

LAMPIRAN

Lampiran 1. Tabel Uji Statistik Pelepasan *Chlorhexidine* (CHX) pada Membran Carbonate Hidroxyapatit (CHA)

1. Uji Normalitas dari data kuantitatif Pelepasan dan Degradasi CHX pada CHA

a. Pelepasan

Tests of Normality							
Waktu	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Absorbansi_pelepasan	1 jam	.220	5	.200*	.916	5	.504
	2 jam	.320	5	.104	.776	5	.051
	3 jam	.218	5	.200*	.885	5	.330
	4 jam	.278	5	.200*	.871	5	.271
	24 jam	.168	5	.200*	.988	5	.971
	48 jam	.174	5	.200*	.991	5	.983

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

a. Lilliefors Significance Correction

b. Degradasi

Tests of Normality							
Waktu	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Degradasi	1 jam	.217	5	.200*	.908	5	.457
	2 jam	.310	5	.130	.834	5	.149
	3 jam	.304	5	.148	.787	5	.063
	6 jam	.209	5	.200*	.968	5	.863
	24 jam	.309	5	.135	.814	5	.104
	48 jam	.386	5	.014	.793	5	.071
	72 jam	.301	5	.157	.809	5	.096
	HCL	.171	5	.200*	.974	5	.900

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

a. Lilliefors Significance Correction

2. Uji *One Way Anova* dan *LSD* pada data kuantitatif Pelepasan dan Degradasi CHX pada CHA

a. Pelepasan

ANOVA

Absorbansi_pelepasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.903	5	1.181	12.470	.000
Within Groups	2.272	24	.095		
Total	8.175	29			

Multiple Comparisons

Dependent Variable: Absorbansi_pelepasan

LSD

(I) Waktu	(J) Waktu	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 jam	2 jam	-.1671800	.1946016	.399	-.568818	.234458
	3 jam	-.5642800*	.1946016	.008	-.965918	-.162642
	4 jam	-1.0522600*	.1946016	.000	-1.453898	-.650622
	24 jam	-.8939600*	.1946016	.000	-1.295598	-.492322
	48 jam	-1.1944600*	.1946016	.000	-1.596098	-.792822
2 jam	1 jam	.1671800	.1946016	.399	-.234458	.568818
	3 jam	-.3971000	.1946016	.052	-.798738	.004538
	4 jam	-.8850800*	.1946016	.000	-1.286718	-.483442
	24 jam	-.7267800*	.1946016	.001	-1.128418	-.325142
	48 jam	-1.0272800*	.1946016	.000	-1.428918	-.625642
3 jam	1 jam	.5642800*	.1946016	.008	.162642	.965918
	2 jam	.3971000	.1946016	.052	-.004538	.798738
	4 jam	-.4879800*	.1946016	.019	-.889618	-.086342
	24 jam	-.3296800	.1946016	.103	-.731318	.071958
	48 jam	-.6301800*	.1946016	.003	-1.031818	-.228542
4 jam	1 jam	1.0522600*	.1946016	.000	.650622	1.453898
	2 jam	.8850800*	.1946016	.000	.483442	1.286718
	3 jam	.4879800*	.1946016	.019	.086342	.889618
	24 jam	.1583000	.1946016	.424	-.243338	.559938
	48 jam	-.1422000	.1946016	.472	-.543838	.259438
24 jam	1 jam	.8939600*	.1946016	.000	.492322	1.295598
	2 jam	.7267800*	.1946016	.001	.325142	1.128418
	3 jam	.3296800	.1946016	.103	-.071958	.731318
	4 jam	-.1583000	.1946016	.424	-.559938	.243338
	48 jam	-.3005000	.1946016	.136	-.702138	.101138
48 jam	1 jam	1.1944600*	.1946016	.000	.792822	1.596098
	2 jam	1.0272800*	.1946016	.000	.625642	1.428918
	3 jam	.6301800*	.1946016	.003	.228542	1.031818
	4 jam	.1422000	.1946016	.472	-.259438	.543838
	24 jam	.3005000	.1946016	.136	-.101138	.702138

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

b. Degradasi

ANOVA

Degradasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.386	7	.484	22.918	.000
Within Groups	.675	32	.021		
Total	4.062	39			

