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LAMPIRAN 1. REKOMENDASI PERSETUJUAN ETIK



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
 UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
 KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
 RSPTN UNIVERSITAS HASANUDDIN
 RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
 Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
 JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: dr. Agussalim Bukhari.,M.Med.,Ph.D., SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK

Nomor : 417/UN4.6.4.5.31/ PP36/ 2022

Tanggal: 15 Agustus 2022

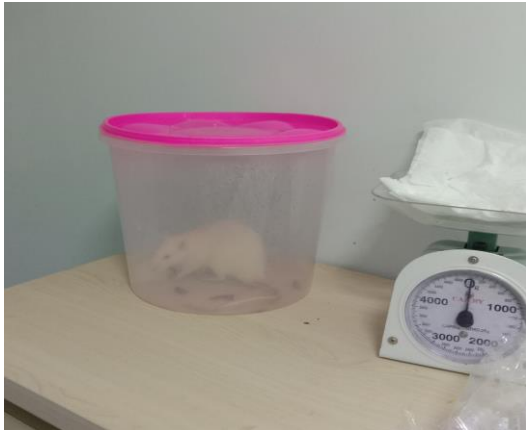
Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH22050237	No Sponsor Protokol	
Peneliti Utama	Nurjannah Damis, S.Kep, Ns	Sponsor	
Judul Peneliti	EFEK PEMBERIAN SUSPENSI CANGKANG TELUR TERHADAP TIKUS WISTAR MODEL FIBROSIS HATI		
No Versi Protokol	1	Tanggal Versi	15 Agustus 2022
No Versi PSP		Tanggal Versi	
Tempat Penelitian	Laboratorium Fakultas Kedokteran, RS Universitas Hasanuddin, Lab Fakultas Farmasi dan Lab STIKES Nani Hasanuddin Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 15 Agustus 2022 sampai 15 Agustus 2023	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	Nama dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)	Tanda tangan	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Laporan SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

LAMPIRAN 2. DOKUMENTASI PENELITIAN**Gambar: Preliminary Study****Gambar : Aklimatisasi Hewan Coba****Gambar: Pengukuran Dosis Paracetamol****Gambar: Pengukuran Dosis Cangkang telur****Gambar: pengukuran berat badan hewan coba****Gambar: Perlakuan Hewan Coba**

Gambar: Persiapan Alat Pembedahan**Gambar: Pengambilan Darah Orbita****Gambar: Pembiusan Hewan Coba****Gambar: Pembedahan Hewan Coba****Gambar: Pengambilan Organ Hati Hewan Coba****Gambar: Penyimpanan Organ Hati kedalam Formalin 10%**

LAMPIRAN 3. ANALISIS STATISTIK

Kadar Serum ALT (Alanine Transaminase)

Tabel. RERATA NILAI ALT PADA TIAP KELOMPOK

Kelompok perlakuan	N	Mean \pm SD
K1	5	26.92 \pm 1.98
K2	5	83.38 \pm 6.63
P1	5	56.58 \pm 1.66
P2	5	47.3 \pm 2.92
P3	5	33.74 \pm 1.50

Tests of Normality

Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
K1	.223	5	.200 [*]	.923	5	.547
K2	.237	5	.200 [*]	.931	5	.605
P1	.167	5	.200 [*]	.987	5	.967
P2	.184	5	.200 [*]	.940	5	.667
P3	.240	5	.200 [*]	.889	5	.352

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

a. Lilliefors Significance Correction

Data berdistribusi Normal dengan semua nilai sig > 0.05 sehingga bisa di lanjutkan dengan uji One Way Anova.

Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
6.784	4	20	.001

Signifikansi 0.001 > 0.05 artinya data homogen

ANOVA

ALT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9805.098	4	2451.274	199.488	.000
Within Groups	245.756	20	12.288		
Total	10050.854	24			

Hasil uji One Way Anova $0,00 < 0.05$ signifikan atau berbeda nyata. Artinya data eksperimen ini terdapat perbedaan rata-rata kadar ALT pada masing-masing kelompok

Post Hoc Test

Dependent Variable: ALT

Tukey HSD

(I) KLP Perlakuan	(J) KLP Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K1	K2	-56.4600*	2.2170	.000	-63.094	-49.826
	P1	-29.6600*	2.2170	.000	-36.294	-23.026
	P2	-20.3800*	2.2170	.000	-27.014	-13.746
	P3	-6.8200*	2.2170	.042	-13.454	-.186
K2	K1	56.4600*	2.2170	.000	49.826	63.094
	P1	26.8000*	2.2170	.000	20.166	33.434
	P2	36.0800*	2.2170	.000	29.446	42.714
	P3	49.6400*	2.2170	.000	43.006	56.274
P1	K1	29.6600*	2.2170	.000	23.026	36.294
	K2	-26.8000*	2.2170	.000	-33.434	-20.166
	P2	9.2800*	2.2170	.004	2.646	15.914
	P3	22.8400*	2.2170	.000	16.206	29.474

