**Appendix T: Experiment 1 – ANOVA Objective Data**

GET

FILE="E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav".

DATASET NAME DataSet1 WINDOW=FRONT.

GLM FP1\_\_LCLF1 FP1\_\_MCMF1 FP1\_\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 12:57:35 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 FP1\_\_LCLF1 FP1\_\_MCMF1 FP1\_\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.66 |
| Elapsed Time | 00:00:00.37 |

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| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | FP1\_\_LCLF1 |
| 2 | FP1\_\_MCMF1 |
| 3 | FP1\_\_HCHF1 |

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| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| FP1\_\_LCLF1 | 8.5176 | 3.13506 | 74 |
| FP1\_\_MCMF1 | 7.7608 | 3.18618 | 74 |
| FP1\_\_HCHF1 | 8.3486 | 2.97364 | 74 |

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| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .033 | 1.230b | 2.000 | 72.000 | .298 |  |  |  |
| Wilks' Lambda | .967 | 1.230b | 2.000 | 72.000 | .298 |  |  |  |
| Hotelling's Trace | .034 | 1.230b | 2.000 | 72.000 | .298 |  |  |  |
| Roy's Largest Root | .034 | 1.230b | 2.000 | 72.000 | .298 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .934 | 4.939 | 2 | .085 | .938 |  |  |

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| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 23.354 | 2 | 11.677 | 1.554 |  |  |  |  |
| Greenhouse-Geisser | 23.354 | 1.876 | 12.451 | 1.554 |  |  |  |  |
| Huynh-Feldt | 23.354 | 1.923 | 12.142 | 1.554 |  |  |  |  |
| Lower-bound | 23.354 | 1.000 | 23.354 | 1.554 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1096.893 | 146 | 7.513 |  |  |  |  |  |
| Greenhouse-Geisser | 1096.893 | 136.922 | 8.011 |  |  |  |  |  |
| Huynh-Feldt | 1096.893 | 140.405 | 7.812 |  |  |  |  |  |
| Lower-bound | 1096.893 | 73.000 | 15.026 |  |  |  |  |  |

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| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 1.056 | 1 | 1.056 | .188 | .666 |  |  |  |
| Quadratic | 22.298 | 1 | 22.298 | 2.369 | .128 |  |  |  |
| Error(Comp\_Flu) | Linear | 409.909 | 73 | 5.615 |  |  |  |  |  |
| Quadratic | 686.984 | 73 | 9.411 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 14960.098 | 1 | 14960.098 | 1084.307 | .000 | .937 |  |  |
| Error | 1007.175 | 73 | 13.797 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| FP1\_\_LCLF1 | Intercept | 8.518 | .364 | 23.371 | .000 | 7.791 |  |  |  |  |
| FP1\_\_MCMF1 | Intercept | 7.761 | .370 | 20.953 | .000 | 7.023 |  |  |  |  |
| FP1\_\_HCHF1 | Intercept | 8.349 | .346 | 24.151 | .000 | 7.660 |  |  |  |  |

**Estimated Marginal Means**

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| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 8.209 | .249 | 7.712 | 8.706 |

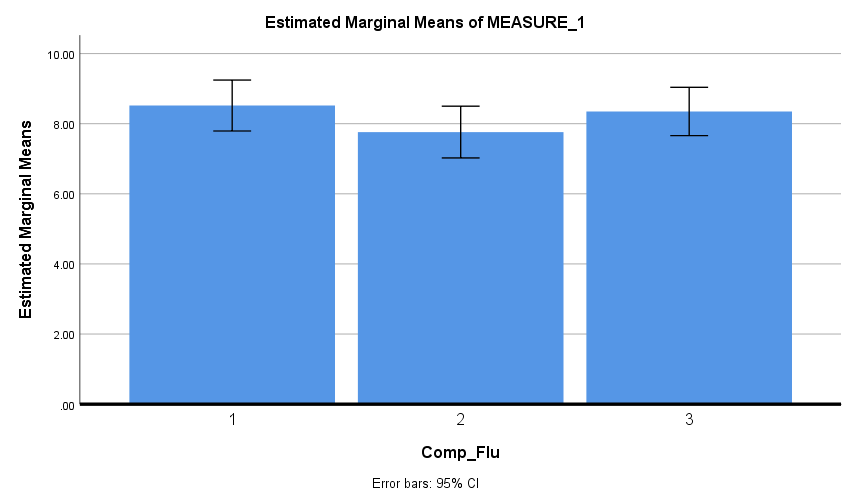
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 8.518 | .364 | 7.791 | 9.244 |
| 2 | 7.761 | .370 | 7.023 | 8.499 |
| 3 | 8.349 | .346 | 7.660 | 9.038 |

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| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .757 | .487 | .374 | -.437 |  |
| 3 | .169 | .390 | 1.000 | -.786 |  |
| 2 | 1 | -.757 | .487 | .374 | -1.951 |  |
| 3 | -.588 | .469 | .642 | -1.737 |  |
| 3 | 1 | -.169 | .390 | 1.000 | -1.124 |  |
| 2 | .588 | .469 | .642 | -.561 |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .033 | 1.230a | 2.000 | 72.000 | .298 | .033 |  |  |
| Wilks' lambda | .967 | 1.230a | 2.000 | 72.000 | .298 | .033 |  |  |
| Hotelling's trace | .034 | 1.230a | 2.000 | 72.000 | .298 | .033 |  |  |
| Roy's largest root | .034 | 1.230a | 2.000 | 72.000 | .298 | .033 |  |  |

**Profile Plots**



GET

FILE="E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav".

DATASET NAME DataSet1 WINDOW=FRONT.

GLM FP2\_LCLF1 FP2\_MCMF1 FP2\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:04:09 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 FP2\_LCLF1 FP2\_MCMF1 FP2\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:02.25 |
| Elapsed Time | 00:00:01.66 |

[DataSet1] E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | FP2\_LCLF1 |
| 2 | FP2\_MCMF1 |
| 3 | FP2\_HCHF1 |

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| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| FP2\_LCLF1 | 8.5152 | 3.30373 | 79 |
| FP2\_MCMF1 | 7.9722 | 3.19141 | 79 |
| FP2\_HCHF1 | 8.1709 | 2.72910 | 79 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .022 | .874b | 2.000 | 77.000 | .421 |  |  |  |
| Wilks' Lambda | .978 | .874b | 2.000 | 77.000 | .421 |  |  |  |
| Hotelling's Trace | .023 | .874b | 2.000 | 77.000 | .421 |  |  |  |
| Roy's Largest Root | .023 | .874b | 2.000 | 77.000 | .421 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .962 | 2.959 | 2 | .228 | .964 |  |  |

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| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 11.927 | 2 | 5.964 | 1.018 |  |  |  |  |
| Greenhouse-Geisser | 11.927 | 1.927 | 6.188 | 1.018 |  |  |  |  |
| Huynh-Feldt | 11.927 | 1.975 | 6.038 | 1.018 |  |  |  |  |
| Lower-bound | 11.927 | 1.000 | 11.927 | 1.018 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 914.119 | 156 | 5.860 |  |  |  |  |  |
| Greenhouse-Geisser | 914.119 | 150.332 | 6.081 |  |  |  |  |  |
| Huynh-Feldt | 914.119 | 154.066 | 5.933 |  |  |  |  |  |
| Lower-bound | 914.119 | 78.000 | 11.719 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 4.683 | 1 | 4.683 | .928 | .338 |  |  |  |
| Quadratic | 7.245 | 1 | 7.245 | 1.086 | .301 |  |  |  |
| Error(Comp\_Flu) | Linear | 393.667 | 78 | 5.047 |  |  |  |  |  |
| Quadratic | 520.452 | 78 | 6.672 |  |  |  |  |  |

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| **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 | 16011.409 | 1 | 16011.409 | 951.460 | .000 | .924 |  |  |
| Error | 1312.604 | 78 | 16.828 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| FP2\_LCLF1 | Intercept | 8.515 | .372 | 22.909 | .000 | 7.775 |  |  |  |  |
| FP2\_MCMF1 | Intercept | 7.972 | .359 | 22.203 | .000 | 7.257 |  |  |  |  |
| FP2\_HCHF1 | Intercept | 8.171 | .307 | 26.611 | .000 | 7.560 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 8.219 | .266 | 7.689 | 8.750 |

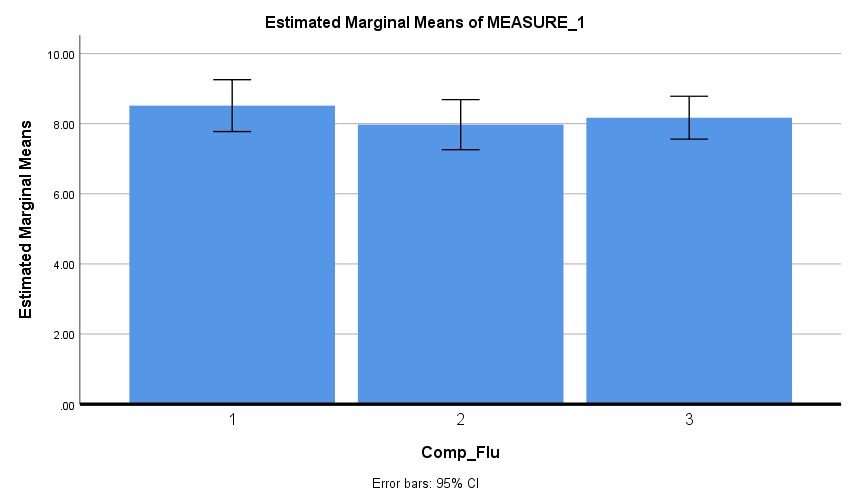
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 8.515 | .372 | 7.775 | 9.255 |
| 2 | 7.972 | .359 | 7.257 | 8.687 |
| 3 | 8.171 | .307 | 7.560 | 8.782 |

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| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .543 | .420 | .598 | -.484 |  |
| 3 | .344 | .357 | 1.000 | -.530 |  |
| 2 | 1 | -.543 | .420 | .598 | -1.570 |  |
| 3 | -.199 | .376 | 1.000 | -1.118 |  |
| 3 | 1 | -.344 | .357 | 1.000 | -1.219 |  |
| 2 | .199 | .376 | 1.000 | -.721 |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .022 | .874a | 2.000 | 77.000 | .421 | .022 |  |  |
| Wilks' lambda | .978 | .874a | 2.000 | 77.000 | .421 | .022 |  |  |
| Hotelling's trace | .023 | .874a | 2.000 | 77.000 | .421 | .022 |  |  |
| Roy's largest root | .023 | .874a | 2.000 | 77.000 | .421 | .022 |  |  |

**Profile Plots**



GLM F7\_LCLF1 F7\_MCMF1 F7\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:05:26 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 F7\_LCLF1 F7\_MCMF1 F7\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.67 |
| Elapsed Time | 00:00:00.26 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | F7\_LCLF1 |
| 2 | F7\_MCMF1 |
| 3 | F7\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| F7\_LCLF1 | 6.5024 | 2.70331 | 82 |
| F7\_MCMF1 | 6.0866 | 2.16896 | 82 |
| F7\_HCHF1 | 6.8732 | 3.26387 | 82 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .059 | 2.491b | 2.000 | 80.000 | .089 |  |  |  |
| Wilks' Lambda | .941 | 2.491b | 2.000 | 80.000 | .089 |  |  |  |
| Hotelling's Trace | .062 | 2.491b | 2.000 | 80.000 | .089 |  |  |  |
| Roy's Largest Root | .062 | 2.491b | 2.000 | 80.000 | .089 |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .959 | 3.325 | 2 | .190 | .961 |  |  |

