

LAMPIRAN 1 DATA HASIL PERCOBAAN

Hasil pengamatan zona inhibisi cakram ekstrak etanol batang Kayu Manis (*Cinnamomum burmanii*) pada *Mueller Hinton Agar* yang telah diinokulasi oleh mikroorganisme uji *Staphylococcus aureus* I

Kuman	Kadar ekstrak etanol batang kayu manis (%)				Kontrol positif (Gentamisin)
<i>Staphylococcus aureus</i> I	50%	25%	12.5%	6.25%	
Zona inhibisi pada percobaan I (mm)	9.8	8.2	7.6	7.1	12
Zona inhibisi pada percobaan II (mm)	10	10	8	7	14
Zona inhibisi pada percobaan III (mm)	11.2	9.5	8.7	6.2	16

Tabel 4.2 Hasil pengamatan zona inhibisi cakram ekstrak etanol batang Kayu Manis (*Cinnamomum burmanii*) pada *Mueller Hinton Agar* yang telah diinokulasi oleh mikroorganisme uji *Staphylococcus aureus* II

Kuman	Kadar ekstrak etanol batang kayu manis (%)				Kontrol positif (Gentamisin)
<i>Staphylococcus aureus</i> II	50%	25%	12.5%	6.25%	
Zona inhibisi pada percobaan I (mm)	12.8	12.2	11.6	9.3	18
Zona inhibisi pada percobaan II (mm)	14.3	13.8	12.7	11.4	20
Zona inhibisi pada percobaan III (mm)	13.3	12.6	10.7	9.3	18

Tabel 4.3 Hasil pengamatan zona inhibisi cakram ekstrak etanol batang Kayu Manis (*Cinnamomum burmanii*) pada *Mueller Hinton Agar* yang telah diinokulasi oleh mikroorganisme uji *Pseudomonas aeruginosa*

Kuman	Kadar ekstrak etanol batang kayu manis (%)				Kontrol positif (Gentamisin)
<i>Pseudomonas aeruginosa</i>	50%	25%	12.5%	6.25%	
Zona inhibisi pada percobaan I (mm)	11.3	9.5	8.8	7.1	21
Zona inhibisi pada percobaan II (mm)	13.5	10.7	9.3	6.2	20
Zona inhibisi pada percobaan III (mm)	12.1	10.7	8.3	6.8	20.5

LAMPIRAN 2 SURAT IJIN PENELITIAN

**YAYASAN BADAN RUMAH SAKIT GEREJA KRISTEN PASUNDAN**
RUMAH SAKIT IMMANUEL
Jalan Kopo No. 161 Telp. (022) 5201656 - 5201672, 5224214-21 - Fax. (022) 5224219 Bandung - 40234
e-mail : info@rsimmanuel.co.id

Nomor : 009 /Dirut/II/2012
Perihal : Ijin Penelitian

Bandung, 7 Februari 2012

Kepada Yth.
Dekan Fakultas Kedokteran
Universitas Kristen Maranatha
Jl. Prof. drg. Suria Sumantri, MPH. No. 65
Bandung 40274

Dengan Hormat,
Membalas surat Saudara dengan nomor: 009/FK-UKM/I/2012 tertanggal 6 Januari 2012, perihal Permohonan Penelitian Mahasiswa Saudara,

Nama : Kevin Mak
NRP : 0910080
Judul : "Efek Minyak Essensial Kayu Manis terhadap Pertumbuhan Pseudomonas
Denginosa dan Staphylococcus Aureus"

Pada prinsipnya kami tidak berkeberatan dan menerima mahasiswa Saudara untuk melakukan Penelitian di Instalasi Laboratorium Rumah Sakit Immanuel, terhitung mulai tanggal 13 Februari – 13 Mei 2012.

Untuk pelaksanaan teknis dan administrasi lebih lanjut, dapat menghubungi Bagian DIKLIT Rumah Sakit Immanuel.

Demikian, agar menjadi maklum

Direksi
Rumah Sakit Immanuel,

/ dr. Rully Sjambali, FCN., SpGK., M.Kes
Direktur Utama

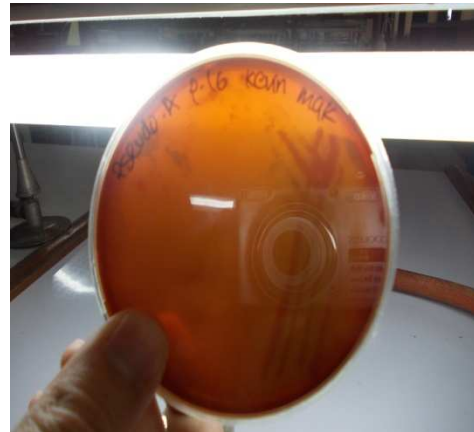
Tembusan :
1. Kepala Instalasi Laboratorium
2. Arsip.-

" Buah Kasih Adalah Pelayanan "

LAMPIRAN 3 PROSEDUR PENELITIAN



Koloni *S.aureus* pada Lempeng agar darah (LAD)



