LAMPIRAN

Lampiran 1 Uji Normalitas

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Konsentrasi	N	Percent	N	Percent	N	Percent
Zona_Radikal	MAKOTA 25	6	100.0%	0	.0%	6	100.0%
	MAHKOTA 50	6	100.0%	0	.0%	6	100.0%
	MAHKOTA 75	6	100.0%	0	.0%	6	100.0%
	KALSIUM	6	100.0%	0	.0%	6	100.0%
	AQUADES	6	100.0%	0	.0%	6	100.0%

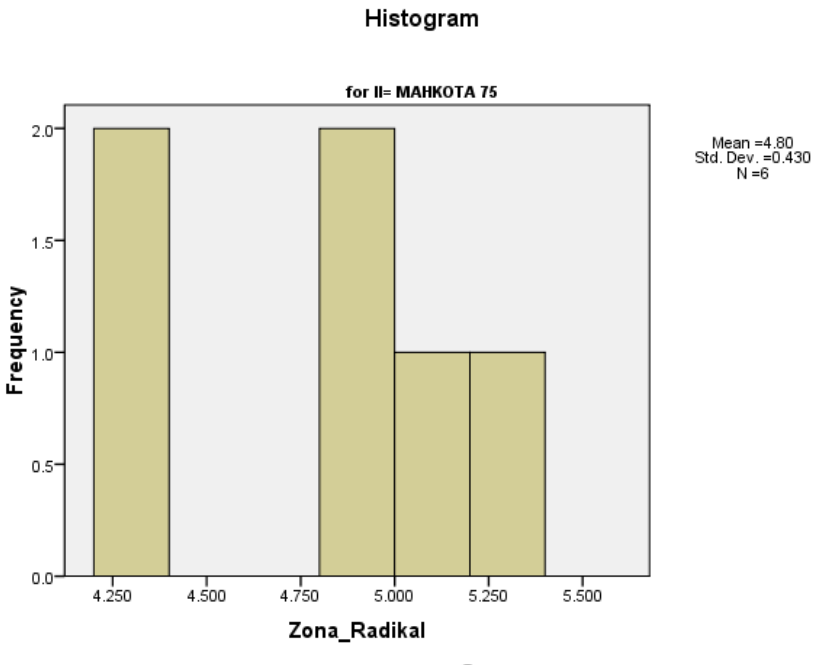
Descriptives[a]

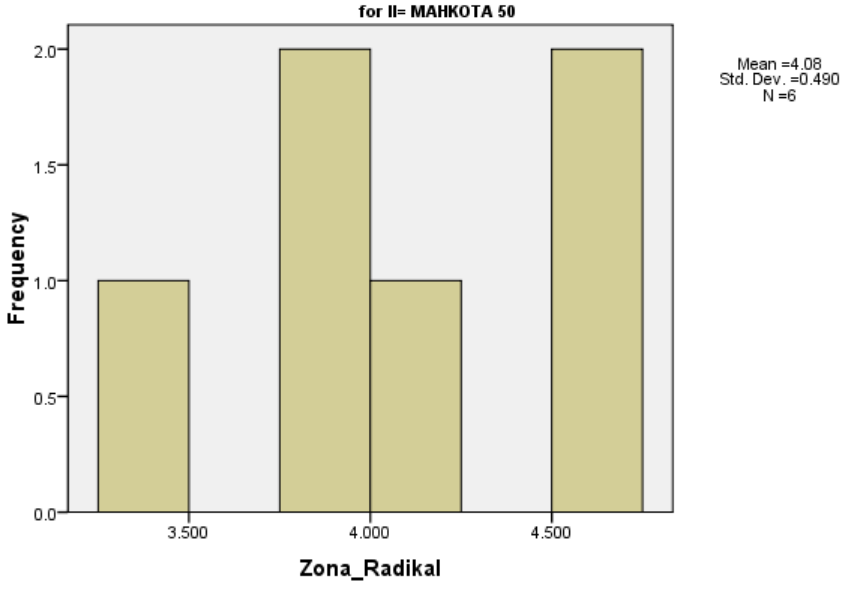
	Konsentrasi			Statistic	Std. Error
Zona_Radikal	MAKOTA 25	Mean		3.23333	.375148
		95% Confidence Interval for Mean	Lower Bound	2.26898	
			Upper Bound	4.19768	
		5% Trimmed Mean		3.25093	
		Median		3.15000	
		Variance		.844	
		Std. Deviation		.918921	
		Minimum		1.825	
		Maximum		4.325	
		Range		2.500	
		Interquartile Range		1.638	
		Skewness		-.312	.845
		Kurtosis		-.266	1.741
	MAHKOTA	Mean		4.07667	.200007