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| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 25.395 | 2 | 12.698 | 2.711 |  |  |  |  |
| Greenhouse-Geisser | 25.395 | 1.922 | 13.215 | 2.711 |  |  |  |  |
| Huynh-Feldt | 25.395 | 1.967 | 12.908 | 2.711 |  |  |  |  |
| Lower-bound | 25.395 | 1.000 | 25.395 | 2.711 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 758.778 | 162 | 4.684 |  |  |  |  |  |
| Greenhouse-Geisser | 758.778 | 155.663 | 4.874 |  |  |  |  |  |
| Huynh-Feldt | 758.778 | 159.366 | 4.761 |  |  |  |  |  |
| Lower-bound | 758.778 | 81.000 | 9.368 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 5.635 | 1 | 5.635 | 1.112 | .295 |  |  |  |
| Quadratic | 19.760 | 1 | 19.760 | 4.595 | .035 |  |  |  |
| Error(Comp\_Flu) | Linear | 410.475 | 81 | 5.068 |  |  |  |  |  |
| Quadratic | 348.303 | 81 | 4.300 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 10353.239 | 1 | 10353.239 | 778.585 | .000 | .906 |  |  |
| Error | 1077.098 | 81 | 13.298 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| F7\_LCLF1 | Intercept | 6.502 | .299 | 21.781 | .000 | 5.908 |  |  |  |  |
| F7\_MCMF1 | Intercept | 6.087 | .240 | 25.411 | .000 | 5.610 |  |  |  |  |
| F7\_HCHF1 | Intercept | 6.873 | .360 | 19.069 | .000 | 6.156 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 6.487 | .232 | 6.025 | 6.950 |

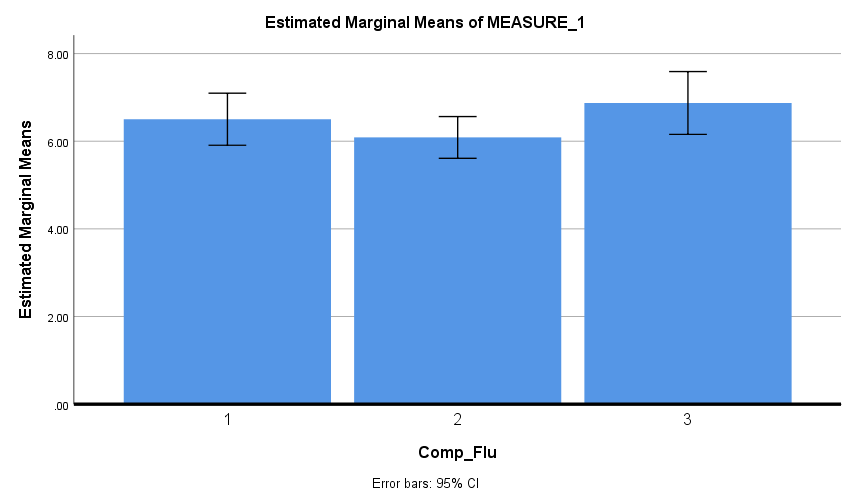
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 6.502 | .299 | 5.908 | 7.096 |
| 2 | 6.087 | .240 | 5.610 | 6.563 |
| 3 | 6.873 | .360 | 6.156 | 7.590 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .416 | .302 | .518 | -.323 |  |
| 3 | -.371 | .352 | .884 | -1.230 |  |
| 2 | 1 | -.416 | .302 | .518 | -1.155 |  |
| 3 | -.787 | .357 | .092 | -1.661 |  |
| 3 | 1 | .371 | .352 | .884 | -.489 |  |
| 2 | .787 | .357 | .092 | -.087 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .059 | 2.491a | 2.000 | 80.000 | .089 | .059 |  |  |
| Wilks' lambda | .941 | 2.491a | 2.000 | 80.000 | .089 | .059 |  |  |
| Hotelling's trace | .062 | 2.491a | 2.000 | 80.000 | .089 | .059 |  |  |
| Roy's largest root | .062 | 2.491a | 2.000 | 80.000 | .089 | .059 |  |  |

**Profile Plots**



GLM F3\_LCLF1 F3\_MCMF1 F3\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:05:51 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 F3\_LCLF1 F3\_MCMF1 F3\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.44 |
| Elapsed Time | 00:00:00.32 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | F3\_LCLF1 |
| 2 | F3\_MCMF1 |
| 3 | F3\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| F3\_LCLF1 | 5.9736 | 2.13152 | 72 |
| F3\_MCMF1 | 5.8347 | 2.49773 | 72 |
| F3\_HCHF1 | 5.6750 | 1.72845 | 72 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .024 | .876b | 2.000 | 70.000 | .421 |  |  |  |
| Wilks' Lambda | .976 | .876b | 2.000 | 70.000 | .421 |  |  |  |
| Hotelling's Trace | .025 | .876b | 2.000 | 70.000 | .421 |  |  |  |
| Roy's Largest Root | .025 | .876b | 2.000 | 70.000 | .421 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .890 | 8.170 | 2 | .017 | .901 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 3.215 | 2 | 1.608 | .597 |  |  |  |  |
| Greenhouse-Geisser | 3.215 | 1.802 | 1.785 | .597 |  |  |  |  |
| Huynh-Feldt | 3.215 | 1.846 | 1.742 | .597 |  |  |  |  |
| Lower-bound | 3.215 | 1.000 | 3.215 | .597 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 382.651 | 142 | 2.695 |  |  |  |  |  |
| Greenhouse-Geisser | 382.651 | 127.909 | 2.992 |  |  |  |  |  |
| Huynh-Feldt | 382.651 | 131.036 | 2.920 |  |  |  |  |  |
| Lower-bound | 382.651 | 71.000 | 5.389 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 3.210 | 1 | 3.210 | 1.747 | .191 |  |  |  |
| Quadratic | .005 | 1 | .005 | .001 | .970 |  |  |  |
| Error(Comp\_Flu) | Linear | 130.495 | 71 | 1.838 |  |  |  |  |  |
| Quadratic | 252.156 | 71 | 3.551 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 7336.007 | 1 | 7336.007 | 875.409 | .000 | .925 |  |  |
| Error | 594.987 | 71 | 8.380 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| F3\_LCLF1 | Intercept | 5.974 | .251 | 23.780 | .000 | 5.473 |  |  |  |  |
| F3\_MCMF1 | Intercept | 5.835 | .294 | 19.822 | .000 | 5.248 |  |  |  |  |
| F3\_HCHF1 | Intercept | 5.675 | .204 | 27.860 | .000 | 5.269 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5.828 | .197 | 5.435 | 6.221 |

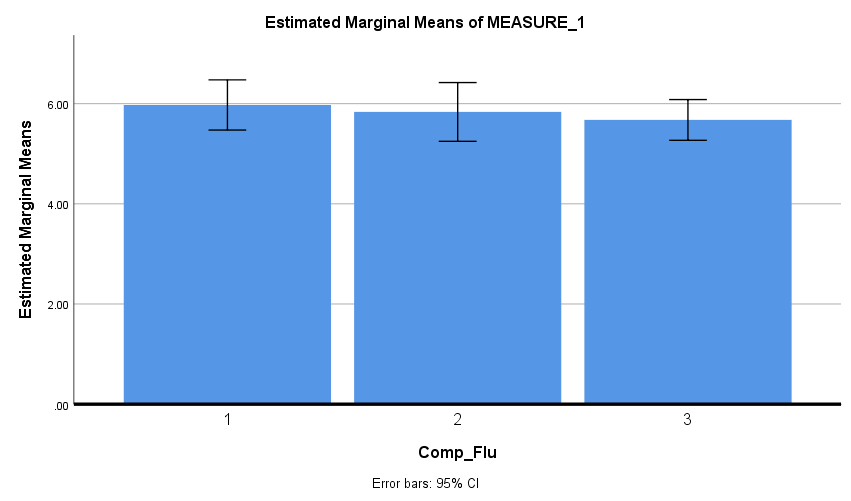
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.974 | .251 | 5.473 | 6.474 |
| 2 | 5.835 | .294 | 5.248 | 6.422 |
| 3 | 5.675 | .204 | 5.269 | 6.081 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .139 | .305 | 1.000 | -.609 |  |
| 3 | .299 | .226 | .572 | -.255 |  |
| 2 | 1 | -.139 | .305 | 1.000 | -.886 |  |
| 3 | .160 | .284 | 1.000 | -.536 |  |
| 3 | 1 | -.299 | .226 | .572 | -.853 |  |
| 2 | -.160 | .284 | 1.000 | -.856 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .024 | .876a | 2.000 | 70.000 | .421 | .024 |  |  |
| Wilks' lambda | .976 | .876a | 2.000 | 70.000 | .421 | .024 |  |  |
| Hotelling's trace | .025 | .876a | 2.000 | 70.000 | .421 | .024 |  |  |
| Roy's largest root | .025 | .876a | 2.000 | 70.000 | .421 | .024 |  |  |

**Profile Plots**



GLM FZ\_LCLF1 FZ\_MCMF1 FZ\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:06:15 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 FZ\_LCLF1 FZ\_MCMF1 FZ\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.33 |
| Elapsed Time | 00:00:00.24 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | FZ\_LCLF1 |
| 2 | FZ\_MCMF1 |
| 3 | FZ\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| FZ\_LCLF1 | 9.3952 | 4.84345 | 84 |
| FZ\_MCMF1 | 9.2893 | 4.73564 | 84 |
| FZ\_HCHF1 | 9.3107 | 3.90273 | 84 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .001 | .032b | 2.000 | 82.000 | .969 |  |  |  |
| Wilks' Lambda | .999 | .032b | 2.000 | 82.000 | .969 |  |  |  |
| Hotelling's Trace | .001 | .032b | 2.000 | 82.000 | .969 |  |  |  |
| Roy's Largest Root | .001 | .032b | 2.000 | 82.000 | .969 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .998 | .136 | 2 | .934 | .998 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | .527 | 2 | .264 | .031 |  |  |  |  |
| Greenhouse-Geisser | .527 | 1.997 | .264 | .031 |  |  |  |  |
| Huynh-Feldt | .527 | 2.000 | .264 | .031 |  |  |  |  |
| Lower-bound | .527 | 1.000 | .527 | .031 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1407.446 | 166 | 8.479 |  |  |  |  |  |
| Greenhouse-Geisser | 1407.446 | 165.726 | 8.493 |  |  |  |  |  |
| Huynh-Feldt | 1407.446 | 166.000 | 8.479 |  |  |  |  |  |
| Lower-bound | 1407.446 | 83.000 | 16.957 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | .300 | 1 | .300 | .035 | .852 |  |  |  |
| Quadratic | .227 | 1 | .227 | .027 | .870 |  |  |  |
| Error(Comp\_Flu) | Linear | 712.575 | 83 | 8.585 |  |  |  |  |  |
| Quadratic | 694.871 | 83 | 8.372 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 21944.534 | 1 | 21944.534 | 496.939 | .000 | .857 |  |  |
| Error | 3665.233 | 83 | 44.159 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| FZ\_LCLF1 | Intercept | 9.395 | .528 | 17.778 | .000 | 8.344 |  |  |  |  |
| FZ\_MCMF1 | Intercept | 9.289 | .517 | 17.978 | .000 | 8.262 |  |  |  |  |
| FZ\_HCHF1 | Intercept | 9.311 | .426 | 21.865 | .000 | 8.464 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 9.332 | .419 | 8.499 | 10.164 |

