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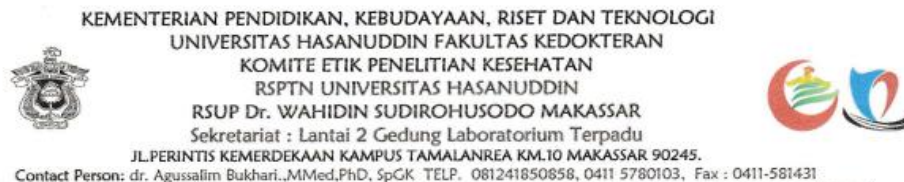
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LAMPIRAN

LAMPIRAN 1. Rekomendasi Persetujuan Etik



REKOMENDASI PERSETUJUAN ETIK

Nomor : 827/UN4.6.4.5.31/ PP36/ 2021

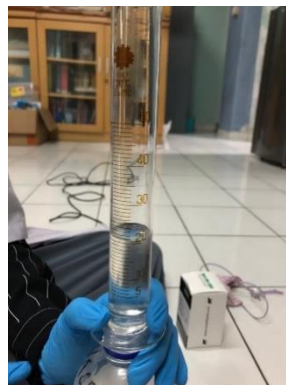
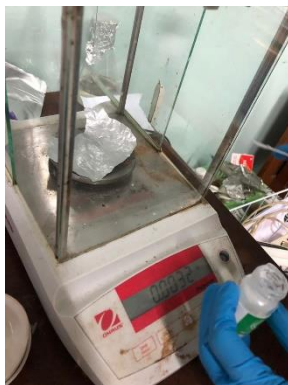
Tanggal: 27 Desember 2021

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

No Protokol	UH21110734	No Sponsor Protokol	
Peneliti Utama	Sri Hardiyanti Asad,SPd	Sponsor	
Judul Peneliti	Efek Protektif Dehydroepiandrosterone (DHEA) Terhadap Paru-Paru Tikus Wistar Jantan Yang Terpapar Asap Rokok		
No Versi Protokol	1	Tanggal Versi	30 Nopember 2021
No Versi PSP		Tanggal Versi	
Tempat Penelitian	Laboratorium Fakultas Farmasi Universitas Hasanuddin Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 27 Desember 2021 sampai 27 Desember 2022	Frekuensi review lanjutan
Ketua KEPK FKUH RSUH dan RSWS	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)	Tanda tangan 	
Sekretaris KEPK FKUH RSUH dan RSWS	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 1. Adaptasi Hewan Coba****Gambar 2. Penimbangan BB Tikus****Gambar 3. Pembuatan Larutan CMC 0.5%****Gambar 4. Pembuatan Larutan DHEA****Gambar 5. Pemberian DHEA secara oral pada tikus**



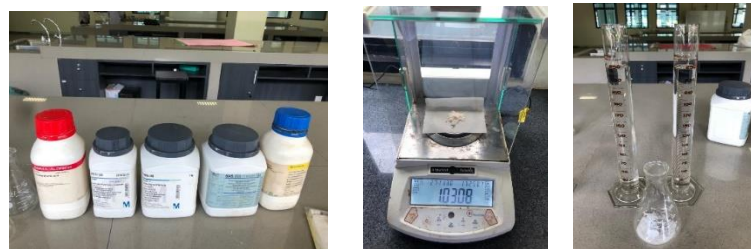
Gambar 6. Pemaparan asap rokok pada tikus