Koloni *P.aeruginosa* pada LAD



Pembuatan ekstrak etanol batang kayu manis



Zona inhibisi oleh ekstrak etanol batang kayu manis



Kontrol positif gentamisin

LAMPIRAN 4

Data Statistika *S.aureus I dan II*, *P.aeruginosa*, Gentamisin-Kayu Manis

Descriptives

Staphylococcus-1

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kayu Manis-50%	3	10.333	.7572	.4372	8.452	12.214	9.8	11.2
Kayu Manis-25%	3	9.233	.9292	.5364	6.925	11.541	8.2	10.0
Kayu Manis 12.5%	3	8.100	.5568	.3215	6.717	9.483	7.6	8.7
Kayu Manis-6.25%	3	6.767	.4933	.2848	5.541	7.992	6.2	7.1
Gentamycin	3	14.000	2.0000	1.1547	9.032	18.968	12.0	16.0
Total	15	9.687	2.7097	.6997	8.186	11.187	6.2	16.0

Test of Homogeneity of Variances

Staphylococcus-1

Levene Statistic	df1	df2	Sig.
1.374	4	10	.310

ANOVA

Staphylococcus-1

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	90.817	4	22.704	18.952	.000
Within Groups	11.980	10	1.198		
Total	102.797	14			

Multiple Comparisons

Dependent Variable: Staphylococcus-1
LSD

(I) Zona Inhibisi-1	(J) Zona Inhibisi-1	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kayu Manis-50%	Kayu Manis-25%	1.100	.8937	.247	-.891	3.091
	Kayu Manis 12.5%	2.233(*)	.8937	.031	.242	4.225
	Kayu Manis-6.25%	3.567(*)	.8937	.003	1.575	5.558
	Gentamycin	-3.667(*)	.8937	.002	-5.658	-1.675
Kayu Manis-25%	Kayu Manis-50%	-1.100	.8937	.247	-3.091	.891
	Kayu Manis 12.5%	1.133	.8937	.233	-.858	3.125
	Kayu Manis-6.25%	2.467(*)	.8937	.020	.475	4.458
	Gentamycin	-4.767(*)	.8937	.000	-6.758	-2.775
Kayu Manis 12.5%	Kayu Manis-50%	-2.233(*)	.8937	.031	-4.225	-.242
	Kayu Manis-25%	-1.133	.8937	.233	-3.125	.858
	Kayu Manis-6.25%	1.333	.8937	.167	-.658	3.325
	Gentamycin	-5.900(*)	.8937	.000	-7.891	-3.909
Kayu Manis-6.25%	Kayu Manis-50%	-3.567(*)	.8937	.003	-5.558	-1.575
	Kayu Manis-25%	-2.467(*)	.8937	.020	-4.458	-.475
	Kayu Manis 12.5%	-1.333	.8937	.167	-3.325	.658
	Gentamycin	-7.233(*)	.8937	.000	-9.225	-5.242
Gentamycin	Kayu Manis-50%	3.667(*)	.8937	.002	1.675	5.658
	Kayu Manis-25%	4.767(*)	.8937	.000	2.775	6.758
	Kayu Manis 12.5%	5.900(*)	.8937	.000	3.909	7.891
	Kayu Manis-6.25%	7.233(*)	.8937	.000	5.242	9.225

* The mean difference is significant at the .05 level.

Descriptives

Staphylococcus-2

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kayu Manis- 50%	3	13.467	.7638	.4410	11.569	15.364	12.8	14.3
Kayu Manis- 25%	3	12.867	.8327	.4807	10.798	14.935	12.2	13.8
Kayu Manis 12.5%	3	11.667	1.0017	.5783	9.178	14.155	10.7	12.7
Kayu Manis- 6.25%	3	10.000	1.2124	.7000	6.988	13.012	9.3	11.4
Gentamycin	3	18.667	1.1547	.6667	15.798	21.535	18.0	20.0
Total	15	13.333	3.1382	.8103	11.595	15.071	9.3	20.0

Test of Homogeneity of Variances

Staphylococcus-2

Levene Statistic	df1	df2	Sig.
.494	4	10	.741

ANOVA

Staphylococcus-2

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	127.707	4	31.927	31.403	.000
Within Groups	10.167	10	1.017		
Total	137.873	14			

