

LAMPIRAN

Lampiran 1. *Ethical Clearance*



KETERANGAN LOLOS KAJI ETIK *DESCRIPTION OF ETHICAL APPROVAL* *"ETHICAL APPROVAL"* No. 041/B.1-KEPK/SA-FKG/III/2019

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : SEPTIKA PRAMUDIA PUTRI
Principal In Investigator

Pembimbing : 1. drg. Rahmawati Sri Praptiningsih.M.Med.Ed
Supervisor 2. drg. Moh. Yusuf, Sp. Rad.O.M

Nama Institusi : FAKULTAS KEDOKTERAN GIGI UNISSULA
Name of the Institution

Tempat Penelitian : LABORATORIUM BIOKIMIA DAN LABORATORIUM MIKROBIOLOGI
Research Place UNIVERSITAS SULTAN AGUNG SEMARANG

Dengan judul :
Title

DAYA HAMBAT PEMBERIAN AIR REBUSAN DAUN PANDAN WANGI (*PANDANUS AMARYLLIFOLIUS ROXB*) BERBAGAI KONSENTRASI TERHADAP PERTUMBUHAN *STREPTOCOCCUS MUTANS*

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu: 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan / Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards : 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion / Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines This is as indicated by the fulfillment of the indicators of each standard.

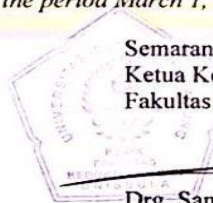
Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 1Maret 2019 sampai dengan tanggal 1 Maret 2020.

This declaration of ethics applies during the period March 1, 2019 until March 1, 2020.

Mengetahui,
Wakil Dekan I

Dr. drg. Yayun Siti Rochmah, Sp. BM
NIK. 210100058

Semarang, 18 Maret 2019
Ketua Komisi Etik Penelitian Kesehatan
Fakultas Kedokteran Gigi UNISSULA


Drg. Sandy Christiono, Sp.KGA
NIK. 211010012

Lampiran 2. Surat Ijin Penelitian



YAYASAN BADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)

Jl. Raya Kaligawe Km.4 Semarang 50112 Telp. (024) 6583584 (8 Sal) Fax (024) 6582455
 email : informasi@unissula.ac.id web : www.unissula.ac.id

FAKULTAS KEDOKTERAN GIGI

Bismillah Membangun Generasi Khaira Ummah

Nomor : 024/KTI/SA-FKG/III/2019 Semarang, 26 Maret 2019
 Hal : *Ijin Penelitian*

Kepada : Yth. Dekan Fakultas Kedokteran
 Universitas Islam Sultan Agung (UNISSULA)
 Di –
 Tempat

Assalamu 'alaikum wr wb

Dalam rangka Penelitian untuk Karya Tulis Ilmiah (KTI) Mahasiswa S1 Fakultas Kedokteran Gigi Universitas Islam Sultan Agung (UNISSULA) Semarang :

Nama : Septika Pramudia Putri
 NIM : 31101500541
 Alamat : Jl. Kapas raya Blok D no 333A Perum Genuk Indah Semarang
 Judul Penelitian: Daya Hambat Pemberian Air Rebusan Daun Pandan Wangi (Pandanus Amaryllifolius Roxb) Berbagai Konsentrasi Terhadap Pertumbuhan Streptococcus Mutans
 Waktu : 1 Bulan

Bersama ini kami mohon kesediaan untuk dapat memberikan ijin penelitian di Lab. Biokimia dan Mikrobiologi Fakultas Kedokteran Unissula. Demikian permohonan kami atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Wassalamu 'alaikum wr wb



Dr. drg. Yayun Siti Rochmah, Sp.BM
 NIK.210100058

Tembusan :

- Lab. Biokimia FK Unissula
- Lab. Mikrobiologi FK Unissula

Lampiran 3. Surat Telah Melakukan Penelitian Di Laboratorium Mikrobiologi



YAYASAN BADAN WAKAF SULTAN AGUNG
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FAKULTAS KEDOKTERAN

Bismillah Membangun Generasi Khaira Ummah

SURAT KETERANGAN

No. /Pen/MK-FK/V/2019

Yang bertanda tangan di bawah ini:

