

## Lampiran 1

### PERNYATAAN KEASLIAN TULISAN

Saya yang bertanda tangan di bawah ini :

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Program Studi : Program Studi Pendidikan Dokter Gigi

Fakultas Kedokteran Universitas Brawijaya

menyatakan dengan sebenarnya bahwa Tugas Akhir yang saya tulis ini benar-benar hasil karya sendiri, bukan merupakan pengambilalihan tulisan atau pikiran orang lain yang saya akui sebagai tulisan atau pikiran saya sendiri. Apabila dikemudian hari dapat dibuktikan bahwa tugas akhir ini adalah hasil jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

Malang, 9 Mei 2014

(Alana Aluditasari)

NIM. 105070401111010



## Lampiran 2

### FOTO KEGIATAN



Gambar 1. Mandibula *Rattus novogicus* sebelum pencabutan gigi



Gambar 2. Alat yang digunakan untuk pencabutan berupa *needle holder* dan lecron yang dimodifikasi



Gambar 3. Pencabutan gigi *Rattus novogicus*



**Gambar 4. Mandibula *Rattus novergicus* pasca pencabutan gigi**



**Gambar 5. Gigi insisivus kanan mandibula *Rattus novergicus***



**Gambar 6. Ekstrak buah alpukat (*Persea americana*)**



### Lampiran 3

#### DATA HASIL PENELITIAN

#### Kelompok Tikus H+3

**Tabel 1. Hasil Pengamatan Ketebalan Epitel (Dalam  $\mu\text{m}$ )**

Sisi Perlakuan	1	2	3	4	Rerata	Rerata Perlakuan
Kontrol-1	0	8,99	7,14	10,36	6,62	7,41
Kontrol-2	0	9,87	11,63	7,39	7,25	
Kontrol-3	10,04	9,35	0	13,71	8,36	
150 mg/KgBB-1	24,39	0	26,03	17,36	16,94	11,66
150 mg/KgBB-2	13,12	15,21	10,82	0	9,78	
150 mg/KgBB-3	10,85	10,97	11,23	0	8,26	
300 mg/KgBB-1	24,18	11,98	12,99	0	12,28	14,80
300 mg/KgBB-2	19,23	20,97	23,14	9,81	18,28	
300 mg/KgBB-3	0	13,74	14,32	27,41	13,86	
450 mg/KgBB-1	20,19	14,41	10,32	0	11,23	16,59
450 mg/KgBB-2	26,43	17,11	21,09	19,77	21,10	
450 mg/KgBB-3	18,26	14,22	7,89	29,42	17,44	

**Tabel 2. Hasil Uji Normalitas**

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Dosis	.166	12	.200*	.876	12	.078
Ketebalan Epitel	.147	12	.200*	.928	12	.362

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

a. Lilliefors Significance Correction



**Tabel 3. Hasil Uji Korelasi Pearson**

**Correlations**

		Dosis	Ketebalan Epitel
Dosis	Pearson Correlation	1	.738**
	Sig. (2-tailed)	.	.006
	N	12	12
Ketebalan Epitel	Pearson Correlation	.738**	1
	Sig. (2-tailed)	.006	.
	N	12	12

\*\* . Correlation is significant at the 0.01 level (2-tailed).

**Tabel 4. Hasil Uji Regresi**

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.738 <sup>a</sup>	.544	.499	3.43853

a. Predictors: (Constant), Dosis

**Tabel 5. Hasil Uji ANOVA**

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	141.251	1	141.251	11.947	.006 <sup>a</sup>
	Residual	118.235	10	11.823		
	Total	259.486	11			

a. Predictors: (Constant), Dosis

b. Dependent Variable: Ketebalan Epitel

### ANOVA

Ketebalan Epitel

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	145.824	3	48.608	3.421	.073
Within Groups	113.661	8	14.208		
Total	259.486	11			

### Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	8.014	1.661		4.825	.001
	Dosis	.020	.006	.738	3.456	.006

a. Dependent Variable: Ketebalan Epitel

**Tabel 6. Hasil Statistik Deskriptif**

### Descriptives

Ketebalan Epitel

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol	3	7.4100	.88097	.50863	5.2216	9.5984	6.62	8.36
D1	3	11.6600	4.63534	2.67622	.1452	23.1748	8.26	16.94
D2	3	14.8067	3.11001	1.79556	7.0810	22.5323	12.28	18.28
D3	3	16.5900	4.98960	2.88075	4.1951	28.9849	11.23	21.10
Total	12	12.6167	4.85691	1.40207	9.5307	15.7026	6.62	21.10

**Tabel 7. Hasil Uji Homogenitas**

### Test of Homogeneity of Variances

Ketebalan Epitel

Levene Statistic	df 1	df 2	Sig.
2.186	3	8	.167

**Tabel 8. Hasil Uji Post Hoc**

**Multiple Comparisons**

Dependent Variable: Ketebalan Epitel

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	D1	-4.25000	3.07763	.543	-14.1056	5.6056
	D2	-7.39667	3.07763	.154	-17.2523	2.4590
	D3	-9.18000	3.07763	.068	-19.0356	.6756
D1	Kontrol	4.25000	3.07763	.543	-5.6056	14.1056
	D2	-3.14667	3.07763	.742	-13.0023	6.7090
	D3	-4.93000	3.07763	.429	-14.7856	4.9256
D2	Kontrol	7.39667	3.07763	.154	-2.4590	17.2523
	D1	3.14667	3.07763	.742	-6.7090	13.0023
	D3	-1.78333	3.07763	.936	-11.6390	8.0723
D3	Kontrol	9.18000	3.07763	.068	-.6756	19.0356
	D1	4.93000	3.07763	.429	-4.9256	14.7856
	D2	1.78333	3.07763	.936	-8.0723	11.6390

**Ketebalan Epitel**

Tukey HSD<sup>a</sup>

Kelompok	N	Subset for alpha = .05
		1
Kontrol	3	7.4100
D1	3	11.6600
D2	3	14.8067
D3	3	16.5900
Sig.		.068

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.





## Kelompok Tikus H+7

**Tabel 9. Hasil Pengamatan Ketebalan Epitel (Dalam  $\mu\text{m}$ )**

Sisi	1	2	3	4	Rerata	Rerata Perlakuan
Perlakuan						
Kontrol-1	41,08	44,89	166,61	0	63,14	76,39
Kontrol-2	83,45	190,63	49,30	0	80,84	
Kontrol-3	75,33	184,98	80,51	0	85,20	
150 mg/KgBB-1	109,06	83,17	223,39	78,42	123,51	111,71
150 mg/KgBB-2	151,47	86,64	125,66	61,22	106,24	
150 mg/KgBB-3	135,14	170,39	70,79	45,16	105,37	
300 mg/KgBB-1	109,98	121,13	111,24	120,83	115,79	130,94
300 mg/KgBB-2	119,29	164,56	110,30	115,88	127,50	
300 mg/KgBB-3	203,23	88,08	141,81	165,05	149,54	
450 mg/KgBB-1	143,17	120,61	132,18	124,34	130,07	151,55
450 mg/KgBB-2	187,39	150,24	243,21	141,61	180,61	
450 mg/KgBB-3	202,60	152,45	116,06	104,81	143,98	

**Tabel 10. Hasil Uji Normalitas**

### Tests of Normality

	Kolmogorov -Smimov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Dosis	.134	12	.190	.861	12	.051
Ketebalan_Epitel	.130	12	.200*	.953	12	.681

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

a. Lilliefors Significance Correction

**Tabel 11. Hasil Uji Korelasi Pearson**

**Correlations**

		Dosis	Ketebalan Epitel
Dosis	Pearson Correlation	1	.879**
	Sig. (2-tailed)	.	.000
	N	12	12
Ketebalan Epitel	Pearson Correlation	.879**	1
	Sig. (2-tailed)	.000	.
	N	12	12

\*\* . Correlation is significant at the 0.01 level (2-tailed).

