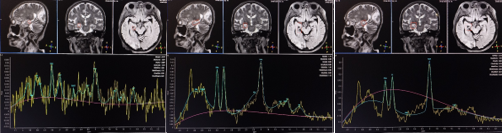
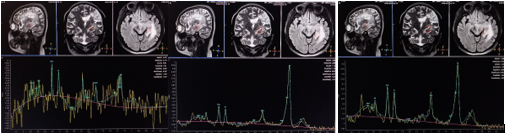
**Lampiran 9.** Hasil Spektrum

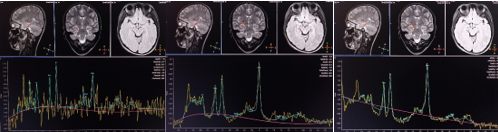
**Pasien 1**



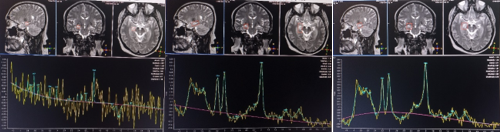
**Pasien 2**

****

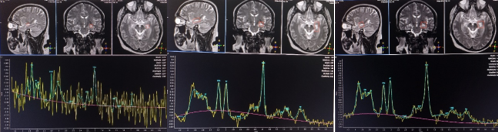
**Pasien 3**

****

**Pasien 4**

****

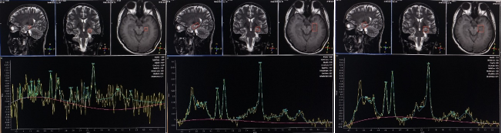
**Pasien 5**

****

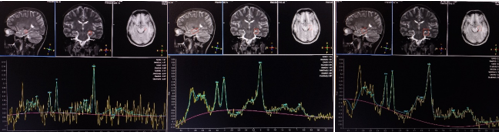
**Pasien 6**

****

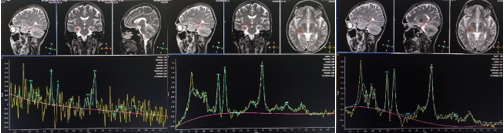
**Pasien 7**

****

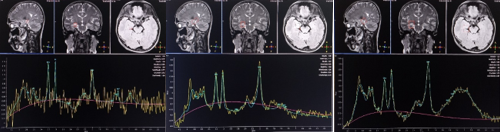
**Pasien 8**

****

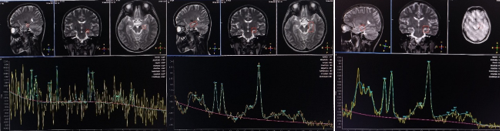
**Pasien 9**

****

**Pasien 10**

****

**Pasien 11**

****

**Lampiran 10*.*** Data Ketinggian Metabolit

Data Ketinggian Spektrum pada Setiap Metabolit

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sampel | VARIABEL | | | | | | | | | | | | | | | | | | | | |
| VOI A | | | | | | | VOI B | | | | | | | VOI C | | | | | | |
| NAA | Cho | Cr | ml | Glx | Lip | Lac | NAA | Cho | Cr | ml | Glx | Lip | Lac | NAA | Cho | Cr | ml | Glx | Lip | Lac |
| 1 | 0.065 | 0.053 | .035 | 0.173 | 0.215 | 0.259 | -0.066 | 0.240 | 0.268 | 0.280 | 0.007 | 0.127 | 0.062 | 0.006 | 0.390 | 0.244 | 0.276 | 0.152 | 0.000 | 0.026 | 0.009 |
| 2. | 0.034 | 0.066 | .049 | 0.140 | 0.013 | 0.024 | 0.039 | 0.147 | 0.256 | 0.223 | 0.030 | 0.061 | 0.116 | 0.167 | 0.102 | 0.021 | 0.011 | 0.030 | 0.061 | 0.807 | 0.515 |
| 3. | 0.082 | 0.075 | .105 | -0.069 | 0.045 | 0.010 | 0.006 | 0.435 | 0.263 | 0.358 | 0.050 | 0.064 | 0.022 | 0.005 | 0.556 | 0.291 | 0.417 | 0.142 | 0.114 | 0.034 | 0.040 |
| 4. | 0.055 | 0.071 | .020 | 0.028 | 0.009 | 0.002 | 0.000 | 0.290 | 0.228 | 0.263 | -0.051 | 0.239 | 0.011 | 0.000 | 0.266 | 0.277 | 0.263 | 0.040 | 0.014 | 0.011 | 0.000 |
| 5. | 0.057 | 0.043 | .028 | -0.197 | 0.012 | 0.014 | -0.014 | 0.337 | 0.209 | 0.221 | 0.008 | 0.066 | 0.116 | -0.077 | 0.403 | 0.237 | 0.281 | -0.229 | 0.075 | 0.060 | 0.020 |
| 6. | 0.030 | 0.054 | .015 | 0.015 | 0.034 | 0.002 | 0.010 | 0.272 | 0.206 | 0.262 | -0.026 | 0.123 | 0.057 | 0.000 | 0.373 | 0.361 | 0.348 | 0.051 | -0.001 | 0.025 | 0.025 |
| 7. | 0.068 | 0.049 | .038 | -0.004 | 0.036 | 0.021 | -0.005 | 0.393 | 0.255 | 0.322 | 0.002 | 0.085 | -0.004 | 0.040 | 0.345 | 0.246 | 0.332 | -0.011 | -0.027 | 0.000 | 0.040 |
| 8. | 0.111 | 0.044 | .076 | 0.013 | 0.034 | 0.017 | 0.009 | 0.264 | 0.191 | 0.229 | -0.110 | 0.173 | -0.042 | 0.040 | 0.273 | 0.178 | 0.074 | -0.045 | 0.057 | -0.042 | 0.040 |
| 9. | 0.064 | 0.072 | .050 | 0.018 | 0.021 | 0.022 | 0.005 | 0.422 | 0.364 | 0.459 | 0.036 | 0.062 | .137 | 0.021 | 0.453 | 0.358 | 0.395 | 0.549 | 0.062 | 0.073 | 0.028 |
| 10. | 0.066 | 0.086 | .092 | 0.022 | 0.086 | 0.002 | 0.013 | 0.352 | 0.278 | 0.301 | 0.003 | 0.183 | .025 | 0.013 | 0.354 | 0.287 | 0.352 | 0.105 | 0.106 | 0.000 | 0.000 |
| 11. | 0.047 | 0.032 | .061 | 0.047 | 0.014 | 0.041 | 0.028 | 0.413 | 0.250 | 0.249 | -0.032 | 0.025 | -.049 | 0.016 | 0.377 | 0.239 | 0.292 | 0.073 | 0.061 | 0.048 | 0.002 |

