



## Nonparametric Correlations

### Correlations

|                 |         |                         | PBM    | KONTROL |
|-----------------|---------|-------------------------|--------|---------|
| Kendall's tau_b | PBM     | Correlation Coefficient | 1.000  | .558**  |
|                 |         | Sig. (2-tailed)         | .      | .003    |
|                 |         | N                       | 20     | 20      |
|                 | KONTROL | Correlation Coefficient | .558** | 1.000   |
|                 |         | Sig. (2-tailed)         | .003   | .       |
|                 |         | N                       | 20     | 20      |
| Spearman's rho  | PBM     | Correlation Coefficient | 1.000  | .676**  |
|                 |         | Sig. (2-tailed)         | .      | .001    |
|                 |         | N                       | 20     | 20      |
|                 | KONTROL | Correlation Coefficient | .676** | 1.000   |
|                 |         | Sig. (2-tailed)         | .001   | .       |
|                 |         | N                       | 20     | 20      |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

### Descriptive Statistics

|         | Mean  | Std. Deviation | N  |
|---------|-------|----------------|----|
| PBM     | 69.00 | 12.524         | 20 |
| KONTROL | 51.50 | 13.089         | 20 |

### Correlations

|         |                     | PBM    | KONTROL |
|---------|---------------------|--------|---------|
| PBM     | Pearson Correlation | 1      | .652**  |
|         | Sig. (2-tailed)     |        | .002    |
|         | N                   | 20     | 20      |
| KONTROL | Pearson Correlation | .652** | 1       |
|         | Sig. (2-tailed)     | .002   |         |
|         | N                   | 20     | 20      |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

## Nonparametric Correlations

### Correlations

|                 |         |                         | KONTROL | INKUIRI |
|-----------------|---------|-------------------------|---------|---------|
| Kendall's tau_b | KONTROL | Correlation Coefficient | 1.000   | .539**  |
|                 |         | Sig. (2-tailed)         | .       | .004    |
|                 |         | N                       | 20      | 20      |
|                 | INKUIRI | Correlation Coefficient | .539**  | 1.000   |
|                 |         | Sig. (2-tailed)         | .004    | .       |
|                 |         | N                       | 20      | 20      |
| Spearman's rho  | KONTROL | Correlation Coefficient | 1.000   | .667**  |
|                 |         | Sig. (2-tailed)         | .       | .001    |
|                 |         | N                       | 20      | 20      |
|                 | INKUIRI | Correlation Coefficient | .667**  | 1.000   |
|                 |         | Sig. (2-tailed)         | .001    | .       |
|                 |         | N                       | 20      | 20      |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

### Descriptive Statistics

|         | Mean  | Std. Deviation | N  |
|---------|-------|----------------|----|
| KONTROL | 51.50 | 13.089         | 20 |
| INKUIRI | 68.00 | 13.992         | 20 |

### Correlations

|         |                     | KONTROL | INKUIRI |
|---------|---------------------|---------|---------|
| KONTROL | Pearson Correlation | 1       | .621**  |
|         | Sig. (2-tailed)     |         | .003    |
|         | N                   | 20      | 20      |
| INKUIRI | Pearson Correlation | .621**  | 1       |
|         | Sig. (2-tailed)     | .003    |         |
|         | N                   | 20      | 20      |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

## Nonparametric Correlations

### Correlations

|                 |         |                         | KONTROL | INKUIRI |
|-----------------|---------|-------------------------|---------|---------|
| Kendall's tau_b | KONTROL | Correlation Coefficient | 1.000   | .539**  |
|                 |         | Sig. (2-tailed)         | .       | .004    |
|                 |         | N                       | 20      | 20      |
|                 | INKUIRI | Correlation Coefficient | .539**  | 1.000   |
|                 |         | Sig. (2-tailed)         | .004    | .       |
|                 |         | N                       | 20      | 20      |
| Spearman's rho  | KONTROL | Correlation Coefficient | 1.000   | .667**  |
|                 |         | Sig. (2-tailed)         | .       | .001    |
|                 |         | N                       | 20      | 20      |
|                 | INKUIRI | Correlation Coefficient | .667**  | 1.000   |
|                 |         | Sig. (2-tailed)         | .001    | .       |
|                 |         | N                       | 20      | 20      |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