Nama : dr. Rahayu, Sp.MK
 Jabatan : Kepala Laboratorium Mikrobiologi Klinik FK. Unissula

Menerangkan bahwa mahasiswa :

Nama : Septika Pramudia Putri
 NIM : 031101500541
 Fakultas : Kedokteran Gigi
 Universitas : Islam Sultan Agung Semarang
 Judul : Daya hambat Pemberian Air Rebusan Daun Pandan Wangi (*Pnadanus Amaryllifolius roxb*)Berbagai Konsentrasi Terhadap Pertumbuhan *Streptococcus mutans*

Telah selesai melakukan penelitian di Laboratorium Mikrobiologi Klinik Fakultas Kedokteran Umum Universitas Islam Sultan Agung , untuk menunjang penyusunan skripsi. Adapun penelitian dilakukan pada 18 Maret 2019 s/d 30 Maret 2019 dengan hasil terlampir.

Demikian surat keterangan ini dibuat untuk dapat dipergunakan seperlunya.

Semarang, 30 Maret 2019

Mengetahui,

Kepala Lab. Mikrobiologi Klinik
 Fakultas Kedokteran Umum UNISSULA

dr. Rahayu Sp.MK

Lampiran 4. Hasil dan Analisa Data

Pengulangan	Diameter zona hambat aquades, air rebusan konsentrasi 10% dan air rebusan konsentrasi 25% (mm)			
	Vertikal	Horizontal	Daigonal	Rata-rata
1	0,00	0,00	0,00	0,00
2	0,00	0,00	0,00	0,00
3	0,00	0,00	0,00	0,00
4	0,00	0,00	0,00	0,00

Pengulangan	Diameter zona hambat air rebusan konsentrasi 50% (mm)			
	Vertikal	Horizontal	Daigonal	Rata-rata
1	10,90	10,65	10,70	10,75
2	8,11	9,83	9,81	9,25
3	8,15	8,51	8,30	8,32
4	10,40	9,13	10,80	10,11

Pengulangan	Diameter zona hambat air rebusan konsentrasi 100% (mm)			
	Vertikal	Horizontal	Daigonal	Rata-rata
1	13,60	12,00	13,70	13,10
2	17,82	17,92	17,81	17,85
3	12,00	12,54	12,09	12,21
4	15,70	15, 50	15,90	15,70

Pengulangan	Diameter zona hambat air rebusan konsentrasi chlorhexidine 0,2% (mm)			
	Vertikal	Horizontal	Daigonal	Rata-rata
1	44,83	46,00	44,50	45,11
2	43,20	43,60	43,76	43,52
3	45,06	45,10	45,50	45,22
4	48,72	48,21	48,60	48,51

Analisa Data

Explore Kelompok

Case Processing Summary

		Cases					
		Valid		Missing		Total	
Kelompok		N	Percent	N	Percent	N	Percent
Diameter zona hambatan	Aquades	4	100,0%	0	0,0%	4	100,0%
	Air rebusan 10%	4	100,0%	0	0,0%	4	100,0%
	Air rebusan 25%	4	100,0%	0	0,0%	4	100,0%
	Air rebusan 50%	4	100,0%	0	0,0%	4	100,0%
	Air rebusan 100%	4	100,0%	0	0,0%	4	100,0%
	Chlorhexidine	4	100,0%	0	0,0%	4	100,0%

Descriptives^{a,b,c}

Kelompok		Statistic	Std. Error		
Diameter zona hambatan	Konsentrasi 50%	Mean	9,6075	0,52783	
		95% Confidence Interval for Mean	Lower Bound	7,9277	
		Upper Bound	11,2873		
		5% Trimmed Mean		9,6156	
		Median		9,6800	
		Variance		1,114	
		Std. Deviation		1,05566	
		Minimum		8,32	
		Maximum		10,75	
		Range		2,43	
		Interquartile Range		2,04	
		Skewness		-,318	1,014
		Kurtosis		-1,337	2,619
	Konsentrasi 100%	Mean	14,7150	1,28068	
		95% Confidence Interval for Mean	Lower Bound	10,6393	
Upper Bound		18,7907			
5% Trimmed Mean			14,6800		
Median			14,4000		
Variance		6,561			

