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LAMPIRAN

Lampiran 1. Ethical Clearance

UNIVERSITAS GADJAH MADA
LABORATORIUM PENELITIAN DAN PENGUJIAN TERPADU
KOMISI ETHICAL CLEARANCE UNTUK PENELITIAN PRAKLINIK

KETERANGAN KELAIKAN ETIK
(*Ethical Clearance*)

Nomor: 084-b/KEC-LPPT/XII/2012

Komisi *Ethical Clearance* untuk penelitian praklinik Laboratorium Penelitian dan Pengujian Terpadu, Universitas Gadjah Mada, Yogyakarta, setelah mempelajari dengan seksama rancangan penelitian yang diusulkan, dengan ini menyatakan bahwa penelitian:

Judul penelitian : Pengaruh Vitamin E Terhadap Parameter Kerusakan Hati pada Tikus yang Diberi Parasetamol

Peneliti Utama : Dr. dr. Andrew Johan., M.Si.

Asal Instansi : Program Pasca Sarjana Universitas Diponegoro

Lokasi Penelitian : Unit Praklinik LPPT UGM

Telah dinyatakan memenuhi persyaratan etik untuk dilaksanakan penelitian tersebut pada hewan uji tikus. Komisi *Ethical Clearance* mempunyai hak untuk melakukan pemantauan selama penelitian berlangsung.

Yogyakarta, 28 Desember 2012
Komisi *Ethical Clearance*
Ketua,

Prof. Dr. drh. Siti Isrina Oktavia Salasia

Lampiran 2. Tabel hasil pengukuran ALP

Kelompok	Pretest		Posttest		Δtest	
	374.95	U/l	591.4	U/l	216.45	U/l
	448.84	U/l	516.7	U/l	67.86	U/l
K	426.23	U/l	404.7	U/l	-21.53	U/l
	435.88	U/l	973.2	U/l	537.32	U/l
	380.47	U/l	687.3	U/l	306.83	U/l
	670.23	U/l	-	U/l	-	U/l
	690.9	U/l	835.1	U/l	144.2	U/l
	508.11	U/l	544.5	U/l	36.39	U/l
P1	527.97	U/l	406.7	U/l	-121.27	U/l
	320.36	U/l	497.9	U/l	177.54	U/l
	436.98	U/l	574.6	U/l	137.62	U/l
	556.91	U/l	274.6	U/l	-282.31	U/l
	414.65	U/l	274.3	U/l	-140.35	U/l
	328.08	U/l	797.3	U/l	469.22	U/l
P2	470.9	U/l	448.8	U/l	-22.1	U/l
	416.58	U/l	464.8	U/l	48.22	U/l
	562.7	U/l	443.6	U/l	-119.1	U/l
	508.94	U/l	373.9	U/l	-135.04	U/l
	487.71	U/l	303	U/l	-184.71	U/l
	505.91	U/l	863.5	U/l	357.59	U/l
P3	731.43	U/l	352.9	U/l	-378.53	U/l
	733.64	U/l	682.4	U/l	-51.24	U/l
	441.95	U/l	304.7	U/l	-137.25	U/l
	546.71	U/l	619	U/l	72.29	U/l
	385.43	U/l	499	U/l	113.57	U/l
	555.54	U/l	868.5	U/l	312.96	U/l
P4	414.93	U/l	480.6	U/l	65.67	U/l
	411.34	U/l	804.5	U/l	393.16	U/l
	523.28	U/l	647.9	U/l	124.62	U/l
	522.73	U/l	-	U/l	-	U/l