### Descriptive Statistics

|         | Mean  | Std. Deviation | N  |
|---------|-------|----------------|----|
| KONTROL | 51.50 | 13.089         | 20 |
| INKUIRI | 68.00 | 13.992         | 20 |

### Correlations

|         |                     | KONTROL | INKUIRI |
|---------|---------------------|---------|---------|
| KONTROL | Pearson Correlation | 1       | .621**  |
|         | Sig. (2-tailed)     |         | .003    |
|         | N                   | 20      | 20      |
| INKUIRI | Pearson Correlation | .621**  | 1       |
|         | Sig. (2-tailed)     | .003    |         |
|         | N                   | 20      | 20      |

\*\* . Correlation is significant at the 0.01 level (2-tailed).

## Nonparametric Correlations

### Correlations

|                 |         |                         | INKUIRI           | PBM               |
|-----------------|---------|-------------------------|-------------------|-------------------|
| Kendall's tau_b | INKUIRI | Correlation Coefficient | 1.000             | .430 <sup>*</sup> |
|                 |         | Sig. (2-tailed)         | .                 | .020              |
|                 |         | N                       | 20                | 20                |
|                 | PBM     | Correlation Coefficient | .430 <sup>*</sup> | 1.000             |
|                 |         | Sig. (2-tailed)         | .020              | .                 |
|                 |         | N                       | 20                | 20                |
| Spearman's rho  | INKUIRI | Correlation Coefficient | 1.000             | .543 <sup>*</sup> |
|                 |         | Sig. (2-tailed)         | .                 | .013              |
|                 |         | N                       | 20                | 20                |
|                 | PBM     | Correlation Coefficient | .543 <sup>*</sup> | 1.000             |
|                 |         | Sig. (2-tailed)         | .013              | .                 |
|                 |         | N                       | 20                | 20                |

\*. Correlation is significant at the 0.05 level (2-tailed).

### Descriptive Statistics

|         | Mean  | Std. Deviation | N  |
|---------|-------|----------------|----|
| INKUIRI | 68.00 | 13.992         | 20 |
| PBM     | 69.00 | 12.524         | 20 |

**Correlations**

|         |                     | INKUIRI           | PBM               |
|---------|---------------------|-------------------|-------------------|
| INKUIRI | Pearson Correlation | 1                 | .529 <sup>*</sup> |
|         | Sig. (2-tailed)     |                   | .017              |
|         | N                   | 20                | 20                |
| PBM     | Pearson Correlation | .529 <sup>*</sup> | 1                 |
|         | Sig. (2-tailed)     | .017              |                   |
|         | N                   | 20                | 20                |

\*. Correlation is significant at the 0.05 level (2-tailed).

## NPar Tests

### Descriptive Statistics

|         | N  | Mean  | Std. Deviation | Minimum | Maximum |
|---------|----|-------|----------------|---------|---------|
| INKUIRI | 20 | 68.00 | 13.992         | 40      | 90      |
| PBM     | 20 | 69.00 | 12.524         | 50      | 90      |
| KONTROL | 20 | 51.50 | 13.089         | 30      | 80      |

