

**Case Processing Summary**

|           | Cases |         |         |         |       |         |
|-----------|-------|---------|---------|---------|-------|---------|
|           | Valid |         | Missing |         | Total |         |
|           | N     | Percent | N       | Percent | N     | Percent |
| Sebelum_1 | 9     | 50.0%   | 9       | 50.0%   | 18    | 100.0%  |
| Sesudah_1 | 9     | 50.0%   | 9       | 50.0%   | 18    | 100.0%  |
| Selisih_1 | 9     | 50.0%   | 9       | 50.0%   | 18    | 100.0%  |
| Sebelum_2 | 9     | 50.0%   | 9       | 50.0%   | 18    | 100.0%  |
| Sesudah_2 | 9     | 50.0%   | 9       | 50.0%   | 18    | 100.0%  |
| Selisih_2 | 9     | 50.0%   | 9       | 50.0%   | 18    | 100.0%  |

**Tests of Normality**

|           | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|---------------------------------|----|-------|--------------|----|------|
|           | Statistic                       | Df | Sig.  | Statistic    | df | Sig. |
| Sebelum_1 | .247                            | 9  | .120  | .780         | 9  | .012 |
| Sesudah_1 | .181                            | 9  | .200* | .950         | 9  | .689 |
| Selisih_1 | .164                            | 9  | .200* | .938         | 9  | .562 |
| Sebelum_2 | .194                            | 9  | .200* | .921         | 9  | .397 |
| Sesudah_2 | .171                            | 9  | .200* | .896         | 9  | .228 |
| Selisih_2 | .204                            | 9  | .200* | .907         | 9  | .293 |

a. Lilliefors Significance Correction

\*. This is a lower bound of the true significance.

**Independent Samples Test**

|           |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |         |
|-----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|---------|
|           |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |         |
|           |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper   |
| Sebelum_1 | Equal variances assumed     | 6.570                                   | .021 | -.295                        | 16     | .772            | -.66667         | 2.26078               | -5.45930                                  | 4.12597 |
|           | Equal variances not assumed |   |      | -.295                        | 12.126 | .773            | -.66667         | 2.26078               | -5.58680                                  | 4.25347 |

Uji Hipotesis I

**Test Statistics<sup>b</sup>**

|                        |                       |
|------------------------|-----------------------|
|                        | Sesudah_1 - Sebelum_1 |
| Z                      | -3.724 <sup>a</sup>   |
| Asymp. Sig. (2-tailed) | .000                  |

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

|                       |                | N              | Mean Rank | Sum of Ranks |
|-----------------------|----------------|----------------|-----------|--------------|
| Sesudah_2 - Sebelum_2 | Negative Ranks | 0 <sup>a</sup> | .00       | .00          |
|                       | Positive Ranks | 9 <sup>b</sup> | 5.00      | 45.00        |
|                       | Ties           | 0 <sup>c</sup> |           |              |
|                       | Total          | 9              |           |              |

- a. Sesudah\_2 < Sebelum\_2
- b. Sesudah\_2 > Sebelum\_2
- c. Sesudah\_2 = Sebelum\_2

Test Statistics<sup>b</sup>

|                        | Sesudah_2 -<br>Sebelum_2 |
|------------------------|--------------------------|
| Z                      | -2.670 <sup>a</sup>      |
| Asymp. Sig. (2-tailed) | .008                     |

- a. Based on negative ranks.
- b. Wilcoxon Signed Ranks Test

Ranks

|           | Sampel | N              | Mean Rank | Sum of Ranks |
|-----------|--------|----------------|-----------|--------------|
| Selisih_1 | 1      | 9              | 14.00     | 126.00       |
|           | 2      | 9              | 5.00      | 45.00        |
|           | Total  | 18             |           |              |
| Selisih_2 | 1      | 9              | 5.00      | 45.00        |
|           | 2      | 0 <sup>a</sup> | .00       | .00          |
|           | Total  | 9              |           |              |

a. Mann-Whitney Test cannot be performed on empty groups.

Test Statistics<sup>b</sup>

|                                | Selisih_1         |
|--------------------------------|-------------------|
| Mann-Whitney U                 | .000              |
| Wilcoxon W                     | 45.000            |
| Z                              | -3.580            |
| Asymp. Sig. (2-tailed)         | .000              |
| Exact Sig. [2*(1-tailed Sig.)] | .000 <sup>a</sup> |

a. Not corrected for ties.

b. Grouping Variable: Sampel