

LAMPIRAN



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS LAMPUNG
FAKULTAS KEDOKTERAN

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PERSETUJUAN ETIK
ETHICAL APPROVAL

No: 2734 /UN26/8/DT/2015

Komite Etik Penelitian Kesehatan Fakultas Kedokteran Universitas Lampung, dalam upaya melindungi hak asasi dan kesejahteraan subjek penelitian kesehatan dan menjamin bahwa penelitian yang menggunakan formulir Survei/Registrasi/Surveilans/Epidemiologi/Humaniora/Sosial Budaya/ Bahan Biologi Tersimpan/Sel Punca dan non klinis lainnya berjalan dengan memperhatikan implikasi etik, hukum, sosial dan non klinis lainnya yang berlaku, telah mengkaji dengan teliti proposal penelitian berjudul:

The Health Research Ethics Committee, Faculty of Medicine, University Lampung, in order to protect the rights and welfare of the health research subject, and to guaranty that the research using survey/questionnaire/registry/surveillance/epidemiology/humaniora/social-cultural/archived biological materials/ stem cell/ other nonclinical materials, will carry out according to ethical, legal, social implications and other applicable regulations, have been thoroughly reviewed the proposal entitled:

*“Pengaruh Protektif Dan Kuratif Pemberian Suplemen Jus Buah Naga Putih (*Hylocereus undatus*) Terhadap Gambaran Histologi Testis Tikus Putih (*Rattus norvegicus*) Jantan Dewasa Galur Sprague dawley Yang Diinduksi Siproteron Asetat”*


*“Protective and Curative Effect of Supplementation of Juice White Dragon Fruit (*Hylocereus undatus*) Against the Histological testicles of adult Male Rats (*Rattus norvegicus*) Galur Sprague dawley Induced with Cyproterone Acetate”*

Nama Peneliti Utama : Dwi Waskita Utama
Principal researcher
Nama Institusi : Fakultas Kedokteran Universitas Lampung
Name of Institution : *Faculty of Medicine University of Lampung*

Proposal tersebut dapat disetujui pelaksanaannya
Hereby declare that the proposal is approved

Bandar Lampung, 18 Desember 2015
Bandar Lampung, December 18th 2015

Komisi Etik Penelitian Kesehatan
Fakultas Kedokteran Universitas Lampung
Health Research Ethical Commission
Faculty of Medicine University of Lampung


dr. Susianti, M.Sc
NIP. 197808052005012003

An. Dekan
On Behalf of Dean
Wakil Dekan Bidang Akademik Dan Kerjasama,
Vice Dean of Academic and Co-operation Affair


Dr. dr. Asep Sukohar, M.Kes
NIP.196905152001121004

Keterangan/notes:

Persetujuan etik ini berlaku selama satu tahun sejak tanggal ditetapkan
This ethical clearance is effective for one year from the due date

Lampiran 2 Uji Statistik

A. Jumlah Sel Spermatisit Primer

Case Processing Summary

kelompok		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Spermatisit primer	kontrol	5	100,0%	0	0,0%	5	100,0%
	perlakuan 1	5	100,0%	0	0,0%	5	100,0%
	perlakuan 2	5	100,0%	0	0,0%	5	100,0%
	perlakuan 3	5	100,0%	0	0,0%	5	100,0%
	perlakuan 4	5	100,0%	0	0,0%	5	100,0%

Descriptives

kelompok		Statistic	Std. Error		
Spermatisit primer	kontrol	Mean	375,20	3,760	
		95% Confidence Interval for Mean	Lower Bound	364,76	
			Upper Bound	385,64	
		5% Trimmed Mean	375,17		
		Median	374,00		
		Variance	70,700		
		Std. Deviation	8,408		
		Minimum	365		
		Maximum	386		
		Range	21		
		Interquartile Range	16		
		Skewness	,176	,913	
		Kurtosis	-1,424	2,000	
		perlakuan 1		Mean	381,40
95% Confidence Interval for Mean	Lower Bound			367,64	
	Upper Bound			395,16	
5% Trimmed Mean	381,89				
Median	383,00				
Variance	122,800				
Std. Deviation	11,082				
Minimum	363				
Maximum	391				
Range	28				
Interquartile Range	18				
Skewness	-1,501			,913	
Kurtosis	2,482			2,000	

