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LAMPIRAN 1



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
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REKOMENDASI PERSETUJUAN ETIK

Nomor : 77/UN4.6.4.5.31/ PP36/ 2024

Tanggal: 6 Februari 2024

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

No Protokol	UH24010026	No Sponsor	
Peneliti Utama	dr. Fahrian Tirkal	Sponsor	
Judul Peneliti	HUBUNGAN ANTARA TES SENSITIVITAS KONTRAS DAN WARNA PASCA PANRETINAL LASER PHOTOCOAGULATION (PRP) PADA PASIEN RETINOPATI DIABETIK		
No Versi Protokol	2	Tanggal Versi	5 Februari 2024
No Versi PSP	2	Tanggal Versi	5 Februari 2024
Tempat Penelitian	RS Universitas Hasanuddin dan Klinik JEC Orbita Makassar		
Jenis Review	☐ Exempted ☒ Expedited ☐ Fullboard Tanggal	Masa Berlaku 6 Februari 2024 sampai 6 Februari 2025	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Nama Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(K)	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	Nama 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 Lapor 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 FORMULIR PERSETUJUAN SAMPEL

FORMULIR PERSETUJUAN SETELAH PENJELASAN

Saya yang bertanda tangan di bawah ini :

Nama :

Umur : tahun

Alamat :

Telepon/HP :

Menyatakan bersedia untuk berpartisipasi pada penelitian ini yang berjudul :

**“EFEK LASER PAN RETINAL PHOTOCOAGULATION TERHADAP
SENSITIVITAS KONTRAS DAN WARNA PADA PENDERITA
RETINOPATI DIABETIK”**

setelah mendengar/membaca dan mengerti penjelasan yang diberikan mengenai tujuan dan manfaat yang akan didapatkan pada penelitian ini, khususnya bagi kemajuan ilmu kedokteran.

Makassar,

Responden/Wali

Saksi

(.....)

(.....)

Penanggung jawab penelitian :

Nama : dr. Fahrian Tirkal

Alamat : Jl. Tamalanrea Selatan 6 No.247 (Blok M no. 247-248) Makassar

No Hp : 082317512239

Penanggung jawab Medis :

Nama : Prof. dr. Andi Muhammad Ichsan, Ph.D, Sp.M(K)