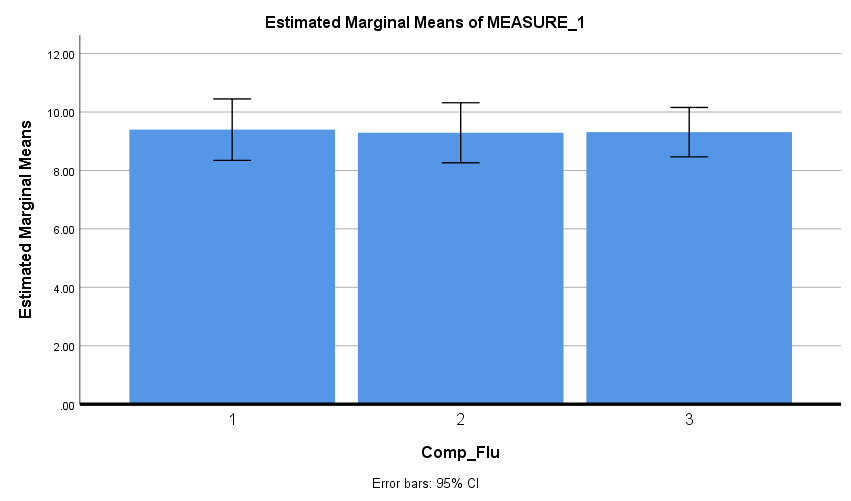
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 9.395 | .528 | 8.344 | 10.446 |
| 2 | 9.289 | .517 | 8.262 | 10.317 |
| 3 | 9.311 | .426 | 8.464 | 10.158 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .106 | .440 | 1.000 | -.970 |  |
| 3 | .085 | .452 | 1.000 | -1.020 |  |
| 2 | 1 | -.106 | .440 | 1.000 | -1.182 |  |
| 3 | -.021 | .455 | 1.000 | -1.134 |  |
| 3 | 1 | -.085 | .452 | 1.000 | -1.189 |  |
| 2 | .021 | .455 | 1.000 | -1.091 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .001 | .032a | 2.000 | 82.000 | .969 | .001 |  |  |
| Wilks' lambda | .999 | .032a | 2.000 | 82.000 | .969 | .001 |  |  |
| Hotelling's trace | .001 | .032a | 2.000 | 82.000 | .969 | .001 |  |  |
| Roy's largest root | .001 | .032a | 2.000 | 82.000 | .969 | .001 |  |  |

**Profile Plots**



GLM F4\_LCLF1 F4\_MCMF1 F4\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:06:38 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 F4\_LCLF1 F4\_MCMF1 F4\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.27 |
| Elapsed Time | 00:00:00.25 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | F4\_LCLF1 |
| 2 | F4\_MCMF1 |
| 3 | F4\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| F4\_LCLF1 | 5.9057 | 2.14732 | 70 |
| F4\_MCMF1 | 6.5600 | 4.04200 | 70 |
| F4\_HCHF1 | 7.0371 | 3.82058 | 70 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .097 | 3.646b | 2.000 | 68.000 | .031 |  |  |  |
| Wilks' Lambda | .903 | 3.646b | 2.000 | 68.000 | .031 |  |  |  |
| Hotelling's Trace | .107 | 3.646b | 2.000 | 68.000 | .031 |  |  |  |
| Roy's Largest Root | .107 | 3.646b | 2.000 | 68.000 | .031 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .827 | 12.952 | 2 | .002 | .852 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 45.171 | 2 | 22.585 | 2.387 |  |  |  |  |
| Greenhouse-Geisser | 45.171 | 1.704 | 26.502 | 2.387 |  |  |  |  |
| Huynh-Feldt | 45.171 | 1.743 | 25.913 | 2.387 |  |  |  |  |
| Lower-bound | 45.171 | 1.000 | 45.171 | 2.387 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1305.489 | 138 | 9.460 |  |  |  |  |  |
| Greenhouse-Geisser | 1305.489 | 117.605 | 11.101 |  |  |  |  |  |
| Huynh-Feldt | 1305.489 | 120.280 | 10.854 |  |  |  |  |  |
| Lower-bound | 1305.489 | 69.000 | 18.920 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 44.805 | 1 | 44.805 | 6.082 | .016 |  |  |  |
| Quadratic | .366 | 1 | .366 | .032 | .859 |  |  |  |
| Error(Comp\_Flu) | Linear | 508.275 | 69 | 7.366 |  |  |  |  |  |
| Quadratic | 797.214 | 69 | 11.554 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 8875.100 | 1 | 8875.100 | 533.824 | .000 | .886 |  |  |
| Error | 1147.160 | 69 | 16.626 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| F4\_LCLF1 | Intercept | 5.906 | .257 | 23.010 | .000 | 5.394 |  |  |  |  |
| F4\_MCMF1 | Intercept | 6.560 | .483 | 13.579 | .000 | 5.596 |  |  |  |  |
| F4\_HCHF1 | Intercept | 7.037 | .457 | 15.410 | .000 | 6.126 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 6.501 | .281 | 5.940 | 7.062 |

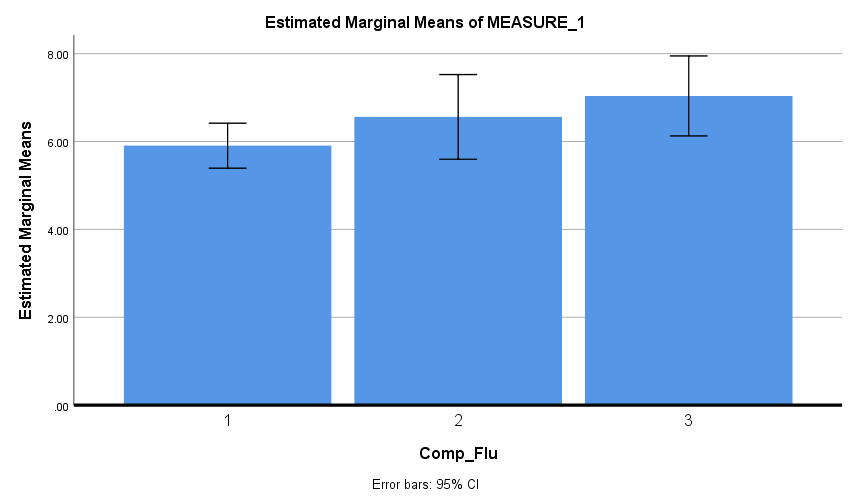
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.906 | .257 | 5.394 | 6.418 |
| 2 | 6.560 | .483 | 5.596 | 7.524 |
| 3 | 7.037 | .457 | 6.126 | 7.948 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.b | 95% Confidence Interval for Differenceb |  |
| Lower Bound |  |
| 1 | 2 | -.654 | .467 | .496 | -1.799 |  |
| 3 | -1.131\* | .459 | .048 | -2.257 |  |
| 2 | 1 | .654 | .467 | .496 | -.490 |  |
| 3 | -.477 | .619 | 1.000 | -1.995 |  |
| 3 | 1 | 1.131\* | .459 | .048 | .006 |  |
| 2 | .477 | .619 | 1.000 | -1.041 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .097 | 3.646a | 2.000 | 68.000 | .031 | .097 |  |  |
| Wilks' lambda | .903 | 3.646a | 2.000 | 68.000 | .031 | .097 |  |  |
| Hotelling's trace | .107 | 3.646a | 2.000 | 68.000 | .031 | .097 |  |  |
| Roy's largest root | .107 | 3.646a | 2.000 | 68.000 | .031 | .097 |  |  |

**Profile Plots**



GLM F8\_LCLF1 F8\_MCMF1 F8\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:07:01 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 F8\_LCLF1 F8\_MCMF1 F8\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.28 |
| Elapsed Time | 00:00:00.26 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | F8\_LCLF1 |
| 2 | F8\_MCMF1 |
| 3 | F8\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| F8\_LCLF1 | 7.7734 | 3.27999 | 94 |
| F8\_MCMF1 | 7.7457 | 3.50510 | 94 |
| F8\_HCHF1 | 7.7319 | 3.58333 | 94 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .000 | .009b | 2.000 | 92.000 | .991 |  |  |  |
| Wilks' Lambda | 1.000 | .009b | 2.000 | 92.000 | .991 |  |  |  |
| Hotelling's Trace | .000 | .009b | 2.000 | 92.000 | .991 |  |  |  |
| Roy's Largest Root | .000 | .009b | 2.000 | 92.000 | .991 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .932 | 6.438 | 2 | .040 | .937 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | .084 | 2 | .042 | .008 |  |  |  |  |
| Greenhouse-Geisser | .084 | 1.873 | .045 | .008 |  |  |  |  |
| Huynh-Feldt | .084 | 1.911 | .044 | .008 |  |  |  |  |
| Lower-bound | .084 | 1.000 | .084 | .008 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1023.809 | 186 | 5.504 |  |  |  |  |  |
| Greenhouse-Geisser | 1023.809 | 174.225 | 5.876 |  |  |  |  |  |
| Huynh-Feldt | 1023.809 | 177.677 | 5.762 |  |  |  |  |  |
| Lower-bound | 1023.809 | 93.000 | 11.009 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | .081 | 1 | .081 | .015 | .903 |  |  |  |
| Quadratic | .003 | 1 | .003 | .001 | .982 |  |  |  |
| Error(Comp\_Flu) | Linear | 504.664 | 93 | 5.426 |  |  |  |  |  |
| Quadratic | 519.145 | 93 | 5.582 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 16939.175 | 1 | 16939.175 | 680.955 | .000 | .880 |  |  |
| Error | 2313.432 | 93 | 24.876 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| F8\_LCLF1 | Intercept | 7.773 | .338 | 22.978 | .000 | 7.102 |  |  |  |  |
| F8\_MCMF1 | Intercept | 7.746 | .362 | 21.425 | .000 | 7.028 |  |  |  |  |
| F8\_HCHF1 | Intercept | 7.732 | .370 | 20.920 | .000 | 6.998 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 7.750 | .297 | 7.161 | 8.340 |

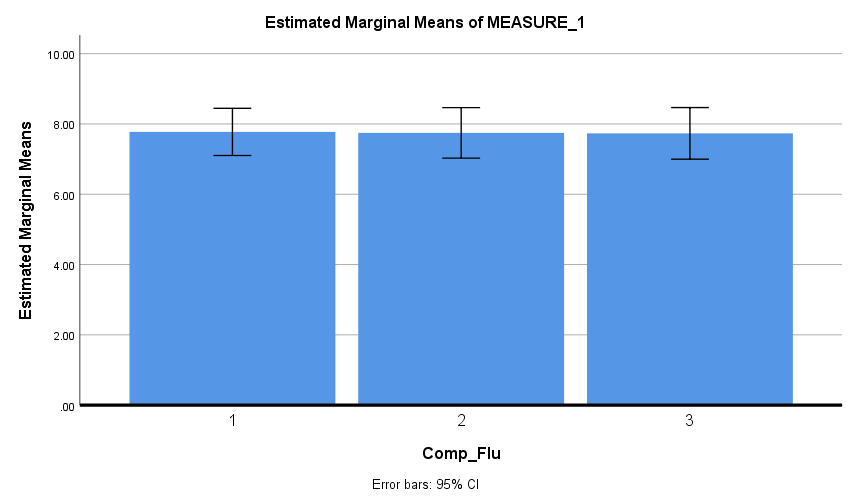
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 7.773 | .338 | 7.102 | 8.445 |
| 2 | 7.746 | .362 | 7.028 | 8.464 |
| 3 | 7.732 | .370 | 6.998 | 8.466 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .028 | .303 | 1.000 | -.710 |  |
| 3 | .041 | .340 | 1.000 | -.787 |  |
| 2 | 1 | -.028 | .303 | 1.000 | -.766 |  |
| 3 | .014 | .380 | 1.000 | -.912 |  |
| 3 | 1 | -.041 | .340 | 1.000 | -.870 |  |
| 2 | -.014 | .380 | 1.000 | -.940 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .000 | .009a | 2.000 | 92.000 | .991 | .000 |  |  |
| Wilks' lambda | 1.000 | .009a | 2.000 | 92.000 | .991 | .000 |  |  |
| Hotelling's trace | .000 | .009a | 2.000 | 92.000 | .991 | .000 |  |  |
| Roy's largest root | .000 | .009a | 2.000 | 92.000 | .991 | .000 |  |  |

