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LAMPIRAN

LAMPIRAN 1. REKOMENDASI PERSETUJUAN ETIK



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
RSPN 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., MMed, PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK

Nomor : 151/UN4.6.4.5.31/ PP36/ 2024

Tanggal: 13 Maret 2024

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

No Protokol	UH24010061	No Sponsor	
Peneliti Utama	Heryl Runtal, S.Si	Sponsor	
Judul Peneliti	PENGARUH PERBANDINGAN ANTARA ALTERNATE DAY FASTING DENGAN DIET RESTRIKSI TERHADAP KADAR ENDOTHELIN RESEPTOR ALPHA (ET-A) PADA GINJAL TIKUS WISTAR (<i>Rattus norvegicus</i>) OBESITAS		
No Versi Protokol	2	Tanggal Versi	5 Maret 2024
No Versi PSP		Tanggal Versi	
Tempat Penelitian	Laboratorium Hewan FKUH Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 13 Maret 2024 sampai 13 Maret 2025	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(K)	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	dr. Firdaus Hamid, PhD, SpMK(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 prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

LAMPIRAN 2. SURAT SELESAI PENELITIAN

	ADMINISTRASI	FORMULIR 2
	Nomor : 140/04/FR2/2023	Tanggal : 25 April 2024
SURAT KETERANGAN SELESAI PENGAMBILAN DATA/ ANALISA BAHAN HAYATI		

Dengan hormat,

Dengan ini menerangkan bahwa peneliti/mahasiswa berikut ini :

Nama : Heryl Runtal
 NIM : P062221005
 Institusi : S2 Ilmu Biomedik Sekolah Pascasarjana UNHAS
 Judul Penelitian : Pengaruh Perbandingan Antara Alternate day Fasting Dengan Diet Restriksi Terhadap Kadar Reseptor Endothelin Alpha (ET-A) Pada Ginjal Tikus Wistar (*Rattus norvegicus*) Obesitas.

Telah selesai melakukan pengambilan data/ analisa bahan hayati :

Pada tanggal : 25 April 2024
 Jumlah subjek : ± 24 sampel
 Jenis data : Data Primer


Dengan staf pendamping/pembimbing :

Nama : Handayani Halik, S.Si., M.Kes
 Konsultan : -

Surat keterangan ini juga merupakan penjelasan bahwa peneliti/mahasiswa diatas tidak mempunyai sangkutan lagi pada unit/laboratorium kami.

Demikian surat ini dibuat untuk dipergunakan sebagaimana mestinya.