### One-Sample Kolmogorov-Smirnov Test

|                                 | INKUIRI        | PBM    | KONTROL |        |
|---------------------------------|----------------|--------|---------|--------|
| N                               | 20             | 20     | 20      |        |
| Normal Parameters <sup>a</sup>  | Mean           | 68.00  | 69.00   | 51.50  |
|                                 | Std. Deviation | 13.992 | 12.524  | 13.089 |
| Most Extreme Differences        | Absolute       | .157   | .164    | .210   |
|                                 | Positive       | .116   | .164    | .210   |
|                                 | Negative       | -.157  | -.160   | -.142  |
| Kolmogorov-Smirnov Z            | .701           | .733   | .940    |        |
| Asymp. Sig. (2-tailed)          | .709           | .656   | .340    |        |
| a. Test distribution is Normal. |                |        |         |        |

## Crosstabs

### Case Processing Summary

|                  | Cases |         |         |         |       |         |
|------------------|-------|---------|---------|---------|-------|---------|
|                  | Valid |         | Missing |         | Total |         |
|                  | N     | Percent | N       | Percent | N     | Percent |
| PBM *<br>KONTROL | 20    | 100.0%  | 0       | .0%     | 20    | 100.0%  |

### PBM \* KONTROL Crosstabulation

| Count |    | KONTROL |    |    |    |    |    | Total |
|-------|----|---------|----|----|----|----|----|-------|
|       |    | 30      | 40 | 50 | 60 | 70 | 80 |       |
| PBM   | 50 | 0       | 3  | 0  | 0  | 0  | 0  | 3     |
|       | 60 | 1       | 1  | 2  | 1  | 0  | 0  | 5     |
|       | 70 | 0       | 3  | 1  | 1  | 0  | 0  | 5     |
|       | 80 | 0       | 0  | 0  | 3  | 1  | 1  | 5     |
|       | 90 | 0       | 0  | 1  | 0  | 1  | 0  | 2     |
| Total |    | 1       | 7  | 4  | 5  | 2  | 1  | 20    |

### Chi-Square Tests

|                                 | Value               | df | Asymp. Sig. (2-sided) |
|---------------------------------|---------------------|----|-----------------------|
| Pearson Chi-Square              | 25.586 <sup>a</sup> | 20 | .180                  |
| Likelihood Ratio                | 27.529              | 20 | .121                  |
| Linear-by-Linear<br>Association | 8.072               | 1  | .004                  |
| N of Valid Cases                | 20                  |    |                       |

a. 30 cells (100.0%) have expected count less than 5. The minimum expected count is .10.



## Crosstabs

### Case Processing Summary

|                      | Cases |         |         |         |       |         |
|----------------------|-------|---------|---------|---------|-------|---------|
|                      | Valid |         | Missing |         | Total |         |
|                      | N     | Percent | N       | Percent | N     | Percent |
| INKUIRI *<br>KONTROL | 20    | 100.0%  | 0       | .0%     | 20    | 100.0%  |

### INKUIRI \* KONTROL Crosstabulation

| Count   |    |         |    |    |    |    |    |       |
|---------|----|---------|----|----|----|----|----|-------|
|         |    | KONTROL |    |    |    |    |    |       |
|         |    | 30      | 40 | 50 | 60 | 70 | 80 | Total |
| INKUIRI | 40 | 0       | 1  | 0  | 0  | 0  | 0  | 1     |
|         | 50 | 0       | 2  | 1  | 0  | 0  | 0  | 3     |
|         | 60 | 0       | 3  | 0  | 1  | 0  | 0  | 4     |
|         | 70 | 1       | 1  | 2  | 1  | 0  | 0  | 5     |
|         | 80 | 0       | 0  | 0  | 3  | 1  | 1  | 5     |
|         | 90 | 0       | 0  | 1  | 0  | 1  | 0  | 2     |
| Total   |    | 1       | 7  | 4  | 5  | 2  | 1  | 20    |

### Chi-Square Tests

|                                 | Value               | df | Asymp. Sig. (2-sided) |
|---------------------------------|---------------------|----|-----------------------|
| Pearson Chi-Square              | 25.833 <sup>a</sup> | 25 | .417                  |
| Likelihood Ratio                | 28.714              | 25 | .276                  |
| Linear-by-Linear<br>Association | 7.321               | 1  | .007                  |
| N of Valid Cases                | 20                  |    |                       |

a. 36 cells (100.0%) have expected count less than 5. The minimum expected count is .05.