Lampiran 3. Analisis deskriptif ALP *pretest*

Descriptives

	KelompokPre			Statistic	Std. Error
ALP_Pre	PreKontrol	Mean		456.1000	44.53862
		95% Confidence Interval for Mean	Lower Bound	341.6098	
			Upper Bound	570.5902	
		5% Trimmed Mean		448.7122	
		Median		431.0550	
		Variance		11902.130	
		Std. Deviation		109.09688	
		Minimum		374.95	
		Maximum		670.23	
		Range		295.28	
		Interquartile Range		125.10	
		Skewness		2.037	.845
		Kurtosis		4.519	1.741
	PreP1	Mean		506.8717	50.49369
		95% Confidence Interval for Mean	Lower Bound	377.0735	
			Upper Bound	636.6698	
		5% Trimmed Mean		507.0096	
		Median		518.0400	
		Variance		15297.676	
		Std. Deviation		123.68378	
		Minimum		320.36	
		Maximum		690.90	
		Range		370.54	
		Interquartile Range		182.58	
		Skewness		-.073	.845
		Kurtosis		.891	1.741
	PreP2	Mean		450.3083	33.58693
		95% Confidence Interval for Mean	Lower Bound	363.9704	
			Upper Bound	536.6463	
		5% Trimmed Mean		450.8548	
		Median		443.7400	
		Variance		6768.492	

	Std. Deviation		82.27084	
	Minimum		328.08	
	Maximum		562.70	
	Range		234.62	
	Interquartile Range		129.37	
	Skewness		-.151	.845
	Kurtosis		-.174	1.741
	Mean		574.5583	51.81101
	95% Confidence Interval for Mean	Lower Bound	441.3739	
		Upper Bound	707.7428	
	5% Trimmed Mean		573.0876	
	Median		526.3100	
	Variance		16106.285	
PreP3	Std. Deviation		126.91054	
	Minimum		441.95	
	Maximum		733.64	
	Range		291.69	
	Interquartile Range		255.71	
	Skewness		.668	.845
	Kurtosis		-1.838	1.741
	Mean		468.8750	29.75147
	95% Confidence Interval for Mean	Lower Bound	392.3964	
		Upper Bound	545.3536	
	5% Trimmed Mean		468.6961	
	Median		468.8300	
	Variance		5310.899	
PreP4	Std. Deviation		72.87591	
	Minimum		385.43	
	Maximum		555.54	
	Range		170.11	
	Interquartile Range		126.48	
	Skewness		.031	.845
	Kurtosis		-2.738	1.741

Lampiran 4. Tes normalitas ALP *pretest*

Tests of Normality

	KelompokPre	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
ALP_Pre	PreKontrol	.360	6	.015	.740	6	.016
	PreP1	.176	6	.200[*]	.979	6	.947
	PreP2	.166	6	.200[*]	.980	6	.952
	PreP3	.254	6	.200[*]	.837	6	.122
	PreP4	.270	6	.194	.851	6	.160

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

a. Lilliefors Significance Correction

Lampiran 5. Tes normalitas ALP *pretest* setelah transformasi

Tests of Normality

	KelompokPre	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Trn_Pre	PreKontrol	.325	6	.046	.795	6	.053
	PreP1	.211	6	.200[*]	.956	6	.787
	PreP2	.193	6	.200[*]	.966	6	.863
	PreP3	.222	6	.200[*]	.866	6	.212
	PreP4	.276	6	.170	.852	6	.162

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

a. Lilliefors Significance Correction

Lampiran 6. Tes *One Way Anova* ALP *pretest*

ANOVA

Trn_Pre

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.044	4	.011	1.335	.284
Within Groups	.206	25	.008		
Total	.249	29			

Lampiran 7. Analisis deskriptif ALP *posttest*

Descriptives

	KelompokPost			Statistic	Std. Error
ALP_Post	PostKontrol	Mean		634.6600	96.44892
		95% Confidence Interval for Mean	Lower Bound	366.8749	
			Upper Bound	902.4451	
		5% Trimmed Mean		628.6278	
		Median		591.4000	
		Variance		46511.973	
		Std. Deviation		215.66635	
		Minimum		404.70	
		Maximum		973.20	
		Range		568.50	
		Interquartile Range		369.55	
		Skewness		1.041	.913
		Kurtosis		1.324	2.000
	PostP1	Mean		522.2333	76.67810
		95% Confidence Interval for Mean	Lower Bound	325.1260	
			Upper Bound	719.3407	
		5% Trimmed Mean		518.6093	
		Median		521.2000	
		Variance		35277.191	
		Std. Deviation		187.82223	
		Minimum		274.60	
		Maximum		835.10	
		Range		560.50	
		Interquartile Range		266.05	
		Skewness		.636	.845
		Kurtosis		1.359	1.741
	PostP2	Mean		467.1167	72.06075
		95% Confidence Interval for Mean	Lower Bound	281.8786	
			Upper Bound	652.3547	
		5% Trimmed Mean		459.4852	
		Median		446.2000	
		Variance		31156.510	