**Lampiran 11.** *Output* Uji Statistika

1. **NAA (N-*Acetylaspartate*)**

* Uji Deskriptif

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | |
|  | *Cases* | | | | | |
| *Valid* | | *Missing* | | Total | |
| N | *Percent* | N | *Percent* | N | *Percent* |
| *Standardized Residual for* NAA\_VOI\_A | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| *Standardized Residual for* NAA\_VOI\_B | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| *Standardized Residual for* NAA\_VOI\_C | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Descriptives*** | | | | |
|  | | | *Statistic* | *Std. Error* |
| *Standardized Residual for* NAA\_VOI\_A | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | -.0437 |  |
| *Median* | | .1019 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -1.42 |  |
| *Maximum* | | 2.21 |  |
| *Range* | | 3.63 |  |
| *Interquartile Range* | | .94 |  |
| *Skewness* | | .788 | .661 |
| *Kurtosis* | | 1.558 | 1.279 |
| *Standardized Residual for* NAA\_VOI\_B | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | .0408 |  |
| *Median* | | .1431 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -1.96 |  |
| *Maximum* | | 1.23 |  |
| *Range* | | 3.19 |  |
| *Interquartile Range* | | 1.65 |  |
| *Skewness* | | -.531 | .661 |
| *Kurtosis* | | -.337 | 1.279 |
| *Standardized Residual for* NAA\_VOI\_C | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | .0239 |  |
| *Median* | | .1663 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -2.18 |  |
| *Maximum* | | 1.75 |  |
| *Range* | | 3.94 |  |
| *Interquartile Range* | | 1.13 |  |
| *Skewness* | | -.617 | .661 |
| *Kurtosis* | | 1.940 | 1.279 |

* Uji Normalitas NAA (*N-Acetylaspartate*)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai metabolit N-*Acetylaspartate* pada ukuran VOI A | .207 | 11 | .200\* | .934 | 11 | .455 |
| nilai metabolit N-*Acetylaspartate* pada ukuran VOI B | .141 | 11 | .200\* | .942 | 11 | .548 |
| nilai metabolit N-*Acetylaspartate* pada ukuran VOI C | .197 | 11 | .200\* | .940 | 11 | .520 |
| \*. *This is a Lower Bound of the true significance*. | | | | | | |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji *Repeated Measure Anova* NAA (*N-Acetylaspartate*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Mauchly’s Test of Sphericitya*** | | | | | | | |
| *Measure*: NAA | | | | | | | |
| *Within Subjects Effect* | *Mauchly’s* W | *Approx. Chi-Square* | df | Sig. | Epsilonb | | |
| *Greenhouse-Geisser* | *Huynh-Feldt* | *Lower-bound* |
| Ukuran\_VOI | .720 | 2.958 | 2 | .228 | .781 | .900 | .500 |
| *Tests the null hypothesis that the error coVariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix*. | | | | | | | |
| a. *Design: Intercept*  *Within Subjects Design*: Ukuran\_VOI | | | | | | | |
| b. *May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table*. | | | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Within-Subjects Effects*** | | | | | | |
| *Measure*: NAA | | | | | | |
| *Source* | | *Type III Sum of Squares* | df | *Mean* Square | F | Sig. |
| Ukuran\_VOI | *Sphericity Assumed* | .568 | 2 | .284 | 68.312 | .000 |
| *Greenhouse-Geisser* | .568 | 1.562 | .364 | 68.312 | .000 |
| *Huynh-Feldt* | .568 | 1.800 | .316 | 68.312 | .000 |
| *Lower-bound* | .568 | 1.000 | .568 | 68.312 | .000 |
| Error(Ukuran\_VOI) | *Sphericity Assumed* | .083 | 20 | .004 |  |  |
| *Greenhouse-Geisser* | .083 | 15.624 | .005 |  |  |
| *Huynh-Feldt* | .083 | 17.999 | .005 |  |  |
| *Lower-bound* | .083 | 10.000 | .008 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Estimates*** | | | | |
| *Measure*: NAA | | | | |
| Ukuran\_VOI | *Mean* | *Std. Error* | *95% Confidence Interval* | |
| *Lower Bound* | *Upper Bound* |
| 1 | .062 | .007 | .047 | .077 |
| 2 | .324 | .027 | .263 | .385 |
| 3 | .354 | .035 | .276 | .431 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Pairwise Comparisons*** | | | | | | |
| *Measure*: NAA | | | | | | |
| (I) Ukuran\_VOI | (J) Ukuran\_VOI | *Mean Difference (I-J)* | *Std. Error* | Sig.b | *95% Confidence Interval* for Differenceb | |
| *Lower Bound* | *Upper Bound* |
| 1 | 2 | -.262\* | .026 | .000 | -.338 | -.187 |
| 3 | -.292\* | .034 | .000 | -.389 | -.196 |
| 2 | 1 | .262\* | .026 | .000 | .187 | .338 |
| 3 | -.030 | .021 | .571 | -.090 | .031 |
| 3 | 1 | .292\* | .034 | .000 | .196 | .389 |
| 2 | .030 | .021 | .571 | -.031 | .090 |
| Based on estimated marginal means | | | | | | |
| \*. The mean difference is significant at the .05 level. | | | | | | |
| b. Adjustment for multiple comparisons: Bonferroni. | | | | | | |