## Crosstabs

### Case Processing Summary

|                  | Cases |         |         |         |       |         |
|------------------|-------|---------|---------|---------|-------|---------|
|                  | Valid |         | Missing |         | Total |         |
|                  | N     | Percent | N       | Percent | N     | Percent |
| PBM *<br>INKUIRI | 20    | 100.0%  | 0       | .0%     | 20    | 100.0%  |

### PBM \* INKUIRI Crosstabulation

| Count |    |         |    |    |    |    |    |       |
|-------|----|---------|----|----|----|----|----|-------|
|       |    | INKUIRI |    |    |    |    |    | Total |
|       |    | 40      | 50 | 60 | 70 | 80 | 90 |       |
| PBM   | 50 | 0       | 1  | 1  | 1  | 0  | 0  | 3     |
|       | 60 | 1       | 1  | 0  | 2  | 1  | 0  | 5     |
|       | 70 | 0       | 1  | 3  | 0  | 0  | 1  | 5     |
|       | 80 | 0       | 0  | 0  | 1  | 4  | 0  | 5     |
|       | 90 | 0       | 0  | 0  | 1  | 0  | 1  | 2     |
| Total |    | 1       | 3  | 4  | 5  | 5  | 2  | 20    |

### Chi-Square Tests

|                              | Value               | df | Asymp. Sig. (2-sided) |
|------------------------------|---------------------|----|-----------------------|
| Pearson Chi-Square           | 27.489 <sup>a</sup> | 20 | .122                  |
| Likelihood Ratio             | 29.993              | 20 | .070                  |
| Linear-by-Linear Association | 5.309               | 1  | .021                  |
| N of Valid Cases             | 20                  |    |                       |

a. 30 cells (100.0%) have expected count less than 5. The minimum expected count is .10.

**Paired Samples Test**

|                      | Paired Differences |                |                 |   |        | t     | df | Sig. (2-tailed) |
|----------------------|--------------------|----------------|-----------------|---|--------|-------|----|-----------------|
|                      | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |        |       |    |                 |
|                      |                    |                |                 | Lower                                     | Upper  |       |    |                 |
| Pair 1 PBM - Kontrol | 17.500             | 10.699         | 2.392           | 12.493                                    | 22.507 | 7.315 | 19 | .000            |

**Paired Samples Test**

|                          | Paired Differences |                |                 |   |        | t     | df | Sig. (2-tailed) |
|--------------------------|--------------------|----------------|-----------------|---|--------|-------|----|-----------------|
|                          | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |        |       |    |                 |
|                          |                    |                |                 | Lower                                     | Upper  |       |    |                 |
| Pair 1 Inkuiri - Kontrol | 16.500             | 11.821         | 2.643           | 10.968                                    | 22.032 | 6.242 | 19 | .000            |

**Paired Samples Test**

|                      | Paired Differences |                |                 |   |       | t    | df | Sig. (2-tailed) |
|----------------------|--------------------|----------------|-----------------|---|-------|------|----|-----------------|
|                      | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |       |      |    |                 |
|                      |                    |                |                 | Lower                                     | Upper |      |    |                 |
| Pair 1 PBM - Inkuiri | 1.000              | 12.937         | 2.893           | -5.055                                    | 7.055 | .346 | 19 | .733            |

## T-Test ( Pretes Dan Postes Kelas Inkuiri)

**Paired Samples Statistics**

|        |            | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|------------|-------|----|----------------|-----------------|
| Pair 1 | PretesINKU | 37.50 | 20 | 14.096         | 3.152           |
|        | PostesINKU | 68.00 | 20 | 13.992         | 3.129           |

