LAMPIRAN

1.1 Timeline

Kegiatan			PenyusunanProposal	Survei	Pengajuan EC	PersiapanBahan	Pembuatan ekstrak	Pembuatan konsentrasi	Perlakuanekstrak	Perlakuan bakteri	Pengukuran zona hambat	AnalisisData	PenyusunanLaporan
Tahun	Bulan	Ming-gu											
2020	5	1	■										
		2	■										
		3	■	■									
		4	■	■									
	6	1	■	■									
		2	■	■									
		3	■	■									
		4	■	■									
	7	1	■	■									
		2	■	■									
		3	■	■									
		4	■	■									
	8	1	■	■									
		2	■	■									
		3	■	■									
		4	■	■									
	9-11	1	■	■									
		2	■	■									
		3	■	■									
		4	■	■									
	12	1	■		■								
		2	■		■								
		3			■	■	■						
		4						■					
	12	1						■					
		2							■	■			
		3								■			
		4									■		
	12	1									■		
		2									■		
		3										■	
		4										■	
	12	1											■
		2											■
		3											■
		4											■

1.2 Hasil SPSS

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Perlakuan	N	Percent	N	Percent	N	Percent
daya hambat	kontrol negatif	4	100,0%	0	0,0%	4	100,0%
	kontrol positif	4	100,0%	0	0,0%	4	100,0%
	siwak 30%	4	100,0%	0	0,0%	4	100,0%
	siwak 40%	4	100,0%	0	0,0%	4	100,0%
	siwak 50%	4	100,0%	0	0,0%	4	100,0%
	kemangi 30%	4	100,0%	0	0,0%	4	100,0%
	kemangi 40%	4	100,0%	0	0,0%	4	100,0%
	kemangi 50%	4	100,0%	0	0,0%	4	100,0%

Descriptives[a]

	Perlakuan			Statistic	Std. Error
daya hambat	kontrol positif	Mean		18,4375	,31250
		95% Confidence Interval for Mean	Lower Bound	17,4430	
			Upper Bound	19,4320	
		5% Trimmed Mean		18,4722	
		Median		18,7500	
		Variance		,391	
		Std. Deviation		,62500	
		Minimum		17,50	
		Maximum		18,75	
		Range		1,25	
		Interquartile Range		,94	
		Skewness		-2,000	1,014
		Kurtosis		4,000	2,619
	siwak 30%	Mean		7,2000	,07071

	95% Confidence Interval for Mean	Lower Bound	6,9750	
		Upper Bound	7,4250	
	5% Trimmed Mean		7,2056	
	Median		7,2500	
	Variance		,020	
	Std. Deviation		,14142	
	Minimum		7,00	
	Maximum		7,30	
	Range		,30	
	Interquartile Range		,25	
	Skewness		-1,414	1,014
	Kurtosis		1,500	2,619
siwak 40%	Mean		8,2750	,10308
	95% Confidence Interval for Mean	Lower Bound	7,9470	
		Upper Bound	8,6030	
	5% Trimmed Mean		8,2778	
	Median		8,3000	
	Variance		,043	
	Std. Deviation		,20616	
	Minimum		8,00	
	Maximum		8,50	
	Range		,50	
	Interquartile Range		,38	
	Skewness		-,713	1,014
	Kurtosis		1,785	2,619
siwak 50%	Mean		10,3000	,12247
	95% Confidence Interval for Mean	Lower Bound	9,9102	
		Upper Bound	10,6898	
	5% Trimmed Mean		10,3056	
	Median		10,3500	
	Variance		,060	
	Std. Deviation		,24495	
	Minimum		10,00	
	Maximum		10,50	
	Range		,50	

	Interquartile Range		,45	
	Skewness		-,544	1,014
	Kurtosis		-2,944	2,619
kemangi 30%	Mean		17,5000	,54006
	95% Confidence Interval for Mean	Lower Bound	15,7813	
		Upper Bound	19,2187	
	5% Trimmed Mean		17,5278	
	Median		17,7500	
	Variance		1,167	
	Std. Deviation		1,08012	
	Minimum		16,00	
	Maximum		18,50	
	Range		2,50	
	Interquartile Range		2,00	
	Skewness		-1,190	1,014
	Kurtosis		1,500	2,619
kemangi 40%	Mean		18,4750	,22867
	95% Confidence Interval for Mean	Lower Bound	17,7473	
		Upper Bound	19,2027	
	5% Trimmed Mean		18,4722	
	Median		18,4500	
	Variance		,209	
	Std. Deviation		,45735	
	Minimum		18,00	
	Maximum		19,00	
	Range		1,00	
	Interquartile Range		,88	
	Skewness		,196	1,014
	Kurtosis		-3,202	2,619
kemangi 50%	Mean		20,0500	,55000
	95% Confidence Interval for Mean	Lower Bound	18,2997	
		Upper Bound	21,8003	
	5% Trimmed Mean		20,0556	
	Median		20,1000	
	Variance		1,210	

