

## Explore Kelompok

### Tests of Normality<sup>c</sup>

	Kelompok	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
NO 8 mgg	Kelompok 1	.524	10	.000	.366	10	.000
	Kelompok 2	.227	10	.154	.876	10	.116
Osteocalcin 0 mgg	Kelompok 1	.212	10	.200*	.908	10	.268
	Kelompok 2	.177	10	.200*	.962	10	.809
Osteocalcin 8 mgg	Kelompok 1	.256	10	.063	.875	10	.113
	Kelompok 2	.293	10	.015	.868	10	.094
Delta NO 8	Kelompok 1	.524	10	.000	.366	10	.000
	Kelompok 2	.227	10	.154	.876	10	.116
Delta Os 8	Kelompok 1	.323	10	.004	.764	10	.005
	Kelompok 2	.171	10	.200*	.923	10	.380

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

a. Lilliefors Significance Correction

b. NO 0 mgg is constant when Kelompok = Kelompok 1. It has been omitted.

c. NO 0 mgg is constant when Kelompok = Kelompok 2. It has been omitted.

## Tables

			Count	Mean	SD	Min	Max	Med
Kelompok	Kelompok 1	NO 0 mgg	10	2.4	.0	2.4	2.4	2.4
		NO 8 mgg	10	2.44	.13	2.40	2.80	2.40
		Osteocalcin 0 mgg	10	84.17	2.29	81.20	88.20	83.50
		Osteocalcin 8 mgg	10	84.80	2.14	82.50	88.70	84.30
		Delta NO 8	10	.04	.13	.00	.40	.00
		Delta Os 8	10	.63	.53	.10	1.90	.45
	Kelompok 2	NO 0 mgg	10	2.4	.0	2.4	2.4	2.4
		NO 8 mgg	10	9.52	3.84	4.20	14.30	8.30
		Osteocalcin 0 mgg	10	83.86	2.38	80.60	88.20	83.50
		Osteocalcin 8 mgg	10	100.89	9.73	87.60	113.6	105.80
		Delta NO 8	10	7.12	3.84	1.80	11.90	5.90
		Delta Os 8	10	15.28	9.14	2.10	27.40	16.35

## T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
NO 0 mgg	Kelompok 1	10	2.400	.0000 <sup>a</sup>	.0000
	Kelompok 2	10	2.400	.0000 <sup>a</sup>	.0000
NO 8 mgg	Kelompok 1	10	2.4400	.12649	.04000
	Kelompok 2	10	9.5200	3.83979	1.21425
Osteocalcin 0 mgg	Kelompok 1	10	84.1700	2.29349	.72527
	Kelompok 2	10	83.8600	2.38383	.75383
Osteocalcin 8 mgg	Kelompok 1	10	84.8000	2.14476	.67823
	Kelompok 2	10	100.8900	9.72985	3.07685
Delta NO 8	Kelompok 1	10	.0400	.12649	.04000
	Kelompok 2	10	7.1200	3.83979	1.21425
Delta Os 8	Kelompok 1	10	.6300	.52926	.16737
	Kelompok 2	10	15.2800	9.14170	2.89086

a. t cannot be computed because the standard deviations of both groups are 0.

### 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
NO 8 mgg	Equal variances assumed	42.684	.000	-5.828	18	.000	-7.0800	1.21491	-9.632	-4.528
	Equal variances not assumed			-5.828	9.020	.000	-7.0800	1.21491	-9.827	-4.327
Osteocalcin 0 mgg	Equal variances assumed	.002	.966	.296	18	.770	.3100	1.04608	-1.888	2.508
	Equal variances not assumed			.296	17.973	.770	.3100	1.04608	-1.888	2.508
Osteocalcin 8 mgg	Equal variances assumed	31.690	.000	-5.107	18	.000	-16.0900	3.15071	-22.71	-9.47
	Equal variances not assumed			-5.107	9.873	.000	-16.0900	3.15071	-23.12	-9.04
Delta NO 8	Equal variances assumed	42.684	.000	-5.828	18	.000	-7.0800	1.21491	-9.632	-4.528
	Equal variances not assumed			-5.828	9.020	.000	-7.0800	1.21491	-9.827	-4.327
Delta Os 8	Equal variances assumed	46.268	.000	-5.059	18	.000	-14.6500	2.89570	-20.73	-8.57
	Equal variances not assumed			-5.059	9.060	.001	-14.6500	2.89570	-21.19	-8.11

