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Lampiran 1. Surat permintaan obat



Nomor : 245 / H6 - 04 / 22.02.2021
Lamp. : -
Hal : Permohonan obat Amitriptilin

Kepada :
Yth. Bapak / Ibu Direktur / Kepala / Pimpinan
RSJD Dr Arif Zainudin Surakarta
Surakarta

Dengan hormat,

Berkaitan dengan tugas penelitian mahasiswa Program Studi S1 Farmasi Fakultas Farmasi Universitas Setia Budi, maka dengan ini kami mengajukan permohonan ijin bagi mahasiswa kami :

N a m a : Lutvi Setia Prajindra
NIM : 23175272A
Watu Penelitian : 24 Februari 2021

Judul Penelitian : Uji Aktivitas Antidepresan Isolat Miristisin Tanaman Pala (*Myristica fragrans*) Terhadap Peningkatan Aktivitas Lokomotor dan Penurunan Waktu Imobilitas Mencit Putih Jantan

Untuk keperluan / memperoleh Data)* :
Permohonan obat Amitriptilin untuk penelitian skripsi

Besar harapan kami atas terkabulnya permohonan ini yang tentunya akan berguna bagi pembangunan nusa dan bangsa khususnya kemajuan dibidang pendidikan.

Demikian atas kerja samanya disampaikan banyak terima kasih.

Surakarta, 22.02.2021
Dekan,



Prof. Dr. R.A. Oetari, SU., MM., Apt.
NIS. 01200409162098

Lampiran 2. Surat ethical clearance

7/20/22, 3:48 PM

KEPK-RSDM



HEALTH RESEARCH ETHICS COMMITTEE
KOMISI ETIK PENELITIAN KESEHATAN

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 963 / VII / HREC / 2022

The Health Research Ethics Committee Dr. Moewardi
 Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

after reviewing the proposal design, herewith to certify
 setelah menilai rancangan penelitian yang diusulkan, dengan ini menyatakan

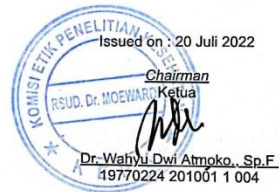
That the research proposal with topic :
 Bahwa usulan penelitian dengan judul

UJI AKTIVITAS ANTIDEPRESAN SENYAWA ISOMIRISTISIN TERHADAP AKTIVITAS LOKOMOTOR MENCIT PUTIH JANTAN (Mus musculus) DENGAN METODE OPEN FIELD TEST (OFT)

Principal investigator : Vito Nugroho
 Peneliti Utama 25196001A

Location of research : Universitas Setia Budi Surakarta
 Lokasi Tempat Penelitian

Is ethically approved
 Dinyatakan layak etik



<https://komisi-etik-rsmnewarri.com/kepka/ethicalclearance/25196001A-1345>

1/1

Lampiran 3. Surat hewan

"ABIMANYU FARM"

◀ Mencit putih jantan ▼ Tikus Wistar ▼ Swiss Webster ◀ Coong
 ▼ Mencit Balb/C ▼ Kelinci New Zealand

Ngampon RT 04 / RW 04 Majosongo Kec. Jebres Surakarta. Phone 085 629 994 33 / Lab USB Ska

Yang bertanda tangan di bawah ini:
 Nama : Sigit Pramono

Selaku pengelola Abimanyu Farm, menerangkan bahwa hewan uji yang digunakan untuk penelitian, oleh:

Nama : Hery Muhamad Ansory, S.Pd., M.Sc
 NIS : 01201503161192
 Institusi : Universitas Setia Budi Surakarta

Merupakan hewan uji dengan spesifikasi sebagai berikut:

Jenis hewan : Mencit Swiss
 Umur : 2-3 bulan
 Jenis kelamin : Jantan dan betina
 Jumlah : Jantan 75 ekor dan betina 30 ekor Total 105 ekor
 Keterangan : Sehat
 Asal-usul : Unit Pengembangan Hewan Percobaan UGM Yogyakarta

Yang pengembangan dan pengelolannya disesuaikan standar baku penelitian. Demikian surat keterangan ini dibuat untuk digunakan sebagaimana mestinya.