	Std. Deviation	1,10000	
	Minimum	19,00	
	Maximum	21,00	
	Range	2,00	
	Interquartile Range	1,95	
	Skewness	-,029	1,014
	Kurtosis	-5,835	2,619

a. daya hambat is constant when perlakuan = kontrol negatif. It has been omitted.

Tests of Normality[a]

		Kolmogorov-Smirnov[b]			Shapiro-Wilk		
	perlakuan	Statistic	Df	Sig.	Statistic	Df	Sig.
daya hambat	kontrol positif	,441	4	.	,630	4	,001
	siwak 30%	,260	4	.	,827	4	,161
	siwak 40%	,298	4	.	,926	4	,572
	siwak 50%	,293	4	.	,860	4	,262
	kemangi 30%	,250	4	.	,927	4	,577
	kemangi 40%	,226	4	.	,946	4	,691
	kemangi 50%	,306	4	.	,772	4	,061

a. daya hambat is constant when perlakuan = kontrol negatif. It has been omitted.

b. Lilliefors Significance Correction

Test of Homogeneity of Variance[a]

		Levene Statistic	df1	df2	Sig.
daya hambat	Based on Mean	5,084	6	21	,002
	Based on Median	3,088	6	21	,025
	Based on Median and with adjusted df	3,088	6	6,926	,084
	Based on trimmed mean	4,872	6	21	,003

a. daya hambat is constant when perlakuan = kontrol negatif. It has been omitted.

Kruskal-Wallis Test

Ranks

	Perlakuan	N	Mean Rank
daya hambat	kontrol negatif	4	2,50
	kontrol positif	4	24,13
	siwak 30%	4	6,50
	siwak 40%	4	10,50
	siwak 50%	4	14,50
	kemangi 30%	4	19,75
	kemangi 40%	4	23,75
	kemangi 50%	4	30,38
	Total	32	

Test Statistics[a,b]

	daya hambat
Chi-Square	29,650
Df	7
Asymp. Sig.	,000

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
daya hambat	siwak 30%	,260	4	.	,827	4	,161
	kemangi 30%	,250	4	.	,927	4	,577

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
daya hambat	Based on Mean	3,992	1	6	,093
	Based on Median	3,314	1	6	,119
	Based on Median and with adjusted df	3,314	1	3,120	,163
	Based on trimmed mean	3,982	1	6	,093

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
daya hambat	siwak 40%	,298	4	.	,926	4	,572
	kemangi 40%	,226	4	.	,946	4	,691

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
daya hambat	Based on Mean	5,791	1	6	,053
	Based on Median	5,556	1	6	,057
	Based on Median and with adjusted df	5,556	1	6,000	,057
	Based on trimmed mean	5,781	1	6	,053

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
daya hambat	siwak 50%	,293	4	.	,860	4	,262
	kemangi 50%	,306	4	.	,772	4	,061

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
daya hambat	Based on Mean	168,750	1	6	,000
	Based on Median	112,500	1	6	,000
	Based on Median and with adjusted df	112,500	1	6,000	,000
	Based on trimmed mean	167,715	1	6	,000

Group Statistics

	Perlakuan	N	Mean	Std. Deviation	Std. Error Mean
daya hambat	siwak 30%	4	7,2000	,14142	,07071
	kemangi 30%	4	17,5000	1,08012	,54006

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	Df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
daya hambat	Equal variances assumed	3,992	,093	-18,910	6	,000	-10,30000	,54467	-11,63276	-8,96724
	Equal variances not assumed			-18,910	3,103	,000	-10,30000	,54467	-12,00134	-8,59866

Group Statistics

	Perlakuan	N	Mean	Std. Deviation	Std. Error Mean
daya hambat	siwak 40%	4	8,2750	,20616	,10308
	kemangi 40%	4	18,4750	,45735	,22867