Multiple Comparisons

Dependent Variable: Staphylococcus-2
LSD

(I) Zona Inhibisi-2	(J) Zona Inhibisi-2	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kayu Manis-50%	Kayu Manis-25%	.600	.8233	.483	-1.234	2.434
	Kayu Manis 12.5%	1.800	.8233	.054	-.034	3.634
	Kayu Manis-6.25%	3.467(*)	.8233	.002	1.632	5.301
	Gentamycin	-5.200(*)	.8233	.000	-7.034	-3.366
Kayu Manis-25%	Kayu Manis-50%	-.600	.8233	.483	-2.434	1.234
	Kayu Manis 12.5%	1.200	.8233	.176	-.634	3.034
	Kayu Manis-6.25%	2.867(*)	.8233	.006	1.032	4.701
	Gentamycin	-5.800(*)	.8233	.000	-7.634	-3.966
Kayu Manis 12.5%	Kayu Manis-50%	-1.800	.8233	.054	-3.634	.034
	Kayu Manis-25%	-1.200	.8233	.176	-3.034	.634
	Kayu Manis-6.25%	1.667	.8233	.070	-.168	3.501
	Gentamycin	-7.000(*)	.8233	.000	-8.834	-5.166
Kayu Manis-6.25%	Kayu Manis-50%	-3.467(*)	.8233	.002	-5.301	-1.632
	Kayu Manis-25%	-2.867(*)	.8233	.006	-4.701	-1.032
	Kayu Manis 12.5%	-1.667	.8233	.070	-3.501	.168
	Gentamycin	-8.667(*)	.8233	.000	-10.501	-6.832
Gentamycin	Kayu Manis-50%	5.200(*)	.8233	.000	3.366	7.034
	Kayu Manis-25%	5.800(*)	.8233	.000	3.966	7.634
	Kayu Manis 12.5%	7.000(*)	.8233	.000	5.166	8.834
	Kayu Manis-6.25%	8.667(*)	.8233	.000	6.832	10.501

* The mean difference is significant at the .05 level.

Descriptives

Pseudomonas aeruginosa

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kayu Manis-50%	3	12.300	1.1136	.6429	9.534	15.066	11.3	13.5
Kayu Manis-25%	3	10.300	.6928	.4000	8.579	12.021	9.5	10.7
Kayu Manis 12.5%	3	8.800	.5000	.2887	7.558	10.042	8.3	9.3
Kayu Manis-6.25%	3	6.700	.4583	.2646	5.562	7.838	6.2	7.1
Gentamycin	3	20.500	.5000	.2887	19.258	21.742	20.0	21.0
Total	15	11.720	4.9596	1.2806	8.973	14.467	6.2	21.0

Test of Homogeneity of Variances

Pseudomonas aeruginosa

Levene Statistic	df1	df2	Sig.
1.166	4	10	.382

ANOVA

Pseudomonas aeruginosa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	339.504	4	84.876	174.642	.000
Within Groups	4.860	10	.486		
Total	344.364	14			

Multiple Comparisons

Dependent Variable: Pseudomonas aeruginosa
LSD

(I) Zona Inhibisi-3	(J) Zona Inhibisi-3	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kayu Manis-50%	Kayu Manis-25%	2.000(*)	.5692	.006	.732	3.268
	Kayu Manis 12.5%	3.500(*)	.5692	.000	2.232	4.768
	Kayu Manis-6.25%	5.600(*)	.5692	.000	4.332	6.868
	Gentamycin	-8.200(*)	.5692	.000	-9.468	-6.932
Kayu Manis-25%	Kayu Manis-50%	-2.000(*)	.5692	.006	-3.268	-.732
	Kayu Manis 12.5%	1.500(*)	.5692	.025	.232	2.768
	Kayu Manis-6.25%	3.600(*)	.5692	.000	2.332	4.868
	Gentamycin	-10.200(*)	.5692	.000	-11.468	-8.932
Kayu Manis 12.5%	Kayu Manis-50%	-3.500(*)	.5692	.000	-4.768	-2.232
	Kayu Manis-25%	-1.500(*)	.5692	.025	-2.768	-.232
	Kayu Manis-6.25%	2.100(*)	.5692	.004	.832	3.368
	Gentamycin	-11.700(*)	.5692	.000	-12.968	-10.432
Kayu Manis-6.25%	Kayu Manis-50%	-5.600(*)	.5692	.000	-6.868	-4.332
	Kayu Manis-25%	-3.600(*)	.5692	.000	-4.868	-2.332
	Kayu Manis 12.5%	-2.100(*)	.5692	.004	-3.368	-.832
	Gentamycin	-13.800(*)	.5692	.000	-15.068	-12.532
Gentamycin	Kayu Manis-50%	8.200(*)	.5692	.000	6.932	9.468
	Kayu Manis-25%	10.200(*)	.5692	.000	8.932	11.468
	Kayu Manis 12.5%	11.700(*)	.5692	.000	10.432	12.968
	Kayu Manis-6.25%	13.800(*)	.5692	.000	12.532	15.068

* The mean difference is significant at the .05 level.

DAFTAR RIWAYAT HIDUP

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Riwayat Pendidikan :

- 1999, lulus TK Duta Ursula, Jakarta.
- 2004, lulus SD Gandhi Memorial International School Ancol, Jakarta.
- 2006, lulus SMP Bina Bangsa School Kebon Jeruk, Jakarta.
- 2009, lulus SMA Bina Bangsa School Kebon Jeruk, Jakarta.
- 2009, Mahasiswa Fakultas Kedokteran Umum Universitas Kristen Maranatha Bandung.