Surakarta, 07 Desember 2022

Hormat kami



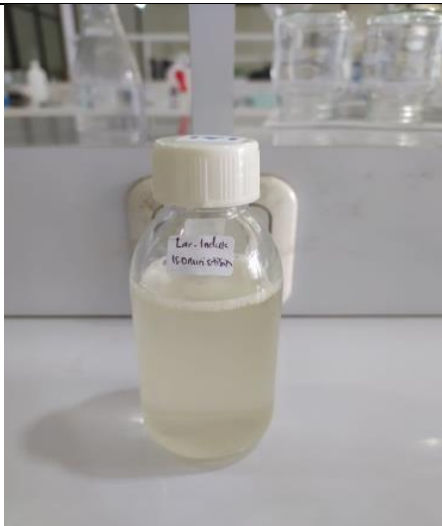

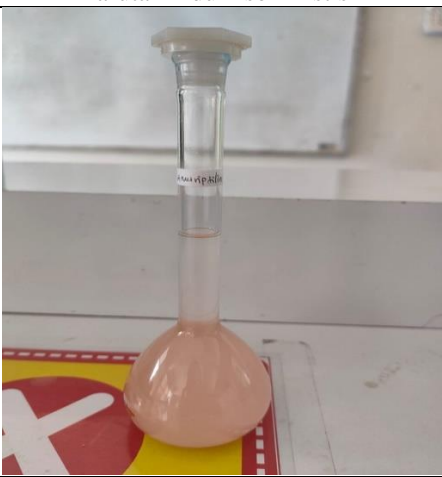


 Sigit Pramono
 "ABIMANYU FARM"

Lampiran 4. Alat dan Bahan



Amitriptilin	Propilen glikol
 A hand holding a small vial of Amitriptilin in a laboratory setting. The vial is labeled 'Amitriptilin' and contains a dark liquid. The background shows a laboratory bench with various equipment.	 A large white plastic jug of Propilen glikol in a laboratory setting. The jug is labeled 'Propilen glikol' and is placed on a laboratory bench. The background shows a laboratory bench with various equipment. A watermark 'REDMI NOTE 8 PRO AI QUAD CAMERA' is visible at the bottom of the image.
Isomiristisin	Aquadest

Lampiran 5. Pembuatan sediaan uji

	
Isomiristisin	Hasil penimbangan isomiristisin
	
Larutan induk isomiristisin	Seri konsentrasi isomiristisin
	
Larutan Amitriptilin	Pengenceran propilen glikol 10%

Lampiran 6. Perhitungan volume pemberian

1. Propilen glikol 10% 500 mL

$$\text{Propilen glikol } 100\% = \frac{10}{100} \times 500 \text{ mL} = 50 \text{ mL}$$

2. Dosis Amitriptilin

Dosis Amitriptilin untuk manusia BB 70 kg adalah 25 mg.

Faktor konversi dari manusia BB 70 kg ke mencit BB 20 g adalah 0,0026

$$\begin{aligned} \text{Dosis Amitriptilin untuk mencit BB } 20 \text{ g} &= 25 \text{ mg} \times 0,0026 \\ &= 0,065 \text{ mg}/20 \text{ g} \end{aligned}$$

BB mencit = 3,25 mg/kg BB mencit

Larutan stok amitriptilin = 25 mg dalam 100 mL larutan propilen glikol 10%.

$$\text{Volume pemberian untuk mencit } 20 \text{ g} = \frac{0,065 \text{ mg}}{25 \text{ mg}} \times 100 \text{ mL}$$

$$= 0,26 \text{ mL}$$

$$\text{Volume pemberian untuk mencit } x \text{ g} = \frac{x}{20 \text{ g}} \times 0,26 \text{ mL}$$

$$= \dots \text{ mL}$$

3. Larutan Induk Isomiristisin

Isomiristisin sebanyak 100 mg dimasukkan kedalam labu tentukur 100 mL, ditambahkan propilen glikol 10% ad 100 mL dan didapatkan larutan ujidengan kadar 1 mg/mL.