Pendamping/Pembimbing


Handayani Halik, S.Si., M.Kes.
 NIP

Mengetahui,
 Kepala Laboratorium,


Dr. Rusdina Bte Ladju, Ph.D
 NIP 196108302012122002



LAMPIRAN 3. DOKUMENTASI PENELITIAN

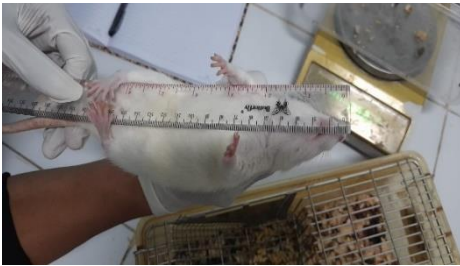
Gambar: Pemeliharaan hewan coba



Gambar: Penimbangan berat badan



Gambar: Pengukuran panjang badan



Gambar: Pemberian pakan standar



Gambar: Pemberian pakan CP551 + Susu



Gambar: Pemberian puasa alternate day fasting



Gambar : Pemberian diet restriksi



Gambar: Anestesi dan terminasi hewan coba



Gambar: Pembedahan hewan coba



Gambar: Pengambilan organ ginjal



Gambar: Preparasi sampel organ ginjal hewan coba



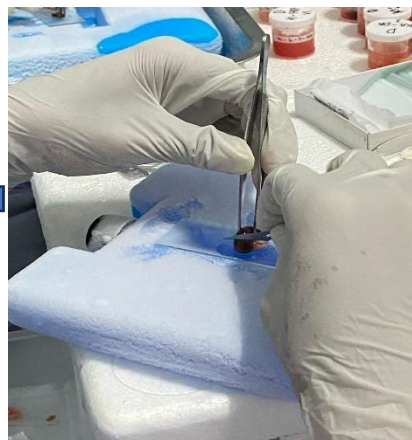
Menyiapkan alat dan bahan



Mengambil sampel organ ginjal



Menggerus hasil potongan ginjal sampai halus dalam tube



Pemotongan sampel menjadi beberapa bagian kecil



Proses sentrifugasi sampel



Mengambil serum hasil sentrifugasi

Gambar: Uji ELISA



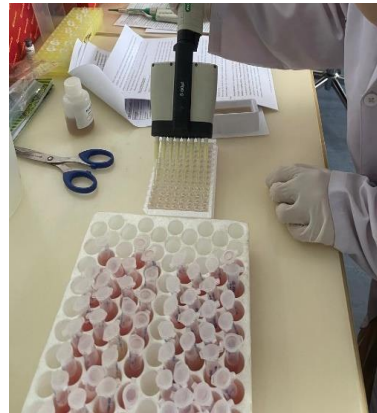


Plate	Well	Group	Type	Sample	Original (Abs)	Filtered conc. (g/ml)
Plate 1	A02	Assay	Unknown	Un_0001 1/1	3.6701	2.05E+03
Plate 1	B02	Assay	Unknown	Un_0002 1/1	3.8031	2.02E+03
Plate 1	C02	Assay	Unknown	Un_0003 1/1	3.5656	1.96E+03
Plate 1	D02	Assay	Unknown	Un_0004 1/1	3.4762	1.88E+03
Plate 1	E02	Assay	Unknown	Un_0005 1/1	3.1033	1.61E+03
Plate 1	F02	Assay	Unknown	Un_0006 1/1	3.5882	2.00E+03
Plate 1	G02	Assay	Unknown	Un_0007 1/1	3.4320	1.94E+03
Plate 1	H02	Assay	Unknown	Un_0008 1/1	3.8373	1.97E+03
Plate 1	A03	Assay	Unknown	Un_0009 1/1	3.8373	2.00E+03
Plate 1	B03	Assay	Unknown	Un_0010 1/1	4.0102	2.48E+03
Plate 1	C03	Assay	Unknown	Un_0011 1/1	3.4055	1.91E+03
Plate 1	D03	Assay	Unknown	Un_0012 1/1	2.3930	9.22E+02
Plate 1	E03	Assay	Unknown	Un_0013 1/1	2.4332	9.51E+02
Plate 1	F03	Assay	Unknown	Un_0014 1/1	3.3333	1.84E+03
Plate 1	G03	Assay	Unknown	Un_0015 1/1	3.3935	1.80E+03
Plate 1	H03	Assay	Unknown	Un_0016 1/1	2.4910	1.39E+03
Plate 1	A04	Assay	Unknown	Un_0017 1/1	3.9984	2.39E+03
Plate 1	B04	Assay	Unknown	Un_0018 1/1	4.2555	2.65E+03
Plate 1	C04	Assay	Unknown	Un_0019 1/1	3.7474	2.32E+03
Plate 1	D04	Assay	Unknown	Un_0020 1/1	3.7057	2.30E+03
Plate 1	E04	Assay	Unknown	Un_0021 1/1	3.8871	2.49E+03
Plate 1	F04	Assay	Unknown	Un_0022 1/1	4.4785	3.06E+03
Plate 1	G04	Assay	Unknown	Un_0023 1/1	4.7357	3.27E+03
Plate 1	H04	Assay	Unknown	Un_0024 1/1	4.7565	3.28E+03
Plate 1	A05	Assay	Unknown	Un_0025 1/1	3.7100	2.16E+03
Plate 1	B05	Assay	Unknown	Un_0026 1/1	3.4302	1.88E+03

QuantitativeCurveFit Sheet1

Pai r 1	BERAT BADAN minggu ke-10 - BERAT BADAN minggu ke-16	36.7125	8.7833	3.1054	29.3694	44.0556	11.822	7	.000
Pai r 2	INDEKS LEE MINGGU KE- 10 - INDEKS LEE MINGGU KE-16	51.8138	8.7418	3.0907	44.5055	59.1222	16.764	7	.000

Berat Badan Tikus

Kelompok ADF (Alternate Day Fasting)