1. ***CHOLINE***

* Uji Deskriptif *Choline*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | |
|  | *Cases* | | | | | |
| *Valid* | | *Missing* | | Total | |
| N | *Percent* | N | *Percent* | N | *Percent* |
| *Standardized Residual for* CHO\_VOI\_A | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| *Standardized Residual for* CHO\_VOI\_B | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| *Standardized Residual for* CHO\_VOI\_C | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Descriptives*** | | | | |
|  | | | *Statistic* | *Std. Error* |
| *Standardized Residual for* CHO\_VOI\_A | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | -.0025 |  |
| *Median* | | -.2813 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -1.62 |  |
| *Maximum* | | 1.66 |  |
| *Range* | | 3.28 |  |
| *Interquartile Range* | | 1.70 |  |
| *Skewness* | | .069 | .661 |
| *Kurtosis* | | -.913 | 1.279 |
| *Standardized Residual for* CHO\_VOI\_B | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | -.0614 |  |
| *Median* | | .0719 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -1.30 |  |
| *Maximum* | | 2.40 |  |
| *Range* | | 3.70 |  |
| *Interquartile Range* | | 1.26 |  |
| *Skewness* | | 1.235 | .661 |
| *Kurtosis* | | 2.778 | 1.279 |
| *Standardized Residual for* CHO\_VOI\_C | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | .0696 |  |
| *Median* | | -.0324 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -2.46 |  |
| *Maximum* | | 1.21 |  |
| *Range* | | 3.67 |  |
| *Interquartile Range* | | .58 |  |
| *Skewness* | | -1.442 | .661 |
| *Kurtosis* | | 3.399 | 1.279 |

* Uji Normalitas *Choline*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai metabolit Choline pada ukuran VOI A | .156 | 11 | .200\* | .966 | 11 | .848 |
| nilai metabolit Choline pada ukuran VOI B | .196 | 11 | .200\* | .889 | 11 | .137 |
| nilai metabolit Choline pada ukuran VOI C | .267 | 11 | .028 | .860 | 11 | .057 |
| \*. *This is a Lower Bound of the true significance*. | | | | | | |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji *Repeated Measure Anova* *Choline*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Mauchly’s Test of Sphericity*a** | | | | | | | |
| *Measure*: Choline | | | | | | | |
| *Within Subjects Effect* | *Mauchly’s* W | *Approx. Chi-Square* | df | Sig. | Epsilonb | | |
| *Greenhouse-Geisser* | *Huynh-Feldt* | *Lower-bound* |
| Ukuran\_VOI | .476 | 6.677 | 2 | .035 | .656 | .716 | .500 |
| *Tests the null hypothesis that the error coVariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix*. | | | | | | | |
| a. *Design: Intercept*  *Within Subjects Design*: Ukuran\_VOI | | | | | | | |
| b. *May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table*. | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Within-Subjects Effects*** | | | | | | | | | | |
| *Measure*: Choline | | | | | | | | | | |
| *Source* | | | | *Type III Sum of Squares* | | df | *Mean* Square | | F | Sig. |
| Ukuran\_VOI | *Sphericity Assumed* | | | .269 | | 2 | .135 | | 43.981 | .000 |
| *Greenhouse-Geisser* | | | .269 | | 1.313 | .205 | | 43.981 | .000 |
| *Huynh-Feldt* | | | .269 | | 1.432 | .188 | | 43.981 | .000 |
| *Lower-bound* | | | .269 | | 1.000 | .269 | | 43.981 | .000 |
| Error(Ukuran\_VOI) | *Sphericity Assumed* | | | .061 | | 20 | .003 | |  |  |
| *Greenhouse-Geisser* | | | .061 | | 13.125 | .005 | |  |  |
| *Huynh-Feldt* | | | .061 | | 14.317 | .004 | |  |  |
| *Lower-bound* | | | .061 | | 10.000 | .006 | |  |  |
| ***Estimates*** | | | | | | | | | | |
| *Measure*: Choline | | | | | | | | | | |
| Ukuran\_VOI | | *Mean* | *Std. Error* | | *95% Confidence Interval* | | | | | |
| *Lower Bound* | | | *Upper Bound* | | |
| 1 | | .059 | .005 | | .048 | | | .070 | | |
| 2 | | .252 | .014 | | .220 | | | .283 | | |
| 3 | | .249 | .028 | | .187 | | | .311 | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Pairwise Comparisons*** | | | | | | |
| *Measure*: Choline | | | | | | |
| (I) Ukuran\_VOI | (J) Ukuran\_VOI | *Mean Difference (I-J)* | *Std. Error* | Sig.b | *95% Confidence Interval* *for Differenceb* | |
| *Lower Bound* | *Upper Bound* |
| 1 | 2 | -.193\* | .012 | .000 | -.229 | -.157 |
| 3 | -.190\* | .027 | .000 | -.269 | -.112 |
| 2 | 1 | .193\* | .012 | .000 | .157 | .229 |
| 3 | .003 | .028 | 1.000 | -.077 | .082 |
| 3 | 1 | .190\* | .027 | .000 | .112 | .269 |
| 2 | -.003 | .028 | 1.000 | -.082 | .077 |
| *Based on estimated marginal means* | | | | | | |
| *\*. The mean difference is significant at the .05 level.* | | | | | | |
| *b. Adjustment for multiple comparisons: Bonferroni.* | | | | | | |

