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LAMPIRAN

Lampiran I. Surat Keterangan Kelaikan Etik (Ethical Clearance)

KOMISI ETIK PENELITIAN KESEHATAN
FAKULTAS KEDOKTERAN GIGI
UNIVERSITAS LAMBUNG MANGKURAT BANJARMASIN - INDONESIA
THE ETHICAL COMMITTEE OF MEDICAL RESEARCH ETHICS
DENTISTRY FACULTY
UNIVERSITY OF LAMBUNG MANGKURAT BANJARMASIN – INDONESIA

KETERANGAN KELAIKAN ETIK
(ETHICAL CLEARANCE)
No. 127/KEPKG-FKGULM/EC/XI/2023

Komisi Etik Kesehatan Fakultas Kedokteran Gigi Universitas Lambung Mangkurat dengan memperhatikan hak asasi manusia dan kesejahteraan dalam penelitian kedokteran, setelah mempelajari dengan seksama rancangan penelitian yang diusulkan, dengan ini menyatakan bahwa penelitian dengan :
The Committee Of Medical Research Ethics Of Dentistry Faculty, Lambung Mangkurat University, with regards of the protection of human rights and welfare in medical research, has carefully reviewed the proposal entitled :

Judul :
Title :
Pengaruh Gel Ekstrak Flavonoid Daun Binjai (Mangifera caesia) Terhadap Kontriksi dan Ketebalan Keratin pada Luka Socket Pasca Pencabutan Gigi Mencit (Rattus Norvegicus)

Nama Peneliti *Name of the investigator*	:	**Muhammad Irpan Hendrawan** NIM J012212005
Nama Institusi *Name of Institution*	:	Fakultas Kedokteran Gigi Universitas Hasanuddin ***Dentistry Faculty*** ***University Of Hasanuddin***

DINYATAKAN LAIK ETIK
Approved for ethical clearance

Banjarmasin, 11 Agustus 2023
Komisi Etik Penelitian,
The ethical committe research

drg. Sherli Diana, Sp.KG
NIP. 19870227201903202O

Lampiran 2 Prosedur Penelitian Pembuatan Gel Ekstrak Flavonoid Daun Binjai

Daun binjai yang telah dibersihkan, dikeringkan dengan menggunakan oven selama 4 jam pada suhu 50°C	
Daun binjai dihaluskan menggunakan blender	
Pengayakan daun binjai yang telah di-oven dan di-blender	
Perendaman simplisia dengan etanol 95%	
Gel ekstrak flavonoid daun binjai	

Lampiran 3 Prosedur Penelitian Perlakuan Hewan Coba

Adaptasi hewan coba	
Anestesi hewan coba sebelum pencabutan gigi	
Pencabutan Gigi insisif kiri rahang bawah menggunakan needle holder	
Pemberian Gel ekstrak flavonoid daun Binjai secara topikal	

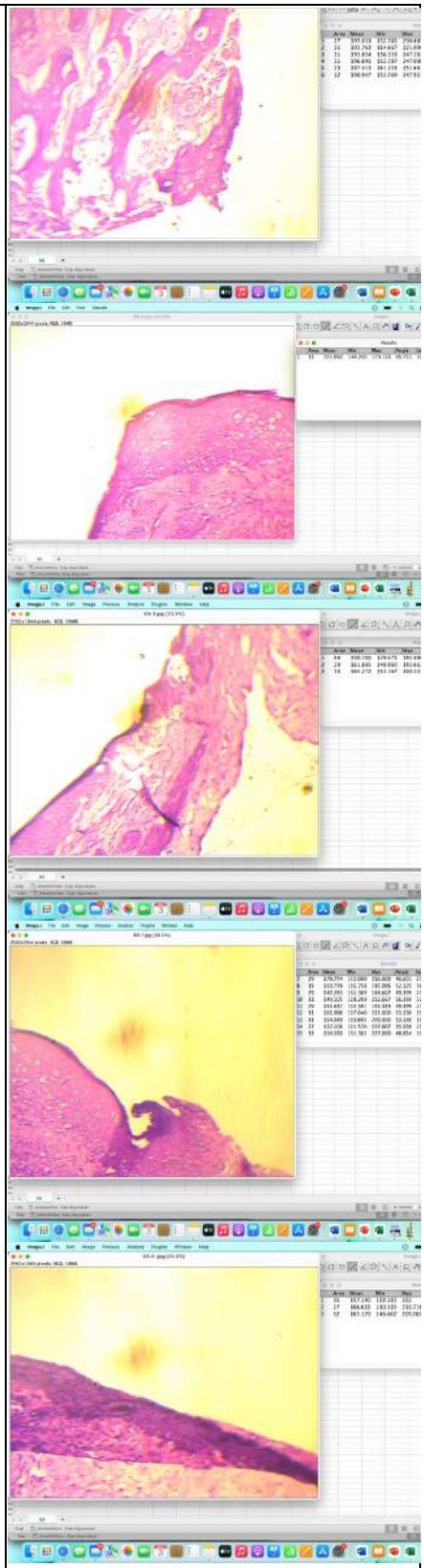
Euthanasia hewan coba	
Pengambilan jaringan	
Penguburan hewan coba	

