733,841	41,000	1164,240		
	Lower-bound	47733,841	41,000	1164,240		
Group	Sphericity Assumed	254081,038	2	127040,519	82,023	,000
	Greenhouse-Geisser	254081,038	1,528	166254,728	82,023	,000
	Huynh-Feldt	254081,038	1,575	161271,789	82,023	,000
	Lower-bound	254081,038	1,000	254081,038	82,023	,000
Error(Group)	Sphericity Assumed	127005,312	82	1548,845		
	Greenhouse-Geisser	127005,312	62,659	2026,935		
	Huynh-Feldt	127005,312	64,595	1966,184		
	Lower-bound	127005,312	41,000	3097,691		
Time * Group	Sphericity Assumed	159956,084	2	79978,042	56,584	,000
	Greenhouse-Geisser	159956,084	1,495	106981,366	56,584	,000
	Huynh-Feldt	159956,084	1,539	103935,909	56,584	,000
	Lower-bound	159956,084	1,000	159956,084	56,584	,000
Error(Time*Group)	Sphericity Assumed	115902,626	82	1413,447		
	Greenhouse-Geisser	115902,626	61,302	1890,675		
	Huynh-Feldt	115902,626	63,098	1836,852		
	Lower-bound	115902,626	41,000	2826,893		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Group	Type III Sum of Squares	df	Mean Square	F	Sig.
Time	Linear		176352,867	1	176352,867	151,475	,000
Error(Time)	Linear		47733,841	41	1164,240		
Group		Linear	221151,280	1	221151,280	115,468	,000
		Quadratic	32929,758	1	32929,758	27,849	,000
Error(Group)		Linear	78525,793	41	1915,263		
		Quadratic	48479,519	41	1182,427		
Time * Group	Linear	Linear	115575,549	1	115575,549	57,637	,000
		Quadratic	44380,535	1	44380,535	54,014	,000
Error(Time*Group)	Linear	Linear	82214,718	41	2005,237		
		Quadratic	33687,908	41	821,656		

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	1123698,352	1	1123698,352	183,966	,000
Error	250435,437	41	6108,181		

Parameter Estimates

Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Group 1; Time 1	Intercept	48,187	7,080	6,806	,000	33,889	62,484
Group 2; Time 1	Intercept	58,297	6,305	9,246	,000	45,563	71,030
Group 3; Time 1	Intercept	173,208	10,498	16,499	,000	152,007	194,409
Group 1; Time 2	Intercept	28,969	3,398	8,526	,000	22,107	35,831
Group 2; Time 2	Intercept	42,924	6,876	6,243	,000	29,038	56,810
Group 3; Time 2	Intercept	49,075	7,437	6,599	,000	34,055	64,095

Estimated Marginal Means

1. Time

Estimates

Measure: MEASURE_1

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	93,231	5,297	82,533	103,928
2	40,323	5,446	29,324	51,321

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	52,908 [*]	4,299	,000	44,226	61,590
2	1	-52,908 [*]	4,299	,000	-61,590	-44,226

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Sidak.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	,787	151,475 ^a	1,000	41,000	,000
Wilks' lambda	,213	151,475 ^a	1,000	41,000	,000
Hotelling's trace	3,695	151,475 ^a	1,000	41,000	,000
Roy's largest root	3,695	151,475 ^a	1,000	41,000	,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

2. Group

Estimates

Measure: MEASURE_1

Group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	38,578	4,697	29,092	48,063
2	50,610	5,910	38,674	62,547
3	111,142	7,253	96,495	125,789

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	2	-12,033 [*]	4,057	,015	-22,132	-1,933
	3	-72,564 [*]	6,753	,000	-89,373	-55,754
2	1	12,033 [*]	4,057	,015	1,933	22,132
	3	-60,531 [*]	6,969	,000	-77,879	-43,183
3	1	72,564 [*]	6,753	,000	55,754	89,373
	2	60,531 [*]	6,969	,000	43,183	77,879

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Sidak.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	,738	56,379 ^a	2,000	40,000	,000
Wilks' lambda	,262	56,379 ^a	2,000	40,000	,000
Hotelling's trace	2,819	56,379 ^a	2,000	40,000	,000
Roy's largest root	2,819	56,379 ^a	2,000	40,000	,000

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

a. Exact statistic

3. Time * Group

Measure: MEASURE_1

Time	Group	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	48,187	7,080	33,889	62,484
	2	58,297	6,305	45,563	71,030
	3	173,208	10,498	152,007	194,409
2	1	28,969	3,398	22,107	35,831
	2	42,924	6,876	29,038	56,810
	3	49,075	7,437	34,055	64,095

*Select the Multivariate datafile for the RM ANOVA.