Uji Paired T Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	BERAT BADAN minggu ke-10	281.813	8	37.3764	13.2146
	BERAT BADAN minggu ke-16	245.100	8	39.7577	14.0565
Pair 2	INDEKS LEE MINGGU KE-10	348.9842	8	5.26498	1.86145
	INDEKS LEE MINGGU KE-16	297.1703	8	8.57581	3.03201

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	BERAT BADAN minggu ke-10 & BERAT BADAN minggu ke-16	8	.976	.000

Pair 2	INDEKS LEE MINGGU KE-10 & INDEKS LEE MINGGU KE-16	8	.275	.510
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Paired Samples Test

		Paired Differences							
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	BERAT BADAN minggu ke-10 - BERAT BADAN minggu ke-16	36.7125	8.7833	3.1054	29.3694	44.0556	11.822	7	.000
Pair 2	INDEKS LEE MINGGU KE-10 - INDEKS LEE MINGGU KE-16	51.81389	8.74183	3.09070	44.50554	59.12224	16.764	7	.000

Berat Badan Tikus

Kelompok DR (Diet Restriksi)

Uji Paired T Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	BERAT BADAN minggu ke-10	259.487	8	26.2552	9.2826
	BERAT BADAN minggu ke-16	250.737	8	30.0231	10.6148

Pair 2	INDEKS LEE MINGGU KE-10	344.4650	8	9.26716	3.27643
	INDEKS LEE MINGGU KE-16	299.8166	8	8.78470	3.10586

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	BERAT BADAN minggu ke-10 & BERAT BADAN minggu ke-16	8	.911	.002
Pair 2	INDEKS LEE MINGGU KE-10 & INDEKS LEE MINGGU KE-16	8	.382	.351

Paired Samples Test

		Mean	Paired Differences		95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
			Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	BERAT BADAN minggu ke-10 - BERAT BADAN minggu ke-16	8.7500	12.4445	4.3998	-1.6539	19.1539	1.989	7	.087
Pair 2	INDEKS LEE MINGGU KE-10 - INDEKS LEE MINGGU KE-16	44.6483	10.0440	3.5511	36.2513	53.0453	12.573	7	.000

Kadar Endothelin Reseptor Alpha (ET_A) Ginjal Tikus

Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ETRA TOTAL (ETRA KANAN + ETRA KIRI)	.184	23	.043	.936	23	.147

a. Lilliefors Significance Correction

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

Descriptives

ETRA TOTAL (ETRA KANAN + ETRA KIRI)

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
ADF	8	4833.3637	1474.19563	521.20686	3600.9053	6065.82216	2640.915	7259.564
		7	5	5	7			
DR	7	5286.9154	735.318611	277.92431	4606.8591	5966.97171	4284.221	6591.075
		2		1	3			
OBES	8	6762.5204	1959.83795	692.90735	5124.0548	8400.98596	4466.671	9230.112
		3	3	3	9			
Total	23	5642.4122	1671.98771	348.63353	4919.3905	6365.43394	2640.915	9230.112
		4	1	8	3			

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
ETRA TOTAL (ETRA KANAN + ETRA KIRI)	Based on Mean	6.212	2	20	.0
	Based on Median	5.987	2	20	.0

	Based on Median and with adjusted df	5.987	2	18.377	.0
	Based on trimmed mean	6.245	2	20	.0

ANOVA

ETRA TOTAL (ETRA KANAN + ETRA KIRI)

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16158260.168	2	8079130.084	3.564	.047
Within Groups	45343683.772	20	2267184.189		
Total	61501943.940	22			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: ETRA TOTAL (ETRA KANAN + ETRA KIRI)

LSD

(I) ADF, DR , OBES	(J) ADF, DR , OBES	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
ADF	DR	-453.551657	779.28267 0	.56 7	-	1172.0035
					2079.1068	1
ADF	OBES	- 1929.156660*	752.85858 4	.01 9	-	-
					3499.5921	358.72117
DR	ADF	453.551657	779.28267 0	.56 7	-	2079.1068
					1172.0035	2
					1	

	OBES	-1475.605003	779.28267 0	.07 3	- 3101.1601 7	149.95016
OBES	ADF	1929.156660*	752.85858 4	.01 9	358.72117	3499.5921 5
	DR	1475.605003	779.28267 0	.07 3	- 149.95016	3101.1601 7

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