**Tabel 12. Hasil Uji Regresi**

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.879 <sup>a</sup>	.773	.750	16.25007

a. Predictors: (Constant), Dosis

**Tabel 13. Hasil Uji ANOVA**

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	8982.937	1	8982.937	34.018	.000 <sup>a</sup>
	Residual	2640.649	10	264.065		
	Total	11623.586	11			

a. Predictors: (Constant), Dosis

b. Dependent Variable: Ketebalan Epitel

### ANOVA

Ketebalan Epitel

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9190.753	3	3063.584	10.074	.004
Within Groups	2432.832	8	304.104		
Total	11623.586	11			

### Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	80.942	7.850		10.312	.000
	Dosis	.163	.028	.879	5.832	.000

a. Dependent Variable: Ketebalan Epitel

**Tabel 14. Hasil Statistik Deskriptif**

### Descriptives

Ketebalan Epitel

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol	3	76.3933	11.68292	6.74513	47.3714	105.4153	63.14	85.20
D1	3	111.7067	10.23124	5.90701	86.2909	137.1225	105.37	123.51
D2	3	130.9433	17.13645	9.89374	88.3740	173.5126	115.79	149.54
D3	3	151.5533	26.10727	15.07304	86.6993	216.4074	130.07	180.61
Total	12	117.6492	32.50676	9.38389	96.9954	138.3030	63.14	180.61

**Tabel 15. Hasil Uji Homogenitas**

### Test of Homogeneity of Variances

Ketebalan Epitel

Levene Statistic	df 1	df 2	Sig.
1.531	3	8	.280

**Tabel 16. Hasil Uji Post Hoc**

**Multiple Comparisons**

Dependent Variable: Ketebalan Epitel

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	D1	-35.31333	14.23854	.138	-80.9102	10.2835
	D2	-54.55000*	14.23854	.021	-100.1468	-8.9532
	D3	-75.16000*	14.23854	.003	-120.7568	-29.5632
D1	Kontrol	35.31333	14.23854	.138	-10.2835	80.9102
	D2	-19.23667	14.23854	.560	-64.8335	26.3602
	D3	-39.84667	14.23854	.088	-85.4435	5.7502
D2	Kontrol	54.55000*	14.23854	.021	8.9532	100.1468
	D1	19.23667	14.23854	.560	-26.3602	64.8335
	D3	-20.61000	14.23854	.508	-66.2068	24.9868
D3	Kontrol	75.16000*	14.23854	.003	29.5632	120.7568
	D1	39.84667	14.23854	.088	-5.7502	85.4435
	D2	20.61000	14.23854	.508	-24.9868	66.2068

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

**Ketebalan Epitel**

Tukey HSD<sup>a</sup>

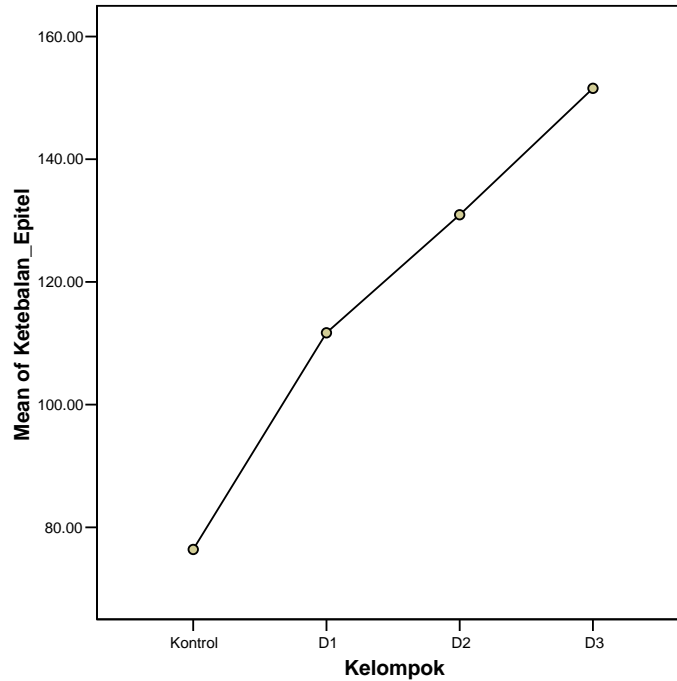
Kelompok	N	Subset for alpha = .05	
		1	2
Kontrol	3	76.3933	
D1	3	111.7067	111.7067
D2	3		130.9433
D3	3		151.5533
Sig.		.138	.088

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.