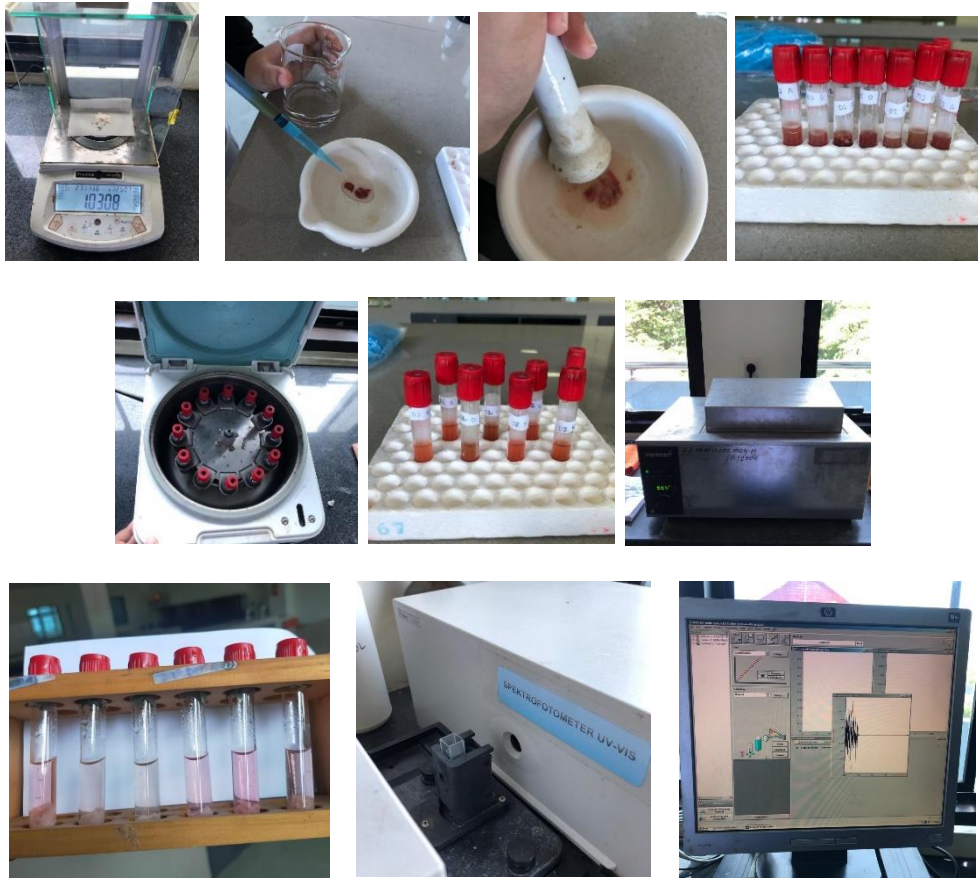
Gambar 7. Pembedahan hewan coba



Gambar 8. Penimbangan bobot organ paru tikus



Gambar 9. Pembuatan larutan PBS, TBA, dan TCA



Gambar 10. Pengukuran nilai absorbansi MDA



Gambar 11. Pengukuran nilai absorbansi kurva baku TMP

LAMPIRAN 3. Hasil Pengukuran Kurva Baku dan Kadar MDA

Tabel 1. Nilai Absorbansi TMP (Standar MDA) Pada Konsentrasi 0,3-1,5 bpj

Konsentrasi (ppm)	Absorbansi (nm)
0.3	0.60295
0.5	0.82843
0.7	1.01030
0.9	1.24480
1.1	1.41760
1.3	1.61850
1.5	1.72470

Tabel 2. Hasil Perhitungan Kadar MDA

Kelompok	Kode	Absorbansi	Kadar MDA	Rerata ± SD
KN 30 Hari	KN 30 A	1.20270	0.8958	0.8706 ± 0.127244
	KN 30 B	1.34650	1.0462	
	KN 30 C	1.11920	0.8084	
	KN 30 D	0.96663	0.6488	
	KN 30 E	1.23930	0.9341	
	KN 30 F	1.12630	0.8159	
	KN 30 G	1.25000	0.9453	
KN 14 Hari	KN 14 A	1.19960	0.8926	0.7458 ± 0.237919
	KN 14 B	0.74690	0.4189	
	KN 14 C	1.07400	0.7611	
	KN 14 D	1.40930	1.1119	
	KN 14 E	1.11270	0.8016	
	KN 14 F	1.07290	0.7600	
	KN 14 G	0.79999	0.4745	
DHEA 15 mg/kg BB	D1 A	1.08850	0.7763	0.9233 ± 0.09644
	D1 B	1.25540	0.9509	
	D1 D	1.23980	0.9346	
	D1 E	1.19310	0.8858	
	D1 F	1.22460	0.9187	
	D1 G	1.37260	1.0736	
DHEA 30 mg/kg BB	D2 A	1.06030	0.7468	0.9173 ± 0.193895
	D2 B	1.37560	1.0767	
	D2 C	1.35650	1.0567	
	D2 D	1.19770	0.8906	
	D2 E	1.40930	1.1119	
	D2 F	1.25940	0.9551	
	D2 G	0.90391	0.5832	

