Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
FEV1 sebelum perlakuan	.205	10	.200*	.891	10	.173
FEV1 sesudah perlakuan	.203	10	.200*	.893	10	.181
selisih perlakuan	.220	10	.185	.839	10	.043
FEV1 sebelum kontrol	.257	10	.060	.874	10	.111
FEV1 sesudah kontrol	.217	10	.198	.903	10	.236
selisih kontrol	.303	10	.010	.774	10	.007

a. Lilliefors Significance Correction

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

Nilai p>0,05 data terdistribusi normal

Uji Homogenitas

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
perlakuansblm	Equal variances assumed	.397	.537	-10.278	18	.000	-52.10000	5.06897
	Equal variances not assumed			-10.278	17.634	.000	-52.10000	5.06897

Nilai p > 0,05 data homogen

Uji Hipotesa 1 dan 2

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	FEV1 sebelum perlakuan - FEV1 sesudah perlakuan	-3.60000	2.83627	.89691	-5.62895	-1.57105	-4.014	9	.003
Pair 2	FEV1 sebelum kontrol - FEV1 sesudah kontrol	-3.40000	2.63312	.83267	-5.28362	-1.51638	-4.083	9	.003

Nilai P > 0,05 data homogen

Uji Hipotesa 1

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	FEV1 sebelum perlakuan - FEV1 sesudah perlakuan	-3.60000	2.83627	.89691	-5.62895	-1.57105	-4.014	9	.003

P < 0,05 berarti Ho ditolak , ada peningkatan

Uji Hipotesa 2

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	FEV1 sebelum kontrol - FEV1 sesudah kontrol	-3.40000	2.63312	.83267	-5.28362	-1.51638	-4.083	9	.003

P < 0,05 berarti Ho ditolak , ada peningkatan

Uji Hipotesa 3

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
selisih	Equal variances assumed	.606	.447	.163	18	.872	.20000	1.22384
	Equal variances not assumed			.163	17.901	.872	.20000	1.22384

Nilai p > 0,05 Ho diterima, tidak ada perbedaan

Uji Hipotesa 3 (SELISIH)

Karena data tidak terdistribusi normal

Mann-Whitney

Ranks

	kelp	N	Mean Rank	Sum of Ranks
selisih	1	10	10.20	102.00
	2	10	10.80	108.00
	Total	20		

Test Statistics[b]

	selisih
Mann-Whitney U	47.000
Wilcoxon W	102.000
Z	-.233
Asymp. Sig. (2-tailed)	.816
Exact Sig. [2*(1-tailed Sig.)]	.853[a]

Uji Hipotesa 3 dengan post-post

Mann-Whitney

Ranks

	kelp	N	Mean Rank	Sum of Ranks
perlakuanssdh	1	10	5.50	55.00
	2	10	15.50	155.00
	Total	20		

Test Statistics[b]

	perlakuanssdh
Mann-Whitney U	.000
Wilcoxon W	55.000
Z	-3.781
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000[a]