**Paired Samples Correlations**

|        |                         | N  | Correlation | Sig. |
|--------|-------------------------|----|-------------|------|
| Pair 1 | PretesINKU & postesINKU | 20 | .747        | .000 |

**Paired Samples Test**

|        |                            | Paired Differences |                |                 |   |         | t       | df | Sig. (2-tailed) |
|--------|----------------------------|--------------------|----------------|-----------------|---|---------|---------|----|-----------------|
|        |                            | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |         |         |    |                 |
|        |                            |                    |                |                 | Lower                                     | Upper   |         |    |                 |
| Pair 1 | PretesINKU -<br>PostesINKU | -30.500            | 9.987          | 2.233           | -35.174                                   | -25.826 | -13.658 | 19 | .000            |

## T-Test ( Pretes dan Postes Kelas PBM)

**Paired Samples Statistics**

|        |           | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|-----------|-------|----|----------------|-----------------|
| Pair 1 | PretesPBM | 33.00 | 20 | 11.743         | 2.626           |
|        | PostesPBM | 69.00 | 20 | 12.524         | 2.800           |

**Paired Samples Correlations**

|        |                       | N  | Correlation | Sig. |
|--------|-----------------------|----|-------------|------|
| Pair 1 | PretesPBM & PostesPBM | 20 | .129        | .588 |

**Paired Samples Test**

|        |                       | Paired Differences |                |                 |   | t       | df      | Sig. (2-tailed) |       |
|--------|-----------------------|--------------------|----------------|-----------------|---|---------|---------|-----------------|-------|
|        |                       | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |         |         |                 |       |
|        |                       |                    |                |                 | Lower                                     |         |         |                 | Upper |
| Pair 1 | PretesPBM - PostesPBM | -36.000            | 16.026         | 3.584           | -43.501                                   | -28.499 | -10.046 | 19              | .000  |

## T-Test Kelas PBM dan Inkuiri

**Paired Samples Statistics**

|        |         | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|---------|-------|----|----------------|-----------------|
| Pair 1 | PBM     | 69.00 | 20 | 12.524         | 2.800           |
|        | Inkuiri | 68.00 | 20 | 13.992         | 3.129           |

**Paired Samples Correlations**

|        |               | N  | Correlation | Sig. |
|--------|---------------|----|-------------|------|
| Pair 1 | PBM & Inkuiri | 20 | .529        | .017 |

**Paired Samples Test**

|        |               | Paired Differences |                |                 |   |       | t    | df | Sig. (2-tailed) |
|--------|---------------|--------------------|----------------|-----------------|---|-------|------|----|-----------------|
|        |               | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |       |      |    |                 |
|        |               |                    |                |                 | Lower                                     | Upper |      |    |                 |
| Pair 1 | PBM - Inkuiri | 1.000              | 12.937         | 2.893           | -5.055                                    | 7.055 | .346 | 19 | .733            |

## T-Test Kelas PBM dan Kelas Kontrol

**Paired Samples Statistics**

|        |         | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|---------|-------|----|----------------|-----------------|
| Pair 1 | PBM     | 69.00 | 20 | 12.524         | 2.800           |
|        | Kontrol | 51.50 | 20 | 13.089         | 2.927           |

**Paired Samples Correlations**

|        |               | N  | Correlation | Sig. |
|--------|---------------|----|-------------|------|
| Pair 1 | PBM & Kontrol | 20 | .652        | .002 |

**Paired Samples Test**

|        |               | Paired Differences |                |                 |   |        | t     | df | Sig. (2-tailed) |
|--------|---------------|--------------------|----------------|-----------------|---|--------|-------|----|-----------------|
|        |               | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |        |       |    |                 |
|        |               |                    |                |                 | Lower                                     | Upper  |       |    |                 |
| Pair 1 | PBM - Kontrol | 17.500             | 10.699         | 2.392           | 12.493                                    | 22.507 | 7.315 | 19 | .000            |