GLM G1T1 G2T1 G3T1 G1T2 G2T2 G3T2

/WSFACTOR=Time 2 Polynomial Group 3 Polynomial

/METHOD=SSTYPE(3)

/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Time*Group)

/PRINT=PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Time Group Time*Group.

General Linear Model

Notes

Output Created	31-MAR-2019 14:43:14	
Comments		
Input	Data	C: \\Users\Fabian\Dropbox\MBIC\Data\Session 1\Session Data\Multivariate Dataset.sav
	Active Dataset	DataSet5
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	42
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 G1T1 G2T1 G3T1 G1T2 G2T2 G3T2 /WSFACTOR=Time 2 Polynomial Group 3 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Time*Group) /PRINT=PARAMETER /CRITERIA=ALPHA(.05) /WSDSIGN=Time Group Time*Group.	
Resources	Processor Time	00:00:00,05
	Elapsed Time	00:00:00,03

Within-Subjects Factors

Measure: MEASURE_1

Time	Group	Dependent Variable
1	1	G1T1
	2	G2T1
	3	G3T1
2	1	G1T2
	2	G2T2
	3	G3T2

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Time	Pillai's Trace	,787	151,475 ^b	1,000	41,000	,000
	Wilks' Lambda	,213	151,475 ^b	1,000	41,000	,000
	Hotelling's Trace	3,695	151,475 ^b	1,000	41,000	,000
	Roy's Largest Root	3,695	151,475 ^b	1,000	41,000	,000
Group	Pillai's Trace	,738	56,379 ^b	2,000	40,000	,000
	Wilks' Lambda	,262	56,379 ^b	2,000	40,000	,000
	Hotelling's Trace	2,819	56,379 ^b	2,000	40,000	,000
	Roy's Largest Root	2,819	56,379 ^b	2,000	40,000	,000
Time * Group	Pillai's Trace	,654	37,742 ^b	2,000	40,000	,000
	Wilks' Lambda	,346	37,742 ^b	2,000	40,000	,000
	Hotelling's Trace	1,887	37,742 ^b	2,000	40,000	,000
	Roy's Largest Root	1,887	37,742 ^b	2,000	40,000	,000

a. Design: Intercept

Within Subjects Design: Time + Group + Time * Group

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
Time	1,000	,000	0	.	1,000	1,000	1,000
Group	,691	14,766	2	,001	,764	,788	,500
Time * Group	,662	16,477	2	,000	,748	,769	,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

Within Subjects Design: Time + Group + Time * Group

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.
Time	Sphericity Assumed	176352,867	1	176352,867	151,475	,000
	Greenhouse-Geisser	176352,867	1,000	176352,867	151,475	,000
	Huynh-Feldt	176352,867	1,000	176352,867	151,475	,000
	Lower-bound	176352,867	1,000	176352,867	151,475	,000
Error(Time)	Sphericity Assumed	47733,841	41	1164,240		
	Greenhouse-Geisser	47733,841	41,000	1164,240		
	Huynh-Feldt	47733,841	41,000	1164,240		
	Lower-bound	47733,841	41,000	1164,240		
Group	Sphericity Assumed	254081,038	2	127040,519	82,023	,000
	Greenhouse-Geisser	254081,038	1,528	166254,728	82,023	,000
	Huynh-Feldt	254081,038	1,575	161271,789	82,023	,000
	Lower-bound	254081,038	1,000	254081,038	82,023	,000
Error(Group)	Sphericity Assumed	127005,312	82	1548,845		
	Greenhouse-Geisser	127005,312	62,659	2026,935		
	Huynh-Feldt	127005,312	64,595	1966,184		
	Lower-bound	127005,312	41,000	3097,691		
Time * Group	Sphericity Assumed	159956,084	2	79978,042	56,584	,000
	Greenhouse-Geisser	159956,084	1,495	106981,366	56,584	,000
	Huynh-Feldt	159956,084	1,539	103935,909	56,584	,000
	Lower-bound	159956,084	1,000	159956,084	56,584	,000
Error(Time*Group)	Sphericity Assumed	115902,626	82	1413,447		
	Greenhouse-Geisser	115902,626	61,302	1890,675		
	Huynh-Feldt	115902,626	63,098	1836,852		
	Lower-bound	115902,626	41,000	2826,893		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Group	Type III Sum of Squares	df	Mean Square	F	Sig.
Time	Linear		176352,867	1	176352,867	151,475	,000
Error(Time)	Linear		47733,841	41	1164,240		
Group		Linear	221151,280	1	221151,280	115,468	,000
		Quadratic	32929,758	1	32929,758	27,849	,000
Error(Group)		Linear	78525,793	41	1915,263		
		Quadratic	48479,519	41	1182,427		
Time * Group	Linear	Linear	115575,549	1	115575,549	57,637	,000
		Quadratic	44380,535	1	44380,535	54,014	,000
Error(Time*Group)	Linear	Linear	82214,718	41	2005,237		
		Quadratic	33687,908	41	821,656		