**Profile Plots**



GLM T3\_LCLF1 T3\_MCMF1 T3\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:07:35 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 T3\_LCLF1 T3\_MCMF1 T3\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.28 |
| Elapsed Time | 00:00:00.22 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | T3\_LCLF1 |
| 2 | T3\_MCMF1 |
| 3 | T3\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| T3\_LCLF1 | 4.1312 | 2.03400 | 77 |
| T3\_MCMF1 | 3.4714 | 1.51300 | 77 |
| T3\_HCHF1 | 5.2688 | 3.88415 | 77 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .192 | 8.888b | 2.000 | 75.000 | .000 |  |  |  |
| Wilks' Lambda | .808 | 8.888b | 2.000 | 75.000 | .000 |  |  |  |
| Hotelling's Trace | .237 | 8.888b | 2.000 | 75.000 | .000 |  |  |  |
| Roy's Largest Root | .237 | 8.888b | 2.000 | 75.000 | .000 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .570 | 42.123 | 2 | .000 | .699 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 127.312 | 2 | 63.656 | 12.284 |  |  |  |  |
| Greenhouse-Geisser | 127.312 | 1.399 | 91.010 | 12.284 |  |  |  |  |
| Huynh-Feldt | 127.312 | 1.417 | 89.843 | 12.284 |  |  |  |  |
| Lower-bound | 127.312 | 1.000 | 127.312 | 12.284 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 787.635 | 152 | 5.182 |  |  |  |  |  |
| Greenhouse-Geisser | 787.635 | 106.314 | 7.409 |  |  |  |  |  |
| Huynh-Feldt | 787.635 | 107.695 | 7.314 |  |  |  |  |  |
| Lower-bound | 787.635 | 76.000 | 10.364 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 49.830 | 1 | 49.830 | 8.231 | .005 |  |  |  |
| Quadratic | 77.482 | 1 | 77.482 | 17.978 | .000 |  |  |  |
| Error(Comp\_Flu) | Linear | 460.080 | 76 | 6.054 |  |  |  |  |  |
| Quadratic | 327.555 | 76 | 4.310 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 4252.291 | 1 | 4252.291 | 381.393 | .000 | .834 |  |  |
| Error | 847.352 | 76 | 11.149 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| T3\_LCLF1 | Intercept | 4.131 | .232 | 17.822 | .000 | 3.670 |  |  |  |  |
| T3\_MCMF1 | Intercept | 3.471 | .172 | 20.133 | .000 | 3.128 |  |  |  |  |
| T3\_HCHF1 | Intercept | 5.269 | .443 | 11.903 | .000 | 4.387 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 4.290 | .220 | 3.853 | 4.728 |

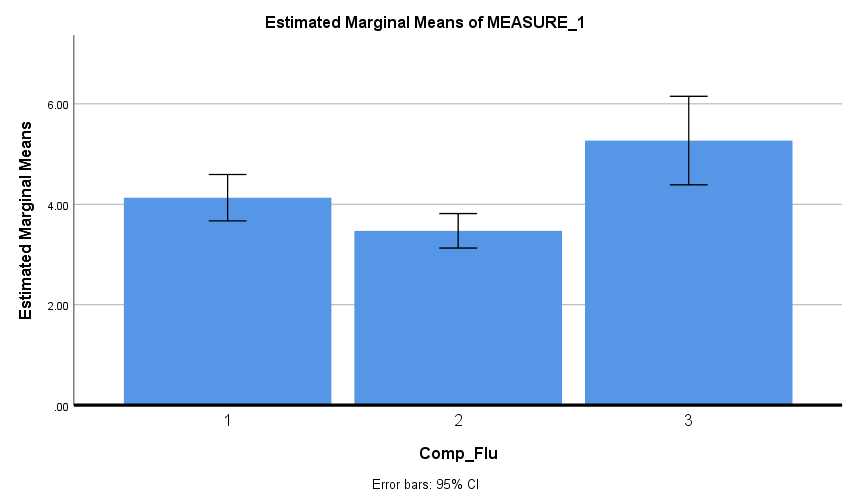
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 4.131 | .232 | 3.670 | 4.593 |
| 2 | 3.471 | .172 | 3.128 | 3.815 |
| 3 | 5.269 | .443 | 4.387 | 6.150 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.b | 95% Confidence Interval for Differenceb |  |
| Lower Bound |  |
| 1 | 2 | .660\* | .222 | .012 | .116 |  |
| 3 | -1.138\* | .397 | .016 | -2.108 |  |
| 2 | 1 | -.660\* | .222 | .012 | -1.204 |  |
| 3 | -1.797\* | .444 | .000 | -2.884 |  |
| 3 | 1 | 1.138\* | .397 | .016 | .167 |  |
| 2 | 1.797\* | .444 | .000 | .710 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .192 | 8.888a | 2.000 | 75.000 | .000 | .192 |  |  |
| Wilks' lambda | .808 | 8.888a | 2.000 | 75.000 | .000 | .192 |  |  |
| Hotelling's trace | .237 | 8.888a | 2.000 | 75.000 | .000 | .192 |  |  |
| Roy's largest root | .237 | 8.888a | 2.000 | 75.000 | .000 | .192 |  |  |

**Profile Plots**



GLM C3\_LCLF1 C3\_MCMF1 C3\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:07:58 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 C3\_LCLF1 C3\_MCMF1 C3\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.30 |
| Elapsed Time | 00:00:00.22 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | C3\_LCLF1 |
| 2 | C3\_MCMF1 |
| 3 | C3\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| C3\_LCLF1 | 5.2406 | 2.46388 | 69 |
| C3\_MCMF1 | 6.1232 | 3.97152 | 69 |
| C3\_HCHF1 | 5.4710 | 2.82880 | 69 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .049 | 1.731b | 2.000 | 67.000 | .185 |  |  |  |
| Wilks' Lambda | .951 | 1.731b | 2.000 | 67.000 | .185 |  |  |  |
| Hotelling's Trace | .052 | 1.731b | 2.000 | 67.000 | .185 |  |  |  |
| Roy's Largest Root | .052 | 1.731b | 2.000 | 67.000 | .185 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .925 | 5.255 | 2 | .072 | .930 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 28.921 | 2 | 14.460 | 2.136 |  |  |  |  |
| Greenhouse-Geisser | 28.921 | 1.860 | 15.551 | 2.136 |  |  |  |  |
| Huynh-Feldt | 28.921 | 1.910 | 15.143 | 2.136 |  |  |  |  |
| Lower-bound | 28.921 | 1.000 | 28.921 | 2.136 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 920.872 | 136 | 6.771 |  |  |  |  |  |
| Greenhouse-Geisser | 920.872 | 126.460 | 7.282 |  |  |  |  |  |
| Huynh-Feldt | 920.872 | 129.871 | 7.091 |  |  |  |  |  |
| Lower-bound | 920.872 | 68.000 | 13.542 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 1.832 | 1 | 1.832 | .373 | .543 |  |  |  |
| Quadratic | 27.089 | 1 | 27.089 | 3.139 | .081 |  |  |  |
| Error(Comp\_Flu) | Linear | 333.973 | 68 | 4.911 |  |  |  |  |  |
| Quadratic | 586.899 | 68 | 8.631 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 6518.428 | 1 | 6518.428 | 399.817 | .000 | .855 |  |  |
| Error | 1108.639 | 68 | 16.304 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| C3\_LCLF1 | Intercept | 5.241 | .297 | 17.668 | .000 | 4.649 |  |  |  |  |
| C3\_MCMF1 | Intercept | 6.123 | .478 | 12.807 | .000 | 5.169 |  |  |  |  |
| C3\_HCHF1 | Intercept | 5.471 | .341 | 16.065 | .000 | 4.791 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5.612 | .281 | 5.052 | 6.172 |

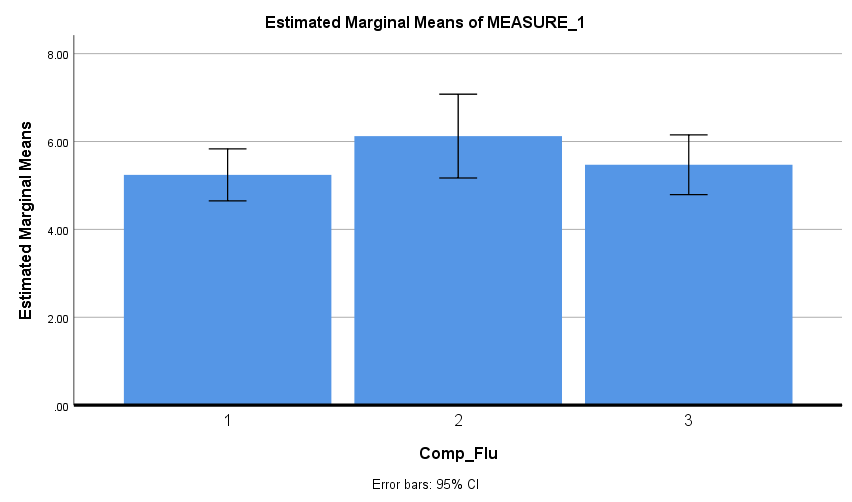
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.241 | .297 | 4.649 | 5.832 |
| 2 | 6.123 | .478 | 5.169 | 7.077 |
| 3 | 5.471 | .341 | 4.791 | 6.151 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.883 | .472 | .198 | -2.042 |  |
| 3 | -.230 | .377 | 1.000 | -1.157 |  |
| 2 | 1 | .883 | .472 | .198 | -.277 |  |
| 3 | .652 | .473 | .517 | -.508 |  |
| 3 | 1 | .230 | .377 | 1.000 | -.696 |  |
| 2 | -.652 | .473 | .517 | -1.812 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .049 | 1.731a | 2.000 | 67.000 | .185 | .049 |  |  |
| Wilks' lambda | .951 | 1.731a | 2.000 | 67.000 | .185 | .049 |  |  |
| Hotelling's trace | .052 | 1.731a | 2.000 | 67.000 | .185 | .049 |  |  |
| Roy's largest root | .052 | 1.731a | 2.000 | 67.000 | .185 | .049 |  |  |

**Profile Plots**



GLM CZ\_LCLF1 CZ\_MCMF1 CZ\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:08:19 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 CZ\_LCLF1 CZ\_MCMF1 CZ\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.23 |
| Elapsed Time | 00:00:00.24 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | CZ\_LCLF1 |
| 2 | CZ\_MCMF1 |
| 3 | CZ\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| CZ\_LCLF1 | 5.3105 | 1.77355 | 76 |
| CZ\_MCMF1 | 5.7276 | 2.98434 | 76 |
| CZ\_HCHF1 | 5.8526 | 2.61240 | 76 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .060 | 2.342b | 2.000 | 74.000 | .103 |  |  |  |
| Wilks' Lambda | .940 | 2.342b | 2.000 | 74.000 | .103 |  |  |  |
| Hotelling's Trace | .063 | 2.342b | 2.000 | 74.000 | .103 |  |  |  |
| Roy's Largest Root | .063 | 2.342b | 2.000 | 74.000 | .103 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .807 | 15.832 | 2 | .000 | .838 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 12.248 | 2 | 6.124 | 1.360 |  |  |  |  |
| Greenhouse-Geisser | 12.248 | 1.677 | 7.304 | 1.360 |  |  |  |  |
| Huynh-Feldt | 12.248 | 1.711 | 7.159 | 1.360 |  |  |  |  |
| Lower-bound | 12.248 | 1.000 | 12.248 | 1.360 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 675.219 | 150 | 4.501 |  |  |  |  |  |
| Greenhouse-Geisser | 675.219 | 125.775 | 5.368 |  |  |  |  |  |
| Huynh-Feldt | 675.219 | 128.321 | 5.262 |  |  |  |  |  |
| Lower-bound | 675.219 | 75.000 | 9.003 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 11.167 | 1 | 11.167 | 3.291 | .074 |  |  |  |
| Quadratic | 1.081 | 1 | 1.081 | .193 | .662 |  |  |  |
| Error(Comp\_Flu) | Linear | 254.473 | 75 | 3.393 |  |  |  |  |  |
| Quadratic | 420.746 | 75 | 5.610 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 7227.569 | 1 | 7227.569 | 732.015 | .000 | .907 |  |  |
| Error | 740.515 | 75 | 9.874 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| CZ\_LCLF1 | Intercept | 5.311 | .203 | 26.104 | .000 | 4.905 |  |  |  |  |
| CZ\_MCMF1 | Intercept | 5.728 | .342 | 16.731 | .000 | 5.046 |  |  |  |  |
| CZ\_HCHF1 | Intercept | 5.853 | .300 | 19.531 | .000 | 5.256 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5.630 | .208 | 5.216 | 6.045 |

