**LAMPIRAN 15**

**ANALISIS STATISTIK INFERENSIAL NONPARAMETRIK**

***WILCOXON SIGNED RANK TEST***

**NPar Tests**

| **Descriptive Statistics** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  | N | Mean | Std. Deviation | Minimum | Maximum |
| pretest | 20 | 75.8000 | 10.34459 | 57.00 | 97.00 |
| posttest | 20 | 1.1070E2 | 8.89766 | 96.00 | 125.00 |

**Wilcoxon Signed Ranks Test**

| **Ranks** | | | | |
| --- | --- | --- | --- | --- |
|  |  | N | Mean Rank | Sum of Ranks |
| posttest - pretest | Negative Ranks | 1a | 1.00 | 1.00 |
| Positive Ranks | 19b | 11.00 | 209.00 |
| Ties | 0c |  |  |
| Total | 20 |  |  |
| a. posttest < pretest | |  |  |  |
| b. posttest > pretest | |  |  |  |
| c. posttest = pretest | |  |  |  |

| **Test Statisticsb** | |
| --- | --- |
|  | posttest - pretest |
| Z | -3.884a |
| Asymp. Sig. (2-tailed) | .000 |
| a. Based on negative ranks. | |
| b. Wilcoxon Signed Ranks Test | |