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	1123698,352	1	1123698,352	183,966	,000
Error	250435,437	41	6108,181		

Parameter Estimates

Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Group 1; Time 1	Intercept	48,187	7,080	6,806	,000	33,889	62,484
Group 2; Time 1	Intercept	58,297	6,305	9,246	,000	45,563	71,030
Group 3; Time 1	Intercept	173,208	10,498	16,499	,000	152,007	194,409
Group 1; Time 2	Intercept	28,969	3,398	8,526	,000	22,107	35,831
Group 2; Time 2	Intercept	42,924	6,876	6,243	,000	29,038	56,810
Group 3; Time 2	Intercept	49,075	7,437	6,599	,000	34,055	64,095

Estimated Marginal Means

1. Time

Estimates

Measure: MEASURE_1

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	93,231	5,297	82,533	103,928
2	40,323	5,446	29,324	51,321

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	52,908 [*]	4,299	,000	44,226	61,590
2	1	-52,908 [*]	4,299	,000	-61,590	-44,226

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Sidak.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	,787	151,475 ^a	1,000	41,000	,000
Wilks' lambda	,213	151,475 ^a	1,000	41,000	,000
Hotelling's trace	3,695	151,475 ^a	1,000	41,000	,000
Roy's largest root	3,695	151,475 ^a	1,000	41,000	,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

2. Group

Estimates

Measure: MEASURE_1

Group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	38,578	4,697	29,092	48,063
2	50,610	5,910	38,674	62,547
3	111,142	7,253	96,495	125,789

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	2	-12,033 [*]	4,057	,015	-22,132	-1,933
	3	-72,564 [*]	6,753	,000	-89,373	-55,754
2	1	12,033 [*]	4,057	,015	1,933	22,132
	3	-60,531 [*]	6,969	,000	-77,879	-43,183
3	1	72,564 [*]	6,753	,000	55,754	89,373
	2	60,531 [*]	6,969	,000	43,183	77,879

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Sidak.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	,738	56,379 ^a	2,000	40,000	,000
Wilks' lambda	,262	56,379 ^a	2,000	40,000	,000
Hotelling's trace	2,819	56,379 ^a	2,000	40,000	,000
Roy's largest root	2,819	56,379 ^a	2,000	40,000	,000

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

a. Exact statistic

3. Time * Group

Measure: MEASURE_1

Time	Group	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	48,187	7,080	33,889	62,484
	2	58,297	6,305	45,563	71,030
	3	173,208	10,498	152,007	194,409
2	1	28,969	3,398	22,107	35,831
	2	42,924	6,876	29,038	56,810
	3	49,075	7,437	34,055	64,095

*Select the Multivariate datafile for the RM ANOVA.

GLM G1T1 G2T1 G3T1 G1T2 G2T2 G3T2

/WSFACTOR=Time 2 Polynomial Group 3 Polynomial

/METHOD=SSTYPE(3)

/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)

/EMMEANS=TABLES(Time*Group)

/PRINT=PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Time Group Time*Group.