1. ***CREATINE***

* Uji Deskriptif *Creatine*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | |
|  | *Cases* | | | | | |
| *Valid* | | *Missing* | | Total | |
| N | *Percent* | N | *Percent* | N | *Percent* |
| *Standardized Residual for* Cr\_VOI\_A | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| *Standardized Residual for* Cr\_VOI\_B | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| *Standardized Residual for* Cr\_VOI\_C | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |

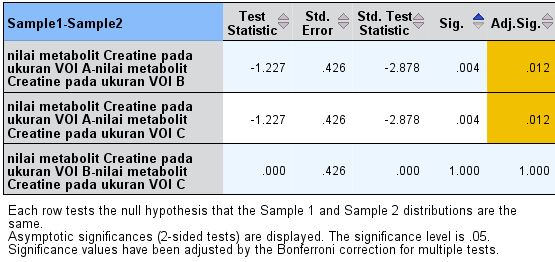
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Descriptives*** | | | | |
|  | | | *Statistic* | *Std. Error* |
| *Standardized Residual for* Cr\_VOI\_A | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | -.0315 |  |
| *Median* | | -.0934 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -1.26 |  |
| *Maximum* | | 1.82 |  |
| *Range* | | 3.08 |  |
| *Interquartile Range* | | 1.64 |  |
| *Skewness* | | .635 | .661 |
| *Kurtosis* | | -.565 | 1.279 |
| *Standardized Residual for* Cr\_VOI\_B | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | -.0814 |  |
| *Median* | | -.3504 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -.94 |  |
| *Maximum* | | 2.41 |  |
| *Range* | | 3.35 |  |
| *Interquartile Range* | | 1.31 |  |
| *Skewness* | | 1.539 | .661 |
| *Kurtosis* | | 2.545 | 1.279 |
| *Standardized Residual for* Cr\_VOI\_C | *Mean* | | .0000 | .30151 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.6718 |  |
| *Upper Bound* | .6718 |  |
| 5% *Trimmed Mean* | | .0549 |  |
| *Median* | | .1230 |  |
| *Variance* | | 1.000 |  |
| *Std. Deviation* | | 1.00000 |  |
| *Minimum* | | -2.10 |  |
| *Maximum* | | 1.11 |  |
| *Range* | | 3.21 |  |
| *Interquartile Range* | | .70 |  |
| *Skewness* | | -1.309 | .661 |
| *Kurtosis* | | 1.088 | 1.279 |

* Uji Normalitas *Creatine*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai metabolit Creatine pada ukuran VOI A | .160 | 11 | .200\* | .943 | 11 | .552 |
| nilai metabolit Creatine pada ukuran VOI B | .182 | 11 | .200\* | .854 | 11 | .048 |
| nilai metabolit Creatine pada ukuran VOI C | .276 | 11 | .019 | .847 | 11 | .039 |
| \*. *This is a Lower Bound of the true significance*. | | | | | | |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji *Friedman* *Creatine*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptive *Statistic*s** | | | | | | | | | | | |
|  | N | *Mean* | | | *Std. Deviation* | *Minimum* | | *Maximum* | *Percent*iles | | |
| 25th | 50th (*Median*) | 75th |
| nilai metabolit Creatine pada ukuran VOI A | 11 | .05173 | | | .029210 | .015 | | .105 | .02800 | .04900 | .07600 |
| nilai metabolit Creatine pada ukuran VOI B | 11 | .28791 | | | .071096 | .221 | | .459 | .22900 | .26300 | .32200 |
| nilai metabolit Creatine pada ukuran VOI C | 11 | .2765 | | | .12634 | .01 | | .42 | .2630 | .2920 | .3520 |
| ***Ranks*** | | | | | | |
|  | | | *Mean Rank* | | | |
| nilai metabolit Creatine pada ukuran VOI A | | | 1.18 | | | |
| nilai metabolit Creatine pada ukuran VOI B | | | 2.41 | | | |
| nilai metabolit Creatine pada ukuran VOI C | | | 2.41 | | | |
| **Test *Statistic*sa** | | | |
| N | 11 | | |
| *Chi-Square* | 11.302 | | |
| df | 2 | | |
| *Asymp.* Sig. | .004 | | |
| a. *Friedman* Test | | | |



1. ***MYO-INOSITOL***

* Uji Deskriptif *Myo-inositol*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | |
|  | *Cases* | | | | | |
| *Valid* | | *Missing* | | Total | |
| N | *Percent* | N | *Percent* | N | *Percent* |
| nilai metabolit Myo-Inositol pada ukuran VOI A | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| nilai metabolit Myo-Inositol pada ukuran VOI B | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| nilai metabolit Myo-Inositol pada ukuran VOI C | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Descriptives*** | | | | |
|  | | | *Statistic* | *Std. Error* |
| nilai metabolit Myo-Inositol pada ukuran VOI A | *Mean* | | .01691 | .029258 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.04828 |  |
| *Upper Bound* | .08210 |  |
| 5% *Trimmed Mean* | | .02012 |  |
| *Median* | | .01800 |  |
| *Variance* | | .009 |  |
| *Std. Deviation* | | .097039 |  |
| *Minimum* | | -.197 |  |
| *Maximum* | | .173 |  |
| *Range* | | .370 |  |
| *Interquartile Range* | | .051 |  |
| *Skewness* | | -.633 | .661 |
| *Kurtosis* | | 1.979 | 1.279 |
| nilai metabolit Myo-Inositol pada ukuran VOI B | *Mean* | | -.00755 | .013684 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.03803 |  |
| *Upper Bound* | .02294 |  |
| 5% *Trimmed Mean* | | -.00505 |  |
| *Median* | | .00300 |  |
| *Variance* | | .002 |  |
| *Std. Deviation* | | .045384 |  |
| *Minimum* | | -.110 |  |
| *Maximum* | | .050 |  |
| *Range* | | .160 |  |
| *Interquartile Range* | | .062 |  |
| *Skewness* | | -1.103 | .661 |
| *Kurtosis* | | 1.490 | 1.279 |
| nilai metabolit Myo-Inositol pada ukuran VOI C | *Mean* | | .07791 | .056724 |
| *95% Confidence Interval for Mean* | *Lower Bound* | -.04848 |  |
| *Upper Bound* | .20430 |  |
| 5% *Trimmed Mean* | | .06879 |  |
| *Median* | | .05100 |  |
| *Variance* | | .035 |  |
| *Std. Deviation* | | .188134 |  |
| *Minimum* | | -.229 |  |
| *Maximum* | | .549 |  |
| *Range* | | .778 |  |
| *Interquartile Range* | | .153 |  |
| *Skewness* | | 1.351 | .661 |
| *Kurtosis* | | 4.390 | 1.279 |