**Gambar 2. Grafik Rerata Ketebalan Epitel**



**Tabel 16. Univariate Analysis of Variance**

**Descriptive Statistics**

Dependent Variable: Ketebalan Epitel

Dosis	Hari	Mean	Std. Deviation	N
0	3	7.4100	.88097	3
	7	76.3933	11.68292	3
	Total	41.9017	38.50346	6
150	3	11.6600	4.63534	3
	7	111.7067	10.23124	3
	Total	61.6833	55.25637	6
300	3	14.8067	3.11001	3
	7	130.9433	17.13645	3
	Total	72.8750	64.55734	6
450	3	16.5900	4.98960	3
	7	151.5533	26.10727	3
	Total	84.0717	75.80979	6
Total	3	12.6167	4.85691	12
	7	117.6492	32.50676	12
	Total	65.1329	58.26253	24



### Levene's Test of Equality of Error Variances

Dependent Variable: Ketebalan Epitel

F	df 1	df 2	Sig.
2.708	7	16	.086

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Dosis+Hari+Dosis \* Hari

### Tests of Between-Subjects Effects

Dependent Variable: Ketebalan Epitel

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	75527.534 <sup>a</sup>	7	10789.648	67.793	.000
Intercept	101815.124	1	101815.124	639.720	.000
Dosis	5821.240	3	1940.413	12.192	.000
Hari	66190.956	1	66190.956	415.888	.000
Dosis * Hari	3515.337	3	1171.779	7.362	.003
Error	2546.494	16	159.156		
Total	179889.152	24			
Corrected Total	78074.028	23			

a. R Squared = .967 (Adjusted R Squared = .953)



## Lampiran 4

### SURAT KELAYAKAN ETIK

	<p>KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN THE MINISTRY OF EDUCATION AND CULTURE FAKULTAS KEDOKTERAN UNIVERSITAS BRAWIJAYA FACULTY OF MEDICINE UNIVERSITY OF BRAWIJAYA KOMISI ETIK PENELITIAN KESEHATAN HEALTH RESEARCH ETHICS COMMITTEE Jalan Veteran Malang – 65145 Telp./ Fax. (62) 341 - 553930</p>
<p>KETERANGAN KELAIKAN ETIK ("ETHICAL CLEARANCE")</p>	
<p>No. 554 / EC / KEPK – S1 – PDG / 12 / 2013</p>	
<p>KOMISI ETIK PENELITIAN KESEHATAN FAKULTAS KEDOKTERAN UNIVERSITAS BRAWIJAYA, SETELAH MEMPELAJARI DENGAN SEKSAMA RANCANGAN PENELITIAN YANG DIUSULKAN, DENGAN INI MENYATAKAN BAHWA PENELITIAN DENGAN</p>	
<p>JUDUL</p>	<p>: Efek Ekstrak Buah Alpukat (<i>Persea Americana</i>) Terhadap Peningkatan Jumlah Sel Epitel Mukosa Soket Pasca Pencabutan Gigi pada <i>Rattus Norvegicus</i></p>
<p>PENELITI UTAMA</p>	<p>: Alana Aluditasari</p>
<p>UNIT / LEMBAGA</p>	<p>: S1 Pendidikan Dokter Gigi - Fakultas Kedokteran - Universitas Brawijaya</p>
<p>TEMPAT PENELITIAN</p>	<p>: Laboratorium Farmakologi Fakultas Kedokteran Universitas Brawijaya</p>
<p>DINYATAKAN LAIK ETIK.</p>	
<p>Malang, 12 DEC 2013</p>	
<p>An: Ketua, Koordinator Divisi I</p>	
 <p>Prof. Dr. dr. Teguh W. Sardjono, DTM&amp;H, MSc, SpPark</p>	
<p><b>Catatan :</b> Keterangan Laik Etik Ini Berlaku 1 (Satu) Tahun Sejak Tanggal Dikeluarkan Pada Akhir Penelitian, Laporan Pelaksanaan Penelitian Harus Diserahkan Kepada KEPK-FKUB Dalam Bentuk 'Soft Copy. Jika Ada Perubahan Protokol Dan / Atau Perpanjangan Penelitian, Harus Mengajukan Kembali Permohonan Kajian Etik Penelitian (Amandemen Protokol)</p>	