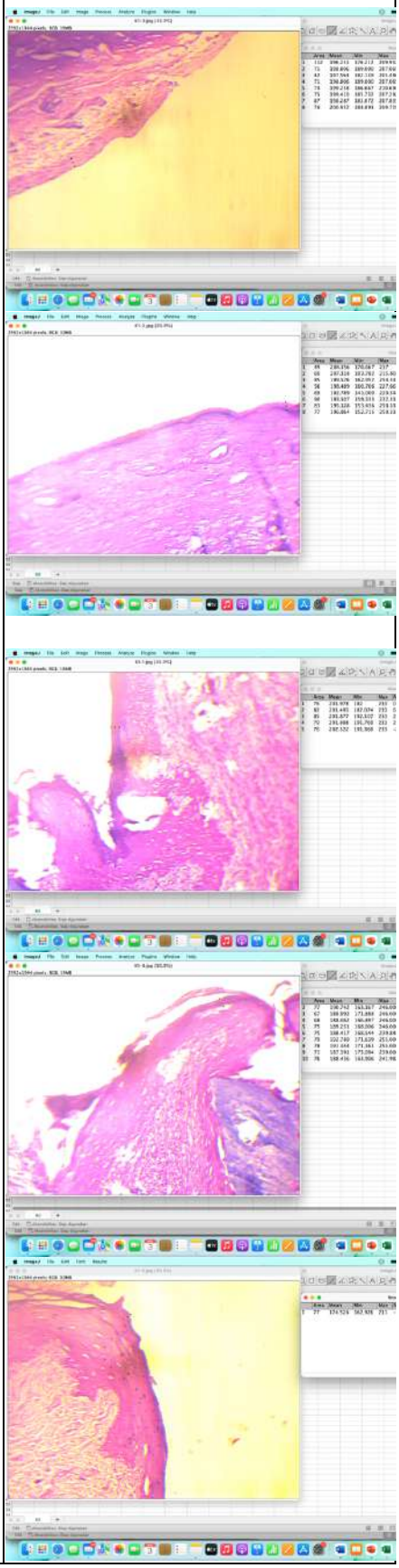
Lampiran 4 Prosedur Penelitian Pembuatan Preparat Histopatologi

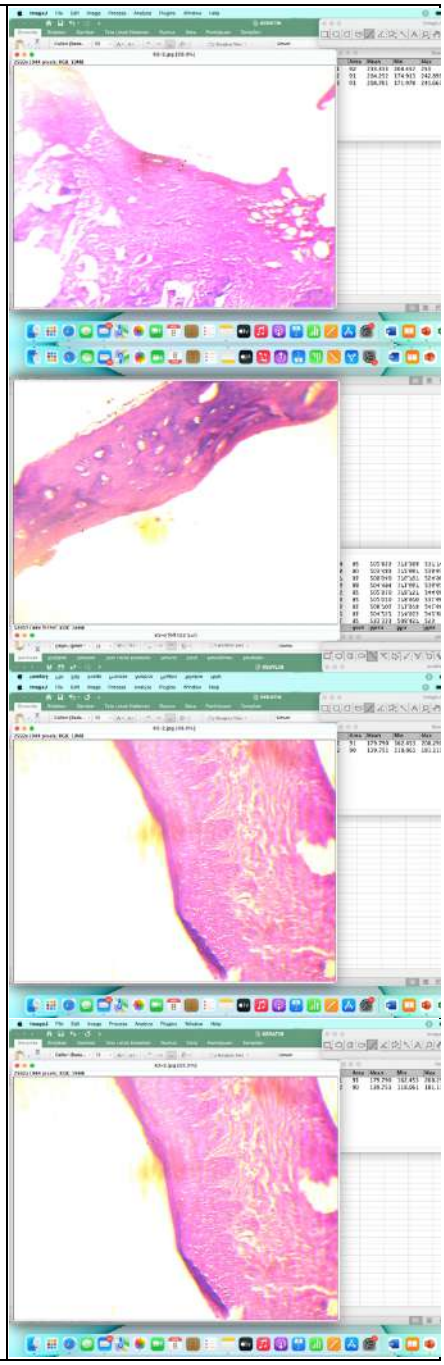
Jaringan yang sudah dipotong, dimasukan dalam embedding cassete	
Proses dehidrasi jaringan	