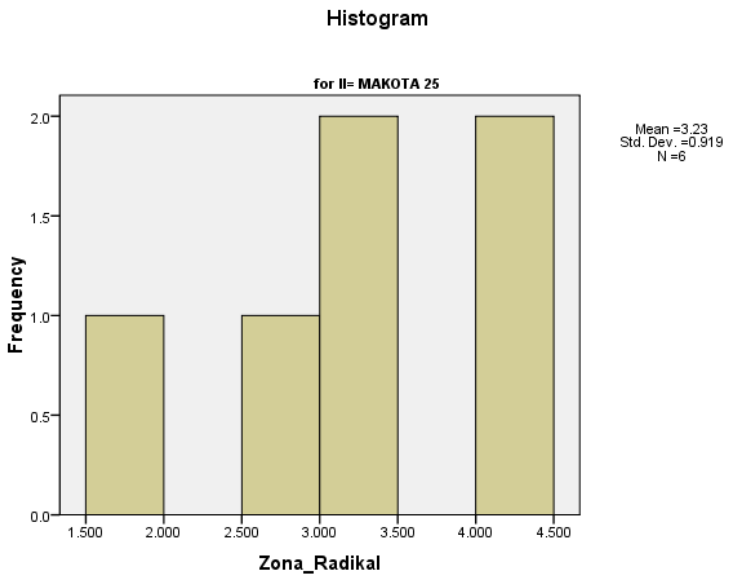
50	95% Confidence Interval for Mean	Lower Bound	3.56253	
		Upper Bound	4.59080	
	5% Trimmed Mean		4.08657	
	Median		4.05500	
	Variance		.240	
	Std. Deviation		.489915	
	Minimum		3.325	
	Maximum		4.650	
	Range		1.325	
	Interquartile Range		.875	
	Skewness		-.376	.845
	Kurtosis		-.397	1.741
MAHKOTA 75	Mean		4.80000	.175561
	95% Confidence Interval for Mean	Lower Bound	4.34871	
		Upper Bound	5.25129	
	5% Trimmed Mean		4.80583	
	Median		4.90000	
	Variance		.185	
	Std. Deviation		.430035	
	Minimum		4.225	
	Maximum		5.270	
	Range		1.045	
	Interquartile Range		.888	
	Skewness		-.506	.845
	Kurtosis		-1.669	1.741
KALSIUM	Mean		3.57500	.301424
	95% Confidence Interval for Mean	Lower Bound	2.80016	
		Upper Bound	4.34984	
	5% Trimmed Mean		3.56806	
	Median		3.50000	

	Variance	.545	
	Std. Deviation	.738336	
	Minimum	2.800	
	Maximum	4.475	
	Range	1.675	
	Interquartile Range	1.510	
	Skewness	.184	.845
	Kurtosis	-2.443	1.741

a. Zona_Radikal is constant when Konsentrasi = AQUADES. It has been omitted.







Tests of Normality[b]

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Konsentrasi	Statistic	df	Sig.	Statistic	df	Sig.
Zona_Radikal	MAKOTA 25	.181	6	.200*	.943	6	.682
	MAHKOTA 50	.166	6	.200*	.958	6	.804
	MAHKOTA 75	.259	6	.200*	.888	6	.309
	KALSIUM	.218	6	.200*	.878	6	.261

a. Lilliefors Significance Correction

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

b. Zona_Radikal is constant when Konsentrasi = AQUADES. It has been omitted.