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
daya hambat	Equal variances assumed	5,791	,053	-40,665	6	,000	-10,20000	,25083	-10,81376	-9,58624

	Equal variances not assumed			-40,665	4,171	,000	-10,20000	,25083	-10,88532	-9,51468

Mann-Whitney Test

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
daya hambat	siwak 50%	4	2,50	10,00
	kemangi 50%	4	6,50	26,00
	Total	8		

Test Statistics[a]

	daya hambat
Mann-Whitney U	,000
Wilcoxon W	10,000
Z	-2,337
Asymp. Sig. (2-tailed)	,019
Exact Sig. [2*(1-tailed Sig.)]	,029[b]

a. Grouping Variable: perlakuan

b. Not corrected for ties.

1.3 Surat Penelitian

KOMISI ETIK PENELITIAN KESEHATAN
FAKULTAS KEDOKTERAN GIGI
UNIVERSITAS ISLAM SULTAN AGUNG
Sekretariat: Fakultas Kedokteran Gigi UNISSULA
Jl. Raya Kaligawe Km.04 Semarang 50112 Telp. (024) 6583584, Fax 024-6594366

KETERANGAN LOLOS KAJI ETIK
DESCRIPTION OF ETHICAL APPROVAL
"ETHICAL APPROVAL"
No. 256/B.1-KEPK/SA-FKG/XII/2020

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : ALIF PRIZA RAMADHAN
Principal In Investigator

Pembimbing : 1. drg. R. Rama Putranto, M.Kes, PhD (Orth)
Supervisor 2. Anggun Feranisa A. S.Si, M.Biotech

Nama Institusi : FAKULTAS KEDOKTERAN GIGI UNISSULA
Name of the Institution

Tempat Penelitian : 1. LABORATORIUM MIKROBIOLOGI FAKULTAS KEDOKTERAN UNISSULA
Research Place 2. LABORATORIUM KIMIA FAKULTAS KEDOKTERAN UNISSULA

Dengan Judul :
Tittle

PERBANDINGAN UJI EFEKTIVITAS DAYA ANTIBAKTERI EKSTRAK KEMANGI (*Ocimum Basilicum L.*) DENGAN EKSTRAK SIWAK (*Salvadora Persica*) TERHADAP PERTUMBUHAN BAKTERI *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 indicator 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 /

Guidelines This is as indicated by the fulfillment of the indicators of each standard.

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 1 Desember 2020 sampai dengan tanggal 1 Desember 2021.

This declaration of ethics applies during the period December 1, 2020 until December 1, 2021.

Semarang, 8 Desember 2020
Ketua Komisi Etik Penelitian Kesehatan
Fakultas Kedokteran Gigi UNISSULA

Mengetahui,
Wakil Dekan I

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

Dr. Drg. Sandy Christiono, Sp.KGA
NIK. 210101012

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 : 073/KTI/SA-FKG/XII/2020 Semarang, 16 Desember 2020
Hal : **Ijin Penelitian**

Kepada : Kepala Laboratorium Kimia Fakultas Kedokteran
Universitas Islam Sultan Agung (UNISSULA)
Di –
Tempat

Assalamu 'alaikum wr wb

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

Nama	: Alif priza ramadhan
NIM	: 31101600554
Alamat	: jl. Flamboyan rt 04 rw 10 purin, patebon kendal
Judul Penelitian	: perbandingan uji efektivitas daya antibakteri ekstrak kemangi (Ocimum basilicum l.) Dengan ekstrak siwak (Salvadora persica) terhadap pertumbuhan bakteri Streptococcus mutans
Waktu	: 1 Bulan

Bersama ini kami mohon kesediaan untuk dapat memberikan Ijin Penelitian di Laboratorium Kimia Fakultas Kedokteran Universitas Islam Sultan Agung (UNISSULA) Semarang.