4. Dosis Isomiristisin 1,5 mg/KgBB mencit

$$\text{Dosis isomiristisin untuk mencit } 20 \text{ g} = \frac{20 \text{ gram}}{100 \text{ gram}} \times 1,5 \text{ mg}$$

$$= 0,3 \text{ mg}$$

$$\text{Volume pemberian untuk mencit } 20 \text{ g} = \frac{0,03 \text{ gram}}{0,06 \text{ gram}} \times 1 \text{ mL}$$

$$= 0,5 \text{ mL}$$

$$\text{Volume pemberian untuk mencit } X \text{ gram} = \frac{x \text{ gram}}{20 \text{ gram}} \times 0,5 \text{ mL}$$

$$= \dots \text{ mL}$$

5. Dosis Isomiristisin 3 mg/KgBB mencit

$$\text{Dosis isomiristisin untuk mencit } 20 \text{ g} = \frac{20 \text{ gram}}{1000 \text{ gram}} \times 3 \text{ mg}$$

$$= 0,06 \text{ mg}$$

$$\text{Volume pemberian untuk mencit } 20 \text{ g} = \frac{0,06 \text{ gram}}{0,12 \text{ gram}} \times 1 \text{ mL}$$

$$= 0,5 \text{ mL}$$

$$\text{Volume pemberian untuk mencit } X \text{ gram} = \frac{x \text{ gram}}{20 \text{ gram}} 0,5 \text{ mL}$$

$$= \dots \text{ mL}$$

6. Dosis Isomiristisin 6 mg/KgBB mencit

$$\text{Dosis isomiristisin untuk mencit } 20 \text{ g} = \frac{20 \text{ gram}}{1000 \text{ gram}} \times 6 \text{ mg}$$

$$= 0,12 \text{ mg}$$

$$\text{Volume pemberian untuk mencit } 20 \text{ g} = \frac{0,12 \text{ gram}}{0,24 \text{ gram}} \times 1 \text{ mL}$$

$$= 0,5 \text{ mL}$$

$$\text{Volume pemberian untuk mencit } X \text{ gram} = \frac{x \text{ gram}}{20 \text{ gram}} 0,5 \text{ mL}$$