Multiple Comparisons

Dependent Variable: Degradasi

LSD

(I) Waktu	(J) Waktu	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1 jam	2 jam	.431900*	.091885	.000	.24474	.61906
	3 jam	.496480*	.091885	.000	.30932	.68364
	6 jam	.557840*	.091885	.000	.37068	.74500
	24 jam	.618800*	.091885	.000	.43164	.80596
	48 jam	.868220*	.091885	.000	.68106	1.05538
	72 jam	.901240*	.091885	.000	.71408	1.08840
	HCL	.936820*	.091885	.000	.74966	1.12398
2 jam	1 jam	-.431900*	.091885	.000	-.61906	-.24474
	3 jam	.064580	.091885	.487	-.12258	.25174
	6 jam	.125940	.091885	.180	-.06122	.31310
	24 jam	.186900	.091885	.050	-.00026	.37406
	48 jam	.436320*	.091885	.000	.24916	.62348
	72 jam	.469340*	.091885	.000	.28218	.65650
	HCL	.504920*	.091885	.000	.31776	.69208
3 jam	1 jam	-.496480*	.091885	.000	-.68364	-.30932
	2 jam	-.064580	.091885	.487	-.25174	.12258
	6 jam	.061360	.091885	.509	-.12580	.24852
	24 jam	.122320	.091885	.193	-.06484	.30948
	48 jam	.371740*	.091885	.000	.18458	.55890
	72 jam	.404760*	.091885	.000	.21760	.59192
	HCL	.440340*	.091885	.000	.25318	.62750
6 jam	1 jam	-.557840*	.091885	.000	-.74500	-.37068
	2 jam	-.125940	.091885	.180	-.31310	.06122
	3 jam	-.061360	.091885	.509	-.24852	.12580
	24 jam	.060960	.091885	.512	-.12620	.24812
	48 jam	.310380*	.091885	.002	.12322	.49754
	72 jam	.343400*	.091885	.001	.15624	.53056
	HCL	.378980*	.091885	.000	.19182	.56614
24 jam	1 jam	-.618800*	.091885	.000	-.80596	-.43164
	2 jam	-.186900	.091885	.050	-.37406	.00026
	3 jam	-.122320	.091885	.193	-.30948	.06484
	6 jam	-.060960	.091885	.512	-.24812	.12620
	48 jam	.249420*	.091885	.011	.06226	.43658
	72 jam	.282440*	.091885	.004	.09528	.46960
	HCL	.318020*	.091885	.002	.13086	.50518
48 jam	1 jam	-.868220*	.091885	.000	-1.05538	-.68106
	2 jam	-.436320*	.091885	.000	-.62348	-.24916
	3 jam	-.371740*	.091885	.000	-.55890	-.18458
	6 jam	-.310380*	.091885	.002	-.49754	-.12322
	24 jam	-.249420*	.091885	.011	-.43658	-.06226
	72 jam	.033020	.091885	.722	-.15414	.22018
	HCL	.068600	.091885	.461	-.11856	.25576
72 jam	1 jam	-.901240*	.091885	.000	-1.08840	-.71408
	2 jam	-.469340*	.091885	.000	-.65650	-.28218
	3 jam	-.404760*	.091885	.000	-.59192	-.21760
	6 jam	-.343400*	.091885	.001	-.53056	-.15624
	24 jam	-.282440*	.091885	.004	-.46960	-.09528
	48 jam	-.033020	.091885	.722	-.22018	.15414
	HCL	.035580	.091885	.701	-.15158	.22274
HCL	1 jam	-.936820*	.091885	.000	-1.12398	-.74966
	2 jam	-.504920*	.091885	.000	-.69208	-.31776
	3 jam	-.440340*	.091885	.000	-.62750	-.25318
	6 jam	-.378980*	.091885	.000	-.56614	-.19182
	24 jam	-.318020*	.091885	.002	-.50518	-.13086
	48 jam	-.068600	.091885	.461	-.25576	.11856
	72 jam	-.035580	.091885	.701	-.22274	.15158