**T-Test**  
**Kelas Inkuiri dan Kelas Kontrol**

**Paired Samples Statistics**

|        |         | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|---------|-------|----|----------------|-----------------|
| Pair 1 | Inkuiri | 68.00 | 20 | 13.992         | 3.129           |
|        | Kontrol | 51.50 | 20 | 13.089         | 2.927           |

**Paired Samples Correlations**

|        |                   | N  | Correlation | Sig. |
|--------|-------------------|----|-------------|------|
| Pair 1 | Inkuiri & Kontrol | 20 | .621        | .003 |

**Paired Samples Test**

|        |                   | Paired Differences |                |                 |   |        | t     | df | Sig. (2-tailed) |
|--------|-------------------|--------------------|----------------|-----------------|---|--------|-------|----|-----------------|
|        |                   | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |        |       |    |                 |
|        |                   |                    |                |                 | Lower                                     | Upper  |       |    |                 |
| Pair 1 | Inkuiri - Kontrol | 16.500             | 11.821         | 2.643           | 10.968                                    | 22.032 | 6.242 | 19 | .000            |



## Regression

**Descriptive Statistics**

|         | Mean  | Std. Deviation | N  |
|---------|-------|----------------|----|
| KONTROL | 51.50 | 13.089         | 20 |
| PBM     | 69.00 | 12.524         | 20 |
| INKUIRI | 68.00 | 13.992         | 20 |

**Correlations**

|                     |         | KONTROL | PBM   | INKUIRI |
|---------------------|---------|---------|-------|---------|
| Pearson Correlation | KONTROL | 1.000   | .652  | .621    |
|                     | PBM     | .652    | 1.000 | .529    |
|                     | INKUIRI | .621    | .529  | 1.000   |
| Sig. (1-tailed)     | KONTROL | .       | .001  | .002    |
|                     | PBM     | .001    | .     | .008    |
|                     | INKUIRI | .002    | .008  | .       |
| N                   | KONTROL | 20      | 20    | 20      |
|                     | PBM     | 20      | 20    | 20      |
|                     | INKUIRI | 20      | 20    | 20      |

**Variables Entered/Removed<sup>b</sup>**

| Model | Variables Entered         | Variables Removed | Method |
|-------|---------------------------|-------------------|--------|
| 1     | INKUIRI, PBM <sup>a</sup> |                   | Enter  |

a. All requested variables entered.

b. Dependent Variable: KONTROL

**Model Summary<sup>b</sup>**

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .728 <sup>a</sup> | .531     | .475              | 9.479                      |

a. Predictors: (Constant), INKUIRI, PBM

b. Dependent Variable: KONTROL

**ANOVA<sup>b</sup>**

| Model |            | Sum of Squares | df | Mean Square | F     | Sig.              |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1     | Regression | 1727.434       | 2  | 863.717     | 9.612 | .002 <sup>a</sup> |
|       | Residual   | 1527.566       | 17 | 89.857      |       |                   |
|       | Total      | 3255.000       | 19 |             |       |                   |

a. Predictors: (Constant), INKUIRI, PBM

b. Dependent Variable: KONTROL

**Coefficients<sup>a</sup>**

| Model |            | Unstandardized Coefficients |            | Standardized Coefficients | t     | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|-------|------|
|       |            | B                           | Std. Error | Beta                      |       |      |
| 1     | (Constant) | -5.273                      | 13.151     |                           | -.401 | .693 |
|       | PBM        | .469                        | .205       | .449                      | 2.295 | .035 |
|       | INKUIRI    | .359                        | .183       | .383                      | 1.958 | .067 |