$$= \dots \text{ mL}$$

7. Larutan seri 0,06 mg/mL $V_1.C_1 = V_2.C_2$

$$V_1 \times 1 \text{ mg/mL} = 50 \text{ mL} \times 0,06 \text{ mg/mL}$$

$$V_1 = 3 \text{ mL}$$

8. Larutan seri 0,12 mg/mL $V_1.C_1 = V_2.C_2$

$$V_1 \times 1 \text{ mg/mL} = 50 \text{ mL} \times 0,12 \text{ mg/mL}$$

$$V_1 = 6 \text{ mL}$$

9. Larutan seri 0,24 mg/mL $V_1.C_1 = V_2.C_2$

$$V_1 \times 1 \text{ mg/mL} = 50 \text{ mL} \times 0,24 \text{ mg/mL}$$

$$V_1 = 12 \text{ mL}$$

Lampiran 7. Perlakuan hewan uji

Lampiran 8. Hasil pengukuran durasi *central square*

Kamp	M1		M2		M3		M4		M5		M6		M7		M8		M9		
	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	Cardiokue	Radika	
Kantilamal	1	306			301		305		305		305		305		305		305		305
	2	349	3055	349306	349	3065	349	3065	349	3065	349	3065	349	3065	349	3065	349	3065	349
	3	336		340		337		337		337		337		337		337		337	
Kantilamal	4	240			214		208		208		212		212		212		212		212
	1	629		344		215		215		217		217		217		217		217	
	2	42		314		301		304		316		316		316		316		316	
Kantilamal	3	432	3096	440023	405	3070	408		408		418		418		418		418		418
	4	84		408		408		408		408		408		408		408		408	
	5	342		436		407		407		409		409		409		409		409	
Kantilamal	1	408		432		337		337		337		337		337		337		337	
	2	438	4235	440024	428	3025	439		439		437		437		437		437		437
	4	302		404		432		432		432		432		432		432		432	
Kantilamal	5	429		349		385		385		404		404		404		404		404	
	1	320		235		449		449		405		405		405		405		405	
	2	446		439		305		305		407		407		407		407		407	
Dakilangibant	3	318	482	1700035	219	3075	305		308		314		314		314		314		314
	4	398		8		265		265		212		212		212		212		212	
	5	46		207		225		225		405		405		405		405		405	
Dakilangibant	1	425		435		448		448		433		433		433		433		433	
	2	344	439	440008	19	306	315		315		342		342		342		342		342
	5	433		208		34		34		404		404		404		404		404	
Dakilangibant	3	40		257		448		448		407		407		407		407		407	
	1	307		205		404		404		353		353		353		353		353	
	2	305		456		307		307		316		316		316		316		316	
Dakilangibant	3	300	3000000	3000000	129	3000000	408		408		408		408		408		408		408
	4	330		435		375		375		422		422		422		422		422	
	5	353		444		214		214		315		315		315		315		315	

Lampiran 9. Hasil pengukuran durasi *rearing*

Kelompok Menei	T0					T1					T2					T3					T4					T5					T6					T7				
	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD	Rearing	Rate-Rearing	SD							
monNegeri	1	1742		1890					19			1867			1791			1753			1717			1697			1673			1673										
	2	573	127025	925643	615	135735	940927	62	13665	946662	601	1328	936663	570	1274	926453	541	1244	921823	487	11975	911911	405	115075	913996	445	112525	9170076	445	112525	9170076									
	3	2357		2399				2425			2369			2314			2283			2219			2219			2182			2182											
	4	445		501				521			475			412			399			376			376			348			321											
	5	333		097				1			075			081			056			0			0			043			0											
monNegeri	1	1186		645				521			433			406			379			327			327			327			327											
	2	1186	24566	2125443	1977	16438	1629431	1896	15298	156239	1861	14614	159728	1625	1376	156625	1569	12866	1475227	1322	11858	142317	1271	11264	1412796	1265	11264	1412796	1265	11264	1412796									
	3	3012		4383				4053			3974			3981			3732			3575			3575			3518			3518											
	4	3815		4383				4053			3974			3981			3732			3575			3575			3518			3518											
	5	1847		1117				1079			964			787			732			705			705			644			644											
GrandPusat	1	2774		1865				2677			4632			3941			3079			2787			2787			2787			2787											
	2	2114	21755	823091	678	97125	620339	1516	173125	69752	3255	31035	114728	4171	4196	132102	3079	401525	167064	5783	556425	174945	617	57355	183609	6425	556425	174945	5351	556425	174945	5351	556425	174945						
	3	2034		885				1721			2662			3922			4144			4798			4798			4798			4798											
	4	2034		457				1011			1965			274			3048			3789			3789			3614			3614											
	5	128		148				2245			2696			3004			3215			3408			3408			3377			3671											
5 mg/kg BB	1	3056		1674				2478			2585			2917			3076			3318			3318			3456			3456											
	2	3318	30192	2183248	1798	15714	1829776	2989	25824	344733	3679	3111	528189	4056	34758	541435	4466	37272	619233	4629	39162	587854	4812	40788	6037431	5062	40788	6037431	5062	40788	6037431									
	3	3318		1335				2303			2927			3385			3609			3772			3772			3955			4177											
	4	2794		1602				2897			3668			4017			429			4404			4404			4594			47											
	5	3111		114				2917			3394			3778			4077			4256			4256			4413			4589											
mg/kg BB	1	2625	241725	1304	108825	1597278	2589	219625	688097	3017	338875	944106	3362	39275	1047161	3598	409825	1036702	3795	426275	1034123	3916	441725	1028817	4076	441725	1028817	4076	441725	1028817	4076	441725	1028817							
	2	2625		1031				366			4683			5297			5547			5711			5711			6237			6237											
	3	2625		944				2019			2661			2873			3163			3319			3319			3685			3685											
	4	2625		877				2614			3522			3966			4111			4267			4267			4418			4606											
	5	2157		988				3706			4686			4974			5286			5473			5473			5843			5843											
mg/kg BB	1	2319	2054	21187	1074	9148	12188	3523	28022	735388	478	36132	950387	4891	3984	944655	5195	42408	946684	5302	44128	9454130	5416	4588	9151684	5572	4588	9151684	5572	4588	9151684									
	2	2108		912				2108			2669			3018			3301			3431			3431			3694			3694											
	3	2319		743				206			2711			3071			3413			3591			3591			3748			3748											
	4	2108		912				2108			2669			3018			3301			3431			3431			3694			3694											
	5	1784		743				206			2711			3071			3413			3591			3591			3748			3748											