perlakuan 2	Mean		320,00	2,915
	95% Confidence Interval for Mean	Lower Bound	311,91	
		Upper Bound	328,09	
	5% Trimmed Mean		320,06	
	Median		320,00	
	Variance		42,500	
	Std. Deviation		6,519	
	Minimum		311	
	Maximum		328	
	Range		17	
	Interquartile Range		12	
	Skewness		-,271	,913
	Kurtosis		-,392	2,000
perlakuan 3	Mean		346,00	3,701
	95% Confidence Interval for Mean	Lower Bound	335,72	
		Upper Bound	356,28	
	5% Trimmed Mean		345,72	
	Median		345,00	
	Variance		68,500	
	Std. Deviation		8,276	
	Minimum		338	
	Maximum		359	
	Range		21	
	Interquartile Range		15	
	Skewness		1,085	,913
	Kurtosis		1,049	2,000
perlakuan 4	Mean		331,60	2,205
	95% Confidence Interval for Mean	Lower Bound	325,48	
		Upper Bound	337,72	
	5% Trimmed Mean		331,44	
	Median		330,00	
	Variance		24,300	
	Std. Deviation		4,930	
	Minimum		327	
	Maximum		339	
	Range		12	
	Interquartile Range		9	
	Skewness		,943	,913
	Kurtosis		-,265	2,000

Test of Homogeneity of Variances

Spermatisit primer

Levene Statistic	df1	df2	Sig.
,468	4	20	,759

ANOVA

Spermatisit primer

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	14360,160	4	3590,040	54,593	,000
Within Groups	1315,200	20	65,760		
Total	15675,360	24			

Multiple Comparisons

Dependent Variable: Spermatisit primer

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	perlakuan 1	-6,200 [*]	5,129	,241	-16,90	4,50
	perlakuan 2	55,200 [*]	5,129	,000	44,50	65,90
	perlakuan 3	29,200 [*]	5,129	,000	18,50	39,90
	perlakuan 4	43,600 [*]	5,129	,000	32,90	54,30
perlakuan 1	kontrol	6,200	5,129	,241	-4,50	16,90
	perlakuan 2	61,400 [*]	5,129	,000	50,70	72,10
	perlakuan 3	35,400 [*]	5,129	,000	24,70	46,10
	perlakuan 4	49,800 [*]	5,129	,000	39,10	60,50
perlakuan 2	kontrol	-55,200 [*]	5,129	,000	-65,90	-44,50
	perlakuan 1	-61,400 [*]	5,129	,000	-72,10	-50,70
	perlakuan 3	-26,000 [*]	5,129	,000	-36,70	-15,30
	perlakuan 4	-11,600 [*]	5,129	,035	-22,30	-,90
perlakuan 3	kontrol	-29,200 [*]	5,129	,000	-39,90	-18,50
	perlakuan 1	-35,400 [*]	5,129	,000	-46,10	-24,70
	perlakuan 2	26,000 [*]	5,129	,000	15,30	36,70
	perlakuan 4	14,400 [*]	5,129	,011	3,70	25,10
perlakuan 4	kontrol	-43,600 [*]	5,129	,000	-54,30	-32,90
	perlakuan 1	-49,800 [*]	5,129	,000	-60,50	-39,10
	perlakuan 2	11,600 [*]	5,129	,035	,90	22,30
	perlakuan 3	-14,400 [*]	5,129	,011	-25,10	-3,70

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

B. Jumlah Sel Spermatid

Case Processing Summary							
kelompok		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
spermatid	kontrol	5	100,0%	0	0,0%	5	100,0%
	perlakuan 1	5	100,0%	0	0,0%	5	100,0%
	perlakuan 2	5	100,0%	0	0,0%	5	100,0%
	perlakuan 3	5	100,0%	0	0,0%	5	100,0%
	perlakuan 4	5	100,0%	0	0,0%	5	100,0%

Descriptives

kelompok		Statistic	Std. Error	
spermatid	kontrol	Mean	345,60	
		95% Confidence Interval for Mean	Lower Bound	331,67
			Upper Bound	359,53
		5% Trimmed Mean	345,39	
		Median	341,00	
		Variance	125,800	
		Std. Deviation	11,216	
		Minimum	335	
		Maximum	360	
		Range	25	
		Interquartile Range	22	
		Skewness	,559	,913
		Kurtosis	-2,522	2,000
		perlakuan 1		Mean
95% Confidence Interval for Mean	Lower Bound			341,89
	Upper Bound			383,71
5% Trimmed Mean	362,61			
Median	361,00			
Variance	283,700			
Std. Deviation	16,843			
Minimum	343			
Maximum	386			
Range	43			
Interquartile Range	32			
Skewness	,370			,913
Kurtosis	-,791			2,000