* Uji Normalitas *Myo-inositol*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai metabolit Myo-Inositol pada ukuran VOI A | .233 | 11 | .098 | .897 | 11 | .171 |
| nilai metabolit Myo-Inositol pada ukuran VOI B | .220 | 11 | .144 | .920 | 11 | .321 |
| nilai metabolit Myo-Inositol pada ukuran VOI C | .256 | 11 | .042 | .850 | 11 | .043 |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji *Friedman* *Myo-Inositol*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptive *Statistic*s** | | | | | | | | | | | | |
|  | | N | *Mean* | | | *Std. Deviation* | *Minimum* | | *Maximum* | *Percent*iles | | |
| 25th | 50th (*Median*) | 75th |
| nilai metabolit Myo-Inositol pada ukuran VOI A | | 11 | .01691 | | | .097039 | -.197 | | .173 | -.00400 | .01800 | .04700 |
| nilai metabolit Myo-Inositol pada ukuran VOI B | | 11 | -.00755 | | | .045384 | -.110 | | .050 | -.03200 | .00300 | .03000 |
| nilai metabolit Myo-Inositol pada ukuran VOI C | | 11 | .07791 | | | .188134 | -.229 | | .549 | -.01100 | .05100 | .14200 |
| ***Ranks*** | | | | | | | |
|  | | | | | *Mean Rank* | | |
| nilai metabolit Myo-Inositol pada ukuran VOI A | | | | | 2.09 | | |
| nilai metabolit Myo-Inositol pada ukuran VOI B | | | | | 1.59 | | |
| nilai metabolit Myo-Inositol pada ukuran VOI C | | | | | 2.32 | | |
| **Test *Statistic*sa** | | | |
| N | 11 | | |
| *Chi-Square* | 3.116 | | |
| df | 2 | | |
| *Asymp.* Sig. | .211 | | |
| a. *Friedman* Test | | | |

1. ***GLUTAMINE* DAN *GLUTAMATE***

* Uji Deskriptif *Glutamine* dan *Glutamate*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | |
|  | *Cases* | | | | | |
| *Valid* | | *Missing* | | Total | |
| N | *Percent* | N | *Percent* | N | *Percent* |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI A | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI B | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI C | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Descriptives*** | | | | |
|  | | | *Statistic* | *Std. Error* |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI A | *Mean* | | .04718 | .018040 |
| *95% Confidence Interval for Mean* | *Lower Bound* | .00699 |  |
| *Upper Bound* | .08738 |  |
| 5% *Trimmed Mean* | | .03998 |  |
| *Median* | | .03400 |  |
| *Variance* | | .004 |  |
| *Std. Deviation* | | .059831 |  |
| *Minimum* | | .009 |  |
| *Maximum* | | .215 |  |
| *Range* | | .206 |  |
| *Interquartile Range* | | .032 |  |
| *Skewness* | | 2.616 | .661 |
| *Kurtosis* | | 7.310 | 1.279 |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI B | *Mean* | | .10982 | .019772 |
| *95% Confidence Interval for Mean* | *Lower Bound* | .06576 |  |
| *Upper Bound* | .15387 |  |
| 5% *Trimmed Mean* | | .10735 |  |
| *Median* | | .08500 |  |
| *Variance* | | .004 |  |
| *Std. Deviation* | | .065577 |  |
| *Minimum* | | .025 |  |
| *Maximum* | | .239 |  |
| *Range* | | .214 |  |
| *Interquartile Range* | | .111 |  |
| *Skewness* | | .770 | .661 |
| *Kurtosis* | | -.257 | 1.279 |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI C | *Mean* | | .04745 | .013667 |
| *95% Confidence Interval for Mean* | *Lower Bound* | .01700 |  |
| *Upper Bound* | .07791 |  |
| 5% *Trimmed Mean* | | .04789 |  |
| *Median* | | .06100 |  |
| *Variance* | | .002 |  |
| *Std. Deviation* | | .045328 |  |
| *Minimum* | | -.027 |  |
| *Maximum* | | .114 |  |
| *Range* | | .141 |  |
| *Interquartile Range* | | .075 |  |
| *Skewness* | | -.191 | .661 |
| *Kurtosis* | | -.926 | 1.279 |

* Uji Normalitas *Glutamine* dan *Glutamate*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | |
|  | *Cases* | | | | | |
| *Valid* | | *Missing* | | Total | |
| N | *Percent* | N | *Percent* | N | *Percent* |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI A | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI B | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI C | 11 | 100.0% | 0 | 0.0% | 11 | 100.0% |

* Uji *Friedman Glutamine* dan *Glutamate*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptive *Statistic*s** | | | | | | | | | |
|  | N | *Mean* | | *Std. Deviation* | *Minimum* | *Maximum* | *Percent*iles | | |
| 25th | 50th (*Median*) | 75th |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI A | 11 | .04718 | | .059831 | .009 | .215 | .01300 | .03400 | .04500 |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI B | 11 | .10982 | | .065577 | .025 | .239 | .06200 | .08500 | .17300 |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI C | 11 | .04745 | | .045328 | -.027 | .114 | .00000 | .06100 | .07500 |
| ***Ranks*** | | | | |
|  | | | *Mean Rank* | |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI A | | | | 1.36 |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI B | | | | 2.55 |
| nilai metabolit *Glutamine* dan *Glutamate* pada ukuran VOI C | | | | 2.09 |

|  |  |
| --- | --- |
| **Test *Statistic*sa** | |
| N | 11 |
| *Chi-Square* | 8.190 |
| df | 2 |
| *Asymp.* Sig. | .017 |
| a. *Friedman* Test | |