Lampiran 2 Uji Homogenitas

Test of Homogeneity of Variances

Zona_Radikal

Levene Statistic	df1	df2	Sig.
4.611	4	25	.006

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Lampran 3 Uji Kruskal Walis

Ranks

	Konsentrasi	N	Mean Rank
Zona_Radikal	MAKOTA 25	6	13.33
	MAHKOTA 50	6	19.25
	MAHKOTA 75	6	26.17
	KALSIUM	6	15.25
	AQUADES	6	3.50
	Total	30	

Test Statistics[a,b]

	Zona_Radikal
Chi-Square	21.597
Df	4
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Lampiran 4 Uji Mann Whitney

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAKOTA 25	6	4.75	28.50
	MAHKOTA 50	6	8.25	49.50
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	7.500
Wilcoxon W	28.500
Z	-1.684
Asymp. Sig. (2-tailed)	.092
Exact Sig. [2*(1-tailed Sig.)]	.093[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAKOTA 25	6	3.67	22.00
	MAHKOTA 75	6	9.33	56.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	1.000
Wilcoxon W	22.000
Z	-2.727
Asymp. Sig. (2-tailed)	.006
Exact Sig. [2*(1-tailed Sig.)]	.004[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAKOTA 25	6	5.92	35.50
	KALSIUM	6	7.08	42.50
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	14.500
Wilcoxon W	35.500
Z	-.561
Asymp. Sig. (2-tailed)	.575
Exact Sig. [2*(1-tailed Sig.)]	.589[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAKOTA 25	6	9.50	57.00
	AQUADES	6	3.50	21.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.077
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	4.000
Wilcoxon W	25.000
Z	-2.246
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.026[a]

a. Not corrected for ties.

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	4.000
Wilcoxon W	25.000
Z	-2.246
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.026[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAHKOTA 50	6	4.17	25.00
	MAHKOTA 75	6	8.83	53.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	4.000
Wilcoxon W	25.000
Z	-2.246
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.026[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAHKOTA 50	6	7.83	47.00
	KALSIUM	6	5.17	31.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	10.000
Wilcoxon W	31.000
Z	-1.281
Asymp. Sig. (2-tailed)	.200
Exact Sig. [2*(1-tailed Sig.)]	.240[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAHKOTA 50	6	9.50	57.00
	AQUADES	6	3.50	21.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.077
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAHKOTA 75	6	9.00	54.00
	KALSIUM	6	4.00	24.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	3.000
Wilcoxon W	24.000
Z	-2.406
Asymp. Sig. (2-tailed)	.016
Exact Sig. [2*(1-tailed Sig.)]	.015[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	MAHKOTA 75	6	9.50	57.00
	AQUADES	6	3.50	21.00
	Total	12		

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.083
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

Test Statistics[b]

	Zona_Radikal
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.083
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Konsentrasi

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Zona_Radikal	30	3.13700	1.773513	.000	5.270
Konsentrasi	30	3.00	1.438	1	5

Ranks

	Konsentrasi	N	Mean Rank	Sum of Ranks
Zona_Radikal	KALSIUM	6	9.50	57.00
	AQUADES	6	3.50	21.00
	Total	12		

Test Statistics[b]

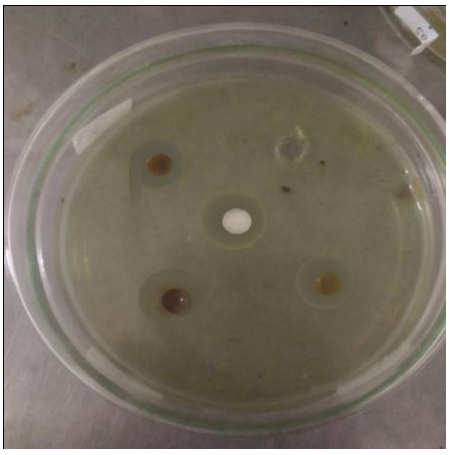
	Zona_Radikal
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.077
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