P2	K1	20.3800*	2.2170	.000	13.746	27.014
	K2	-36.0800*	2.2170	.000	-42.714	-29.446
	P1	-9.2800*	2.2170	.004	-15.914	-2.646
	P3	13.5600*	2.2170	.000	6.926	20.194
P3	K1	6.8200*	2.2170	.042	.186	13.454
	K2	-49.6400*	2.2170	.000	-56.274	-43.006
	P1	-22.8400*	2.2170	.000	-29.474	-16.206
	P2	-13.5600*	2.2170	.000	-20.194	-6.926

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

HOMOGENEOUS SUBSETS

Tukey HSD^a

KLP Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
K1	5	26.920				
P3	5		33.740			
P2	5			47.300		
P1	5				56.580	
K2	5					83.380
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Hasil uji post Hoc memiliki nilai signifikan $p < 0,05$ artinya rata-rata masing kelompok semua berbeda

Kadar Serum AST (Aspartat Transminase)

Table. RERATA NILAI AST PADA TIAP KELOMPOK

Kelompok perlakuan	N	Mean ± SD
K1	5	67.22±6.6210
K2	5	127.68±7.0606
P1	5	111.5±6.2813
P2	5	103.06±4.0377
P3	5	89.02±3.7546

Tests of Normality

Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
K1	.209	5	.200*	.965	5	.841
K2	.200	5	.200*	.956	5	.783
P1	.256	5	.200*	.944	5	.693
P2	.276	5	.200*	.859	5	.224
P3	.172	5	.200*	.981	5	.939

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

a. Lilliefors Significance Correction

Data berdistribusi Normal dengan semua nilai sig $p > 0.05$ sehingga bisa di lanjutkan dengan uji One Way Anova.

Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
.456	4	20	.767

Signifikansi $0.767 > 0.05$ artinya data homogen

ANOVA

AST

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10512.114	4	2628.028	80.346	.000
Within Groups	654.176	20	32.709		
Total	11166.290	24			

Hasil uji One Way Anova $0,00 < 0,05$ signifikan atau berbeda nyata. Artinya data eksperimen ini terdapat perbedaan rata-rata kadar AST pada masing-masing kelompok

Post Hoc Test

Dependent Variable: AST

Tukey HSD

(I) KLP Perlakuan	(J) KLP Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K1	K2	-60.4600*	3.6171	.000	-71.284	-49.636
	P1	-44.2800*	3.6171	.000	-55.104	-33.456
	P2	-35.8400*	3.6171	.000	-46.664	-25.016
	P3	-21.8000*	3.6171	.000	-32.624	-10.976
K2	K1	60.4600*	3.6171	.000	49.636	71.284
	P1	16.1800*	3.6171	.002	5.356	27.004
	P2	24.6200*	3.6171	.000	13.796	35.444
	P3	38.6600*	3.6171	.000	27.836	49.484
P1	K1	44.2800*	3.6171	.000	33.456	55.104
	K2	-16.1800*	3.6171	.002	-27.004	-5.356
	P2	8.4400	3.6171	.176	-2.384	19.264
	P3	22.4800*	3.6171	.000	11.656	33.304
P2	K1	35.8400*	3.6171	.000	25.016	46.664
	K2	-24.6200*	3.6171	.000	-35.444	-13.796
	P1	-8.4400	3.6171	.176	-19.264	2.384
	P3	14.0400*	3.6171	.007	3.216	24.864
P3	K1	21.8000*	3.6171	.000	10.976	32.624
	K2	-38.6600*	3.6171	.000	-49.484	-27.836
	P1	-22.4800*	3.6171	.000	-33.304	-11.656
	P2	-14.0400*	3.6171	.007	-24.864	-3.216

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

HOMOGENEOUS SUBSETS

Tukey B^a

KLP Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
K1	5	67.220			
P3	5		89.020		
P2	5			103.060	
P1	5			111.500	
K2	5				127.680

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Hasil uji post Hoc memiliki nilai signifikan $p < 0,05$ artinya rata-rata masing kelompok semua berbeda

HISTOPATOLOGI HATI

Kelompok Perlakuan	N	Mean \pm SD
K1	5	0 \pm 0.00
K2	5	3.2 \pm 0.45
P1	5	3 \pm 0.00
P2	5	2.2 \pm 0.45
P3	5	1.2 \pm 0.45

Tests of Normality^{a,c}

	klpperlakuan	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
skor	K2	.473	5	.001	.552	5	.000
	P2	.473	5	.001	.552	5	.000
	P3	.473	5	.001	.552	5	.000

a. skor is constant when klpperlakuan = K1. It has been omitted.

b. Lilliefors Significance Correction

c. skor is constant when klpperlakuan = P1. It has been omitted.