perlakuan 2	Mean		306,00	2,775
	95% Confidence Interval for Mean	Lower Bound	298,30	
		Upper Bound	313,70	
	5% Trimmed Mean		306,22	
	Median		307,00	
	Variance		38,500	
	Std. Deviation		6,205	
	Minimum		296	
	Maximum		312	
	Range		16	
	Interquartile Range		11	
	Skewness		-1,256	,913
	Kurtosis		1,744	2,000
	perlakuan 3	Mean		333,00
95% Confidence Interval for Mean		Lower Bound	325,50	
		Upper Bound	340,50	
5% Trimmed Mean			333,00	
Median			333,00	
Variance			36,500	
Std. Deviation			6,042	
Minimum			325	
Maximum			341	
Range			16	
Interquartile Range			11	
Skewness			,000	,913
Kurtosis			-,162	2,000

perlakuan 4	Mean		323,60	2,015
	95% Confidence Interval for Mean	Lower Bound	318,01	
		Upper Bound	329,19	
	5% Trimmed Mean		323,56	
	Median		324,00	
	Variance		20,300	
	Std. Deviation		4,506	
	Minimum		318	
	Maximum		330	
	Range		12	
	Interquartile Range		8	
	Skewness		,327	,913
	Kurtosis		,223	2,000

Tests of Normality

kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
spermatid kontrol	,259	5	,200*	,873	5	,279
perlakuan 1	,143	5	,200*	,983	5	,952
perlakuan 2	,236	5	,200*	,910	5	,470
perlakuan 3	,110	5	,200*	1,000	5	1,000
perlakuan 4	,178	5	,200*	,985	5	,957

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

spermatid

Levene Statistic	df1	df2	Sig.
3,612	4	20	,023

ANOVA

spermatid

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9284,800	4	2321,200	22,991	,000
Within Groups	2019,200	20	100,960		
Total	11304,000	24			

Multiple Comparisons

Dependent Variable: spermatid

Tamhane

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	perlakuan 1	-17,200	9,050	,649	-53,58	19,18
	perlakuan 2	39,600*	5,732	,004	15,43	63,77
	perlakuan 3	12,600	5,697	,505	-11,60	36,80
	perlakuan 4	22,000	5,406	,083	-2,91	46,91
perlakuan 1	kontrol	17,200	9,050	,649	-19,18	53,58
	perlakuan 2	56,800*	8,027	,008	18,99	94,61
	perlakuan 3	29,800	8,002	,128	-8,13	67,73
	perlakuan 4	39,200	7,797	,050	-,05	78,45
perlakuan 2	kontrol	-39,600*	5,732	,004	-63,77	-15,43
	perlakuan 1	-56,800*	8,027	,008	-94,61	-18,99
	perlakuan 3	-27,000*	3,873	,001	-41,78	-12,22
	perlakuan 4	-17,600*	3,429	,012	-31,13	-4,07
perlakuan 3	kontrol	-12,600	5,697	,505	-36,80	11,60
	perlakuan 1	-29,800	8,002	,128	-67,73	8,13
	perlakuan 2	27,000*	3,873	,001	12,22	41,78
	perlakuan 4	9,400	3,370	,228	-3,83	22,63
perlakuan 4	kontrol	-22,000	5,406	,083	-46,91	2,91
	perlakuan 1	-39,200	7,797	,050	-78,45	,05
	perlakuan 2	17,600*	3,429	,012	4,07	31,13
	perlakuan 3	-9,400	3,370	,228	-22,63	3,83

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

C. Diameter Tubulus Seminiferus

Case Processing Summary							
kelompok		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
diameter tubulus	kontrol	5	100,0%	0	0,0%	5	100,0%
	perlakuan 1	5	100,0%	0	0,0%	5	100,0%
	perlakuan 2	5	100,0%	0	0,0%	5	100,0%
	perlakuan 3	5	100,0%	0	0,0%	5	100,0%
	perlakuan 4	5	100,0%	0	0,0%	5	100,0%