		Std. Deviation	2,56136	
		Minimum	12,21	
		Maximum	17,85	
		Range	5,64	
		Interquartile Range	4,88	
		Skewness	,470	1,014
		Kurtosis	-2,370	2,619
	Chlorhexidine	Mean	45,6650	1,04180
	0,2%	95% Confidence	Lower Bound	42,3495
		Interval for Mean	Upper Bound	48,9805
		5% Trimmed Mean	45,6261	
		Median	45,3150	
		Variance	4,341	
		Std. Deviation	2,08359	
		Minimum	43,52	
		Maximum	48,51	
		Range	4,99	
		Interquartile Range	3,85	
		Skewness	,957	1,014
		Kurtosis	1,847	2,619

a. hasil is constant when kelompok = aquades. It has been omitted.

b. hasil is constant when kelompok = konsentrasi 10%. It has been omitted.

c. hasil is constant when kelompok = konsentrasi 25%. It has been omitted.

Tests of Normality^{a,b,c}

		Kolmogorov-Smirnov ^d			Shapiro-Wilk		
Kelompok		Statistic	df	Sig.	Statistic	df	Sig.
Diameter zona hambatan	konsentrasi 50%	,183	4	.	,983	4	,921
	konsentrasi 100%	,236	4	.	,943	4	,674
	chlorhexidine 0,2%	,278	4	.	,939	4	,650

a. hasil is constant when kelompok = aquades. It has been omitted.

b. hasil is constant when kelompok = konsentrasi 10%. It has been omitted.

c. hasil is constant when kelompok = konsentrasi 25%. It has been omitted.

d. Lilliefors Significance Correction

One Way**Descriptives**

	N	Mean	Std.deviation	Std.error	95% confidence interval for mean		Min	Max
					Lower bound	Upper bound		
Aquades	4	0,0000	0,00000	0,00000	0,0000	0,0000	0,00	0,00
Konsentrasi 10%	4	0,0000	0,00000	0,00000	0,0000	0,0000	0,00	0,00
Konsentrasi 10%	4	0,0000	0,00000	0,00000	0,0000	0,0000	0,00	0,00
Konsentrasi 10%	4	9,6075	1,05566	0,52783	7,9277	11,2873	8,32	10,75
Konsentrasi 10%	4	14,7150	2,56136	1,28068	10,6393	18,7907	12,21	17,85
Chlohexidine 0,2%	4	45,6650	2,08359	1,04180	42,3495	48,9805	43,52	48,51
total	24	11,6646	16,61202	3,39091	4,6499	18,6792	0,00	48,51

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
6,708	5	18	0,001

ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	6311,010	5	1262,202	630,242	,000
Within Groups	36,049	18	2,003		
Total	6347,059	23			

Post Hoc Test

Multiple Comparisons

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
aquades	konsentrasi 10%	,00000	1,00068	1,000	-3,1802	3,1802
	konsentrasi 25%	,00000	1,00068	1,000	-3,1802	3,1802
	konsentrasi 50%	-9,60750*	1,00068	,000	-12,7877	-6,4273
	konsentrasi 100%	-14,71500*	1,00068	,000	-17,8952	-11,5348
	chlorhexidine 0,2%	-45,66500*	1,00068	,000	-48,8452	-42,4848
konsentrasi 10%	Aquades	,00000	1,00068	1,000	-3,1802	3,1802
	konsentrasi 25%	,00000	1,00068	1,000	-3,1802	3,1802
	konsentrasi 50%	-9,60750*	1,00068	,000	-12,7877	-6,4273
	konsentrasi 100%	-14,71500*	1,00068	,000	-17,8952	-11,5348
	chlorhexidine 0,2%	-45,66500*	1,00068	,000	-48,8452	-42,4848
konsentrasi 25%	Aquades	,00000	1,00068	1,000	-3,1802	3,1802
	konsentrasi 10%	,00000	1,00068	1,000	-3,1802	3,1802
	konsentrasi 50%	-9,60750*	1,00068	,000	-12,7877	-6,4273
	konsentrasi 100%	-14,71500*	1,00068	,000	-17,8952	-11,5348
	chlorhexidine 0,2%	-45,66500*	1,00068	,000	-48,8452	-42,4848
konsentrasi 50%	Aquades	9,60750*	1,00068	,000	6,4273	12,7877
	konsentrasi 10%	9,60750*	1,00068	,000	6,4273	12,7877
	konsentrasi 25%	9,60750*	1,00068	,000	6,4273	12,7877
	konsentrasi 100%	-5,10750*	1,00068	,001	-8,2877	-1,9273
	chlorhexidine 0,2%	-36,05750*	1,00068	,000	-39,2377	-32,8773
konsentrasi 100%	Aquades	14,71500*	1,00068	,000	11,5348	17,8952
	konsentrasi 10%	14,71500*	1,00068	,000	11,5348	17,8952
	konsentrasi 25%	14,71500*	1,00068	,000	11,5348	17,8952
	konsentrasi 50%	5,10750*	1,00068	,001	1,9273	8,2877