No Hp : 081342280880

LAMPIRAN 3. DATA INDUK PENELITIAN

NO	Nama	Inisial Nama	Jenis Kelamin	Usia (Tahun)	DPSP	Pemeriksaan Sensitivitas kontras (jarak 50 cm)		Pemeriksaan Farworth Munsell		Pemeriksaan Ishihara	
						Sebelum	Sesudah PPR (1 Bulan)	Sebelum	Sesudah PPR (1 Bulan)	Sebelum	Sesudah PPR (1 Bulan)
1	Abd Latif Baso	ALB	Laki-Laki	55 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
2	Marsia	MRS	Perempuan	60 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
3	Siti Annar	SIT	Perempuan	61 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
4	Ihram Saleh	IRH	Laki-Laki	57 th	IDP	1,25%	1,25%	Normal	Normal	Normal	Normal
5	Sangkala Dg Bella	SNG	Laki-Laki	65 th	HB	5%	10%	Normal	Normal	Normal	Normal
6	Rifani Nurjannah	RIF	Perempuan	50 th	HB	10%	10%	Protanopia	Tritanopia	Normal	Normal
7	Surati Tahir	SUR	Perempuan	49 th	HB	10%	10%	Deutanopia	Deutanopia	Normal	Normal
8	Beddy Dofri	BED	Laki-Laki	50 th	IDP	1,25%	1,25%	Normal	Normal	Normal	Normal
9	Muh Arifin Hasan	ARF	Laki-Laki	69 th	IDP	5%	5%	Normal	Tritanopia	Normal	Normal
10	Nur Asia	ASI	Perempuan	72 th	IDP	25%	Tidak bisa membaca kontras	Tritanopia	Tritanopia	Normal	Normal
11	Hamzah Zainal	HAZ	Laki-Laki	59 th	IDP	1,25%	1,25%	Normal	Normal	Normal	Normal
12	Santa Kadri	SAR	Perempuan	57 th	IDP	1,25%	1,25%	Normal	Normal	Normal	Normal
13	Dori Ratna Candra	DWI	Perempuan	48 th	IDP	1,25%	1,25%	Normal	Normal	Normal	Normal
14	Muh Sobarsyah	SOB	Laki-Laki	52 th	IDP	5%	5%	Normal	Normal	Normal	Normal
15	Nursia Dg Caya	NUR	Perempuan	55 th	IDP	5%	10%	Normal	Normal	Normal	Normal
16	Ilma Sadihin	ILM	Perempuan	55 th	IDP	10%	10%	Tritanopia	Tritanopia	Normal	Normal
17	Muh Arifin Hasan (2)	ARF (2)	Laki-Laki	69 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
18	Silvinus Salapampang	SIL	Laki-Laki	65 th	HB	5%	10%	Protanopia	Protanopia	Normal	Normal
19	Massaruddin Rusli	MAS	Laki-Laki	67 th	IDP	5%	10%	Normal	Tritanopia	Normal	Normal
20	Andi Mahmud	AND	Laki-Laki	59 th	IDP	5%	5%	Normal	Tritanopia	Normal	Normal
21	Ani Mariati	ANI	Perempuan	54 th	IDP	25%	Tidak bisa membaca kontras	Tidak Spesifik	Tidak Spesifik	Diskromatopsia	Diskromatopsia
22	Ridwan Kulle	RID	Laki-Laki	62 th	IDP	25%	Tidak bisa membaca kontras	Tidak Spesifik	Tidak Spesifik	Diskromatopsia	Diskromatopsia
23	Muliati Alii	MUL	Perempuan	57 th	HB	5%	5%	Normal	Normal	Normal	Normal
24	Maria Kasanto	MAR	Perempuan	56 th	HB	1,25%	1,25%	Normal	Normal	Normal	Normal
25	Nurmin Abdul	NUR	Perempuan	55 th	HB	1,25%	1,25%	Normal	Normal	Normal	Normal
26	Sartin Toyang Ruru	SRT	Perempuan	60 th	IDP	2,5%	2,5%	Normal	Tritanopia	Normal	Normal
27	Muh Sanusi Hadamin	SAN	Laki-Laki	61 th	IDP	10%	10%	Normal	Tritanopia	Normal	Normal
28	La Ode Muh Said	ODE	Laki-Laki	62 th	IDP	10%	10%	Normal	Normal	Normal	Normal
29	Hasnawati Sudirman	HAS	Perempuan	64 th	IDP	10%	25%	Normal	Tritanopia	Normal	Normal
30	Faridah	FAR	Perempuan	67 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
31	Nur Anni	NUR	Perempuan	52 th	HB	5%	5%	Normal	Tritanopia	Normal	Normal
32	Bahar	BHR	Laki-Laki	56 th	HB	10%	10%	Normal	Normal	Normal	Normal
33	Rifani Nurjannah (2)	RIF (2)	Perempuan	50 th	HB	10%	10%	Normal	Tritanopia	Normal	Normal
34	Kalimuddin Idrus	KAL	Laki-Laki	52 th	HB	5%	5%	Normal	Tritanopia	Normal	Normal
35	Muhsin Pasanai	MUH	Laki-Laki	55 th	HB	1,25%	1,25%	Normal	Normal	Normal	Normal
36	Syamsidar Ismail	SYA	Perempuan	54 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
37	Indo Bau	IND	Perempuan	57 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
38	Iwan Saeni	IWA	Laki-Laki	55 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
39	Surya Derna	SUR	Laki-Laki	62 th	IDP	2,5%	2,5%	Normal	Tritanopia	Normal	Normal
40	Abduriffai	ABD	Laki-Laki	61 th	IDP	5%	5%	Normal	Normal	Normal	Normal
41	Ronald Vaurentiu	RON	Laki-Laki	57 th	HB	5%	5%	Normal	Normal	Normal	Normal
42	Muh Sain	SAI	Laki-Laki	52 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
43	Suprianty Rusli	SUP	Perempuan	53 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
44	Sumaling Pattola	SUM	Laki-Laki	58 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
45	Surani Baso	SRI	Perempuan	73 th	HB	5%	5%	Normal	Normal	Normal	Normal
46	Abd Majid	MAJ	Laki-Laki	47 th	HB	5%	5%	Normal	Normal	Normal	Normal
47	Nur Aini	AIN	Perempuan	48 th	HB	5%	5%	Normal	Normal	Normal	Normal
48	Caligono Iwan	CAH	Laki-Laki	49 th	HB	5%	5%	Normal	Tritanopia	Normal	Normal
49	Nasrah Muhtar	NAS	Perempuan	52 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
50	Mhelda Alim	MHE	Perempuan	55 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
51	Mukhtar Daipa	MUK	Laki-Laki	57 th	HB	2,5%	2,5%	Normal	Normal	Normal	Normal
52	Hoeni Laudea	HOE	Laki-Laki	54 th	HB	10%	10%	Normal	Normal	Normal	Normal
53	Edy Soenarto	EDY	Laki-Laki	52 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
54	Muh Israt	IST	Laki-Laki	55 th	IDP	25%	25%	Normal	Normal	Normal	Normal
55	Besse Samsia	BES	Perempuan	54 th	IDP	25%	25%	Normal	Normal	Normal	Normal
56	Iin Rosmini	IIN	Perempuan	53 th	IDP	2,5%	2,5%	Normal	Normal	Normal	Normal
57	Bahsar Adli	BAH	Laki-Laki	56 th	IDP	25%	Tidak bisa membaca kontras	Normal	Normal	Normal	Normal
58	Martha Bontong	MAH	Perempuan	55 th	IDP	10%	10%	Normal	Normal	Normal	Normal
59	Kurnia Rajab	RAJ	Perempuan	53 th	IDP	10%	10%	Normal	Normal	Normal	Normal
60	Hardina Dg Romba	HRD	Perempuan	54 th	HB	5%	5%	Normal	Normal	Normal	Normal