1. ***LIPID***

* Uji Deskriptif *Lipid*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | | | | | |
|  | *Cases* | | | | | | | | | |
| *Valid* | | | *Missing* | | | | Total | | |
| N | | *Percent* | N | | *Percent* | | N | | *Percent* |
| nilai metabolit *Lipid* pada ukuran VOI A | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| nilai metabolit *Lipid* pada ukuran VOI B | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| nilai metabolit *Lipid* pada ukuran VOI C | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| ***Descriptives*** | | | | | | | | | | |
|  | | | | | | | *Statistic* | | *Std. Error* | |
| nilai metabolit *Lipid* pada ukuran VOI A | | *Mean* | | | | | .03764 | | .022417 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.01231 | |  | |
| *Upper Bound* | | .08759 | |  | |
| 5% *Trimmed Mean* | | | | | .02732 | |  | |
| *Median* | | | | | .01700 | |  | |
| *Variance* | | | | | .006 | |  | |
| *Std. Deviation* | | | | | .074350 | |  | |
| *Minimum* | | | | | .002 | |  | |
| *Maximum* | | | | | .259 | |  | |
| *Range* | | | | | .257 | |  | |
| *Interquartile Range* | | | | | .022 | |  | |
| *Skewness* | | | | | 3.169 | | .661 | |
| *Kurtosis* | | | | | 10.276 | | 1.279 | |
| nilai metabolit *Lipid* pada ukuran VOI B | | *Mean* | | | | | .04100 | | .018996 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.00133 | |  | |
| *Upper Bound* | | .08333 | |  | |
| 5% *Trimmed Mean* | | | | | .04067 | |  | |
| *Median* | | | | | .02500 | |  | |
| *Variance* | | | | | .004 | |  | |
| *Std. Deviation* | | | | | .063003 | |  | |
| *Minimum* | | | | | -.049 | |  | |
| *Maximum* | | | | | .137 | |  | |
| *Range* | | | | | .186 | |  | |
| *Interquartile Range* | | | | | .120 | |  | |
| *Skewness* | | | | | .152 | | .661 | |
| *Kurtosis* | | | | | -1.064 | | 1.279 | |
| nilai metabolit *Lipid* pada ukuran VOI C | | *Mean* | | | | | .09473 | | .071866 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.06540 | |  | |
| *Upper Bound* | | .25485 | |  | |
| 5% *Trimmed Mean* | | | | | .06275 | |  | |
| *Median* | | | | | .02600 | |  | |
| *Variance* | | | | | .057 | |  | |
| *Std. Deviation* | | | | | .238352 | |  | |
| *Minimum* | | | | | -.042 | |  | |
| *Maximum* | | | | | .807 | |  | |
| *Range* | | | | | .849 | |  | |
| *Interquartile Range* | | | | | .060 | |  | |
| *Skewness* | | | | | 3.208 | | .661 | |
| *Kurtosis* | | | | | 10.489 | | 1.279 | |

* Uji Normalitas *Lipid*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai metabolit *Lipid* pada ukuran VOI A | .391 | 11 | .000 | .487 | 11 | .000 |
| nilai metabolit *Lipid* pada ukuran VOI B | .156 | 11 | .200\* | .942 | 11 | .549 |
| nilai metabolit *Lipid* pada ukuran VOI C | .445 | 11 | .000 | .474 | 11 | .000 |
| \*. *This is a Lower Bound of the true significance*. | | | | | | |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji *Friedman* *Lipid*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Descriptive* *Statistic*s** | | | | | | | | | |
|  | N | *Mean* | *Std. Deviation* | *Minimum* | | *Maximum* | *Percent*iles | | |
| 25th | 50th (*Median*) | 75th |
| nilai metabolit *Lipid* pada ukuran VOI A | 11 | .03764 | .074350 | .002 | | .259 | .00200 | .01700 | .02400 |
| nilai metabolit *Lipid* pada ukuran VOI B | 11 | .04100 | .063003 | -.049 | | .137 | -.00400 | .02500 | .11600 |
| nilai metabolit *Lipid* pada ukuran VOI C | 11 | .09473 | .238352 | -.042 | | .807 | .00000 | .02600 | .06000 |
| ***Ranks*** | | | | |
|  | | | *Mean Rank* | |
| nilai metabolit *Lipid* pada ukuran VOI A | | | 1.73 | |
| nilai metabolit *Lipid* pada ukuran VOI B | | | 2.18 | |
| nilai metabolit *Lipid* pada ukuran VOI C | | | 2.09 | |

|  |  |
| --- | --- |
| **Test *Statistic*sa** | |
| N | 11 |
| *Chi-Square* | 1.333 |
| df | 2 |
| *Asymp.* Sig. | .513 |
| a. *Friedman* *Test* | |