### NPar Tests Mann-Whitney Test

#### Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
NO 8 mgg	Kelompok 1	10	5.50	55.00
	Kelompok 2	10	15.50	155.00
	Total	20		
Delta NO 8	Kelompok 1	10	5.50	55.00
	Kelompok 2	10	15.50	155.00
	Total	20		
Delta Os 8	Kelompok 1	10	5.50	55.00
	Kelompok 2	10	15.50	155.00
	Total	20		

### Test Statistics<sup>a</sup>

	NO 8 mgg	Delta NO 8	Delta Os 8
Mann-Whitney U	.000	.000	.000
Wilcoxon W	55.000	55.000	55.000
Z	-3.963	-3.963	-3.787
Asymp. Sig. (2-tailed)	.000	.000	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 <sup>a</sup>	.000 <sup>a</sup>	.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: Kelompok

## T-Test

### Paired Samples Statistics

K1

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 NO 0 mgg	2.400	10	.0000	.0000
NO 8 mgg	2.4400	10	.12649	.04000
Pair 2 Osteocalcin 0 mgg	84.1700	10	2.29349	.72527
Osteocalcin 8 mgg	84.8000	10	2.14476	.67823

### Paired Samples Correlations

K1

	N	Correlation	Sig.
Pair 1 NO 0 mgg & NO 8 mgg	10	.	.
Pair 2 Osteocalcin 0 mgg & Osteocalcin 8 mgg	10	.974	.000

### Paired Samples Test

K1

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	NO 0 mgg - NO 8 mgg	-.0400	.12649	.04000	-.1305	.0505	-1.000	9	.343
Pair 2	Osteocalcin 0 mgg - Osteocalcin 8 mgg	-.6300	.52926	.16737	-1.0086	-.2514	-3.764	9	.004

## NPar Tests

### Wilcoxon Signed Ranks Test

Ranks		K1		
		N	Mean Rank	Sum of Ranks
NO 8 mgg - NO 0 mgg	Negative Ranks	0 <sup>a</sup>	.00	.00
	Positive Ranks	1 <sup>b</sup>	1.00	1.00
	Ties	9 <sup>c</sup>		
	Total	10		

a. NO 8 mgg < NO 0 mgg

b. NO 8 mgg > NO 0 mgg

c. NO 8 mgg = NO 0 mgg

#### K1 Test Statistics<sup>b</sup>

	NO 8 mgg - NO 0 mgg
Z	-1.000 <sup>a</sup>
Asymp. Sig. (2-tailed)	.317

a. Based on negative ranks.

b. Wilcoxon Signed Ranks Test

## Correlations

## Nonparametric Correlations

**Correlations K1**

			Delta NO 8	Delta Os 8
Spearman's rho	Delta NO 8	Correlation Coefficient	1.000	-.530
		Sig. (2-tailed)	.	.115
		N	10	10
	Delta Os 8	Correlation Coefficient	-.530	1.000
		Sig. (2-tailed)	.115	.
		N	10	10

**T-Test**

**Paired Samples Statistics K2**

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	NO 0 mgg	2.400	10	.0000	.0000
	NO 8 mgg	9.5200	10	3.83979	1.21425
Pair 2	Osteocalcin 0 mgg	83.8600	10	2.38383	.75383
	Osteocalcin 8 mgg	100.8900	10	9.72985	3.07685

**Paired Samples Correlations K2**

		N	Correlation	Sig.
Pair 1	NO 0 mgg & NO 8 mgg	10	.	.
Pair 2	Osteocalcin 0 mgg & Osteocalcin 8 mgg	10	.387	.269

**Paired Samples Test K2**

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	NO 0 mgg - NO 8 mgg	-7.1200	3.83979	1.21425	-9.867	-4.3732	-5.86	9	.000
Pair 2	Osteocalcin 0 mgg - Osteocalcin 8 mgg	-17.03	9.07659	2.87027	-23.52	-10.54	-5.93	9	.000

**Correlations**

**Correlations****K2**

		Delta NO 8	Delta Os 8
Delta NO 8	Pearson Correlation	1	.848**
	Sig. (2-tailed)	.	.002
	N	10	10
Delta Os 8	Pearson Correlation	.848**	1
	Sig. (2-tailed)	.002	.
	N	10	10

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