LAMPIRAN 4. STATISTIK PENELITIAN

OUTPUT SPSS

JK

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Laki-Laki	30	50.0	50.0	50.0
	Perempuan	30	50.0	50.0	100.0
	Total	60	100.0	100.0	

Descriptives

		Statistic	Std. Error
Umur	Mean	56.9500	.77146
	95% Confidence Interval for Mean	Lower Bound	55.4063
		Upper Bound	58.4937
	5% Trimmed Mean	56.6667	
	Median	55.5000	
	Variance	35.709	
	Std. Deviation	5.97573	
	Minimum	47.00	
	Maximum	73.00	
	Range	26.00	
	Interquartile Range	7.75	
	Skewness	.790	.309
	Kurtosis	.321	.608

Kontras_pre * Kontras_post Crosstabulation

		Kontras_post						Tidak bisa membaca kontras	Total
		1,25%	10%	2,5%	25%	5%			
Kontras_pre	1,25%	Count	1	0	5	0	2	0	8
	%	% within Kontras_pre	12.5%	0.0%	62.5%	0.0%	25.0%	0.0%	100.0%
		% within Kontras_post	100.0%	0.0%	71.4%	0.0%	20.0%	0.0%	13.3%

	10%	% of Total	1.7%	0.0%	8.3%	0.0%	3.3%	0.0%	13.3%
		Count	0	5	1	6	1	0	13
		% within Kontras_pre	0.0%	38.5%	7.7%	46.2%	7.7%	0.0%	100.0 %
		% within Kontras_post	0.0%	18.5%	14.3%	54.5%	10.0%	0.0%	21.7%
		% of Total	0.0%	8.3%	1.7%	10.0%	1.7%	0.0%	21.7%
	2,5%	Count	0	2	1	0	7	0	10
		% within Kontras_pre	0.0%	20.0%	10.0%	0.0%	70.0%	0.0%	100.0 %
		% within Kontras_post	0.0%	7.4%	14.3%	0.0%	70.0%	0.0%	16.7%
		% of Total	0.0%	3.3%	1.7%	0.0%	11.7%	0.0%	16.7%
	25%	Count	0	0	0	2	0	4	6
		% within Kontras_pre	0.0%	0.0%	0.0%	33.3%	0.0%	66.7%	100.0 %
		% within Kontras_post	0.0%	0.0%	0.0%	18.2%	0.0%	100.0%	10.0%
		% of Total	0.0%	0.0%	0.0%	3.3%	0.0%	6.7%	10.0%
	5%	Count	0	20	0	3	0	0	23
		% within Kontras_pre	0.0%	87.0%	0.0%	13.0%	0.0%	0.0%	100.0 %
		% within Kontras_post	0.0%	74.1%	0.0%	27.3%	0.0%	0.0%	38.3%
		% of Total	0.0%	33.3%	0.0%	5.0%	0.0%	0.0%	38.3%
	Total	Count	1	27	7	11	10	4	60
		% within Kontras_pre	1.7%	45.0%	11.7%	18.3%	16.7%	6.7%	100.0 %
		% within Kontras_post	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
		% of Total	1.7%	45.0%	11.7%	18.3%	16.7%	6.7%	100.0 %

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	113.349 ^a	20	.000
Likelihood Ratio	91.224	20	.000
N of Valid Cases	60		

a. 28 cells (93.3%) have expected count less than 5. The minimum expected count is .10.