Blok parafin	
Pemotongan blok paraffin dengan mikrotom	
Peletakan di waterbath	
Pewarnaan preparat	
Pengamatan Preparat	

Lampiran 5 Prosedur Penelitian Pembuatan Preparat Histopatologi

Pengukuran ketebalan keratin dengan aplikasi imageJ pada kelompok kontrol	

Pengukuran ketebalan keratin dengan aplikasi imageJ pada kelompok pemberian gel ekstrak flavonoid daun binjai 15%	

Pengukuran ketebalan keratin dengan aplikasi imageJ pada kelompok pemberian gel ekstrak flavonoid daun binjai 30%	

Lampiran 6 Hasil Analisis Statistik Konstriksi Luka dan Ketebalan Keratin

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
RSV Score	K0_0	.195	5	.200*	.942	5	.681
	K1_0	.267	5	.200*	.889	5	.354
	K2_0	.255	5	.200*	.923	5	.547
	K0_3	.230	5	.200*	.951	5	.747
	K1_3	.199	5	.200*	.896	5	.391
	K2_3	.212	5	.200*	.926	5	.571
	K0_7	.122	5	.200*	1.000	5	1.000
	K1_7	.223	5	.200*	.901	5	.417
	K2_7	.244	5	.200*	.944	5	.693
	K0_14	.297	5	.172	.843	5	.174
	K1_14	.324	5	.094	.851	5	.198
	K2_14	.177	5	.200*	.952	5	.748

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
RSV Score	Based on Mean	4.822	11	48	.000
	Based on Median	2.747	11	48	.008
	Based on Median and with adjusted df	2.747	11	11.521	.051
	Based on trimmed mean	4.593	11	48	.000

ANOVA

RSV Score

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	57313.604	11	5210.328	11289.955	.000
Within Groups	22.152	48	.462		
Total	57335.756	59			

Multiple Comparisons

Dependent Variable: RSV Score

Games-Howell

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K0_0	K1_0	-.07895440	.79912456	1.000	-3.8964330	3.7385242
	K2_0	-.84072468	.62081922	.943	-3.6104075	1.9289582
	K0_3	44.293046*	.38096659	.000	42.1698613	46.4162315
	K1_3	58.117971*	.40514773	.000	56.0819873	60.1539555
	K2_3	64.638646*	.45415879	.000	62.5829833	66.6943095
	K0_7	54.195221*	.50555723	.000	51.9821097	56.4083331
	K1_7	69.023421*	.38767895	.000	66.9343784	71.1124644
	K2_7	73.895621*	.37499625	.000	71.7338569	76.0573859
	K0_14	79.354891*	.37387434	.000	77.1849021	81.5248795
	K1_14	79.521975*	.37387544	.000	77.3519945	81.6919555
	K2_14	79.559544*	.37387228	.000	77.3895395	81.7295477
K1_0	K0_0	.07895440	.79912456	1.000	-3.7385242	3.8964330
	K2_0	-.76177028	.86281841	.997	-4.6553689	3.1318283
	K0_3	44.372001*	.71005257	.000	40.2999990	48.4440026
	K1_3	58.196926*	.72331444	.000	54.2063574	62.1874942
	K2_3	64.717601*	.75186389	.000	60.8407784	68.5944232
	K0_7	54.274176*	.78398164	.000	50.4514062	58.0969454
	K1_7	69.102376*	.71367644	.000	65.0547568	73.1499948
	K2_7	73.974576*	.70686724	.000	69.8797112	78.0694404
	K0_14	79.433845*	.70627270	.000	75.3345595	83.5331309
	K1_14	79.600929*	.70627328	.000	75.5016481	83.7002107
	K2_14	79.638498*	.70627161	.000	75.5392042	83.7377918
K2_0	K0_0	.84072468	.62081922	.943	-1.9289582	3.6104075
	K1_0	.76177028	.86281841	.997	-3.1318283	4.6553689
	K0_3	45.133771*	.50099011	.000	42.2945552	47.9729870
	K1_3	58.958696*	.51961546	.000	56.2124936	61.7048986
	K2_3	65.479371*	.55867320	.000	62.8003836	68.1583586
	K0_7	55.035946*	.60120184	.000	52.3126121	57.7592801
	K1_7	69.864146*	.50611314	.000	67.0557950	72.6724971
	K2_7	74.736346*	.49646524	.000	71.8659935	77.6066986
	K0_14	80.195615*	.49561836	.000	77.3190016	83.0722294
	K1_14	80.362700*	.49561919	.000	77.4860920	83.2393074
	K2_14	80.400268*	.49561681	.000	77.5236428	83.2768938