a. Dependent Variable: KONTROL

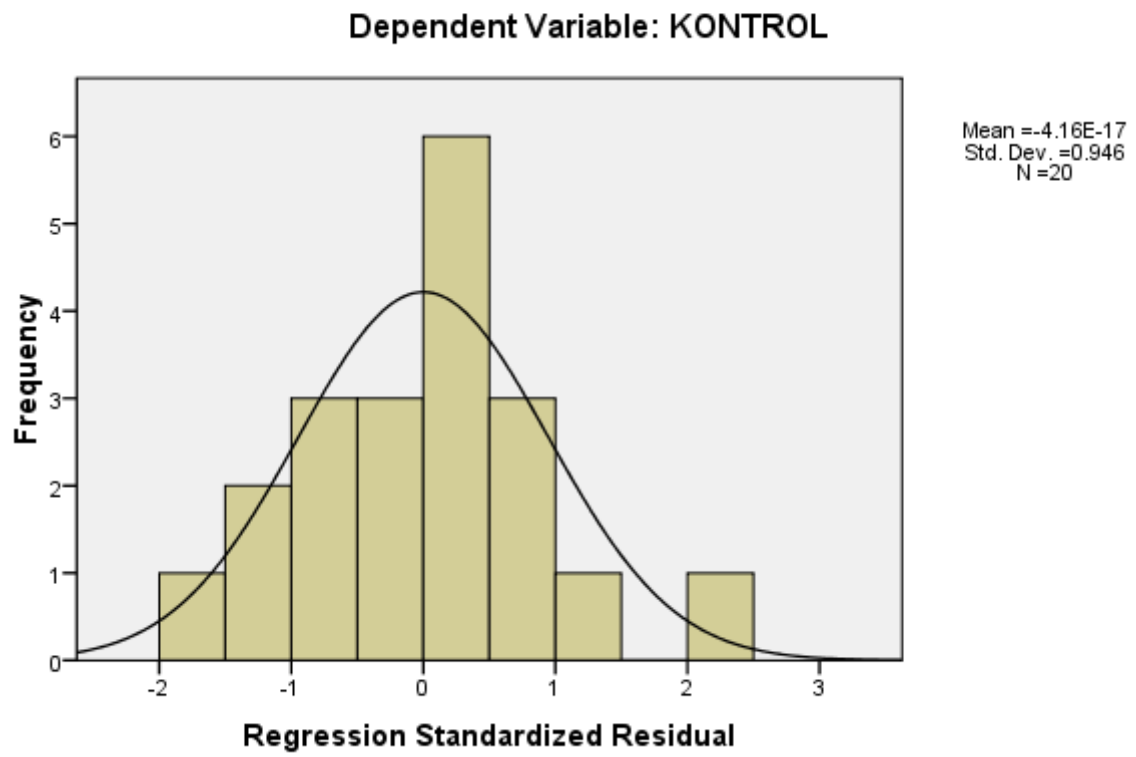
**Residuals Statistics<sup>a</sup>**

|                      | Minimum | Maximum | Mean  | Std. Deviation | N  |
|----------------------|---------|---------|-------|----------------|----|
| Predicted Value      | 36.13   | 69.25   | 51.50 | 9.535          | 20 |
| Residual             | -17.992 | 19.034  | .000  | 8.967          | 20 |
| Std. Predicted Value | -1.612  | 1.861   | .000  | 1.000          | 20 |
| Std. Residual        | -1.898  | 2.008   | .000  | .946           | 20 |