Descriptives

		Statistic	Std. Error
Kontras_sens_pre	Mean	32.4643	3.06382
	95% Confidence Interval for Mean	Lower Bound	26.3243
		Upper Bound	38.6043
	5% Trimmed Mean	31.3095	
	Median	20.0000	
	Variance	525.671	
	Std. Deviation	22.92753	
	Minimum	4.00	
	Maximum	80.00	
	Range	76.00	
	Interquartile Range	20.00	
	Skewness	1.038	.319
	Kurtosis	.163	.628
KOntras_sens_post	Mean	31.6429	3.15080
	95% Confidence Interval for Mean	Lower Bound	25.3285
		Upper Bound	37.9572
	5% Trimmed Mean	30.4921	
	Median	10.0000	
	Variance	555.943	
	Std. Deviation	23.57844	
	Minimum	4.00	
	Maximum	80.00	
	Range	76.00	
	Interquartile Range	30.00	
	Skewness	.992	.319

Kurtosis	.037	.628
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Ranks

		N	Mean Rank	Sum of Ranks
KOntras_sens_post - Kontras_sens_pre	Negative Ranks	5 ^a	3.00	15.00
	Positive Ranks	0 ^b	.00	.00
	Ties	51 ^c		
	Total	56		

a. KOntras_sens_post < Kontras_sens_pre

b. KOntras_sens_post > Kontras_sens_pre

c. KOntras_sens_post = Kontras_sens_pre

Test Statistics^a

KOntras_sens_p
ost -
Kontras_sens_p
re

Z	-2.121 ^b
Asymp. Sig. (2-tailed)	.034

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

Farnsworth_pre2 * Farnsworth_post2 Crosstabulation

			Farnsworth_post2					Total
			Normal	Protanopia	Deutanopia	Tritanopia	Tidak spesifik	
Farnsworth_pre2	Normal	Count	42	0	0	11	0	53
		% within Farnsworth_pre2	79.2%	0.0%	0.0%	20.8%	0.0%	100.0%
		% within Farnsworth_post2	100.0%	0.0%	0.0%	78.6%	0.0%	88.3%

		% of Total	70.0 %	0.0%	0.0%	18.3%	0.0%	88.3 %
		Count	0	1	0	1	0	2
	Protanopia	% within Farnsworth_pree2	0.0%	50.0%	0.0%	50.0%	0.0%	100.0 %
		% within Farnsworth_post2	0.0%	100.0%	0.0%	7.1%	0.0%	3.3%
		% of Total	0.0%	1.7%	0.0%	1.7%	0.0%	3.3%
	Deutanopia	Count	0	0	1	0	0	1
		% within Farnsworth_pree2	0.0%	0.0%	100.0%	0.0%	0.0%	100.0 %
		% within Farnsworth_post2	0.0%	0.0%	100.0%	0.0%	0.0%	1.7%
		% of Total	0.0%	0.0%	1.7%	0.0%	0.0%	1.7%
	Tritanopia	Count	0	0	0	2	0	2
		% within Farnsworth_pree2	0.0%	0.0%	0.0%	100.0%	0.0%	100.0 %
		% within Farnsworth_post2	0.0%	0.0%	0.0%	14.3%	0.0%	3.3%
		% of Total	0.0%	0.0%	0.0%	3.3%	0.0%	3.3%
	Tidak spesifik	Count	0	0	0	0	2	2
		% within Farnsworth_pree2	0.0%	0.0%	0.0%	0.0%	100.0 %	100.0 %
		% within Farnsworth_post2	0.0%	0.0%	0.0%	0.0%	100.0 %	3.3%
		% of Total	0.0%	0.0%	0.0%	0.0%	3.3%	3.3%
	Total	Count	42	1	1	14	2	60
		% within Farnsworth_pree2	70.0 %	1.7%	1.7%	23.3%	3.3%	100.0 %
		% within Farnsworth_post2	100.0 %	100.0%	100.0%	100.0%	100.0 %	100.0 %

% of Total	70.0 %	1.7%	1.7%	23.3%	3.3%	100.0 %
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Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	158.046 ^a	16	.000
Likelihood Ratio	43.785	16	.000
Linear-by-Linear Association	17.788	1	.000
N of Valid Cases	60		

a. 23 cells (92.0%) have expected count less than 5. The minimum expected count is .02.

Ishihara_pre2 & Ishihara_post2

Ishihara_pre2	Ishihara_post2	
	Normal	Diskromatopsia
Normal	58	0
Diskromatopsia	0	2

Test Statistics^a

Ishihara_pre2 & Ishihara_post2	
N	60
Exact Sig. (2-tailed)	1.000 ^b

a. McNemar Test

b. Binomial distribution used.