	chlorhexidine 0,2%	-30,95000*	1,00068	,000	-34,1302	-27,7698
chlorhexidine 0,2%	Aquades	45,66500*	1,00068	,000	42,4848	48,8452
	konsentrasi 10%	45,66500*	1,00068	,000	42,4848	48,8452
	konsentrasi 25%	45,66500*	1,00068	,000	42,4848	48,8452
	konsentrasi 50%	36,05750*	1,00068	,000	32,8773	39,2377
	konsentrasi 100%	30,95000*	1,00068	,000	27,7698	34,1302

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Kelompok	N	Subset for alpha = 0.05			
		1	2	3	4
Aquades	4	,0000			
konsentrasi 10%	4	,0000			
konsentrasi 25%	4	,0000			
konsentrasi 50%	4		9,6075		
konsentrasi 100%	4			14,7150	
chlorhexidine 0,2%	4				45,6650
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4,000.

Kruskal Wallis Test

Kelompok		N	Mean Rank
Diameter zona hambat	Aquades	4	6,50
	konsentrasi 10%	4	6,50
	konsentrasi 25%	4	6,50
	konsentrasi 50%	4	14,50
	konsentrasi 100%	4	18,50
	chlorhexidine 0,2%	4	22,50
	Total	24	

Test Statistics^{a,b}

	Hasil
Chi-Square	22,657
Df	5
Asymp. Sig.	,000

a. Kruskal Wallis Test

b. Grouping Variable: kelompok

Mann Whitney Test

Kelompok		N	Mean Rank	Sum of Ranks
Diameter zona hambat	konsentrasi 10%	4	2,50	10,00
	konsentrasi 50%	4	6,50	26,00
	Total	8		

Test Statistics^a

	Hasil
Mann-Whitney U	,000
Wilcoxon W	10,000
Z	-2,460
Asymp. Sig. (2-tailed)	,014
Exact Sig. [2*(1-tailed Sig.)]	,029 ^b

a. Grouping Variable: kelompok

b. Not corrected for ties.

Ranks

Kelompok		N	Mean Rank	Sum of Ranks
zona hambat	Aquades	4	4,50	18,00
	konsentrasi 25%	4	4,50	18,00
	Total	8		

Test Statistics^a

	Hasil
Mann-Whitney U	8,000
Wilcoxon W	18,000
Z	,000
Asymp. Sig. (2-tailed)	1,000
Exact Sig. [2*(1-tailed Sig.)]	1,000 ^b

a. Grouping Variable: kelompok

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	Kelompok	N	Mean Rank	Sum of Ranks
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	Total	8		

Test Statistics^a

	Hasil
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Wilcoxon W	18,000
Z	,000
Asymp. Sig. (2-tailed)	1,000
Exact Sig. [2*(1-tailed Sig.)]	1,000 ^b

a. Grouping Variable: kelompok

b. Not corrected for ties.

