

DAFTAR PUSTAKA

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LAMPIRAN 1

Komposisi Diet Hewan Coba

Product	D11102101		D11102102	
	gm%	kcal%	gm%	kcal%
Protein	24	20	24	20
Carbohydrate	41	35	41	35
Fat	24	45	24	45
Total	100		100	
Kcal/gm	4.7		4.7	
Ingredient	gm	kcal	gm	kcal
Casein, 80 Mesh	200	800	200	800
L-Cystine	3	12	3	12
Corn Starch	72.8	291.2	72.8	291.2
Maltodextrin 10	100	400	100	400
Sucrose	172.8	691.2	172.8	691.2
Cellulose, BW200	50	0	50	0
Lard	93.075	837.675	8.65	77.85
Primex	84.425	759.825	168.85	1519.65
Mineral Mix, S10026	10	0	10	0
DiCalcium Phosphate	13	0	13	0
Calcium Carbonate	5.5	0	5.5	0
Potassium Citrate, 1 H ₂ O	16.5	0	16.5	0
Vitamin Mix, V10001	10	40	10	40
Choline Bitartrate	2	0	2	0
FD&C Yellow Dye #5	0.025	0	0	0
FD&C Red Dye #40	0	0	0.025	0
FD&C Blue Dye #1	0.025	0	0.025	0
Total	858.15	4507	858.15	4057

LAMPIRAN 2.

HASIL PEMBACAAN PREPARAT JARINGAN HEPAR TIKUS

	Jumlah Sel Limfosit Per-Lapangan Pandang Besar					
Kelompok	1	2	3	4	5	Rata-Rata Limfosit
K						
1	30	31	31	21	23	27.2
2	36	28	30	22	21	27.4
3	28	32	28	28	23	27.8
4	23	12	24	20	25	20.8
5	23	22	24	20	25	22.8
6	37	31	21	34	22	29
P1						
1	38	43	42	49	41	42.6
2	28	29	34	38	38	33.4
3	21	41	35	43	41	36.2
4	32	37	18	30	43	32
5	32	37	18	30	32	29.8
6	43	42	20	36	33	34.8
P2						
1	46	43	47	52	37	45
2	28	30	27	30	32	29.4
3	72	57	45	53	65	58.4
4	42	52	55	33	58	48
5	42	59	59	34	55	49.8
6	57	63	62	55	61	59.6

	Jumlah Sel Neutrofil Per-Lapangan Pandang Besar					
Kelompok	1	2	3	4	5	Rata-Rata Neutrofil
K						
1	6	5	7	8	9	7
2	7	2	2	7	6	4.8
3	7	6	6	4	5	5.6
4	6	7	5	9	1	5.6
5	9	5	11	5	3	6.6
6	6	3	5	7	5	5.2
P1						
1	7	7	11	10	3	7.6
2	6	5	7	7	5	6
3	7	8	6	9	12	8.4
4	8	9	12	7	9	9
5	7	8	10	9	12	9.2
6	5	7	5	6	8	6.2
P2						
1	8	10	14	16	15	12.6
2	14	15	8	9	7	10.6
3	10	9	7	9	11	9.2
4	8	7	9	10	10	8.8
5	10	9	12	8	9	9.6
6	9	7	5	9	6	7.2

	Jumlah Sel Radang Per-Lapangan Pandang Besar					
Kelompok	1	2	3	4	5	Rata-Rata Sel Radang
K						
1	36	36	38	29	32	34.2
2	43	30	32	29	27	32.2
3	35	38	34	32	28	33.4
4	29	19	29	29	26	26.4
5	32	27	35	25	28	29.4
6	43	34	26	41	27	34.2
P1						
1	45	50	53	59	44	50.2
2	34	34	41	45	43	39.4
3	28	49	41	52	53	44.6
4	40	46	30	37	52	41
5	39	45	28	39	44	39
6	48	49	25	42	41	41
P2						
1	54	53	61	68	52	57.6
2	42	45	35	39	39	40
3	82	66	52	62	76	67.6
4	50	59	64	43	68	56.8
5	52	68	71	42	64	59.4
6	66	70	67	64	67	66.8

LAMPIRAN 3.

HASIL UJI STATISTIK

1. Sel Limfosit
 - a. Analisis Deskriptif

Descriptives				
	Kelompok		Statistic	Std. Error
Rata-rata Limfosit	Kontrol	Mean	25.833	1.3261
		95% Confidence Interval for Mean	Lower Bound	22.425
			Upper Bound	29.242
		5% Trimmed Mean	25.937	
		Median	27.300	
		Variance	10.551	
		Std. Deviation	3.2482	
		Minimum	20.8	
		Maximum	29.0	
		Range	8.2	
	P1	Interquartile Range	5.8	
		Skewness	-.960	.845
		Kurtosis	-.895	1.741
		Mean	34.800	1.8037
		95% Confidence Interval for Mean	Lower Bound	30.163
			Upper Bound	39.437
		5% Trimmed Mean	34.644	
		Median	34.100	
		Variance	19.520	
		Std. Deviation	4.4181	
		Minimum	29.8	
		Maximum	42.6	