General Linear Model

Notes

Output Created		31-MAR-2019 14:43:15
Comments		
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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 G1T1 G2T1 G3T1 G1T2 G2T2 G3T2 /WSFACTOR=Time 2 Polynomial Group 3 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Time*Group) /PRINT=PARAMETER /CRITERIA=ALPHA(.05) /WSDSIGN=Time Group Time*Group.
Resources	Processor Time	00:00:00,05
	Elapsed Time	00:00:00,05

Within-Subjects Factors

Measure: MEASURE_1

Time	Group	Dependent Variable
1	1	G1T1
	2	G2T1
	3	G3T1
2	1	G1T2
	2	G2T2
	3	G3T2

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df	Sig.
Time	Pillai's Trace	,787	151,475 ^b	1,000	41,000	,000
	Wilks' Lambda	,213	151,475 ^b	1,000	41,000	,000
	Hotelling's Trace	3,695	151,475 ^b	1,000	41,000	,000
	Roy's Largest Root	3,695	151,475 ^b	1,000	41,000	,000
Group	Pillai's Trace	,738	56,379 ^b	2,000	40,000	,000
	Wilks' Lambda	,262	56,379 ^b	2,000	40,000	,000
	Hotelling's Trace	2,819	56,379 ^b	2,000	40,000	,000
	Roy's Largest Root	2,819	56,379 ^b	2,000	40,000	,000
Time * Group	Pillai's Trace	,654	37,742 ^b	2,000	40,000	,000
	Wilks' Lambda	,346	37,742 ^b	2,000	40,000	,000
	Hotelling's Trace	1,887	37,742 ^b	2,000	40,000	,000
	Roy's Largest Root	1,887	37,742 ^b	2,000	40,000	,000

a. Design: Intercept

Within Subjects Design: Time + Group + Time * Group

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
Time	1,000	,000	0	.	1,000	1,000	1,000
Group	,691	14,766	2	,001	,764	,788	,500
Time * Group	,662	16,477	2	,000	,748	,769	,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

Within Subjects Design: Time + Group + Time * Group

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.
Time	Sphericity Assumed	176352,867	1	176352,867	151,475	,000
	Greenhouse-Geisser	176352,867	1,000	176352,867	151,475	,000
	Huynh-Feldt	176352,867	1,000	176352,867	151,475	,000
	Lower-bound	176352,867	1,000	176352,867	151,475	,000
Error(Time)	Sphericity Assumed	47733,841	41	1164,240		
	Greenhouse-Geisser	47733,841	41,000	1164,240		
	Huynh-Feldt	47733,841	41,000	1164,240		
	Lower-bound	47733,841	41,000	1164,240		
Group	Sphericity Assumed	254081,038	2	127040,519	82,023	,000
	Greenhouse-Geisser	254081,038	1,528	166254,728	82,023	,000
	Huynh-Feldt	254081,038	1,575	161271,789	82,023	,000
	Lower-bound	254081,038	1,000	254081,038	82,023	,000
Error(Group)	Sphericity Assumed	127005,312	82	1548,845		
	Greenhouse-Geisser	127005,312	62,659	2026,935		
	Huynh-Feldt	127005,312	64,595	1966,184		
	Lower-bound	127005,312	41,000	3097,691		
Time * Group	Sphericity Assumed	159956,084	2	79978,042	56,584	,000
	Greenhouse-Geisser	159956,084	1,495	106981,366	56,584	,000
	Huynh-Feldt	159956,084	1,539	103935,909	56,584	,000
	Lower-bound	159956,084	1,000	159956,084	56,584	,000
Error(Time*Group)	Sphericity Assumed	115902,626	82	1413,447		
	Greenhouse-Geisser	115902,626	61,302	1890,675		
	Huynh-Feldt	115902,626	63,098	1836,852		
	Lower-bound	115902,626	41,000	2826,893		

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Time	Group	Type III Sum of Squares	df	Mean Square	F	Sig.
Time	Linear		176352,867	1	176352,867	151,475	,000
Error(Time)	Linear		47733,841	41	1164,240		
Group		Linear	221151,280	1	221151,280	115,468	,000
		Quadratic	32929,758	1	32929,758	27,849	,000
Error(Group)		Linear	78525,793	41	1915,263		
		Quadratic	48479,519	41	1182,427		
Time * Group	Linear	Linear	115575,549	1	115575,549	57,637	,000
		Quadratic	44380,535	1	44380,535	54,014	,000
Error(Time*Group)	Linear	Linear	82214,718	41	2005,237		
		Quadratic	33687,908	41	821,656		

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	1123698,352	1	1123698,352	183,966	,000
Error	250435,437	41	6108,181		