Uji normal menunjukkan bahwa ada 2 sampel yang tidak terdistribusi normal dengan nilai sig. $0.000 < 0.05$ maka dilanjutkan dengan uji kruskal wallis.

Test of Homogeneity of Variances

skor

Levene Statistic	df1	df2	Sig.
3.556	4	20	.024

Nilai signifikansi $0.024 < 0.005$ data tidak homogen, maka dari itu di lanjutkan

Uji Kruskal-Wallis Test

Ranks

klpperlakuan	N	Mean Rank
K1	5	3.00
K2	5	20.60
P1	5	19.50
P2	5	13.50
P3	5	8.40
Total	25	

Test Statistics^{a,b}

	skor
Chi-Square	22.281
Df	4
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: klpperlakuan

Jika nilai sig. $0.000 < 0.05$, maka ada perbedaan atau H_0 ditolak dan H_a di terima. Artinya ada perbedaan skor derajat kerusakan antara masing-masing kelompok.

Mann-Whitney Test

Ranks

	klperlakuan	N	Mean Rank	Sum of Ranks
skor	K1	5	3.00	15.00
	K2	5	8.00	40.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.887
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

a. Grouping Variable: klperlakuan

b. Not corrected for ties.

Signifikan $0.004 < 0.005$ (berpengaruh signifikan)

Ranks

	klperlakuan	N	Mean Rank	Sum of Ranks
skor	K1	5	3.00	15.00
	P1	5	8.00	40.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-3.000
Asymp. Sig. (2-tailed)	.003
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

a. Grouping Variable: klperlakuan

b. Not corrected for ties.

Signifikan $0.003 < 0.005$ (berpengaruh signifikan)

Ranks

	klperlakuan	N	Mean Rank	Sum of Ranks
skor	K1	5	3.00	15.00
	P2	5	8.00	40.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.887
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

a. Grouping Variable: klperlakuan

b. Not corrected for ties.

Signifikan $0.004 < 0.005$ (berpengaruh signifikan)

Ranks

	klpperlakuan	N	Mean Rank	Sum of Ranks
skor	K1	5	3.00	15.00
	P3	5	8.00	40.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.887
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

a. Grouping Variable: klpperlakuan

b. Not corrected for ties.

Signifikan $0.004 < 0.005$ (berpengaruh signifikan)

Ranks

	klpperlakuan	N	Mean Rank	Sum of Ranks
skor	K2	5	6.00	30.00
	P1	5	5.00	25.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	10.000
Wilcoxon W	25.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.690 ^b

a. Grouping Variable: klpperlakuan

b. Not corrected for ties.

Tidak signifikan $0.317 > 0.005$ (Tidak berpengaruh)

Ranks

	klpperlakuan	N	Mean Rank	Sum of Ranks
skor	K2	5	7.60	38.00
	P2	5	3.40	17.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	2.000
Wilcoxon W	17.000
Z	-2.425
Asymp. Sig. (2-tailed)	.015
Exact Sig. [2*(1-tailed Sig.)]	.032 ^b

a. Grouping Variable: klpperlakuan

b. Not corrected for ties.

Tidak signifikan $0.015 > 0.005$ (tidak berpengaruh)

Ranks

	klpperlakuan	N	Mean Rank	Sum of Ranks
skor	K2	5	8.00	40.00
	P3	5	3.00	15.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.785
Asymp. Sig. (2-tailed)	.005
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

a. Grouping Variable: klpperlakuan

b. Not corrected for ties.

Signifikan $0.005 < 0.005$ (berpengaruh signifikan)

Ranks

	klpperlakuan	N	Mean Rank	Sum of Ranks
skor	P1	5	7.50	37.50
	P2	5	3.50	17.50
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	2.500
Wilcoxon W	17.500
Z	-2.449
Asymp. Sig. (2-tailed)	.014
Exact Sig. [2*(1-tailed Sig.)]	.032 ^b

a. Grouping Variable: klperlakuan

b. Not corrected for ties.

Tidak signifikan $0.014 > 0.005$ (tidak berpengaruh)

Ranks

	klperlakuan	N	Mean Rank	Sum of Ranks
skor	P1	5	8.00	40.00
	P3	5	3.00	15.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.887
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.008 ^b

a. Grouping Variable: klperlakuan

b. Not corrected for ties.

Signifikan $0.004 < 0.005$ (berpengaruh signifikan)

Ranks

	klpperlakuan	N	Mean Rank	Sum of Ranks
skor	P2	5	7.60	38.00
	P3	5	3.40	17.00
	Total	10		

Test Statistics^a

	skor
Mann-Whitney U	2.000
Wilcoxon W	17.000
Z	-2.425
Asymp. Sig. (2-tailed)	.015
Exact Sig. [2*(1-tailed Sig.)]	.032 ^b

a. Grouping Variable: klpperlakuan

b. Not corrected for ties.

Tidak signifikan $0.015 > 0.005$ (tidak berpengaruh)