1. ***LACTATE***

* Uji Deskriptif *Lactate*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | | | | | |
|  | *Cases* | | | | | | | | | |
| *Valid* | | | *Missing* | | | | Total | | |
| N | | *Percent* | N | | *Percent* | | N | | *Percent* |
| nilai metabolit *Lactate* pada ukuran VOI A | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| nilai metabolit *Lactate* pada ukuran VOI B | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| nilai metabolit *Lactate* pada ukuran VOI C | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| ***Descriptives*** | | | | | | | | | | |
|  | | | | | | | *Statistic* | | *Std. Error* | |
| nilai metabolit *Lactate* pada ukuran VOI A | | *Mean* | | | | | .00227 | | .008111 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.01580 | |  | |
| *Upper Bound* | | .02034 | |  | |
| 5% *Trimmed Mean* | | | | | .00403 | |  | |
| *Median* | | | | | .00600 | |  | |
| *Variance* | | | | | .001 | |  | |
| *Std. Deviation* | | | | | .026900 | |  | |
| *Minimum* | | | | | -.066 | |  | |
| *Maximum* | | | | | .039 | |  | |
| *Range* | | | | | .105 | |  | |
| *Interquartile Range* | | | | | .018 | |  | |
| *Skewness* | | | | | -1.597 | | .661 | |
| *Kurtosis* | | | | | 4.263 | | 1.279 | |
| nilai metabolit *Lactate* pada ukuran VOI B | | *Mean* | | | | | .02100 | | .017345 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.01765 | |  | |
| *Upper Bound* | | .05965 | |  | |
| 5% *Trimmed Mean* | | | | | .01833 | |  | |
| *Median* | | | | | .01300 | |  | |
| *Variance* | | | | | .003 | |  | |
| *Std. Deviation* | | | | | .057527 | |  | |
| *Minimum* | | | | | -.077 | |  | |
| *Maximum* | | | | | .167 | |  | |
| *Range* | | | | | .244 | |  | |
| *Interquartile Range* | | | | | .040 | |  | |
| *Skewness* | | | | | 1.385 | | .661 | |
| *Kurtosis* | | | | | 4.996 | | 1.279 | |
| nilai metabolit *Lactate* pada ukuran VOI C | | *Mean* | | | | | .0654 | | .04522 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.0354 | |  | |
| *Upper Bound* | | .1661 | |  | |
| 5% *Trimmed Mean* | | | | | .0440 | |  | |
| *Median* | | | | | .0250 | |  | |
| *Variance* | | | | | .022 | |  | |
| *Std. Deviation* | | | | | .14997 | |  | |
| *Minimum* | | | | | .00 | |  | |
| *Maximum* | | | | | .52 | |  | |
| *Range* | | | | | .52 | |  | |
| *Interquartile Range* | | | | | .04 | |  | |
| *Skewness* | | | | | 3.248 | | .661 | |
| *Kurtosis* | | | | | 10.672 | | 1.279 | |

* Uji Normalitas *Lactate*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai metabolit *Lactate* pada ukuran VOI A | .212 | 11 | .182 | .852 | 11 | .045 |
| nilai metabolit *Lactate* pada ukuran VOI B | .280 | 11 | .016 | .792 | 11 | .007 |
| nilai metabolit *Lactate* pada ukuran VOI C | .476 | 11 | .000 | .442 | 11 | .000 |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji Friedman *Lactate*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptive *Statistic*s** | | | | | | | | | | | |
|  | N | *Mean* | | *Std. Deviation* | | *Minimum* | | *Maximum* | *Percent*iles | | |
| 25th | 50th (*Median*) | 75th |
| nilai metabolit *Lactate* pada ukuran VOI A | 11 | .00227 | | .026900 | | -.066 | | .039 | -.00500 | .00600 | .01300 |
| nilai metabolit *Lactate* pada ukuran VOI B | 11 | .02100 | | .057527 | | -.077 | | .167 | .00000 | .01300 | .04000 |
| nilai metabolit *Lactate* pada ukuran VOI C | 11 | .0654 | | .14997 | | .00 | | .52 | .0020 | .0250 | .0400 |
| ***Ranks*** | | | | | | |
|  | | | | | *Mean Rank* | |
| nilai metabolit *Lactate* pada ukuran VOI A | | | | | 1.68 | |
| nilai metabolit *Lactate* pada ukuran VOI B | | | | | 1.86 | |
| nilai metabolit *Lactate* pada ukuran VOI C | | | | | 2.45 | |
| **Test *Statistic*sa** | | |
| N | 11 | |
| *Chi-Square* | 4.270 | |
| df | 2 | |
| *Asymp.* Sig. | .118 | |
| a. *Friedman* *Test* | | |

1. ***FULL WIDTH HALF MAXIMUM***

* Uji Deskriptif *Full Width Half Maximum*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Case Processing Summary*** | | | | | | | | | | |
|  | *Cases* | | | | | | | | | |
| *Valid* | | | *Missing* | | | | Total | | |
| N | | *Percent* | N | | *Percent* | | N | | *Percent* |
| *Standardized Residual for* FWHM\_VOI\_A | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| *Standardized Residual for* FWHM\_VOI\_B | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| *Standardized Residual for* FWHM\_VOI\_C | 11 | | 100.0% | 0 | | 0.0% | | 11 | | 100.0% |
| ***Descriptives*** | | | | | | | | | | |
|  | | | | | | | *Statistic* | | *Std. Error* | |
| *Standardized Residual for* FWHM\_VOI\_A | | *Mean* | | | | | .0000 | | .30151 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.6718 | |  | |
| *Upper Bound* | | .6718 | |  | |
| 5% *Trimmed Mean* | | | | | .0137 | |  | |
| *Median* | | | | | -.1234 | |  | |
| *Variance* | | | | | 1.000 | |  | |
| *Std. Deviation* | | | | | 1.00000 | |  | |
| *Minimum* | | | | | -2.16 | |  | |
| *Maximum* | | | | | 1.92 | |  | |
| *Range* | | | | | 4.08 | |  | |
| *Interquartile Range* | | | | | .68 | |  | |
| *Skewness* | | | | | -.379 | | .661 | |
| *Kurtosis* | | | | | 2.453 | | 1.279 | |
| *Standardized Residual for* FWHM\_VOI\_B | | *Mean* | | | | | .0000 | | .30151 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.6718 | |  | |
| *Upper Bound* | | .6718 | |  | |
| 5% *Trimmed Mean* | | | | | .0294 | |  | |
| *Median* | | | | | .2196 | |  | |
| *Variance* | | | | | 1.000 | |  | |
| *Std. Deviation* | | | | | 1.00000 | |  | |
| *Minimum* | | | | | -2.20 | |  | |
| *Maximum* | | | | | 1.67 | |  | |
| *Range* | | | | | 3.87 | |  | |
| *Interquartile Range* | | | | | 1.45 | |  | |
| *Skewness* | | | | | -.744 | | .661 | |
| *Kurtosis* | | | | | 1.754 | | 1.279 | |
| *Standardized Residual for* FWHM\_VOI\_C | | *Mean* | | | | | .0000 | | .30151 | |
| *95% Confidence Interval for Mean* | | | *Lower Bound* | | -.6718 | |  | |
| *Upper Bound* | | .6718 | |  | |
| 5% *Trimmed Mean* | | | | | -.0004 | |  | |
| *Median* | | | | | .0028 | |  | |
| *Variance* | | | | | 1.000 | |  | |
| *Std. Deviation* | | | | | 1.00000 | |  | |
| *Minimum* | | | | | -1.63 | |  | |
| *Maximum* | | | | | 1.63 | |  | |
| *Range* | | | | | 3.26 | |  | |
| *Interquartile Range* | | | | | 1.22 | |  | |
| *Skewness* | | | | | .408 | | .661 | |
| *Kurtosis* | | | | | -.090 | | 1.279 | |

* Uji Normalitas nilai *Full Width Half Maximum*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Tests of Normality*** | | | | | | |
|  | *Kolmogorov-Smirnova* | | | *Shapiro-Wilk* | | |
| *Statistic* | df | Sig. | *Statistic* | df | Sig. |
| nilai *Full Widht Half Maximum* VOI A | .269 | 11 | .025 | .892 | 11 | .145 |
| nilai *Full Widht Half Maximum* VOI B | .223 | 11 | .131 | .928 | 11 | .389 |
| nilai *Full Widht Half Maximum* VOI C | .158 | 11 | .200\* | .938 | 11 | .497 |
| \*. *This is a Lower Bound of the true significance*. | | | | | | |
| a. *Lilliefors Significance Correction* | | | | | | |

* Uji *Repeated Measure Anova Full Width Half Maximum*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Mauchly’s Test of Sphericity*a** | | | | | | | | | | | | | |
| *Measure*: FWHM | | | | | | | | | | | | | |
| *Within Subjects Effect* | | *Mauchly’s* W | *Approx. Chi-Square* | | | df | Sig. | | Epsilonb | | | | |
| *Greenhouse-Geisser* | *Huynh-Feldt* | | | *Lower-bound* |
| Ukuran | | .671 | 3.592 | | | 2 | .166 | | .752 | .857 | | | .500 |
| *Tests the null hypothesis that the error coVariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.* | | | | | | | | | | | | | |
| *a. Design: Intercept*  *Within Subjects Design: Ukuran* | | | | | | | | | | | | | |
| *b. May be used to adjust the degrees of freedom for the averaged Tests of significance. Corrected Tests are displayed in the Tests of Within-Subjects Effects table.* | | | | | | | | | | | | | |
| ***Tests of Within-Subjects Effects*** | | | | | | | | | | | | | |
| *Measure*: FWHM | | | | | | | | | | | | | |
| *Source* | | | | | *Type III Sum of Squares* | | | | df | *Mean* Square | | F | Sig. |
| Ukuran | | *Sphericity Assumed* | | | 191.587 | | | | 2 | 95.793 | | 18.504 | .000 |
| *Greenhouse-Geisser* | | | 191.587 | | | | 1.505 | 127.314 | | 18.504 | .000 |
| *Huynh-Feldt* | | | 191.587 | | | | 1.713 | 111.835 | | 18.504 | .000 |
| *Lower-bound* | | | 191.587 | | | | 1.000 | 191.587 | | 18.504 | .002 |
| Error(Ukuran) | | *Sphericity Assumed* | | | 103.538 | | | | 20 | 5.177 | |  |  |
| *Greenhouse-Geisser* | | | 103.538 | | | | 15.048 | 6.880 | |  |  |
| *Huynh-Feldt* | | | 103.538 | | | | 17.131 | 6.044 | |  |  |
| *Lower-bound* | | | 103.538 | | | | 10.000 | 10.354 | |  |  |
| ***Estimates*** | | | | | | | | | | | | | |
| *Measure*: FWHM | | | | | | | | | | | | | |
| Ukuran | *Mean* | | | *Std. Error* | | | | *95% Confidence Interval* | | | | | |
| *Lower Bound* | | | *Upper Bound* | | |
| 1 | 15.985 | | | .866 | | | | 14.055 | | | 17.914 | | |
| 2 | 20.603 | | | 1.218 | | | | 17.889 | | | 23.317 | | |
| 3 | 21.476 | | | 1.446 | | | | 18.255 | | | 24.697 | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Pairwise Comparisons*** | | | | | | |
| *Measure*: FWHM | | | | | | |
| (I) Ukuran | (J) Ukuran | *Mean Difference (I-J)* | *Std. Error* | Sig.b | *95% Confidence Interval* for Differenceb | |
| *Lower Bound* | *Upper Bound* |
| 1 | 2 | -4.618\* | .995 | .003 | -7.475 | -1.761 |
| 3 | -5.492\* | 1.176 | .003 | -8.866 | -2.118 |
| 2 | 1 | 4.618\* | .995 | .003 | 1.761 | 7.475 |
| 3 | -.874 | .671 | .667 | -2.801 | 1.054 |
| 3 | 1 | 5.492\* | 1.176 | .003 | 2.118 | 8.866 |
| 2 | .874 | .671 | .667 | -1.054 | 2.801 |
| *Based on estimated marginal means* | | | | | | |
| *\*. The mean difference is significant at the .05 level.* | | | | | | |
| *b. Adjustment for multiple comparisons: Bonferroni.* | | | | | | |