Parameter Estimates

Dependent Variable	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Group 1; Time 1	Intercept	48,187	7,080	6,806	,000	33,889	62,484
Group 2; Time 1	Intercept	58,297	6,305	9,246	,000	45,563	71,030
Group 3; Time 1	Intercept	173,208	10,498	16,499	,000	152,007	194,409
Group 1; Time 2	Intercept	28,969	3,398	8,526	,000	22,107	35,831
Group 2; Time 2	Intercept	42,924	6,876	6,243	,000	29,038	56,810
Group 3; Time 2	Intercept	49,075	7,437	6,599	,000	34,055	64,095

Estimated Marginal Means

1. Time

Estimates

Measure: MEASURE_1

Time	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	93,231	5,297	82,533	103,928
2	40,323	5,446	29,324	51,321

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	52,908 [*]	4,299	,000	44,226	61,590
2	1	-52,908 [*]	4,299	,000	-61,590	-44,226

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Sidak.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	,787	151,475 ^a	1,000	41,000	,000
Wilks' lambda	,213	151,475 ^a	1,000	41,000	,000
Hotelling's trace	3,695	151,475 ^a	1,000	41,000	,000
Roy's largest root	3,695	151,475 ^a	1,000	41,000	,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

2. Group

Estimates

Measure: MEASURE_1

Group	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	38,578	4,697	29,092	48,063
2	50,610	5,910	38,674	62,547
3	111,142	7,253	96,495	125,789

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	2	-12,033 [*]	4,057	,015	-22,132	-1,933
	3	-72,564 [*]	6,753	,000	-89,373	-55,754
2	1	12,033 [*]	4,057	,015	1,933	22,132
	3	-60,531 [*]	6,969	,000	-77,879	-43,183
3	1	72,564 [*]	6,753	,000	55,754	89,373
	2	60,531 [*]	6,969	,000	43,183	77,879

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

b. Adjustment for multiple comparisons: Sidak.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	,738	56,379 ^a	2,000	40,000	,000
Wilks' lambda	,262	56,379 ^a	2,000	40,000	,000
Hotelling's trace	2,819	56,379 ^a	2,000	40,000	,000
Roy's largest root	2,819	56,379 ^a	2,000	40,000	,000

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

a. Exact statistic

3. Time * Group

Measure: MEASURE_1

Time	Group	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	48,187	7,080	33,889	62,484
	2	58,297	6,305	45,563	71,030
	3	173,208	10,498	152,007	194,409
2	1	28,969	3,398	22,107	35,831
	2	42,924	6,876	29,038	56,810
	3	49,075	7,437	34,055	64,095

DATASET ACTIVATE DataSet3.

*Select the univariate datafile for the mixed procedure.