P2	Range	12.8	
	Interquartile Range	6.4	
	Skewness	1.140	.845
	Kurtosis	1.825	1.741
	Mean	48.367	4.4726
	95% Confidence Interval for Mean	Lower Bound	36.870
		Upper Bound	59.864
	5% Trimmed Mean	48.796	
	Median	48.900	
	Variance	120.023	
	Std. Deviation	10.9555	
	Minimum	29.4	
	Maximum	59.6	
	Range	30.2	
	Interquartile Range	17.6	
	Skewness	-1.011	.845
	Kurtosis	1.311	1.741

b. Uji Normalitas

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rata-rata Limfosit	Kontrol	.330	6	.040	.849	6	.155
	P1	.209	6	.200 [*]	.931	6	.588
	P2	.213	6	.200 [*]	.908	6	.421

c. Uji Homogenitas

Test of Homogeneity of Variances

Rata-rata Limfosit

Levene Statistic	df1	df2	Sig.
2.158	2	15	.150

d. Uji One Way Anova

ANOVA

Rata-rata Limfosit

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1544.413	2	772.207	15.435	.000
Within Groups	750.467	15	50.031		
Total	2294.880	17			

e. Uji Post-Hoc

Multiple Comparisons

Dependent Variable: Rata-rata Limfosit

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	P1	-8.9667*	4.0838	.044	-17.671	-.262
	P2	-22.5333*	4.0838	.000	-31.238	-13.829
P1	Kontrol	8.9667*	4.0838	.044	.262	17.671
	P2	-13.5667*	4.0838	.005	-22.271	-4.862
P2	Kontrol	22.5333*	4.0838	.000	13.829	31.238
	P1	13.5667*	4.0838	.005	4.862	22.271

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

2. Sel Neutrofil

a. Analisis Deskriptif

Descriptives				
	Kelompok		Statistic	Std. Error
Rata-rata Neutrofil	Kontrol	Mean	5.800	.3425
		95% Confidence Interval for Mean	Lower Bound	4.919
			Upper Bound	6.681
		5% Trimmed Mean	5.789	
		Median	5.600	
		Variance	.704	
		Std. Deviation	.8390	
		Minimum	4.8	
		Maximum	7.0	
		Range	2.2	
		Interquartile Range	1.6	
		Skewness	.512	.845
		Kurtosis	-1.143	1.741
	P1	Mean	7.733	.5649
		95% Confidence Interval for Mean	Lower Bound	6.281
			Upper Bound	9.185
		5% Trimmed Mean	7.748	
		Median	8.000	
		Variance	1.915	
		Std. Deviation	1.3837	
		Minimum	6.0	
		Maximum	9.2	
		Range	3.2	
		Interquartile Range	2.9	
		Skewness	-.377	.845

P2	Kurtosis	-2.058	1.741
	Mean	9.667	.7424
	95% Confidence Interval for Mean	Lower Bound Upper Bound	7.758 11.575
	5% Trimmed Mean	9.641	
	Median	9.400	
	Variance	3.307	
	Std. Deviation	1.8184	
	Minimum	7.2	
	Maximum	12.6	
	Range	5.4	
	Interquartile Range	2.7	
	Skewness	.513	.845
	Kurtosis	.948	1.741

b. Uji Normalitas

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rata-rata Neutrofil	Kontrol	.261	6	.200 [*]	.928	6	.566
	P1	.199	6	.200 [*]	.887	6	.303
	P2	.181	6	.200 [*]	.974	6	.917

c. Uji Homogenitas

Test of Homogeneity of Variances

Rata-rata Neutrofil

Levene Statistic	df1	df2	Sig.
1.016	2	15	.386

d. Uji One Way Anova

ANOVA

Rata-rata Neutrofil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	44.853	2	22.427	11.355	.001
Within Groups	29.627	15	1.975		
Total	74.480	17			

e. Uji Post-Hoc

Multiple Comparisons

Dependent Variable: Rata-rata Neutrofil

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	P1	-1.9333*	.8114	.031	-3.663	-.204
	P2	-3.8667*	.8114	.000	-5.596	-2.137
P1	Kontrol	1.9333*	.8114	.031	.204	3.663
	P2	-1.9333*	.8114	.031	-3.663	-.204
P2	Kontrol	3.8667*	.8114	.000	2.137	5.596
	P1	1.9333*	.8114	.031	.204	3.663

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

3. Sel Radang

a. Analisis Deskriptif

Descriptives				
	Kelompok		Statistic	Std. Error
Rata-rata Sel Radang	Kontrol	Mean	31.633	1.2779
		95% Confidence Interval for Mean		
		Lower Bound	28.348	
		Upper Bound	34.918	
		5% Trimmed Mean	31.781	
		Median	32.800	
		Variance	9.799	
		Std. Deviation	3.1303	
		Minimum	26.4	
		Maximum	34.2	
		Range	7.8	
		Interquartile Range	5.6	
		Skewness	-1.124	.845
		Kurtosis	.105	1.741
	P1	Mean	42.533	1.7326
		95% Confidence Interval for Mean		
		Lower Bound	38.080	
		Upper Bound	46.987	
		5% Trimmed Mean	42.304	
		Median	41.000	
		Variance	18.011	
		Std. Deviation	4.2439	
		Minimum	39.0	
		Maximum	50.2	
		Range	11.2	
		Interquartile Range	6.7	
		Skewness	1.481	.845

P2	Kurtosis		1.813	1.741
	Mean		58.033	4.0708
	95% Confidence Interval for Mean	Lower Bound	47.569	
		Upper Bound	68.498	
	5% Trimmed Mean		58.504	
	Median		58.500	
	Variance		99.431	
	Std. Deviation		9.9715	
	Minimum		40.0	
	Maximum		67.6	
	Range		27.6	
	Interquartile Range		14.4	
	Skewness		-1.305	.845
	Kurtosis		2.250	1.741

b. Uji Normalitas

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rata-rata Sel Radang	Kontrol	.238	6	.200 [*]	.854	6	.170
	P1	.308	6	.079	.833	6	.114
	P2	.284	6	.141	.863	6	.199

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

a. