**Lampiran Manuskrip Jurnal SKIPM Jogja.**

**Pengujian Statistika**

**2.1. Pengujian Normalitas dan Homogenitas Data**

EXAMINE VARIABLES=jml\_ikan\_invasif BY FasilitasPembenihan LokasiSurvei

/PLOT NPPLOT SPREADLEVEL(1)

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

**FasilitasPembenihan**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | | |
|  | FasilitasPembenihan | Cases | | | | | |
|  | Valid | | Missing | | Total | |
|  | N | Percent | N | Percent | N | Percent |
| jml\_ikan\_invasif | AdaFasPembenihan | 12 | 100,0% | 0 | 0,0% | 12 | 100,0% |
| TidakAdaFasPembenihan | 12 | 100,0% | 0 | 0,0% | 12 | 100,0% |

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| **Descriptives** | | | | | |
|  | FasilitasPembenihan | | | Statistic | Std. Error |
| jml\_ikan\_invasif | AdaFasPembenihan | Mean | | 6,5833 | ,83900 |
| 95% Confidence Interval for Mean | Lower Bound | 4,7367 |  |
| Upper Bound | 8,4300 |  |
| 5% Trimmed Mean | | 6,5370 |  |
| Median | | 6,5000 |  |
| Variance | | 8,447 |  |
| Std. Deviation | | 2,90637 |  |
| Minimum | | 2,00 |  |
| Maximum | | 12,00 |  |
| Range | | 10,00 |  |
| Interquartile Range | | 3,75 |  |
| Skewness | | ,498 | ,637 |
| Kurtosis | | -,075 | 1,232 |
| TidakAdaFasPembenihan | Mean | | 8,0833 | ,58333 |
| 95% Confidence Interval for Mean | Lower Bound | 6,7994 |  |
| Upper Bound | 9,3672 |  |
| 5% Trimmed Mean | | 7,9259 |  |
| Median | | 8,0000 |  |
| Variance | | 4,083 |  |
| Std. Deviation | | 2,02073 |  |
| Minimum | | 6,00 |  |
| Maximum | | 13,00 |  |
| Range | | 7,00 |  |
| Interquartile Range | | 2,75 |  |
| Skewness | | 1,293 | ,637 |
| Kurtosis | | 2,190 | 1,232 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
|  | FasilitasPembenihan | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| jml\_ikan\_invasif | AdaFasPembenihan | ,146 | 12 | ,200\* | ,958 | 12 | ,748 |
| TidakAdaFasPembenihan | ,183 | 12 | ,200\* | ,877 | 12 | ,080 |
| \*. This is a lower bound of the true significance. | | | | | | | |
| a. Lilliefors Significance Correction | | | | | | | |

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| **Test of Homogeneity of Variance** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| jml\_ikan\_invasif | Based on Mean | 1,646 | 1 | 22 | ,213 |
| Based on Median | 1,724 | 1 | 22 | ,203 |
| Based on Median and with adjusted df | 1,724 | 1 | 21,044 | ,203 |
| Based on trimmed mean | 1,682 | 1 | 22 | ,208 |

**LokasiSurvei**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | | |
|  | LokasiSurvei | Cases | | | | | |
|  | Valid | | Missing | | Total | |
|  | N | Percent | N | Percent | N | Percent |
| jml\_ikan\_invasif | DalamSatuKompleks | 12 | 100,0% | 0 | 0,0% | 12 | 100,0% |
| Mandiri | 12 | 100,0% | 0 | 0,0% | 12 | 100,0% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | |
|  | LokasiSurvei | | | Statistic | Std. Error |
| jml\_ikan\_invasif | DalamSatuKompleks | Mean | | 6,3333 | ,56854 |
| 95% Confidence Interval for Mean | Lower Bound | 5,0820 |  |
| Upper Bound | 7,5847 |  |
| 5% Trimmed Mean | | 6,4259 |  |
| Median | | 6,5000 |  |
| Variance | | 3,879 |  |
| Std. Deviation | | 1,96946 |  |
| Minimum | | 2,00 |  |
| Maximum | | 9,00 |  |
| Range | | 7,00 |  |
| Interquartile Range | | 2,75 |  |
| Skewness | | -,901 | ,637 |
| Kurtosis | | ,780 | 1,232 |
| Mandiri | Mean | | 8,3333 | ,80088 |
| 95% Confidence Interval for Mean | Lower Bound | 6,5706 |  |
| Upper Bound | 10,0961 |  |
| 5% Trimmed Mean | | 8,3148 |  |
| Median | | 8,0000 |  |
| Variance | | 7,697 |  |
| Std. Deviation | | 2,77434 |  |
| Minimum | | 4,00 |  |
| Maximum | | 13,00 |  |
| Range | | 9,00 |  |
| Interquartile Range | | 4,50 |  |
| Skewness | | ,199 | ,637 |
| Kurtosis | | -,774 | 1,232 |

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| **Tests of Normality** | | | | | | | |
|  | LokasiSurvei | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| jml\_ikan\_invasif | DalamSatuKompleks | ,183 | 12 | ,200\* | ,932 | 12 | ,403 |
| Mandiri | ,131 | 12 | ,200\* | ,976 | 12 | ,961 |
| \*. This is a lower bound of the true significance. | | | | | | | |
| a. Lilliefors Significance Correction | | | | | | | |

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| **Test of Homogeneity of Variance** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| jml\_ikan\_invasif | Based on Mean | 1,676 | 1 | 22 | ,209 |
| Based on Median | 1,285 | 1 | 22 | ,269 |
| Based on Median and with adjusted df | 1,285 | 1 | 20,192 | ,270 |
| Based on trimmed mean | 1,651 | 1 | 22 | ,212 |

**2.2. Pengujian analisa varian dua arah**

UNIANOVA jmlh\_ikn\_inv BY FasilitasPembenihan LokasiSurvei

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/POSTHOC=FasilitasPembenihan LokasiSurvei(SCHEFFE)

/PLOT=PROFILE(FasilitasPembenihan\*LokasiSurvei)

/EMMEANS=TABLES(FasilitasPembenihan)

/EMMEANS=TABLES(LokasiSurvei)

/EMMEANS=TABLES(FasilitasPembenihan\*LokasiSurvei)

/PRINT=ETASQ HOMOGENEITY DESCRIPTIVE

/CRITERIA=ALPHA(.05)

/DESIGN=FasilitasPembenihan LokasiSurvei FasilitasPembenihan\*LokasiSurvei.

|  |  |  |  |
| --- | --- | --- | --- |
| **Between-Subjects Factors** | | | |
|  | | Value Label | N |
| FasilitasPembenihan | 1,00 | AdaFasPembenihan | 12 |
| 2,00 | TidakAdaFasPembenihan | 12 |
| LokasiSurvei | 11,00 | DalamSatuKompleks | 12 |
| 22,00 | Mandiri | 12 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Descriptive Statistics** | | | | |
| Dependent Variable: jmlh\_ikn\_inv | | | | |
| FasilitasPembenihan | LokasiSurvei | Mean | Std. Deviation | N |
| AdaFasPembenihan | DalamSatuKompleks | 5,5000 | 2,34521 | 6 |
| Mandiri | 11,0000 | 6,89928 | 6 |
| Total | 8,2500 | 5,69090 | 12 |
| TidakAdaFasPembenihan | DalamSatuKompleks | 6,5000 | 1,87083 | 6 |
| Mandiri | 9,0000 | 2,36643 | 6 |
| Total | 7,7500 | 2,41680 | 12 |
| Total | DalamSatuKompleks | 6,0000 | 2,08893 | 12 |
| Mandiri | 10,0000 | 5,02720 | 12 |
| Total | 8,0000 | 4,28344 | 24 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Levene's Test of Equality of Error Variancesa** | | | |
| Dependent Variable: jmlh\_ikn\_inv | | | |
| F | df1 | df2 | Sig. |
| 2,094 | 3 | 20 | ,133 |
| Tests the null hypothesis that the error variance of the dependent variable is equal across groups. | | | |
| a. Design: Intercept + FasilitasPembenihan + LokasiSurvei + FasilitasPembenihan \* LokasiSurvei | | | |

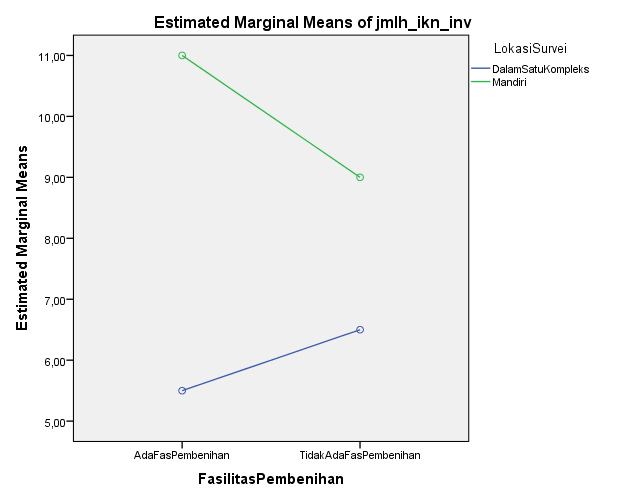
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Tests of Between-Subjects Effects** | | | | | |
| Dependent Variable: jmlh\_ikn\_inv | | | | | |
|  | | | | | |
| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
| Corrected Model | 111,000a | 3 | 37,000 | 2,379 | ,100 |
| Intercept | 1536,000 | 1 | 1536,000 | 98,778 | ,000 |
| FasilitasPembenihan | 1,500 | 1 | 1,500 | ,096 | ,759 |
| LokasiSurvei | 96,000 | 1 | 96,000 | 6,174 | ,022 |
| FasilitasPembenihan \* LokasiSurvei | 13,500 | 1 | 13,500 | ,868 | ,363 |
| Error | 311,000 | 20 | 15,550 |  |  |
| Total | 1958,000 | 24 |  |  |  |
| Corrected Total | 422,000 | 23 |  |  |  |
| a. R Squared = ,263 (Adjusted R Squared = ,152) | | | | | |

**Estimated Marginal Means**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1. FasilitasPembenihan** | | | | |
| Dependent Variable: jmlh\_ikn\_inv | | | | |
| FasilitasPembenihan | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| AdaFasPembenihan | 8,250 | 1,138 | 5,875 | 10,625 |
| TidakAdaFasPembenihan | 7,750 | 1,138 | 5,375 | 10,125 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2. LokasiSurvei** | | | | |
| Dependent Variable: jmlh\_ikn\_inv | | | | |
| LokasiSurvei | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| DalamSatuKompleks | 6,000 | 1,138 | 3,625 | 8,375 |
| Mandiri | 10,000 | 1,138 | 7,625 | 12,375 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3. FasilitasPembenihan \* LokasiSurvei** | | | | | |
| Dependent Variable: jmlh\_ikn\_inv | | | | | |
| FasilitasPembenihan | LokasiSurvei | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| AdaFasPembenihan | DalamSatuKompleks | 5,500 | 1,610 | 2,142 | 8,858 |
| Mandiri | 11,000 | 1,610 | 7,642 | 14,358 |
| TidakAdaFasPembenihan | DalamSatuKompleks | 6,500 | 1,610 | 3,142 | 9,858 |
| Mandiri | 9,000 | 1,610 | 5,642 | 12,358 |

**Profile Plot**