MIXED Data BY Time Group

```

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.0000000000
01) HCONVERGE(0,
    ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)
/FIXED=Time Group Time*Group | SSTYPE(3)
/METHOD=REML
/REPEATED=Time*Group | SUBJECT(PP) COVTYPE(CS)
/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)
/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)
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Mixed Model Analysis

Notes

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	Split File	<none>
	N of Rows in Working Data File	252
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		MIXED Data BY Time Group /CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE (0.000001, ABSOLUTE) /FIXED=Time Group Time*Group SSTYPE(3) /METHOD=REML /REPEATED=Time*Group SUBJECT(PP) COVTYPE(CS) /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES...
Resources	Processor Time	00:00:00,05
	Elapsed Time	00:00:00,06

[DataSet3] C:\Users\Fabian\Dropbox\MBIC\Data\Session 1\Session Data\Univariate Dataset.sav

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters	Subject Variables	Number of Subjects
Fixed Effects	Intercept	1	Compound Symmetry	1	PP	42
	Time	2		1		
	Group	3		2		
	Time * Group	6		2		
Repeated Effects	Time * Group	6		2		
Total		18		8		

a. Dependent Variable: Data.

Information Criteria^a

-2 Restricted Log Likelihood	2565,611
Akaike's Information Criterion (AIC)	2569,611
Hurvich and Tsai's Criterion (AICC)	2569,660
Bozdogan's Criterion (CAIC)	2578,621
Schwarz's Bayesian Criterion (BIC)	2576,621

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: Data.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	41,000	183,959	,000
Time	1	205	124,389	,000
Group	2	205	89,605	,000
Time * Group	2	205	56,411	,000

a. Dependent Variable: Data.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error
Repeated Measures CS diagonal offset	1417,777635	140,038093
CS covariance	781,753207	226,057615

a. Dependent Variable: Data.

Estimated Marginal Means

1. Time

Estimates^a

Time	Mean	Std. Error	df	95% Confidence Interval	
				Lower Bound	Upper Bound
T1	93,230	5,465	61,578	82,304	104,156
T2	40,322	5,465	61,578	29,396	51,247

a. Dependent Variable: Data.

Pairwise Comparisons^a

(I) Time	(J) Time	Mean Difference (I-J)	Std. Error	df	Sig. ^c	95% Confidence Interval for Difference ^c	
						Lower Bound	Upper Bound
T1	T2	52,908 [*]	4,744	205	,000	43,555	62,261
T2	T1	-52,908 [*]	4,744	205	,000	-62,261	-43,555

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

a. Dependent Variable: Data.

c. Adjustment for multiple comparisons: Sidak.

Univariate Tests^a

Numerator df	Denominator df	F	Sig.
1	205	124,389	,000

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

a. Dependent Variable: Data.

2. Group

Estimates^a

Group	Mean	Std. Error	df	95% Confidence Interval	
				Lower Bound	Upper Bound
G1	38,577	5,957	84,269	26,730	50,423
G2	50,610	5,957	84,269	38,764	62,457
G3	111,141	5,957	84,269	99,294	122,987

a. Dependent Variable: Data.

Pairwise Comparisons^a

(I) Group	(J) Group	Mean Difference (I-J)	Std. Error	df	Sig. ^c	95% Confidence Interval for Difference ^c	
						Lower Bound	Upper Bound
G1	G2	-12,033	5,810	205	,114	-26,020	1,954
	G3	-72,564 [*]	5,810	205	,000	-86,551	-58,577
G2	G1	12,033	5,810	205	,114	-1,954	26,020
	G3	-60,531 [*]	5,810	205	,000	-74,518	-46,544
G3	G1	72,564 [*]	5,810	205	,000	58,577	86,551
	G2	60,531 [*]	5,810	205	,000	46,544	74,518

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

a. Dependent Variable: Data.

c. Adjustment for multiple comparisons: Sidak.

Univariate Tests^a

Numerator df	Denominator df	F	Sig.
2	205	89,605	,000

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

a. Dependent Variable: Data.

3. Time * Group^a

Time	Group	Mean	Std. Error	df	95% Confidence Interval	
					Lower Bound	Upper Bound
T1	G1	48,186	7,237	150,771	33,887	62,484
	G2	58,297	7,237	150,771	43,998	72,595
	G3	173,208	7,237	150,771	158,909	187,506
T2	G1	28,968	7,237	150,771	14,669	43,266
	G2	42,923	7,237	150,771	28,625	57,222
	G3	49,074	7,237	150,771	34,776	63,372

a. Dependent Variable: Data.

```

MIXED Data BY Time Group
  /CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.0000000000
01) HCONVERGE(0,
  ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)
/FIXED=Time Group Time*Group | SSTYPE(3)
/METHOD=REML

```