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

Lampiran 2. Dokumentasi Alat dan Bahan Penelitian**1. Alat Penelitian**

 A photograph of a white and blue Mettler 10560 analytic balance. The digital display shows 0.000 g. The balance is on a laboratory bench with a glass draft shield.	 A photograph of a white centrifuge with a black lid. The digital display shows 35 and 2. The control panel has buttons for START and STOP.
<p><i>Analytic Balance</i></p>	<p><i>Centrifuge</i></p>
 A photograph of a white UV-Vis Spectrofotometer. It has a large screen and a control panel with several buttons.	 A photograph of two white ACURA 825 auto-calibrating micropipettes. The display on the pipettes shows 1000. The pipettes are being held by a hand.
<p><i>UV-Vis Spectrofotometer</i></p>	<p><i>Micropipet</i></p>



Inkubator

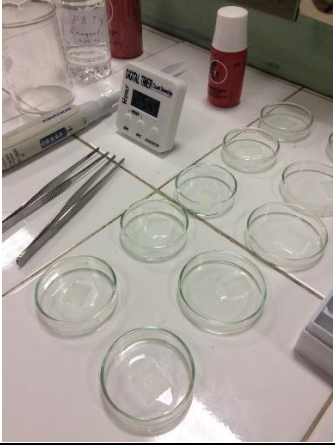


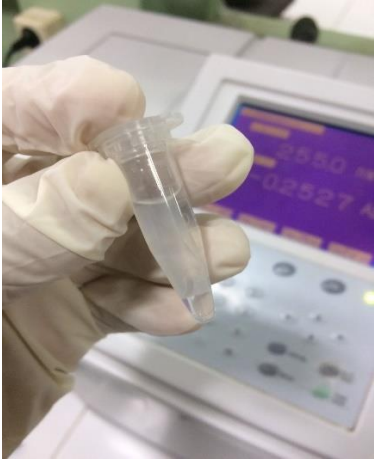
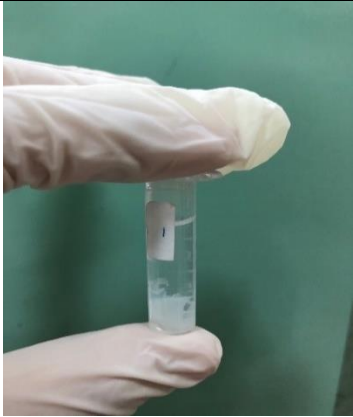
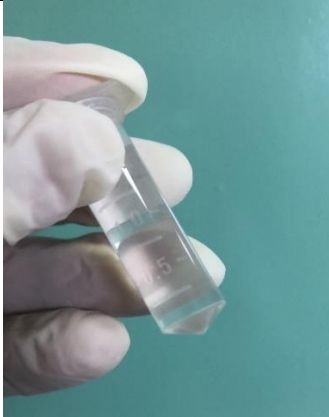