Lampiran 10. Uji normalitas durasi *central square* sebelum induksi (t0)

Tests of Normality							
Kelompok		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
t0_central square	kontrol normal	0,287	4		0,837	4	0,187
	kontrol negatif	0,259	5	.200*	0,940	5	0,666
	kontrol positif	0,377	4		0,770	4	0,059
	dosis 1	0,216	5	.200*	0,901	5	0,415
	dosis 2	0,165	4		0,990	4	0,959
	dosis 3	0,192	5	.200*	0,962	5	0,822

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

a. Lilliefors Significance Correction

Tests of Normality							
kelompok		Kolmogorov-Smirnova			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
t1_central square	kontrol normal	0,274	4		0,873	4	0,309
	kontrol negatif	0,201	5	.200*	0,968	5	0,864
	kontrol positif	0,342	4		0,807	4	0,115
	dosis 1	0,112	5	.200*	0,997	5	0,997
	dosis 2	0,165	4		0,991	4	0,962
	dosis 3	0,181	5	.200*	0,949	5	0,733

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

a. Lilliefors Significance Correction

Tests of Normality							
kelompok		Kolmogorov-Smirnova			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
t2h7_central square	kontrol normal	0,249	4		0,925	4	0,567
	kontrol negatif	0,217	5	.200*	0,955	5	0,775
	kontrol positif	0,227	4		0,909	4	0,478
	dosis 1	0,202	5	.200*	0,938	5	0,655
	dosis 2	0,231	4		0,965	4	0,808
	dosis 3	0,143	5	.200*	0,977	5	0,916

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

a. Lilliefors Significance Correction

Lampiran 11. Uji T berpasangan durasi *central square* sebelum dan sesudah induksi

Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t0_centralsquare_kontrolnormal - t1_centralsquare_kontrolnormal	-0,17750	1,77564	0,88782	-3,00294	2,64794	-0,200	3	0,854	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t0_centralsquare_kontrolnegatif - t1_centralsquare_kontrolnegatif	20,22800	13,93072	6,23001	2,93072	37,52528	3,247	4	0,031	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t0_centralsquare_kontrolpositif - t1_centralsquare_kontrolpositif	22,63000	6,97809	3,48905	11,52629	33,73371	6,486	3	0,007	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t0_centralsquare_dosis1 - t1_centralsquare_dosis1	26,17600	5,95989	2,66534	18,77583	33,57617	9,821	4	0,001	

Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t0_centralsquare_dosis2 - t1_centralsquare_dosis2	21,25500	2,64820	1,32410	17,04112	25,46888	16,052	3	0,001	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t0_centralsquare_dosis3 - t1_centralsquare_dosis3	15,50200	1,91176	0,85496	13,12824	17,87576	18,132	4	0,000	