	Std. Deviation		176.51207	
	Minimum		274.30	
	Maximum		797.30	
	Range		523.00	
	Interquartile Range		198.92	
	Skewness		1.527	.845
	Kurtosis		3.372	1.741
	Mean		520.9167	95.83449
	95% Confidence Interval for Mean	Lower Bound	274.5663	
		Upper Bound	767.2671	
	5% Trimmed Mean		513.9907	
	Median		485.9500	
	Variance		55105.494	
PostP3	Std. Deviation		234.74559	
	Minimum		303.00	
	Maximum		863.50	
	Range		560.50	
	Interquartile Range		423.40	
	Skewness		.468	.845
	Kurtosis		-1.689	1.741
	Mean		660.1000	78.29566
	95% Confidence Interval for Mean	Lower Bound	442.7164	
		Upper Bound	877.4836	
	5% Trimmed Mean		658.4944	
	Median		647.9000	
	Variance		30651.055	
PostP4	Std. Deviation		175.07443	
	Minimum		480.60	
	Maximum		868.50	
	Range		387.90	
	Interquartile Range		346.70	
	Skewness		.163	.913
	Kurtosis		-2.634	2.000

Lampiran 8. Tes normalitas ALP *posttest*

Tests of Normality

	KelompokPost	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
ALP_Post	PostKontrol	.204	5	.200[*]	.944	5	.692
	PostP1	.224	6	.200[*]	.961	6	.824
	PostP2	.339	6	.030	.842	6	.136
	PostP3	.263	6	.200[*]	.871	6	.230
	PostP4	.221	5	.200[*]	.897	5	.391

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

a. Lilliefors Significance Correction

Lampiran 9. Tes One Way Anova ALP *posttest*

ANOVA

ALP_Post

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	146710.722	4	36677.681	.921	.469
Within Groups	916348.082	23	39841.221		
Total	1063058.804	27			

Lampiran 10. Analisis deskriptif selisih ALP *posttest* dengan *pretest*

Descriptives

	KelompokDelta			Statistic	Std. Error
DeltaALP	K	Mean		221.3860	97.39552
		95% Confidence Interval for Mean	Lower Bound	-49.0273	
			Upper Bound	491.7993	
		5% Trimmed Mean		217.3294	
		Median		216.4500	
		Variance		47429.437	
		Std. Deviation		217.78301	
		Minimum		-21.53	
		Maximum		537.32	
		Range		558.85	
		Interquartile Range		398.91	
		Skewness		.573	.913
		Kurtosis		-.191	2.000
	P1	Mean		15.3617	74.28931
		95% Confidence Interval for Mean	Lower Bound	-175.6051	
			Upper Bound	206.3284	
		5% Trimmed Mean		22.8891	
		Median		87.0050	
		Variance		33113.410	
		Std. Deviation		181.97091	
		Minimum		-282.31	
		Maximum		177.54	
		Range		459.85	
		Interquartile Range		314.06	
		Skewness		-1.030	.845
		Kurtosis		-.255	1.741
	P2	Mean		16.8083	95.46458
		95% Confidence Interval for Mean	Lower Bound	-228.5912	
			Upper Bound	262.2079	
		5% Trimmed Mean		.4054	
		Median		-70.6000	
		Variance		54680.920	