K0_7	K0_0	-54.19522*	.50555723	.000	-56.408333	-51.982110
	K1_0	-54.27418*	.78398164	.000	-58.096945	-50.451406
	K2_0	-55.03595*	.60120184	.000	-57.759280	-52.312612
	K0_3	-9.902175*	.34808433	.000	-11.827308	-7.9770425
	K1_3	3.9227500*	.37439530	.001	2.0777405	5.7677595
	K2_3	10.443425*	.42695124	.000	8.5398471	12.3470029
	K1_7	14.828200*	.35541823	.000	12.9373701	16.7190299
	K2_7	19.700400*	.34153967	.000	17.7342361	21.6665639
	K0_14	25.159669*	.34030747	.000	23.1845099	27.1348289
	K1_14	25.326754*	.34030868	.000	23.3516031	27.3019041
	K2_14	25.364322*	.34030521	.000	23.3891458	27.3394986
K1_7	K0_0	-69.02342*	.38767895	.000	-71.112464	-66.934378
	K1_0	-69.10238*	.71367644	.000	-73.149995	-65.054757
	K2_0	-69.86415*	.50611314	.000	-72.672497	-67.055795
	K0_3	-24.73038*	.12597441	.000	-25.297246	-24.163504
	K1_3	-10.90545*	.18675837	.000	-11.758348	-10.052552
	K2_3	-4.384775*	.27747830	.000	-5.7927030	-2.9768470
	K0_7	-14.82820*	.35541823	.000	-16.719030	-12.937370
	K2_7	4.8722000*	.10656544	.000	4.3002875	5.4441125
	K0_14	10.331469*	.10254768	.000	9.7363689	10.9265699
	K1_14	10.498554*	.10255169	.000	9.9034831	11.0936241
	K2_14	10.536122*	.10254017	.000	9.9409656	11.1312788
K2_7	K0_0	-73.89562*	.37499625	.000	-76.057386	-71.733857
	K1_0	-73.97458*	.70686724	.000	-78.069440	-69.879711
	K2_0	-74.73635*	.49646524	.000	-77.606699	-71.865994
	K0_3	-29.60258*	.07871960	.000	-30.002241	-29.202909
	K1_3	-15.77765*	.15876370	.000	-16.665761	-14.889539
	K2_3	-9.256975*	.25946374	.000	-10.741822	-7.7721283
	K0_7	-19.70040*	.34153967	.000	-21.666564	-17.734236
	K1_7	-4.872200*	.10656544	.000	-5.4441125	-4.3002875
	K0_14	5.4592694*	.02903876	.000	5.2910760	5.6274628
	K1_14	5.6263536*	.02905293	.000	5.4582645	5.7944427
	K2_14	5.6639222*	.02901223	.000	5.4955315	5.8323129