Lampiran 12. Uji T berpasangan durasi *central square* sesudah induksi dan setelah perlakuan

Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t1_central square_kontrolnormal - t2_central square_kontrolnormal	1,41500	0,71286	0,35643	0,28068	2,54932	3,970	3	0,029	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t1_central square_kontrolnegatif - t2_central square_kontrolnegatif	13,04400	14,31319	6,40105	-4,72817	30,81617	2,038	4	0,111	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t1_central square_kontrolpositif - t2_central square_kontrolpositif	-43,28750	12,16014	6,08007	-62,63699	-23,93801	-7,120	3	0,006	
Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t1_central square_dosis1 - t2_central square_dosis1	-39,19000	7,37833	3,29969	-48,35141	-30,02859	-11,877	4	0,000	

Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t1_central square_dosis2 - t2_central square_dosis2	-48,76500	6,30359	3,15180	-58,79543	-38,73457	-15,472	3	0,001	

Paired Samples Test										
		Paired Differences					t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	Interval of the					
					Lower	Upper				
Pair 1	t1_central square_dosis3 - t2_central square_dosis3	-62,97600	4,29424	1,92044	-68,30801	-57,64399	-32,792	4	0,000	

Tests of Normality							
kelompok		Kolmogorov-Smirnova			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
rearing_t0	kontrol normal	0,277	4		0,885	4	0,362
	kontrol negatif	0,209	5	.200*	0,922	5	0,543
	kontrol positif	0,280	4		0,942	4	0,667
	dosis 1	0,223	5	.200*	0,922	5	0,542
	dosis 2	0,215	4		0,956	4	0,753
	dosis 3	0,201	5	.200*	0,968	5	0,862

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

a. Lilliefors Significance Correction

Tests of Normality							
kelompok		Kolmogorov-Smirnova			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
rearing_t1	kontrol normal	0,283	4		0,866	4	0,281
	kontrol negatif	0,223	5	.200*	0,891	5	0,361
	kontrol positif	0,305	4		0,868	4	0,291
	dosis 1	0,166	5	.200*	0,980	5	0,935
	dosis 2	0,209	4		0,962	4	0,794
		dosis 3	0,178	5	.200*	0,990	5

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

a. Lilliefors Significance Correction

Tests of Normality							
kelompok		Kolmogorov-Smirnova			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
rearing_ t2h18	kontrol normal	0,281	4		0,872	4	0,306
	kontrol negatif	0,273	5	.200 [*]	0,836	5	0,154
	kontrol positif	0,145	4		0,999	4	0,997
	dosis 1	0,206	5	.200 [*]	0,919	5	0,527
	dosis 2	0,176	4		0,983	4	0,918
	dosis 3	0,210	5	.200 [*]	0,874	5	0,285
*. This is a lower bound of the true significance.							
a. Lilliefors Significance Correction							

Lampiran 13. Uji T berpasangan *rearing* sebelum dan sesudah induksi

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t0_rearing_kontrolnormal - t1_rearing_kontrolnormal	-0,74000	0,55064	0,27532	-1,61618	0,13618	-2,688	3	0,075
Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t0_rearing_kontrolnegatif - t1_rearing_kontrolnegatif	7,92800	4,58221	2,04923	2,23843	13,61757	3,869	4	0,018
Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t0_rearing_kontrolpositif - t1_rearing_kontrolpositif	12,04250	2,85210	1,42605	7,50417	16,58083	8,445	3	0,003
Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t0_rearing_dosis1 - t1_rearing_dosis1	14,47800	0,70041	0,31323	13,60833	15,34767	46,221	4	0,000
Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t0_rearing_dosis2 - t1_rearing_dosis2	13,19000	0,91895	0,45947	11,72775	14,65225	28,707	3	0,000
Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t0_rearing_dosis3 - t1_rearing_dosis3	11,39200	0,99480	0,44489	10,15680	12,62720	25,607	4	0,000

