**Lampiran 16**

**UJI WILCOXON SIGNED RANKS TEST**

| **Descriptive Statistics** | | | | | |
| --- | --- | --- | --- | --- | --- |
|  | N | Mean | Std. Deviation | Minimum | Maximum |
| Pretest | 20 | 94.9000 | 21.35637 | 46.00 | 122.00 |
| Posttest | 20 | 1.2550E2 | 8.44487 | 111.00 | 138.00 |

**Wilcoxon Signed Ranks Test**

| **Ranks** | | | | |
| --- | --- | --- | --- | --- |
|  |  | N | Mean Rank | Sum of Ranks |
| Posttest - Pretest | Negative Ranks | 0a | .00 | .00 |
| Positive Ranks | 20b | 10.50 | 210.00 |
| Ties | 0c |  |  |
| Total | 20 |  |  |
| a. Posttest < Pretest | |  |  |  |
| b. Posttest > Pretest | |  |  |  |
| c. Posttest = Pretest | |  |  |  |

| **Test Statisticsb** | |
| --- | --- |
|  | Posttest - Pretest |
| Z | 3.924a |
| Asymp. Sig. (2-tailed) | .000 |
| a. Based on negative ranks. | |
| b. Wilcoxon Signed Ranks Test | |