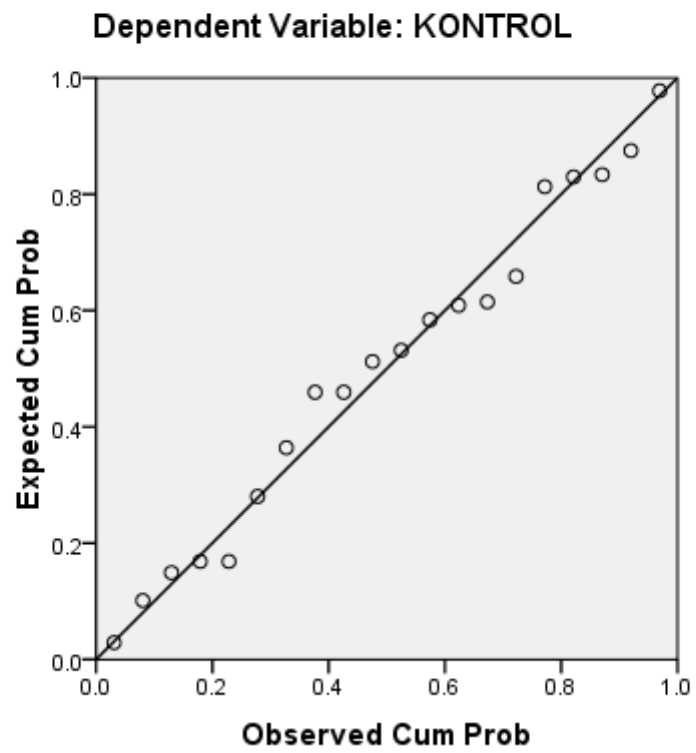
a. Dependent Variable: KONTROL

## Charts

### Histogram

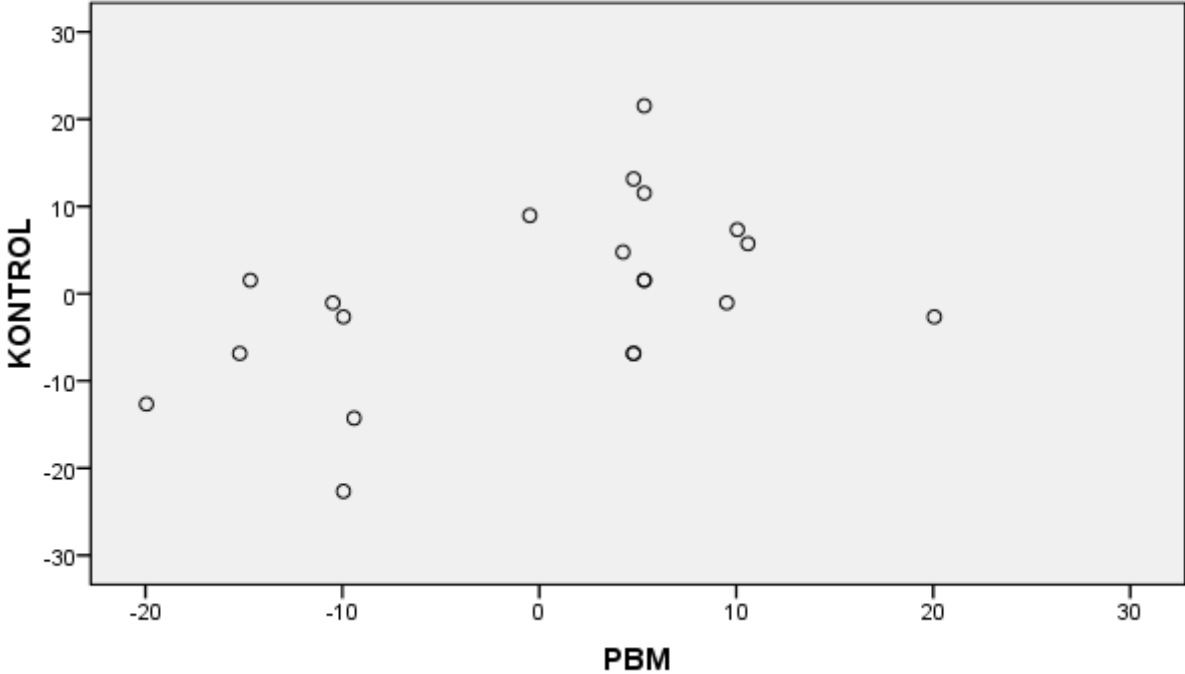


## Normal P-P Plot of Regression Standardized Residual



### Partial Regression Plot

Dependent Variable: KONTROL



### Partial Regression Plot

Dependent Variable: KONTROL