LAMPIRAN 4. Hasil Pengukuran Skoring Kerusakan Histopatologi

Kelompok	Kode	Parameter Kerusakan Histopatologi Paru-Paru						Total Kumulatif Skor	Rerata ± Std. Deviasi
		Hemoragik	Edema	Sel-Sel Radang	Penebalan Septa	Pelebaran Alveoli	Granuloma		
KN 30 Hari	KN 30 A	1	1	3	2	1	1	4	4.1 ± 1.3
	KN 30 B	2	0	1	2	3	0	4	
	KN 30 C	2	0	1	1	1	1	5	
	KN 30 D	0	0	1	1	0	0	4	
	KN 30 E	1	0	1	1	1	0	4	
	KN 30 F	1	0	1	1	1	1	4	
	KN 30 G	1	0	1	0	0	2	3	
KN 14 Hari	KN 14 A	1	0	2	2	1	0	4	4.0 ± 0.6
	KN 14 B	0	0	2	3	2	2	4	
	KN 14 C	1	1	2	1	1	0	5	
	KN 14 D	1	0	1	1	1	0	4	
	KN 14 E	1	0	1	1	1	0	4	
	KN 14 F	2	0	1	1	1	0	4	
	KN 14 G	0	0	1	1	1	0	3	
DHEA 15 mg/kg BB	D1 A	0	0	2	2	0	2	3	3.5 ± 0.5
	D1 B	0	0	1	1	2	0	3	
	D1 D	1	0	1	3	1	0	4	
	D1 E	1	0	3	2	0	2	4	
	D1 F	0	0	2	2	0	1	3	
	D1 G	1	0	1	1	0	1	4	
	D2 A	0	0	1	1	0	0	2	
D2 B	1	0	2	2	0	1	4		
D2 C	2	0	1	0	0	1	3		
D2 D	0	0	1	2	0	2	3		
D2 E	1	0	2	2	0	1	4		
D2 F	2	0	2	2	0	0	3		
D2 G	0	0	2	2	0	1	3		

Keterangan:

KN : Kontrol Negatif

D1 : DHEA dosis 15 mg/kg BB

D2 : DHEA dosis 30 mg/kg BB

0 = Normal

1 = kerusakan ringan

2 = kerusakan sedang

3 = kerusakan berat

LAMPIRAN 5. Analisis Statistik Data

1. Analisis Kadar MDA Pilot Studi (Uji T Independent)

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
Konsentrasi MDA	KN 14 Hari	7	.75	.238	.090
Pilot Studi	KN 30 Hari	7	.87	.127	.048

Tests of Normality

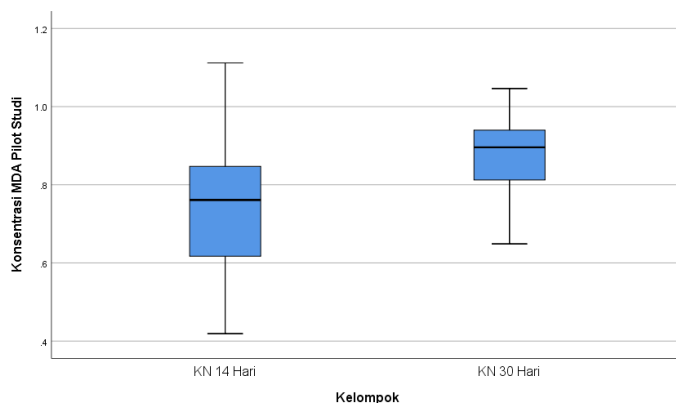
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Konsentrasi MDA	KN 14 Hari	.238	7	.200*	.938	7	.620
Pilot Studi	KN 30 Hari	.170	7	.200*	.963	7	.841