Descriptives				
kelompok		Statistic	Std. Error	
diameter tubulus	kontrol	Mean	311,3202	3,51908
		95% Confidence Interval for Mean	Lower Bound 301,5497	Upper Bound 321,0907
		5% Trimmed Mean	311,2206	
		Median	311,7840	
		Variance	61,919	
		Std. Deviation	7,86889	
		Minimum	301,31	
		Maximum	323,12	
		Range	21,81	
		Interquartile Range	12,57	
		Skewness	,530	,913
		Kurtosis	1,610	2,000
	perlakuan 1	Mean	314,8464	10,29279
		95% Confidence Interval for Mean	Lower Bound 286,2690	Upper Bound 343,4238
		5% Trimmed Mean	313,7249	
		Median	311,9600	
		Variance	529,708	
		Std. Deviation	23,01539	
		Minimum	296,65	
		Maximum	353,23	
		Range	56,58	
		Interquartile Range	37,13	
		Skewness	1,543	,913
		Kurtosis	2,576	2,000
	perlakuan 2	Mean	308,8400	3,22507

			2,000	2,000
perlakuan 2	Mean		286,9192	2,63597
	95% Confidence Interval for Mean	Lower Bound	279,6006	
		Upper Bound	294,2378	
	5% Trimmed Mean		286,6927	
	Median		285,9100	
	Variance		34,742	
	Std. Deviation		5,89422	
	Minimum		281,76	
	Maximum		296,16	
	Range		14,40	
	Interquartile Range		10,46	
	Skewness		1,110	,913
	Kurtosis		,843	2,000
	perlakuan 3	Mean		310,4564
95% Confidence Interval for Mean		Lower Bound	305,6560	
		Upper Bound	315,2568	
5% Trimmed Mean			310,6154	
Median			311,2560	
Variance			14,947	
Std. Deviation			3,86610	
Minimum			303,89	
Maximum			314,16	
Range			10,27	
Interquartile Range			5,44	
Skewness			-1,652	,913
Kurtosis			3,477	2,000
perlakuan 4		Mean		309,3020

			2,000	2,000
perlakuan 4	Mean		309,3020	,90072
	95% Confidence Interval for Mean	Lower Bound	306,8012	
		Upper Bound	311,8028	
	5% Trimmed Mean		309,3342	
	Median		309,2320	
	Variance		4,056	
	Std. Deviation		2,01407	
	Minimum		306,50	
	Maximum		311,52	
	Range		5,02	
	Interquartile Range		3,79	
	Skewness		-,395	,913
	Kurtosis		-,943	2,000

Tests of Normality

kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
diameter tubulus kontrol	,273	5	,200 [*]	,945	5	,700
perlakuan 1	,297	5	,173	,828	5	,133
perlakuan 2	,192	5	,200 [*]	,894	5	,376
perlakuan 3	,375	5	,021	,813	5	,103
perlakuan 4	,187	5	,200 [*]	,962	5	,820

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

diameter tubulus

Levene Statistic	df1	df2	Sig.
2,764	4	20	,056

ANOVA

diameter tubulus

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2498,925	4	624,731	4,840	,007
Within Groups	2581,490	20	129,075		
Total	5080,416	24			

Multiple Comparisons

Dependent Variable: diameter tubulus

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	perlakuan 1	-3,52620	7,18539	,629	-18,5147	11,4623
	perlakuan 2	24,40100*	7,18539	,003	9,4125	39,3895
	perlakuan 3	,86380	7,18539	,906	-14,1247	15,8523
	perlakuan 4	2,01820	7,18539	,782	-12,9703	17,0067
perlakuan 1	kontrol	3,52620	7,18539	,629	-11,4623	18,5147
	perlakuan 2	27,92720*	7,18539	,001	12,9387	42,9157
	perlakuan 3	4,39000	7,18539	,548	-10,5985	19,3785
	perlakuan 4	5,54440	7,18539	,449	-9,4441	20,5329
perlakuan 2	kontrol	-24,40100*	7,18539	,003	-39,3895	-9,4125
	perlakuan 1	-27,92720*	7,18539	,001	-42,9157	-12,9387
	perlakuan 3	-23,53720*	7,18539	,004	-38,5257	-8,5487
	perlakuan 4	-22,38280*	7,18539	,005	-37,3713	-7,3943
perlakuan 3	kontrol	-,86380	7,18539	,906	-15,8523	14,1247
	perlakuan 1	-4,39000	7,18539	,548	-19,3785	10,5985
	perlakuan 2	23,53720*	7,18539	,004	8,5487	38,5257
	perlakuan 4	1,15440	7,18539	,874	-13,8341	16,1429
perlakuan 4	kontrol	-2,01820	7,18539	,782	-17,0067	12,9703
	perlakuan 1	-5,54440	7,18539	,449	-20,5329	9,4441
	perlakuan 2	22,38280*	7,18539	,005	7,3943	37,3713
	perlakuan 3	-1,15440	7,18539	,874	-16,1429	13,8341

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