Lampiran 14. Uji T berpasangan durasi *rearing* sesudah induksi dan setelah perlakuan

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t1_rearing_kontrolnormal - t2_rearing_kontrolnormal	1,98000	0,27068	0,13534	1,54929	2,41071	14,630	3	0,001

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t1_rearing_kontrolnegatif - t2_rearing_kontrolnegatif	4,71800	3,24143	1,44961	0,69323	8,74277	3,255	4	0,031

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t1_rearing_kontrolpositif - t2_rearing_kontrolpositif	-48,65750	13,36958	6,68479	-69,93149	-27,38351	-7,279	3	0,005

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t1_rearing_dosis1 - t2_rearing_dosis1	-27,01600	5,26151	2,35302	-33,54903	-20,48297	-11,481	4	0,000

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence				
					Lower	Upper			
Pair 1	t1_rearing_dosis2 - t2_rearing_dosis2	-32,43250	5,99509	2,99754	-41,97202	-22,89298	-10,820	3	0,002

Paired Samples Test									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval				
					Lower	Upper			
Pair 1	t1_rearing_dosis3 - t2_rearing_dosis3	-39,72000	10,04807	4,49364	-52,19633	-27,24367	-8,839	4	0,001

Lampiran 15. Uji ANOVA *central square* setelah perlakuan (T2)

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
t2h7_cent alsquare	Based on Mean	5,134	5	21	0,003
	Based on Median	3,872	5	21	0,012
	Based on Median and with adjusted df	3,872	5	4,314	0,098
	Based on trimmed mean	5,119	5	21	0,003

ANOVA					
t2h7_cent alsquare					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	14431,582	5	2886,316	7,455	0,000
Within Groups	8130,848	21	387,183		
Total	22562,431	26			

Multiple Comparisons						
Dependent Variable:						
LSD						
(I) kelompok		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence	
					Lower Bound	Upper Bound
kontrol normal	kontrol negatif	4,94600	13,19971	0,712	-22,5043	32,3963
	kontrol positif	-54,30000*	13,91372	0,001	-83,2352	-25,3648
	dosis 1	-31,34600*	13,19971	0,027	-58,7963	-3,8957
	dosis 2	-40,02250*	13,91372	0,009	-68,9577	-11,0873
	dosis 3	-50,21800*	13,19971	0,001	-77,6683	-22,7677
kontrol negatif	kontrol normal	-4,94600	13,19971	0,712	-32,3963	22,5043
	kontrol positif	-59,24600*	13,19971	0,000	-86,6963	-31,7957
	dosis 1	-36,29200*	12,44481	0,008	-62,1724	-10,4116
	dosis 2	-44,96850*	13,19971	0,003	-72,4188	-17,5182
	dosis 3	-55,16400*	12,44481	0,000	-81,0444	-29,2836
kontrol positif	kontrol normal	54,30000*	13,91372	0,001	25,3648	83,2352
	kontrol negatif	59,24600*	13,19971	0,000	31,7957	86,6963
	dosis 1	22,95400	13,19971	0,097	-4,4963	50,4043
	dosis 2	14,27750	13,91372	0,316	-14,6577	43,2127
	dosis 3	4,08200	13,19971	0,760	-23,3683	31,5323
dosis 1	kontrol normal	31,34600*	13,19971	0,027	3,8957	58,7963
	kontrol negatif	36,29200*	12,44481	0,008	10,4116	62,1724
	kontrol positif	-22,95400	13,19971	0,097	-50,4043	4,4963
	dosis 2	-8,67650	13,19971	0,518	-36,1268	18,7738
	dosis 3	-18,87200	12,44481	0,144	-44,7524	7,0084
dosis 2	kontrol normal	40,02250*	13,91372	0,009	11,0873	68,9577
	kontrol negatif	44,96850*	13,19971	0,003	17,5182	72,4188
	kontrol positif	-14,27750	13,91372	0,316	-43,2127	14,6577
	dosis 1	8,67650	13,19971	0,518	-18,7738	36,1268
	dosis 3	-10,19550	13,19971	0,448	-37,6458	17,2548
dosis 3	kontrol normal	50,21800*	13,19971	0,001	22,7677	77,6683
	kontrol negatif	55,16400*	12,44481	0,000	29,2836	81,0444
	kontrol positif	-4,08200	13,19971	0,760	-31,5323	23,3683
	dosis 1	18,87200	12,44481	0,144	-7,0084	44,7524
	dosis 2	10,19550	13,19971	0,448	-17,2548	37,6458