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

a. Lilliefors Significance Correction

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Konsentrasi MDA Pilot Studi	Equal variances assumed	1.384	.262	-1.224	12	.244	-.125	.102	-.347	.097
	Equal variances not assumed			-1.224	9.173	.251	-.125	.102	-.355	.105



2. Analisis Kadar MDA Kelompok Perlakuan (Uji ANOVA)

Descriptives

Konsentrasi MDA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
KN 14 Hari	7	.7458	.23791	.08992	.5258	.9658	.42	1.11
DHEA 15 mg/kgBB	6	.9233	.09645	.03938	.8221	1.0245	.78	1.07
KN 30 mg/kgBB	7	.9173	.19388	.07328	.7380	1.0966	.58	1.11
Total	20	.8591	.19867	.04442	.7661	.9521	.42	1.11

Tests of Normality

	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Konsentrasi	KN 14 Hari	.238	7	.200*	.938	7	.620
MDA	DHEA 15 mg/kgBB	.221	6	.200*	.956	6	.785
	KN 30 mg/kgBB	.193	7	.200*	.909	7	.390

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

a. Lilliefors Significance Correction

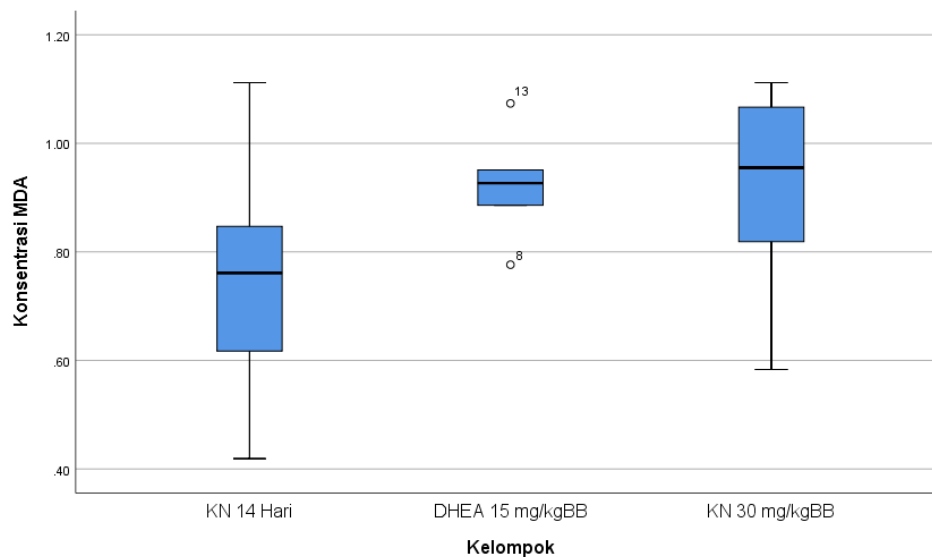
Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Konsentrasi MDA	Based on Mean	1.603	2	17	.230
	Based on Median	1.214	2	17	.322
	Based on Median and with adjusted df	1.214	2	13.110	.328
	Based on trimmed mean	1.607	2	17	.230

ANOVA

Konsentrasi MDA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.138	2	.069	1.922	.177
Within Groups	.612	17	.036		
Total	.750	19			



3. Analisis Histopatologi Pilot Studi (Uji Nonparametrik-Mann Whitney)

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Histopatologi Pilot Studi	14	4.07	.997	2	6
Kelompok	14	1.50	.519	1	2

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Histopatologi Pilot Studi	KN 14 Hari	7	7.07	49.50
	KN 30 Hari	7	7.93	55.50
	Total	14		

Test Statistics^a

Histopatologi Pilot Studi	
Mann-Whitney U	21.500
Wilcoxon W	49.500
Z	-.412
Asymp. Sig. (2-tailed)	.680
Exact Sig. [2*(1-tailed Sig.)]	.710 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