		Std. Deviation		233.83952	
		Minimum		-140.35	
		Maximum		469.22	
		Range		609.57	
		Interquartile Range		289.84	
		Skewness		1.940	.845
		Kurtosis		3.905	1.741
		Mean		-53.6417	102.42033
		95% Confidence Interval for Mean	Lower Bound	-316.9215	
			Upper Bound	209.6382	
		5% Trimmed Mean		-58.4385	
		Median		-94.2450	
		Variance		62939.545	
P3		Std. Deviation		250.87755	
		Minimum		-378.53	
		Maximum		357.59	
		Range		736.12	
		Interquartile Range		376.78	
		Skewness		.654	.845
		Kurtosis		.878	1.741
		Mean		201.9960	63.73683
		95% Confidence Interval for Mean	Lower Bound	25.0342	
			Upper Bound	378.9578	
		5% Trimmed Mean		198.9494	
		Median		124.6200	
		Variance		20311.916	
P4		Std. Deviation		142.51988	
		Minimum		65.67	
		Maximum		393.16	
		Range		327.49	
		Interquartile Range		263.44	
		Skewness		.671	.913
		Kurtosis		-2.154	2.000

Lampiran 11. Tes normalitas selisih ALP *posttest* dengan *pretest*

Tests of Normality

	KelompokDelta	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DeltaALP	K	.160	5	.200[*]	.971	5	.879
	P1	.249	6	.200[*]	.868	6	.219
	P2	.280	6	.155	.747	6	.019
	P3	.163	6	.200[*]	.972	6	.905
	P4	.306	5	.141	.869	5	.264

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

a. Lilliefors Significance Correction

Lampiran 12. Tes Kruskal Wallis

Ranks

	KelompokDelta	N	Mean Rank
DeltaALP	K	5	19.80
	P1	6	13.50
	P2	6	11.33
	P3	6	9.83
	P4	5	19.80
	Total	28	

Test Statistics[a,b]

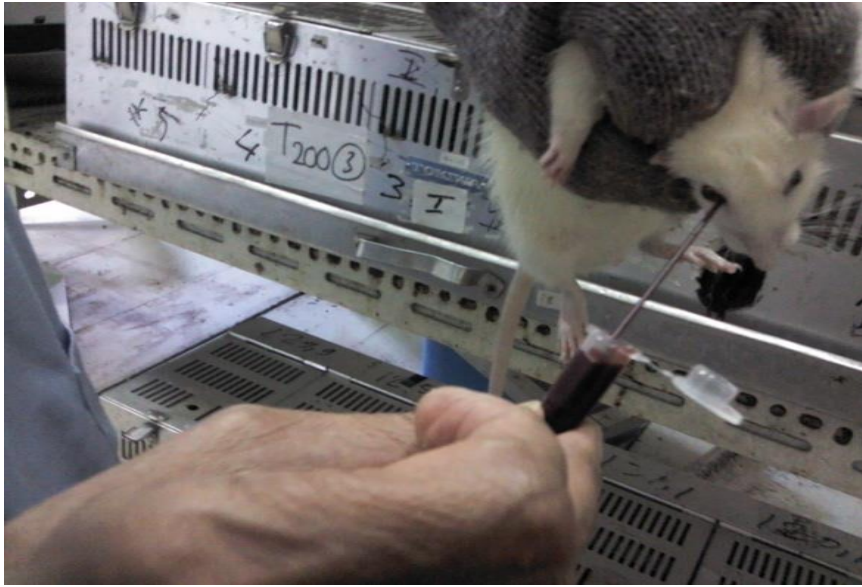|	DeltaALP
Chi-Square	7.060
df	4
Asymp. Sig.	.133

a. Kruskal Wallis Test

b. Grouping Variable:
KelompokDelta

Lampiran 13. Dokumentasi penelitian

Keterangan gambar.
Pemberian Vitamin-E dan parasetamol melalui sonde

Keterangan gambar.
Pengambilan sampel darah tikus

Lampiran 14. Biodata Mahasiswa

IDENTITAS

Nama	:	Michael Berlianto Dhanurwido
NIM	:	G2A009046
Tempat, tanggal lahir	:	Semarang, 6 Januari 1991
Jenis kelamin	:	Laki-laki
Alamat	:	Jl. Banteng Raya no.8, Semarang
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Riwayat Pendidikan Formal

1. SD   : SD Kanisius Pati   Lulus Tahun : 2003

2. SMP   : SMP Keluarga Pati   Lulus Tahun : 2006

3. SMA   : SMA Negeri 2 Pati   Lulus Tahun : 2009

4. FK UNDIP : Masuk tahun : 2009