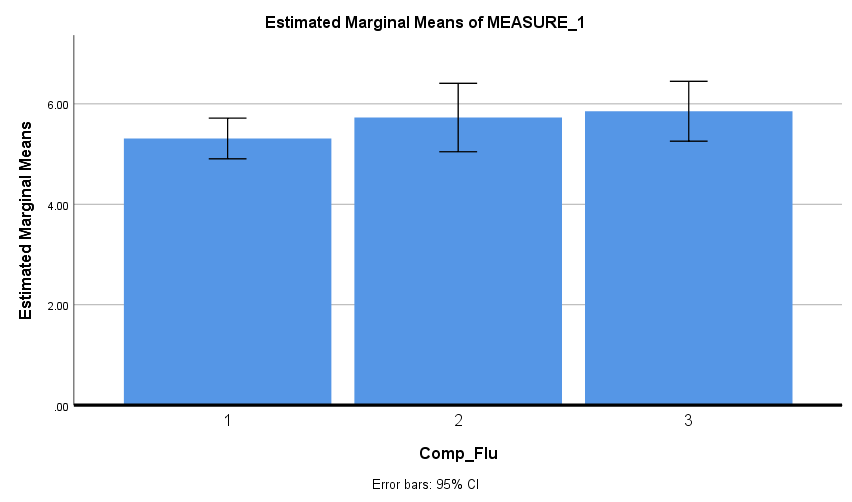
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.311 | .203 | 4.905 | 5.716 |
| 2 | 5.728 | .342 | 5.046 | 6.410 |
| 3 | 5.853 | .300 | 5.256 | 6.450 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.417 | .309 | .545 | -1.175 |  |
| 3 | -.542 | .299 | .221 | -1.274 |  |
| 2 | 1 | .417 | .309 | .545 | -.341 |  |
| 3 | -.125 | .413 | 1.000 | -1.136 |  |
| 3 | 1 | .542 | .299 | .221 | -.190 |  |
| 2 | .125 | .413 | 1.000 | -.886 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .060 | 2.342a | 2.000 | 74.000 | .103 | .060 |  |  |
| Wilks' lambda | .940 | 2.342a | 2.000 | 74.000 | .103 | .060 |  |  |
| Hotelling's trace | .063 | 2.342a | 2.000 | 74.000 | .103 | .060 |  |  |
| Roy's largest root | .063 | 2.342a | 2.000 | 74.000 | .103 | .060 |  |  |

**Profile Plots**



GLM C4\_LCLF1 C4\_MCMF1 C4\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:08:47 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 C4\_LCLF1 C4\_MCMF1 C4\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.25 |
| Elapsed Time | 00:00:00.23 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | C4\_LCLF1 |
| 2 | C4\_MCMF1 |
| 3 | C4\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| C4\_LCLF1 | 4.9000 | 1.84982 | 77 |
| C4\_MCMF1 | 5.7545 | 4.50986 | 77 |
| C4\_HCHF1 | 5.7844 | 3.52338 | 77 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .085 | 3.499b | 2.000 | 75.000 | .035 |  |  |  |
| Wilks' Lambda | .915 | 3.499b | 2.000 | 75.000 | .035 |  |  |  |
| Hotelling's Trace | .093 | 3.499b | 2.000 | 75.000 | .035 |  |  |  |
| Roy's Largest Root | .093 | 3.499b | 2.000 | 75.000 | .035 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .915 | 6.635 | 2 | .036 | .922 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 38.842 | 2 | 19.421 | 2.593 |  |  |  |  |
| Greenhouse-Geisser | 38.842 | 1.844 | 21.065 | 2.593 |  |  |  |  |
| Huynh-Feldt | 38.842 | 1.888 | 20.577 | 2.593 |  |  |  |  |
| Lower-bound | 38.842 | 1.000 | 38.842 | 2.593 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1138.511 | 152 | 7.490 |  |  |  |  |  |
| Greenhouse-Geisser | 1138.511 | 140.135 | 8.124 |  |  |  |  |  |
| Huynh-Feldt | 1138.511 | 143.460 | 7.936 |  |  |  |  |  |
| Lower-bound | 1138.511 | 76.000 | 14.980 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 30.114 | 1 | 30.114 | 5.437 | .022 |  |  |  |
| Quadratic | 8.728 | 1 | 8.728 | .924 | .339 |  |  |  |
| Error(Comp\_Flu) | Linear | 420.981 | 76 | 5.539 |  |  |  |  |  |
| Quadratic | 717.531 | 76 | 9.441 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 6936.146 | 1 | 6936.146 | 327.262 | .000 | .812 |  |  |
| Error | 1610.781 | 76 | 21.194 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| C4\_LCLF1 | Intercept | 4.900 | .211 | 23.244 | .000 | 4.480 |  |  |  |  |
| C4\_MCMF1 | Intercept | 5.755 | .514 | 11.197 | .000 | 4.731 |  |  |  |  |
| C4\_HCHF1 | Intercept | 5.784 | .402 | 14.406 | .000 | 4.985 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5.480 | .303 | 4.876 | 6.083 |

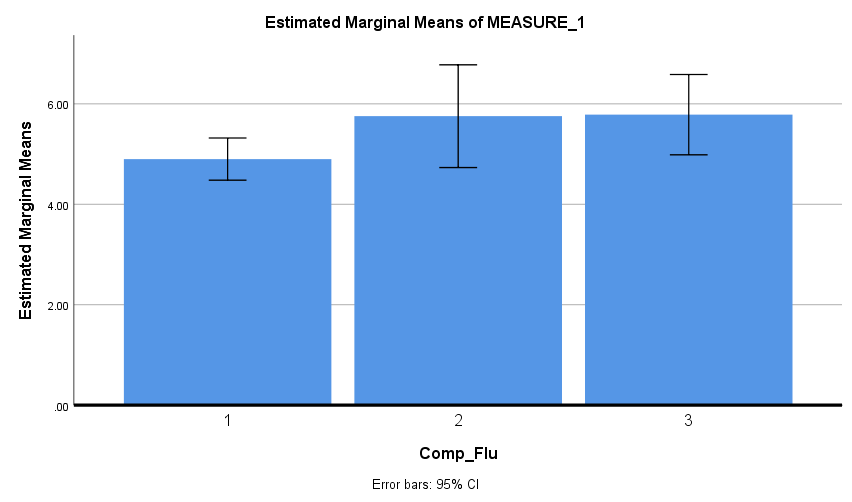
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 4.900 | .211 | 4.480 | 5.320 |
| 2 | 5.755 | .514 | 4.731 | 6.778 |
| 3 | 5.784 | .402 | 4.985 | 6.584 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.855 | .445 | .176 | -1.944 |  |
| 3 | -.884 | .379 | .067 | -1.813 |  |
| 2 | 1 | .855 | .445 | .176 | -.235 |  |
| 3 | -.030 | .492 | 1.000 | -1.234 |  |
| 3 | 1 | .884 | .379 | .067 | -.044 |  |
| 2 | .030 | .492 | 1.000 | -1.174 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .085 | 3.499a | 2.000 | 75.000 | .035 | .085 |  |  |
| Wilks' lambda | .915 | 3.499a | 2.000 | 75.000 | .035 | .085 |  |  |
| Hotelling's trace | .093 | 3.499a | 2.000 | 75.000 | .035 | .085 |  |  |
| Roy's largest root | .093 | 3.499a | 2.000 | 75.000 | .035 | .085 |  |  |

**Profile Plots**



GLM T4\_LCLF1 T4\_MCMF1 T4\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:09:07 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 T4\_LCLF1 T4\_MCMF1 T4\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.23 |
| Elapsed Time | 00:00:00.21 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | T4\_LCLF1 |
| 2 | T4\_MCMF1 |
| 3 | T4\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| T4\_LCLF1 | 3.4301 | 1.23757 | 73 |
| T4\_MCMF1 | 3.3055 | 1.30808 | 73 |
| T4\_HCHF1 | 3.9562 | 2.77874 | 73 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .048 | 1.795b | 2.000 | 71.000 | .174 |  |  |  |
| Wilks' Lambda | .952 | 1.795b | 2.000 | 71.000 | .174 |  |  |  |
| Hotelling's Trace | .051 | 1.795b | 2.000 | 71.000 | .174 |  |  |  |
| Roy's Largest Root | .051 | 1.795b | 2.000 | 71.000 | .174 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .442 | 57.983 | 2 | .000 | .642 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 17.414 | 2 | 8.707 | 2.940 |  |  |  |  |
| Greenhouse-Geisser | 17.414 | 1.284 | 13.566 | 2.940 |  |  |  |  |
| Huynh-Feldt | 17.414 | 1.297 | 13.428 | 2.940 |  |  |  |  |
| Lower-bound | 17.414 | 1.000 | 17.414 | 2.940 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 426.420 | 144 | 2.961 |  |  |  |  |  |
| Greenhouse-Geisser | 426.420 | 92.421 | 4.614 |  |  |  |  |  |
| Huynh-Feldt | 426.420 | 93.369 | 4.567 |  |  |  |  |  |
| Lower-bound | 426.420 | 72.000 | 5.922 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 10.100 | 1 | 10.100 | 2.647 | .108 |  |  |  |
| Quadratic | 7.314 | 1 | 7.314 | 3.471 | .067 |  |  |  |
| Error(Comp\_Flu) | Linear | 274.700 | 72 | 3.815 |  |  |  |  |  |
| Quadratic | 151.719 | 72 | 2.107 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 2781.645 | 1 | 2781.645 | 551.744 | .000 | .885 |  |  |
| Error | 362.992 | 72 | 5.042 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| T4\_LCLF1 | Intercept | 3.430 | .145 | 23.681 | .000 | 3.141 |  |  |  |  |
| T4\_MCMF1 | Intercept | 3.305 | .153 | 21.590 | .000 | 3.000 |  |  |  |  |
| T4\_HCHF1 | Intercept | 3.956 | .325 | 12.164 | .000 | 3.308 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 3.564 | .152 | 3.261 | 3.866 |

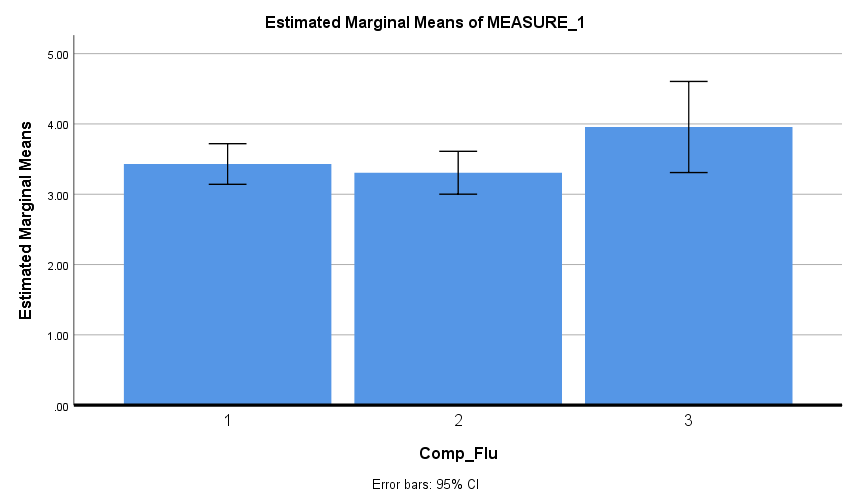
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 3.430 | .145 | 3.141 | 3.719 |
| 2 | 3.305 | .153 | 3.000 | 3.611 |
| 3 | 3.956 | .325 | 3.308 | 4.604 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .125 | .145 | 1.000 | -.231 |  |
| 3 | -.526 | .323 | .324 | -1.319 |  |
| 2 | 1 | -.125 | .145 | 1.000 | -.480 |  |
| 3 | -.651 | .343 | .186 | -1.492 |  |
| 3 | 1 | .526 | .323 | .324 | -.266 |  |
| 2 | .651 | .343 | .186 | -.191 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .048 | 1.795a | 2.000 | 71.000 | .174 | .048 |  |  |
| Wilks' lambda | .952 | 1.795a | 2.000 | 71.000 | .174 | .048 |  |  |
| Hotelling's trace | .051 | 1.795a | 2.000 | 71.000 | .174 | .048 |  |  |
| Roy's largest root | .051 | 1.795a | 2.000 | 71.000 | .174 | .048 |  |  |