Ranks

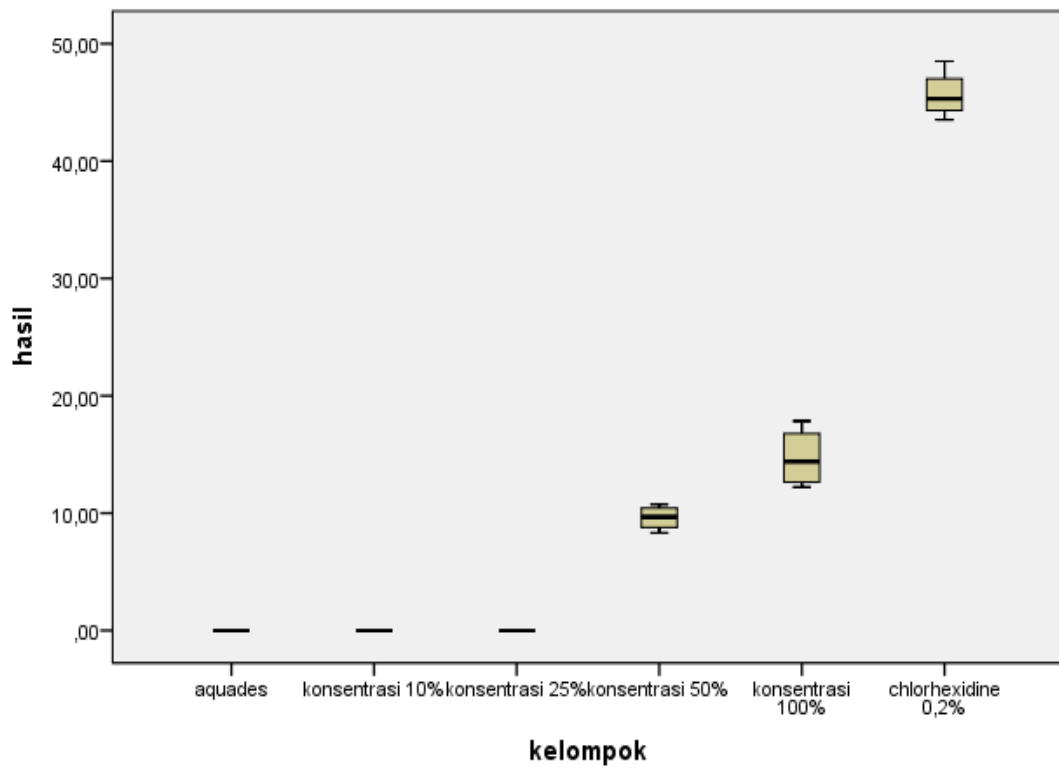
	Kelompok	N	Mean Rank	Sum of Ranks
zona hambat	konsentrasi 10%	4	2,50	10,00
	Chlorhexidine	4	6,50	26,00
	Total	8		

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Wilcoxon W	10,000
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b. Not corrected for ties.



Lampiran 5. Dokumentasi Penelitian

a. Daun pandan segar



b. Menimbang daun pandan



c. Daun pandan setelah dicuci



d. Merebus daun pandan



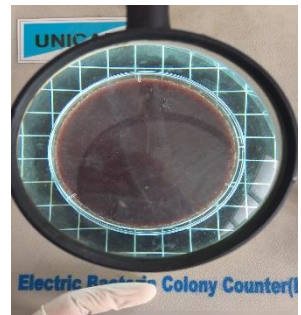
e. Mensaring air rebusan



f. Air rebusan daun pandan



g. Strain s. mutans



h. Reculture s. mutans



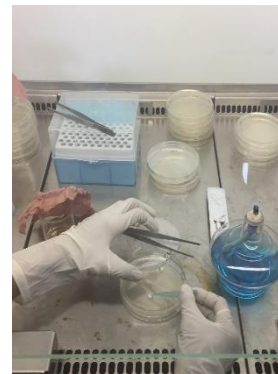
i. Sterilisasi alat uji



j. Menyiapkan alat uji



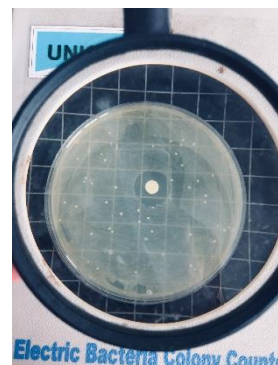
k. Meletakkan bakteri di agar



l. Meletakkan kertas di agar

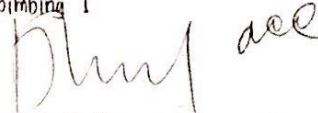


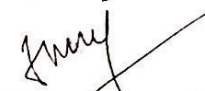
m. Menginkubasi selama 48 jam



n. Setelah inkubasi



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