K0_14	K0_0	-79.35489*	.37387434	.000	-81.524880	-77.184902
	K1_0	-79.43385*	.70627270	.000	-83.533131	-75.334560
	K2_0	-80.19562*	.49561836	.000	-83.072229	-77.319002
	K0_3	-35.06184*	.07318885	.000	-35.486502	-34.637186
	K1_3	-21.23692*	.15609531	.000	-22.142852	-20.330987
	K2_3	-14.71624*	.25783961	.000	-16.212740	-13.219749
	K0_7	-25.15967*	.34030747	.000	-27.134829	-23.184510
	K1_7	-10.33147*	.10254768	.000	-10.926570	-9.7363689
	K2_7	-5.459269*	.02903876	.000	-5.6274628	-5.2910760
	K1_14	.16708420*	.00197617	.000	.1583453	.1758231
	K2_14	.20465280*	.00124162	.000	.1974492	.2118564
K1_14	K0_0	-79.52198*	.37387544	.000	-81.691956	-77.351994
	K1_0	-79.60093*	.70627328	.000	-83.700211	-75.501648
	K2_0	-80.36270*	.49561919	.000	-83.239307	-77.486092
	K0_3	-35.22893*	.07319447	.000	-35.653545	-34.804313
	K1_3	-21.40400*	.15609794	.000	-22.309916	-20.498091
	K2_3	-14.88333*	.25784121	.000	-16.379812	-13.386845
	K0_7	-25.32675*	.34030868	.000	-27.301904	-23.351603
	K1_7	-10.49855*	.10255169	.000	-11.093624	-9.9034831
	K2_7	-5.626354*	.02905293	.000	-5.7944427	-5.4582645
	K0_14	-.1670842*	.00197617	.000	-.1758231	-.1583453
	K2_14	.03756860*	.00153776	.000	.0286456	.0464916
K2_14	K0_0	-79.55954*	.37387228	.000	-81.729548	-77.389539
	K1_0	-79.63850*	.70627161	.000	-83.737792	-75.539204
	K2_0	-80.40027*	.49561681	.000	-83.276894	-77.523643
	K0_3	-35.26650*	.07317832	.000	-35.691234	-34.841761
	K1_3	-21.44157*	.15609037	.000	-22.347541	-20.535603
	K2_3	-14.92090*	.25783662	.000	-16.417415	-13.424379
	K0_7	-25.36432*	.34030521	.000	-27.339499	-23.389146
	K1_7	-10.53612*	.10254017	.000	-11.131279	-9.9409656
	K2_7	-5.663922*	.02901223	.000	-5.8323129	-5.4955315
	K0_14	-.2046528*	.00124162	.000	-.2118564	-.1974492
	K1_14	-.0375686*	.00153776	.000	-.0464916	-.0286456

Tests of Normality

	Perlakuan	Kolmogorov-Smirnov[a] Statistic	df	Sig.	Shapiro-Wilk Statistic	df	Sig.
Ketebalan Keratin	K0 (Kontrol)	.205	5	.200*	.916	5	.503
	K1 (Ekstrak Binjai 15%)	.253	5	.200*	.927	5	.577
	K2 (Ekstrak Binjai 30%)	.265	5	.200*	.941	5	.674

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Ketebalan Keratin	Based on Mean	1.237	2	12	.325
	Based on Median	1.013	2	12	.392
	Based on Median and with adjusted df	1.013	2	9.366	.400
	Based on trimmed mean	1.189	2	12	.338

ANOVA

Ketebalan Keratin

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9388.165	2	4694.082	14112.328	.000
Within Groups	3.991	12	.333		
Total	9392.156	14			

Multiple Comparisons

Dependent Variable: Ketebalan Keratin

Bonferroni

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
K0 (Kontrol)	K1 (Ekstrak Binjai 15%)	-44.12940*	.36476	.000	-45.1432	-43.1156
	K2 (Ekstrak Binjai 30%)	-58.88720*	.36476	.000	-59.9010	-57.8734
K1 (Ekstrak Binjai 15%)	K0 (Kontrol)	44.12940*	.36476	.000	43.1156	45.1432
	K2 (Ekstrak Binjai 30%)	-14.75780*	.36476	.000	-15.7716	-13.7440
K2 (Ekstrak Binjai 30%)	K0 (Kontrol)	58.88720*	.36476	.000	57.8734	59.9010
	K1 (Ekstrak Binjai 15%)	14.75780*	.36476	.000	13.7440	15.7716

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