Microtube



2. Bahan Penelitian

	
<p>Chlorhexidine Gluconate 0.2%</p>	<p>Larutan PBS</p>
	
<p>Membran <i>Carbonate Hydroxyapatite</i></p>	<p>Aquades</p>

Lampiran 3. Dokumentasi Kegiatan Penelitian

	
Pemuatan membran CHA pada larutan CHX	Pemberian larutan PBS
	
Inkubasi sampel	Pengukuran nilai absorbansi
	
Proses Degradasi Membran	Membran terdegradasi 100%

Lampiran 4. Surat Keterangan Kelayakan Etika Penelitian

	UMY UNIVERSITAS MUHAMMADIYAH YOGYAKARTA <small>Unggul & Islami</small>	FAKULTAS KEDOKTERAN DAN ILMU KESEHATAN
Nomor : 488/EP-FKIK-UMY/X/2018		
<u>KETERANGAN LOLOS UJI ETIK</u> <i>ETHICAL APPROVAL</i>		
Komite Etik Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta dalam upaya melindungi hak asasi dan kesejahteraan responden/subyek penelitian, telah mengkaji dengan teliti protokol berjudul :		
<i>The Ethics Committee of the Faculty of Medicine and Health Sciences, University of Muhammadiyah Yogyakarta, with regards of the protection of human rights and welfare in research, has carefully reviewed the research protocol entitled :</i>		
"Pelepasan Chlorhexidine Gluconate 0.2% yang Termuat dalam Perancah Sintetik Carbonate Hydroxyapatite"		
<u>Peneliti Utama</u> <i>Principal Investigator</i>	: Ika Andriyani Dila Rahmanida	
<u>Nama Institusi</u> <i>Name of the Institution</i>	: Program Studi Kedokteran Gigi FKIK UMY	
<u>Negara</u> <i>Country</i>	: Indonesia	
Dan telah menyetujui protokol tersebut diatas. <i>And approved the above-mentioned protocol.</i>		
Yogyakarta, 17 Oktober 2018  Ditek Hidayati, M.Kes. FSPH., FISC.M.		
*Peneliti Berkewajiban : <ol style="list-style-type: none"> 1. Menjaga kerahasiaan identitas subyek penelitian 2. Memberitahukan status penelitian apabila : <ol style="list-style-type: none"> a. Setelah masa berlakunya keterangan lolos uji etik (1 tahun sejak tanggal terbit), penelitian masih belum selesai, dalam hal ini <i>ethical clearance</i> harus diperpanjang b. Penelitian berhenti di tengah jalan 3. Melaporkan kejadian serius yang tidak diinginkan (<i>serious adverse events</i>). 4. Peneliti tidak boleh melakukan tindakan apapun pada responden/subyek sebelum penelitian lolos uji etik. 		
ADDRESS Kampus Terpadu UMY Gd. Sdr. Walidah LT.3 Jl. Brawijaya (Lingkar Selatan) Tamantirto - Kasihan - Bantul D I Yogyakarta 55183	CONTACT Phone : (0274) 387656 ext. 213 Fax : (0274) 387658 Email : fkik@umy.ac.id www.fkik.umy.ac.id	

Lampiran 5. Surat Ijin Penggunaan Laboratorium


**LABORATORIUM TEKNOLOGI FARMASI
PROGRAM STUDI FARMASI FKIK UMY**

 Jl. Lingkar Selatan, Tamantirto, Kasihan, Bantul, Yogyakarta 55183
 Telp. (0274) 387656, Fax. (0274) 387658

PRODI FARMASI FAKULTAS KEDOKTERAN DAN ILMU KESEHATAN UMY FORMULIR PENDAFTARAN "FORMULASI"	No. Dokumen : LFPP FKIK-UMY/IK/11/14
	Tanggal Terbit : 1 April 2017
	No. Revisi : 02
	Halaman : 1 dari 1

NO. FORM	-
NAMA	DILA RAHMANIDA
ALAMAT	JLN UEP SUMOHARTO, NO.13, RT 01 RW 13, KAWORPEJO
INSTANSI	PSKG UMY (FKIK)
NO. TELP/HP	081220806711
NAMA SAMPEL	CHLORHEXIDINE (CHK) dan CARBONATE HYDROXYAPATITE (CHR)
KODE SAMPEL	-
PENGUJIAN	SENTRIPIUGASI dan MENGGUKUP NILAI ABSORBANSI CHR pada CHA dengan SPEKTROFOTOMETER
TANGGAL MASUK	Januari
TANGGAL JADI	-
PJ LABORAN	

Yogyakarta, 7 Desember 2018.

Petugas Penerima,

Satria

Yang Mengajukan,

Dila Rahmanida

 Menyetujui,
 Kepala Lab. Teknologi Farmasi

puguh n-a

Laboratorium Biokimia FKIK UMY
Jl. Ringroad selatan Tamantirto Kasihan Bantul.

SURAT KETERANGAN

No: 056/PEN/IV/2019

Saya yang namanya tercantum di bawah ini, telah selesai melaksanakan tugas Penelitian / KTI di Laboratorium Biokimia FKIK UMY.

NO	NAMA	NO MHS	JURUSAN	KET
1	Dila Rahmanida	20150340061	Ked. Gigi	

Dengan judul Penelitian :
"Pelepasan *Chlorhexidine Gluconate* 0,2% yang Termuat dalam Perancah Sintetik
Carbonate Hydroxyapatite"

Demikian surat keterangan ini dibuat agar di penggunaan sebagaimana mestinya.



Yogyakarta, 13 April 2019
Perugas Lab. Penelitian

(Murfiandi)