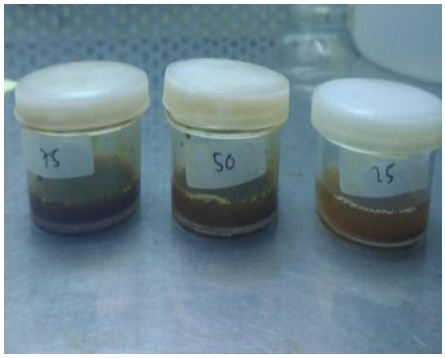
b. Grouping Variable: Konsentrasi

Pencampuran larutan dengan *Vortex Mixer*

Media cair BHI



Zona radikal



Ekstrak buah mahkota dewa

Fakultas Kedokteran dan Ilmu Kesehatan
Universitas Muhammadiyah Yogyakarta

Nomor : 256/EP-FKIK-UMY/1V/2017

KETERANGAN LOLOS UJI ETIK
ETHICAL APPROVAL

Komite Etik Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiya
Yogyakarta dalam upaya melindungi hak asasi dan kesejahteraan responden/subye
penelitian, telah mengkaji dengan teliti protokol berjudul :

The Ethics Committee of the Faculty of Medicine and Health Sciences, University
Muhammadiyah Yogyakarta, with regards of the protection of human rights and welfare
research, has carefully reviewed the research protocol entitled :

"Efektivitas Daya Antibakteri Ekstrak Buah MAHKOTA DEWA (*Phaleria macrocarpa*) Terhadap Pertumbuhan Bakteri *Enterococcus Faecalis*"

Peneliti Utama / *Principal Investigator* : Imas Wahyu Ratna Wulan

Nama Institusi / *Name of the Institution* : Program Studi Pendidikan Dokter Gigi FKIK UMY

Negara / Country : Indonesia

Dan telah menyetujui protokol tersebut diatas.
And approved the above-mentioned protocol.

Yogyakarta, 25 April 2017

Sekretaris
Secretary

Dr. dr. Titiek Hidayati, M. Kes

neliti Berkewajiban :
1. Menjaga kerahasiaan identitas subyek penelitian
2. Memberitahukan status penelitian apabila :
   a. Setelah masa berlakunya keterangan lolos uji etik, penelitian masih belum selesai, dalam hal ini *ethical clearance* ha diperpanjang
   b. Penelitian berhenti di tengah jalan
3. Melaporkan kejadian serius yang tidak diinginkan (*serious adverse events*)
4. Peneliti tidak boleh melakukan tindakan apapun pada responden/subyek sebelum penelitian lolos uji etik dan *informed consent*

ielatan, Tamantirto, Kasihan Bantul, Yogyakarta 55183
387056 ext. 213 7491350 Fax (0274) 387658

Fakultas Kedokteran dan Ilmu Kesehatan
Universitas Muhammadiyah Yogyakarta

Surat Keterangan Penelitian

Yang bertanda tangan dibawah ini, Koordinator Laboratorium Mikrobiologi Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta, menerangkan bahwa mahasiswa berikut:

Nama : Imas Wahyu Ratna Wulan
N I M : 20130340045
Fakultas : Kedokteran dan Ilmu Kesehatan
Prodi : Pendidikan Dokter Gigi

Telah melakukan penelitian hingga selesai dan dinyatakan telah bebas laboratorium.

Waktu : 2 Februari 2017 - 9 Februari 2017
Tempat : Laboratorium Mikrobiologi FKIK – UMY
Judul KTI : Efektifitas Daya Antibaktei Ekstrak Buah Mahkota Dewa *(Phaleria macrocarpa)* Terhadap Pertumbuhan Bakteri *Enterococcus Faecalis*
Metode : Dfusi sumuran

Yogyakarta, 16 Agustus 2017
Koordinator Lab Mikrobiologi

UNIVERSITAS MUHAMMADIYAH YOGYAKARTA FKIK BAGIAN MIKROBIOLOGI

(Dr Lilis Suryani, Dra .M.Kes)

Tamanbirto, Kasihan, Bantul, Yogyakarta 55183