**Profile Plots**



GLM T5\_LCLF1 T5\_MCMF1 T5\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:09:28 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 T5\_LCLF1 T5\_MCMF1 T5\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.22 |
| Elapsed Time | 00:00:00.24 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | T5\_LCLF1 |
| 2 | T5\_MCMF1 |
| 3 | T5\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| T5\_LCLF1 | 5.7500 | 3.41452 | 74 |
| T5\_MCMF1 | 5.1527 | 3.34653 | 74 |
| T5\_HCHF1 | 4.2932 | 2.24831 | 74 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .199 | 8.918b | 2.000 | 72.000 | .000 |  |  |  |
| Wilks' Lambda | .801 | 8.918b | 2.000 | 72.000 | .000 |  |  |  |
| Hotelling's Trace | .248 | 8.918b | 2.000 | 72.000 | .000 |  |  |  |
| Roy's Largest Root | .248 | 8.918b | 2.000 | 72.000 | .000 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .887 | 8.652 | 2 | .013 | .898 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 79.367 | 2 | 39.683 | 6.748 |  |  |  |  |
| Greenhouse-Geisser | 79.367 | 1.797 | 44.177 | 6.748 |  |  |  |  |
| Huynh-Feldt | 79.367 | 1.839 | 43.156 | 6.748 |  |  |  |  |
| Lower-bound | 79.367 | 1.000 | 79.367 | 6.748 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 858.626 | 146 | 5.881 |  |  |  |  |  |
| Greenhouse-Geisser | 858.626 | 131.150 | 6.547 |  |  |  |  |  |
| Huynh-Feldt | 858.626 | 134.251 | 6.396 |  |  |  |  |  |
| Lower-bound | 858.626 | 73.000 | 11.762 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 78.519 | 1 | 78.519 | 15.292 | .000 |  |  |  |
| Quadratic | .848 | 1 | .848 | .128 | .722 |  |  |  |
| Error(Comp\_Flu) | Linear | 374.841 | 73 | 5.135 |  |  |  |  |  |
| Quadratic | 483.786 | 73 | 6.627 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 5695.947 | 1 | 5695.947 | 352.666 | .000 | .829 |  |  |
| Error | 1179.030 | 73 | 16.151 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| T5\_LCLF1 | Intercept | 5.750 | .397 | 14.486 | .000 | 4.959 |  |  |  |  |
| T5\_MCMF1 | Intercept | 5.153 | .389 | 13.245 | .000 | 4.377 |  |  |  |  |
| T5\_HCHF1 | Intercept | 4.293 | .261 | 16.427 | .000 | 3.772 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5.065 | .270 | 4.528 | 5.603 |

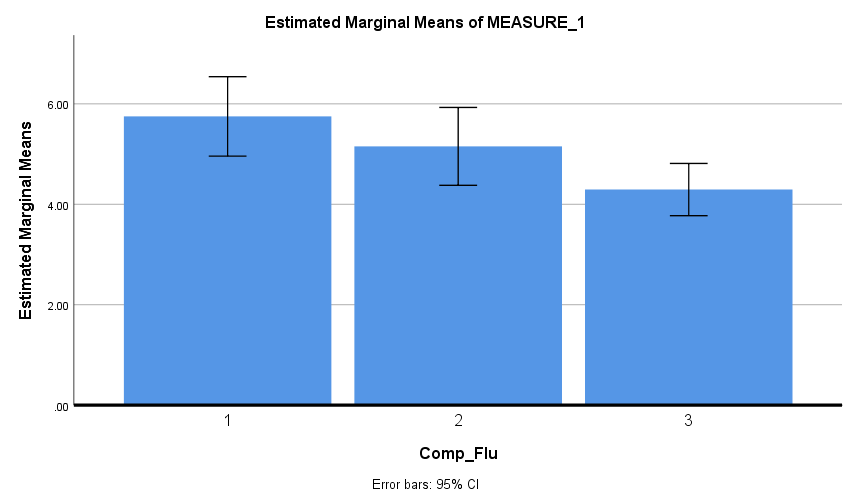
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.750 | .397 | 4.959 | 6.541 |
| 2 | 5.153 | .389 | 4.377 | 5.928 |
| 3 | 4.293 | .261 | 3.772 | 4.814 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.b | 95% Confidence Interval for Differenceb |  |
| Lower Bound |  |
| 1 | 2 | .597 | .460 | .596 | -.531 |  |
| 3 | 1.457\* | .373 | .001 | .544 |  |
| 2 | 1 | -.597 | .460 | .596 | -1.725 |  |
| 3 | .859 | .355 | .054 | -.011 |  |
| 3 | 1 | -1.457\* | .373 | .001 | -2.370 |  |
| 2 | -.859 | .355 | .054 | -1.730 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .199 | 8.918a | 2.000 | 72.000 | .000 | .199 |  |  |
| Wilks' lambda | .801 | 8.918a | 2.000 | 72.000 | .000 | .199 |  |  |
| Hotelling's trace | .248 | 8.918a | 2.000 | 72.000 | .000 | .199 |  |  |
| Roy's largest root | .248 | 8.918a | 2.000 | 72.000 | .000 | .199 |  |  |

**Profile Plots**



GLM P3\_LCLF1 P3\_MCMF1 P3\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:09:51 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 P3\_LCLF1 P3\_MCMF1 P3\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.25 |
| Elapsed Time | 00:00:00.32 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | P3\_LCLF1 |
| 2 | P3\_MCMF1 |
| 3 | P3\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| P3\_LCLF1 | 5.9381 | 3.07340 | 84 |
| P3\_MCMF1 | 6.1726 | 4.36222 | 84 |
| P3\_HCHF1 | 6.1845 | 4.14152 | 84 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .006 | .238b | 2.000 | 82.000 | .788 |  |  |  |
| Wilks' Lambda | .994 | .238b | 2.000 | 82.000 | .788 |  |  |  |
| Hotelling's Trace | .006 | .238b | 2.000 | 82.000 | .788 |  |  |  |
| Roy's Largest Root | .006 | .238b | 2.000 | 82.000 | .788 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .940 | 5.069 | 2 | .079 | .943 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 3.244 | 2 | 1.622 | .183 |  |  |  |  |
| Greenhouse-Geisser | 3.244 | 1.887 | 1.719 | .183 |  |  |  |  |
| Huynh-Feldt | 3.244 | 1.929 | 1.682 | .183 |  |  |  |  |
| Lower-bound | 3.244 | 1.000 | 3.244 | .183 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1470.882 | 166 | 8.861 |  |  |  |  |  |
| Greenhouse-Geisser | 1470.882 | 156.612 | 9.392 |  |  |  |  |  |
| Huynh-Feldt | 1470.882 | 160.140 | 9.185 |  |  |  |  |  |
| Lower-bound | 1470.882 | 83.000 | 17.721 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 2.551 | 1 | 2.551 | .318 | .574 |  |  |  |
| Quadratic | .694 | 1 | .694 | .071 | .790 |  |  |  |
| Error(Comp\_Flu) | Linear | 665.254 | 83 | 8.015 |  |  |  |  |  |
| Quadratic | 805.628 | 83 | 9.706 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 9372.041 | 1 | 9372.041 | 335.850 | .000 | .802 |  |  |
| Error | 2316.153 | 83 | 27.905 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| P3\_LCLF1 | Intercept | 5.938 | .335 | 17.708 | .000 | 5.271 |  |  |  |  |
| P3\_MCMF1 | Intercept | 6.173 | .476 | 12.969 | .000 | 5.226 |  |  |  |  |
| P3\_HCHF1 | Intercept | 6.185 | .452 | 13.686 | .000 | 5.286 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 6.098 | .333 | 5.437 | 6.760 |

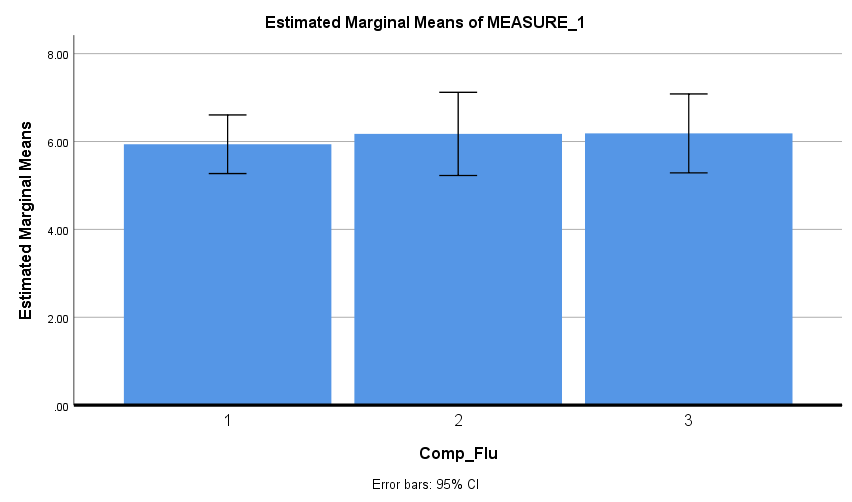
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.938 | .335 | 5.271 | 6.605 |
| 2 | 6.173 | .476 | 5.226 | 7.119 |
| 3 | 6.185 | .452 | 5.286 | 7.083 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.235 | .424 | 1.000 | -1.271 |  |
| 3 | -.246 | .437 | 1.000 | -1.314 |  |
| 2 | 1 | .235 | .424 | 1.000 | -.802 |  |
| 3 | -.012 | .512 | 1.000 | -1.263 |  |
| 3 | 1 | .246 | .437 | 1.000 | -.821 |  |
| 2 | .012 | .512 | 1.000 | -1.239 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .006 | .238a | 2.000 | 82.000 | .788 | .006 |  |  |
| Wilks' lambda | .994 | .238a | 2.000 | 82.000 | .788 | .006 |  |  |
| Hotelling's trace | .006 | .238a | 2.000 | 82.000 | .788 | .006 |  |  |
| Roy's largest root | .006 | .238a | 2.000 | 82.000 | .788 | .006 |  |  |

**Profile Plots**



GLM PZ\_LCLF1 PZ\_MCMF1 PZ\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:10:14 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 PZ\_LCLF1 PZ\_MCMF1 PZ\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.23 |
| Elapsed Time | 00:00:00.25 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | PZ\_LCLF1 |
| 2 | PZ\_MCMF1 |
| 3 | PZ\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| PZ\_LCLF1 | 6.2333 | 2.96611 | 78 |
| PZ\_MCMF1 | 6.8167 | 4.37642 | 78 |
| PZ\_HCHF1 | 6.8513 | 3.50194 | 78 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .047 | 1.868b | 2.000 | 76.000 | .161 |  |  |  |
| Wilks' Lambda | .953 | 1.868b | 2.000 | 76.000 | .161 |  |  |  |
| Hotelling's Trace | .049 | 1.868b | 2.000 | 76.000 | .161 |  |  |  |
| Roy's Largest Root | .049 | 1.868b | 2.000 | 76.000 | .161 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .855 | 11.920 | 2 | .003 | .873 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 18.807 | 2 | 9.403 | 1.171 |  |  |  |  |
| Greenhouse-Geisser | 18.807 | 1.746 | 10.768 | 1.171 |  |  |  |  |
| Huynh-Feldt | 18.807 | 1.784 | 10.544 | 1.171 |  |  |  |  |
| Lower-bound | 18.807 | 1.000 | 18.807 | 1.171 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 1236.147 | 154 | 8.027 |  |  |  |  |  |
| Greenhouse-Geisser | 1236.147 | 134.478 | 9.192 |  |  |  |  |  |
| Huynh-Feldt | 1236.147 | 137.340 | 9.001 |  |  |  |  |  |
| Lower-bound | 1236.147 | 77.000 | 16.054 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 14.893 | 1 | 14.893 | 2.402 | .125 |  |  |  |
| Quadratic | 3.914 | 1 | 3.914 | .397 | .530 |  |  |  |
| Error(Comp\_Flu) | Linear | 477.357 | 77 | 6.199 |  |  |  |  |  |
| Quadratic | 758.789 | 77 | 9.854 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 10297.587 | 1 | 10297.587 | 426.213 | .000 | .847 |  |  |
| Error | 1860.370 | 77 | 24.161 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| PZ\_LCLF1 | Intercept | 6.233 | .336 | 18.560 | .000 | 5.565 |  |  |  |  |
| PZ\_MCMF1 | Intercept | 6.817 | .496 | 13.756 | .000 | 5.830 |  |  |  |  |
| PZ\_HCHF1 | Intercept | 6.851 | .397 | 17.279 | .000 | 6.062 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 6.634 | .321 | 5.994 | 7.274 |