```

/REPEATED=Time*Group | SUBJECT(PP) COVTYPE(UN)
/EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK)
/EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK)
/EMMEANS=TABLES(Time*Group) .

```

Mixed Model Analysis

Notes

Output Created		31-MAR-2019 14:43:31
Comments		
Input	Data	C: \\Users\Fabian\Dropbox\MBIC\Data\Session 1\Session Data\Univariate Dataset.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	252
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		MIXED Data BY Time Group /CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE (0.000001, ABSOLUTE) /FIXED=Time Group Time*Group SSTYPE(3) /METHOD=REML /REPEATED=Time*Group SUBJECT(PP) COVTYPE(UN) /EMMEANS=TABLES(Time) COMPARE ADJ(SIDAK) /EMMEANS=TABLES(Group) COMPARE ADJ(SIDAK) /EMMEANS=TABLES...
Resources	Processor Time	00:00:00,19
	Elapsed Time	00:00:00,19

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters	Subject Variables	Number of Subjects
Fixed Effects	Intercept	1	Unstructured	1	PP	42
	Time	2		1		
	Group	3		2		
	Time * Group	6		2		
Repeated Effects	Time * Group	6	Unstructured	21	PP	42
Total		18		27		

a. Dependent Variable: Data.

Information Criteria^a

-2 Restricted Log Likelihood	2402,637
Akaike's Information Criterion (AIC)	2444,637
Hurvich and Tsai's Criterion (AICC)	2448,762
Bozdogan's Criterion (CAIC)	2539,249
Schwarz's Bayesian Criterion (BIC)	2518,249

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: Data.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	41,000	183,959	,000
Time	1	41,000	151,474	,000
Group	2	41,000	57,788	,000
Time * Group	2	41,000	38,684	,000

a. Dependent Variable: Data.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter		Estimate	Std. Error
Repeated Measures	UN (1,1)	2105,068986	464,931961
	UN (2,1)	883,334203	323,672216
	UN (2,2)	1669,794451	368,795899
	UN (3,1)	94,464514	487,714479
	UN (3,2)	123,237407	434,601771
	UN (3,3)	4628,617136	1022,290508
	UN (4,1)	558,113471	180,256639
	UN (4,2)	522,214335	162,477251
	UN (4,3)	360,813341	240,654462
	UN (4,4)	484,877242	107,091468
	UN (5,1)	1075,586671	360,787550
	UN (5,2)	1106,668493	332,777949
	UN (5,3)	771,713384	488,563860
	UN (5,4)	923,702183	210,460317
	UN (5,5)	1985,677072	438,562699
	UN (6,1)	1229,915240	395,186985
	UN (6,2)	848,397493	334,917593
	UN (6,3)	942,634968	532,860055
	UN (6,4)	755,846316	203,490654
	UN (6,5)	1529,656089	411,803700
	UN (6,6)	2323,150166	513,098036

a. Dependent Variable: Data.

Estimated Marginal Means

1. Time

Estimates^a

Time	Mean	Std. Error	df	95% Confidence Interval	
				Lower Bound	Upper Bound
T1	93,230	5,297	41,000	82,533	103,927
T2	40,322	5,446	41,000	29,323	51,321

a. Dependent Variable: Data.

Pairwise Comparisons^a

(I) Time	(J) Time	Mean Difference (I-J)	Std. Error	df	Sig. ^c	95% Confidence Interval for Difference ^c	
						Lower Bound	Upper Bound
T1	T2	52,908 [*]	4,299	41,000	,000	44,227	61,590
T2	T1	-52,908 [*]	4,299	41,000	,000	-61,590	-44,227

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

a. Dependent Variable: Data.

c. Adjustment for multiple comparisons: Sidak.

Univariate Tests^a

Numerator df	Denominator df	F	Sig.
1	41,000	151,474	,000

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

a. Dependent Variable: Data.

2. Group

Estimates^a

Group	Mean	Std. Error	df	95% Confidence Interval	
				Lower Bound	Upper Bound
G1	38,577	4,697	41,000	29,091	48,062
G2	50,610	5,910	41,000	38,674	62,547
G3	111,141	7,253	41,000	96,494	125,788

a. Dependent Variable: Data.

Pairwise Comparisons^a

(I) Group	(J) Group	Mean Difference (I-J)	Std. Error	df	Sig. ^c	95% Confidence Interval for Difference ^c	
						Lower Bound	Upper Bound
G1	G2	-12,033 [*]	4,057	41,000	,015	-22,132	-1,934
	G3	-72,564 [*]	6,753	41	,000	-89,374	-55,755
G2	G1	12,033 [*]	4,057	41,000	,015	1,934	22,132
	G3	-60,531 [*]	6,969	41	,000	-77,879	-43,183
G3	G1	72,564 [*]	6,753	41	,000	55,755	89,374
	G2	60,531 [*]	6,969	41	,000	43,183	77,879

Based on estimated marginal means

*. The mean difference is significant at the ,05 level.

a. Dependent Variable: Data.

c. Adjustment for multiple comparisons: Sidak.

Univariate Tests^a

Numerator df	Denominator df	F	Sig.
2	41,000	57,788	,000

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

a. Dependent Variable: Data.

3. Time * Group^a

Time	Group	Mean	Std. Error	df	95% Confidence Interval	
					Lower Bound	Upper Bound
T1	G1	48,186	7,080	41,000	33,888	62,483
	G2	58,297	6,305	41,000	45,563	71,031
	G3	173,208	10,498	41,000	152,007	194,408
T2	G1	28,968	3,398	41,000	22,106	35,830
	G2	42,923	6,876	41,000	29,037	56,809
	G3	49,074	7,437	41,000	34,054	64,094

a. Dependent Variable: Data.