Demikian permohonan kami atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Wassalamu 'alaikum wr wb

Mengetahui,
Ka Prodi

drg. Musri Amurwaningsih, M.Med.Ed
NIK. 210100058

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email : informasi@unissula.ac.id web : www.unissula.ac.id

FAKULTAS KEDOKTERAN GIGI Bismillah Membangun Generasi Khaira Ummah

Nomor : 073/KTI/SA-FKG/XII/2020 Semarang, 16 Desember 2020
Hal : **Ijin Penelitian**

Kepada : Kepala Laboratorium Mikrobiologi
Universitas Islam Sultan Agung (UNISSULA)
Di –
Tempat

Assalamu 'alaikum wr wb

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

Nama	: Alif priza ramadhan
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Waktu	: 1 Bulan

Bersama ini kami mohon kesediaan untuk dapat memberikan Ijin Penelitian di Laboratorium Mikrobiologi Universitas Islam Sultan Agung (UNISSULA) Semarang.

Demikian permohonan kami atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Wassalamu 'alaikum wr wb

Mengetahui,
Ka Prodi

drg. Musri Amurwaningsih, M.Med.Ed
NIK. 210100058

UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
INTEGRATED BIOMEDICAL LABORATORY
FAKULTAS KEDOKTERAN
Jl. Raya Kaligawe KM.4, Semarang 50112
Tel. +62246583584, email: ibl@unissula.ac.id
Laboratorium Biomedik Terintegrasi

Lampiran : halaman 1

Hasil Penelitian

Perlakuan	Hasil (Zona Hambat)			
	Replikasi 1	Replikasi 2	Replikasi 3	Replikasi 4
Kontrol +	17,50 mm	18,75 mm	18,75 mm	18,75 mm
Kontrol -	0 mm	0 mm	0 mm	0 mm
Siwak 30%	7,30 mm	7,20 mm	7,30 mm	7,00 mm
Siwak 40%	8,00 mm	8,30 mm	8,30 mm	8,50 mm
Siwak 50%	10,20 mm	10,50 mm	10,00 mm	10,50 mm
Kemangi 30%	18,00 mm	17,50 mm	16,00 mm	18,50 mm
Kemangi 40%	18,70 mm	18,00 mm	18,20 mm	19,00 mm
Kemangi 50%	19,00 mm	21,00 mm	21,00 mm	19,20 mm

1.4 Dokumentasi Penelitian

Kemangi

Siwak

Pengeringan

Maserasi

Penyaringan awal kemangi

Penyaringan awal siwak

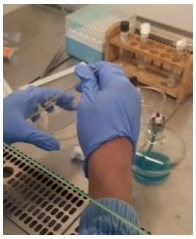
Penyaringan tahap dua kemangi

Penyaringan tahap dua siwak

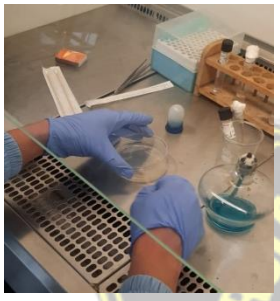
Rotary Evaporator

Alat dan bahan

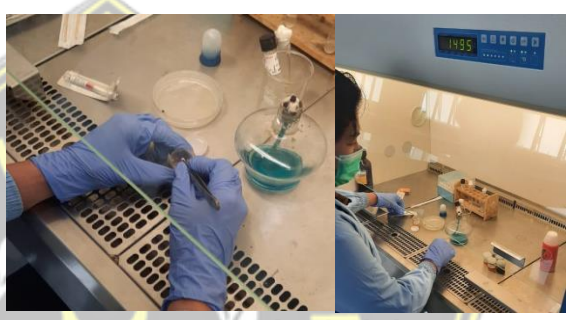
Mc Farland



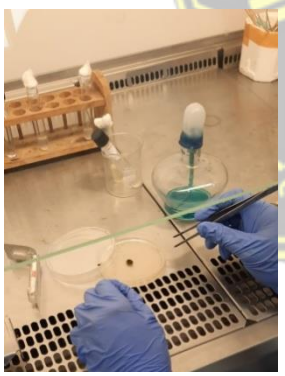
Pengambilan bakteri



Pengolesan bakteri ke media MHA

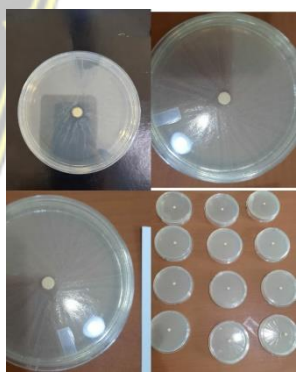


Pencampuran disc ke bahan uji



Peletakan disc ke Media MHA

Hasil zona hambat kemangi



Hasil zona hambat siwak

OK

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