4. Analisis Histopatologi Kelompok Perlakuan (Uji NPar-Kruskal Wallis)

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Histopatologi Total Skor Kumulatif	20	3.55	.686	2	5
Kelompok	20	2.00	.858	1	3

Ranks

	Kelompok	N	Mean Rank
Histopatologi Total Skor Kumulatif	KN 14 Hari	7	14.00
	DHEA 15 mg/kgBB	6	10.00
	DHEA 30 mg/kgBB	7	7.43
	Total	20	

Test Statistics^{a,b}

	Histopatologi Total Skor Kumulatif
Kruskal-Wallis H	5.388
df	2
Asymp. Sig.	.068

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

5. Analisis Bobot Relatif Pilot Studi (Uji T Independen)

Tests of Normality

	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Bobot Relatif	KN 30 Hari	.122	7	.200 [*]	.976	7	.937
Ogan	KN 14 Hari	.288	7	.082 [*]	.910	7	.398

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

a. Lilliefors Significance Correction

T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
Bobot Relatif	KN 30 Hari	7	.59309	.026258	.009925
Ogan	KN 14 Hari	7	.51907	.015230	.005756

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Bobot Relatif	Equal variances assumed	2.324	.153	6.451	12	.000	.074014	.011473	.049016	.099012
Ogan	Equal variances not assumed			6.451	9.626	.000	.074014	.011473	.048315	.099713

6. Analisis Bobot Relatif Pilot Studi (Uji Nonparametrik-Mann Whitney)

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Bobot Relatif Pilot Studi	14	.5561	.04359	.49	.63
Kelompok	14	1.50	.519	1	2

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Bobot Relatif Pilot Studi	KN 14 Hari	7	11.00	77.00
	KN 30 Hari	7	4.00	28.00
	Total	14		

Test Statistics^a

Bobot Relatif Pilot Studi	
Mann-Whitney U	.000
Wilcoxon W	28.000
Z	-3.130
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.001 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

7. Analisis Bobot Relatif Kelompok Perlakuan (Uji NPar-Kruskal Wallis)

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Bobot Relatif	20	.7767	.49706	.49	2.77
Kelompok	20	2.0000	.85840	1.00	3.00

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
Bobot Relatif	KN 14 Hari	7	4.00
	DHEA 15 mg/kgBB	6	15.50
	DHEA 30 mg/kgBB	7	12.71
	Total	20	

Test Statistics^{a,b}

Bobot Relatif	
Kruskal-Wallis H	13.716
df	2
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

RIWAYAT HIDUP

Nama saya Sri Hardiyanti Asad. Biasanya dipanggil Dian, tetapi di kelas Faal ada dua nama Dian, jadi saya dipanggil Anti. Saya lahir di Ujung Pandang, 20 Mei 1997. Saya anak ketiga dari H. Muh Asad Jafar, SE dan Dra. Hj. Rawatiah. Saya mempunyai dua kakak laki-laki bernama Ahda Asad dan Aksa Asad. Dari kecil saya menetap di Makassar.

Saya memulai pendidikan di Taman Kanak Ilham ketika berumur 5 tahun. Kemudian melanjutkan ke jenjang sekolah dasar Inpres Tamalanrea 1 Makassar pada tahun 2003. Selanjutnya pada tahun 2009 saya melanjutkan ke SMP Negeri 30 Makassar. Ketika saya SMP, saya pernah mengikuti Lomba Cerdas Cermat Agama Tingkat Nasional. Kemudian pada tahun 2012, saya menyelesaikan sekolah menengah pertama saya dan melanjutkan ke SMA Negeri 5 Makassar dan lulus pada tahun 2015. Saya telah menyelesaikan studi strata satu saya di Universitas Negeri Makassar pada program studi Pendidikan Biologi Bilingual pada tahun 2019. Dan pada tahun 2022, saya telah menyelesaikan studi strata dua saya di Sekolah Pascasarjana Universitas Hasanuddin Program Studi Ilmu Biomedik. Sekarang saya sedang aktif mengajar di salah satu sekolah swasta di Makassar.