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

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
rearing_t2h18	Based on Mean	1,476	5	21	0,240
	Based on Median	0,937	5	21	0,477
	Based on Median and with adjusted df	0,937	5	10,412	0,496
	Based on trimmed mean	1,427	5	21	0,255

ANOVA					
rearing_t2h18					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8614,144	5	1722,829	13,113	0,000
Within Groups	2758,979	21	131,380		
Total	11373,123	26			

Multiple Comparisons						
Dependent Variable:						
LSD						
(I) kelompok		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol normal	kontrol negatif	-0,16750	7,68902	0,983	-16,1577	15,8227
	kontrol positif	-46.81750 [*]	8,10494	0,000	-63,6726	-29,9624
	dosis 1	-31.17750 [*]	7,68902	0,001	-47,1677	-15,1873
	dosis 2	-31.86250 [*]	8,10494	0,001	-48,7176	-15,0074
	dosis 3	-37.31550 [*]	7,68902	0,000	-53,3057	-21,3253
kontrol negatif	kontrol normal	0,16750	7,68902	0,983	-15,8227	16,1577
	kontrol positif	-46.65000 [*]	7,68902	0,000	-62,6402	-30,6598
	dosis 1	-31.01000 [*]	7,24927	0,000	-46,0857	-15,9343
	dosis 2	-31.69500 [*]	7,68902	0,000	-47,6852	-15,7048
	dosis 3	-37.14800 [*]	7,24927	0,000	-52,2237	-22,0723
kontrol positif	kontrol normal	46.81750 [*]	8,10494	0,000	29,9624	63,6726
	kontrol negatif	46.65000 [*]	7,68902	0,000	30,6598	62,6402
	dosis 1	15,64000	7,68902	0,055	-0,3502	31,6302
	dosis 2	14,95500	8,10494	0,079	-1,9001	31,8101
	dosis 3	9,50200	7,68902	0,230	-6,4882	25,4922
dosis 1	kontrol normal	31.17750 [*]	7,68902	0,001	15,1873	47,1677
	kontrol negatif	31.01000 [*]	7,24927	0,000	15,9343	46,0857
	kontrol positif	-15,64000	7,68902	0,055	-31,6302	0,3502
	dosis 2	-0,68500	7,68902	0,930	-16,6752	15,3052
	dosis 3	-6,13800	7,24927	0,407	-21,2137	8,9377
dosis 2	kontrol normal	31.86250 [*]	8,10494	0,001	15,0074	48,7176
	kontrol negatif	31.69500 [*]	7,68902	0,000	15,7048	47,6852
	kontrol positif	-14,95500	8,10494	0,079	-31,8101	1,9001
	dosis 1	0,68500	7,68902	0,930	-15,3052	16,6752
	dosis 3	-5,45300	7,68902	0,486	-21,4432	10,5372
dosis 3	kontrol normal	37.31550 [*]	7,68902	0,000	21,3253	53,3057
	kontrol negatif	37.14800 [*]	7,24927	0,000	22,0723	52,2237
	kontrol positif	-9,50200	7,68902	0,230	-25,4922	6,4882
	dosis 1	6,13800	7,24927	0,407	-8,9377	21,2137
	dosis 2	5,45300	7,68902	0,486	-10,5372	21,4432

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