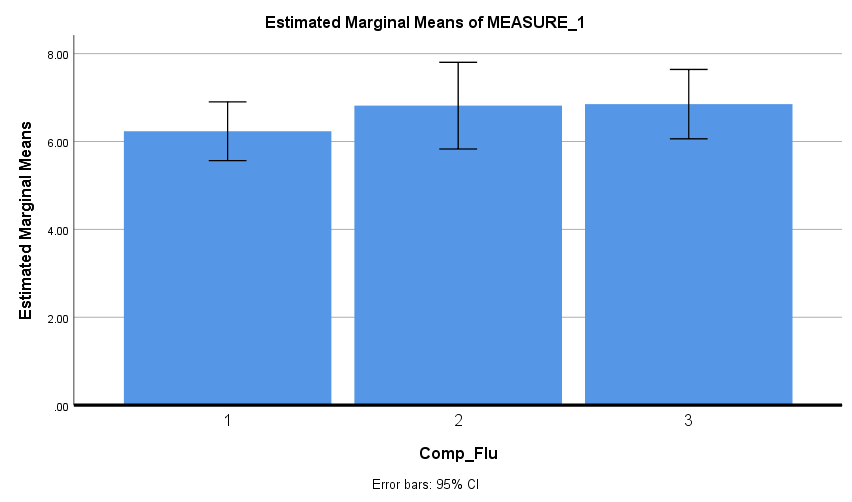
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 6.233 | .336 | 5.565 | 6.902 |
| 2 | 6.817 | .496 | 5.830 | 7.803 |
| 3 | 6.851 | .397 | 6.062 | 7.641 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.583 | .418 | .501 | -1.607 |  |
| 3 | -.618 | .399 | .376 | -1.594 |  |
| 2 | 1 | .583 | .418 | .501 | -.440 |  |
| 3 | -.035 | .533 | 1.000 | -1.338 |  |
| 3 | 1 | .618 | .399 | .376 | -.358 |  |
| 2 | .035 | .533 | 1.000 | -1.269 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .047 | 1.868a | 2.000 | 76.000 | .161 | .047 |  |  |
| Wilks' lambda | .953 | 1.868a | 2.000 | 76.000 | .161 | .047 |  |  |
| Hotelling's trace | .049 | 1.868a | 2.000 | 76.000 | .161 | .047 |  |  |
| Roy's largest root | .049 | 1.868a | 2.000 | 76.000 | .161 | .047 |  |  |

**Profile Plots**



GLM P4\_LCLF1 P4\_MCMF1 P4\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:11:10 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 P4\_LCLF1 P4\_MCMF1 P4\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.25 |
| Elapsed Time | 00:00:00.24 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | P4\_LCLF1 |
| 2 | P4\_MCMF1 |
| 3 | P4\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| P4\_LCLF1 | 4.2662 | 1.38431 | 68 |
| P4\_MCMF1 | 4.8265 | 3.62482 | 68 |
| P4\_HCHF1 | 5.2926 | 3.71633 | 68 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .087 | 3.138b | 2.000 | 66.000 | .050 |  |  |  |
| Wilks' Lambda | .913 | 3.138b | 2.000 | 66.000 | .050 |  |  |  |
| Hotelling's Trace | .095 | 3.138b | 2.000 | 66.000 | .050 |  |  |  |
| Roy's Largest Root | .095 | 3.138b | 2.000 | 66.000 | .050 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .891 | 7.615 | 2 | .022 | .902 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 35.924 | 2 | 17.962 | 2.496 |  |  |  |  |
| Greenhouse-Geisser | 35.924 | 1.803 | 19.919 | 2.496 |  |  |  |  |
| Huynh-Feldt | 35.924 | 1.850 | 19.415 | 2.496 |  |  |  |  |
| Lower-bound | 35.924 | 1.000 | 35.924 | 2.496 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 964.449 | 134 | 7.197 |  |  |  |  |  |
| Greenhouse-Geisser | 964.449 | 120.833 | 7.982 |  |  |  |  |  |
| Huynh-Feldt | 964.449 | 123.974 | 7.779 |  |  |  |  |  |
| Lower-bound | 964.449 | 67.000 | 14.395 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 35.824 | 1 | 35.824 | 5.562 | .021 |  |  |  |
| Quadratic | .100 | 1 | .100 | .013 | .911 |  |  |  |
| Error(Comp\_Flu) | Linear | 431.556 | 67 | 6.441 |  |  |  |  |  |
| Quadratic | 532.893 | 67 | 7.954 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 4690.565 | 1 | 4690.565 | 324.114 | .000 | .829 |  |  |
| Error | 969.622 | 67 | 14.472 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| P4\_LCLF1 | Intercept | 4.266 | .168 | 25.413 | .000 | 3.931 |  |  |  |  |
| P4\_MCMF1 | Intercept | 4.826 | .440 | 10.980 | .000 | 3.949 |  |  |  |  |
| P4\_HCHF1 | Intercept | 5.293 | .451 | 11.744 | .000 | 4.393 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 4.795 | .266 | 4.263 | 5.327 |

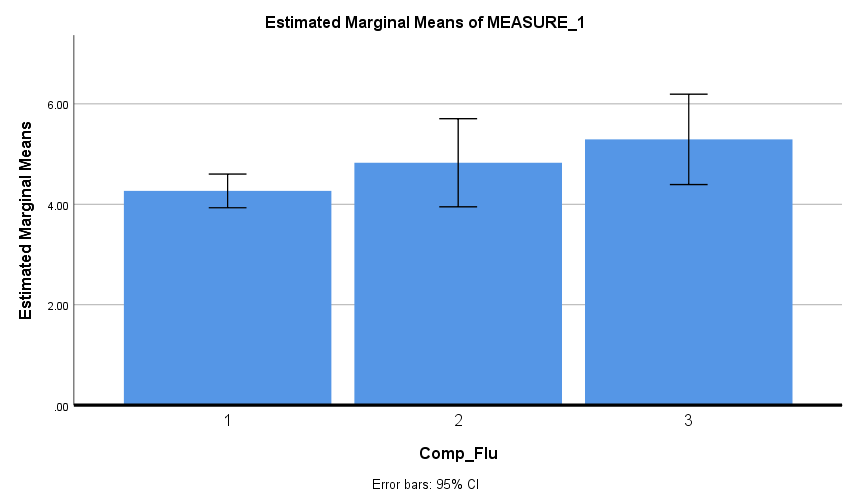
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 4.266 | .168 | 3.931 | 4.601 |
| 2 | 4.826 | .440 | 3.949 | 5.704 |
| 3 | 5.293 | .451 | 4.393 | 6.192 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.560 | .407 | .519 | -1.559 |  |
| 3 | -1.026 | .435 | .064 | -2.095 |  |
| 2 | 1 | .560 | .407 | .519 | -.438 |  |
| 3 | -.466 | .529 | 1.000 | -1.766 |  |
| 3 | 1 | 1.026 | .435 | .064 | -.042 |  |
| 2 | .466 | .529 | 1.000 | -.834 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .087 | 3.138a | 2.000 | 66.000 | .050 | .087 |  |  |
| Wilks' lambda | .913 | 3.138a | 2.000 | 66.000 | .050 | .087 |  |  |
| Hotelling's trace | .095 | 3.138a | 2.000 | 66.000 | .050 | .087 |  |  |
| Roy's largest root | .095 | 3.138a | 2.000 | 66.000 | .050 | .087 |  |  |

**Profile Plots**



GLM T6\_LCLF1 T6\_MCMF1 T6\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:12:54 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 T6\_LCLF1 T6\_MCMF1 T6\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.22 |
| Elapsed Time | 00:00:00.22 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | T6\_LCLF1 |
| 2 | T6\_MCMF1 |
| 3 | T6\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| T6\_LCLF1 | 3.9235 | 2.23239 | 81 |
| T6\_MCMF1 | 4.7556 | 3.55760 | 81 |
| T6\_HCHF1 | 5.2593 | 3.90624 | 81 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .168 | 7.984b | 2.000 | 79.000 | .001 |  |  |  |
| Wilks' Lambda | .832 | 7.984b | 2.000 | 79.000 | .001 |  |  |  |
| Hotelling's Trace | .202 | 7.984b | 2.000 | 79.000 | .001 |  |  |  |
| Roy's Largest Root | .202 | 7.984b | 2.000 | 79.000 | .001 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .897 | 8.591 | 2 | .014 | .907 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 73.723 | 2 | 36.861 | 6.440 |  |  |  |  |
| Greenhouse-Geisser | 73.723 | 1.813 | 40.660 | 6.440 |  |  |  |  |
| Huynh-Feldt | 73.723 | 1.853 | 39.789 | 6.440 |  |  |  |  |
| Lower-bound | 73.723 | 1.000 | 73.723 | 6.440 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 915.877 | 160 | 5.724 |  |  |  |  |  |
| Greenhouse-Geisser | 915.877 | 145.053 | 6.314 |  |  |  |  |  |
| Huynh-Feldt | 915.877 | 148.226 | 6.179 |  |  |  |  |  |
| Lower-bound | 915.877 | 80.000 | 11.448 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 72.267 | 1 | 72.267 | 13.138 | .001 |  |  |  |
| Quadratic | 1.456 | 1 | 1.456 | .245 | .622 |  |  |  |
| Error(Comp\_Flu) | Linear | 440.043 | 80 | 5.501 |  |  |  |  |  |
| Quadratic | 475.834 | 80 | 5.948 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 5245.436 | 1 | 5245.436 | 244.539 | .000 | .753 |  |  |
| Error | 1716.024 | 80 | 21.450 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| T6\_LCLF1 | Intercept | 3.923 | .248 | 15.818 | .000 | 3.430 |  |  |  |  |
| T6\_MCMF1 | Intercept | 4.756 | .395 | 12.031 | .000 | 3.969 |  |  |  |  |
| T6\_HCHF1 | Intercept | 5.259 | .434 | 12.117 | .000 | 4.396 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 4.646 | .297 | 4.055 | 5.237 |

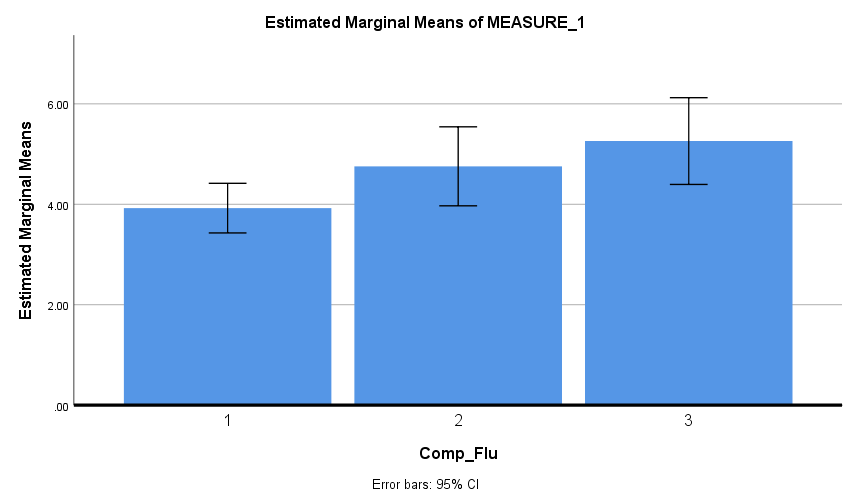
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 3.923 | .248 | 3.430 | 4.417 |
| 2 | 4.756 | .395 | 3.969 | 5.542 |
| 3 | 5.259 | .434 | 4.396 | 6.123 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.b | 95% Confidence Interval for Differenceb |  |
| Lower Bound |  |
| 1 | 2 | -.832\* | .324 | .036 | -1.625 |  |
| 3 | -1.336\* | .369 | .002 | -2.237 |  |
| 2 | 1 | .832\* | .324 | .036 | .039 |  |
| 3 | -.504 | .428 | .728 | -1.550 |  |
| 3 | 1 | 1.336\* | .369 | .002 | .435 |  |
| 2 | .504 | .428 | .728 | -.543 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .168 | 7.984a | 2.000 | 79.000 | .001 | .168 |  |  |
| Wilks' lambda | .832 | 7.984a | 2.000 | 79.000 | .001 | .168 |  |  |
| Hotelling's trace | .202 | 7.984a | 2.000 | 79.000 | .001 | .168 |  |  |
| Roy's largest root | .202 | 7.984a | 2.000 | 79.000 | .001 | .168 |  |  |

**Profile Plots**



GLM O1\_LCLF1 O1\_MCMF1 O1\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:13:37 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 O1\_LCLF1 O1\_MCMF1 O1\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.23 |
| Elapsed Time | 00:00:00.27 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | O1\_LCLF1 |
| 2 | O1\_MCMF1 |
| 3 | O1\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| O1\_LCLF1 | 5.2408 | 2.87723 | 76 |
| O1\_MCMF1 | 4.7645 | 2.09142 | 76 |
| O1\_HCHF1 | 5.3632 | 2.89210 | 76 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .067 | 2.673b | 2.000 | 74.000 | .076 |  |  |  |
| Wilks' Lambda | .933 | 2.673b | 2.000 | 74.000 | .076 |  |  |  |
| Hotelling's Trace | .072 | 2.673b | 2.000 | 74.000 | .076 |  |  |  |
| Roy's Largest Root | .072 | 2.673b | 2.000 | 74.000 | .076 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .944 | 4.227 | 2 | .121 | .947 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 15.207 | 2 | 7.603 | 2.076 |  |  |  |  |
| Greenhouse-Geisser | 15.207 | 1.895 | 8.026 | 2.076 |  |  |  |  |
| Huynh-Feldt | 15.207 | 1.942 | 7.829 | 2.076 |  |  |  |  |
| Lower-bound | 15.207 | 1.000 | 15.207 | 2.076 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 549.266 | 150 | 3.662 |  |  |  |  |  |
| Greenhouse-Geisser | 549.266 | 142.109 | 3.865 |  |  |  |  |  |
| Huynh-Feldt | 549.266 | 145.684 | 3.770 |  |  |  |  |  |
| Lower-bound | 549.266 | 75.000 | 7.324 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | .569 | 1 | .569 | .126 | .723 |  |  |  |
| Quadratic | 14.638 | 1 | 14.638 | 5.193 | .026 |  |  |  |
| Error(Comp\_Flu) | Linear | 337.876 | 75 | 4.505 |  |  |  |  |  |
| Quadratic | 211.390 | 75 | 2.819 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 5983.439 | 1 | 5983.439 | 436.965 | .000 | .854 |  |  |
| Error | 1026.988 | 75 | 13.693 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| O1\_LCLF1 | Intercept | 5.241 | .330 | 15.879 | .000 | 4.583 |  |  |  |  |
| O1\_MCMF1 | Intercept | 4.764 | .240 | 19.860 | .000 | 4.287 |  |  |  |  |
| O1\_HCHF1 | Intercept | 5.363 | .332 | 16.166 | .000 | 4.702 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5.123 | .245 | 4.635 | 5.611 |

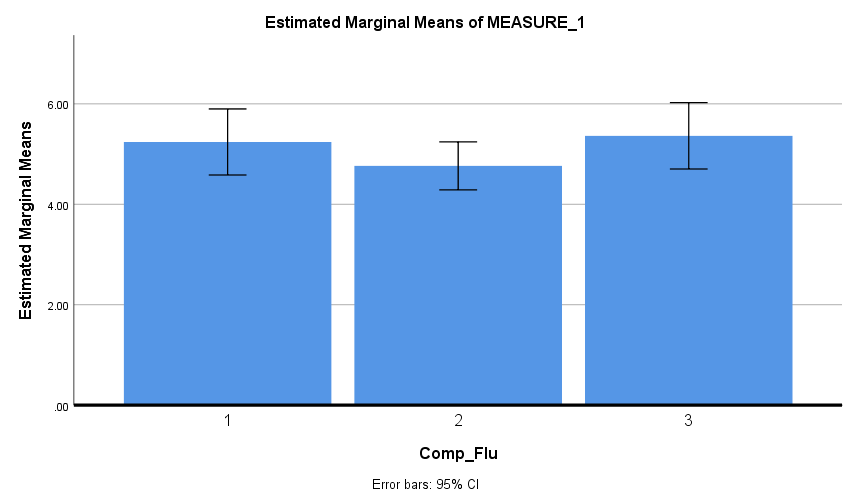
**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 5.241 | .330 | 4.583 | 5.898 |
| 2 | 4.764 | .240 | 4.287 | 5.242 |
| 3 | 5.363 | .332 | 4.702 | 6.024 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | .476 | .299 | .346 | -.256 |  |
| 3 | -.122 | .344 | 1.000 | -.966 |  |
| 2 | 1 | -.476 | .299 | .346 | -1.209 |  |
| 3 | -.599 | .285 | .117 | -1.296 |  |
| 3 | 1 | .122 | .344 | 1.000 | -.721 |  |
| 2 | .599 | .285 | .117 | -.099 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .067 | 2.673a | 2.000 | 74.000 | .076 | .067 |  |  |
| Wilks' lambda | .933 | 2.673a | 2.000 | 74.000 | .076 | .067 |  |  |
| Hotelling's trace | .072 | 2.673a | 2.000 | 74.000 | .076 | .067 |  |  |
| Roy's largest root | .072 | 2.673a | 2.000 | 74.000 | .076 | .067 |  |  |

**Profile Plots**



GLM O2\_LCLF1 O2\_MCMF1 O2\_HCHF1

/WSFACTOR=Comp\_Flu 3 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)

/PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER

/CRITERIA=ALPHA(.05)

/WSDESIGN=Comp\_Flu.

**General Linear Model**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 04-OCT-2019 14:14:07 |
| Comments | |  |
| Input | Data | E:\Master's by Research\Tammy's MSc Data - Study 1\Study\_1\_EEG\_Data\Study\_1\_EEG\_Alpha\_Data\_Outlier\_Analysis\_Updated\_Tammy.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 144 |
| 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 O2\_LCLF1 O2\_MCMF1 O2\_HCHF1  /WSFACTOR=Comp\_Flu 3 Polynomial  /METHOD=SSTYPE(3)  /PLOT=PROFILE(Comp\_Flu) TYPE=BAR ERRORBAR=CI MEANREFERENCE=NO  /EMMEANS=TABLES(OVERALL)  /EMMEANS=TABLES(Comp\_Flu) COMPARE ADJ(BONFERRONI)  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  /CRITERIA=ALPHA(.05)  /WSDESIGN=Comp\_Flu. |
| Resources | Processor Time | 00:00:00.22 |
| Elapsed Time | 00:00:00.24 |

|  |  |
| --- | --- |
| **Within-Subjects Factors** | |
| Measure: MEASURE\_1 | |
| Comp\_Flu | Dependent Variable |
| 1 | O2\_LCLF1 |
| 2 | O2\_MCMF1 |
| 3 | O2\_HCHF1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| O2\_LCLF1 | 4.6051 | 2.27635 | 78 |
| O2\_MCMF1 | 4.7897 | 2.53190 | 78 |
| O2\_HCHF1 | 5.0282 | 2.62411 | 78 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Testsa** | | | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. |  |  |  |
| Comp\_Flu | Pillai's Trace | .037 | 1.459b | 2.000 | 76.000 | .239 |  |  |  |
| Wilks' Lambda | .963 | 1.459b | 2.000 | 76.000 | .239 |  |  |  |
| Hotelling's Trace | .038 | 1.459b | 2.000 | 76.000 | .239 |  |  |  |
| Roy's Largest Root | .038 | 1.459b | 2.000 | 76.000 | .239 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mauchly's Test of Sphericitya** | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | |
| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilonb |  |  |
| Greenhouse-Geisser |  |  |
| Comp\_Flu | .989 | .859 | 2 | .651 | .989 |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |  |  |  |  |
| Comp\_Flu | Sphericity Assumed | 7.018 | 2 | 3.509 | 1.434 |  |  |  |  |
| Greenhouse-Geisser | 7.018 | 1.978 | 3.549 | 1.434 |  |  |  |  |
| Huynh-Feldt | 7.018 | 2.000 | 3.509 | 1.434 |  |  |  |  |
| Lower-bound | 7.018 | 1.000 | 7.018 | 1.434 |  |  |  |  |
| Error(Comp\_Flu) | Sphericity Assumed | 376.748 | 154 | 2.446 |  |  |  |  |  |
| Greenhouse-Geisser | 376.748 | 152.288 | 2.474 |  |  |  |  |  |
| Huynh-Feldt | 376.748 | 154.000 | 2.446 |  |  |  |  |  |
| Lower-bound | 376.748 | 77.000 | 4.893 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | | | | | |
| Measure: MEASURE\_1 | | | | | | | | | |
| Source | Comp\_Flu | Type III Sum of Squares | df | Mean Square | F | Sig. |  |  |  |
| Comp\_Flu | Linear | 6.981 | 1 | 6.981 | 2.954 | .090 |  |  |  |
| Quadratic | .038 | 1 | .038 | .015 | .903 |  |  |  |
| Error(Comp\_Flu) | Linear | 181.959 | 77 | 2.363 |  |  |  |  |  |
| Quadratic | 194.789 | 77 | 2.530 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 5408.654 | 1 | 5408.654 | 398.121 | .000 | .838 |  |  |
| Error | 1046.079 | 77 | 13.585 |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter Estimates** | | | | | | | | | | |
| Dependent Variable | Parameter | B | Std. Error | t | Sig. | 95% Confidence Interval |  |  |  |  |
| Lower Bound |  |  |  |  |
| O2\_LCLF1 | Intercept | 4.605 | .258 | 17.867 | .000 | 4.092 |  |  |  |  |
| O2\_MCMF1 | Intercept | 4.790 | .287 | 16.708 | .000 | 4.219 |  |  |  |  |
| O2\_HCHF1 | Intercept | 5.028 | .297 | 16.923 | .000 | 4.437 |  |  |  |  |

**Estimated Marginal Means**

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 4.808 | .241 | 4.328 | 5.287 |

**2. Comp\_Flu**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Estimates** | | | | |
| Measure: MEASURE\_1 | | | | |
| Comp\_Flu | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 4.605 | .258 | 4.092 | 5.118 |
| 2 | 4.790 | .287 | 4.219 | 5.361 |
| 3 | 5.028 | .297 | 4.437 | 5.620 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pairwise Comparisons** | | | | | | |
| Measure: MEASURE\_1 | | | | | | |
| (I) Comp\_Flu | (J) Comp\_Flu | Mean Difference (I-J) | Std. Error | Sig.a | 95% Confidence Interval for Differencea |  |
| Lower Bound |  |
| 1 | 2 | -.185 | .242 | 1.000 | -.776 |  |
| 3 | -.423 | .246 | .269 | -1.026 |  |
| 2 | 1 | .185 | .242 | 1.000 | -.407 |  |
| 3 | -.238 | .263 | 1.000 | -.883 |  |
| 3 | 1 | .423 | .246 | .269 | -.179 |  |
| 2 | .238 | .263 | 1.000 | -.406 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Multivariate Tests** | | | | | | | | |
|  | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |  |  |
| Pillai's trace | .037 | 1.459a | 2.000 | 76.000 | .239 | .037 |  |  |
| Wilks' lambda | .963 | 1.459a | 2.000 | 76.000 | .239 | .037 |  |  |
| Hotelling's trace | .038 | 1.459a | 2.000 | 76.000 | .239 | .037 |  |  |
| Roy's largest root | .038 | 1.459a | 2.000 | 76.000 | .239 | .037 |  |  |

**Profile Plots**

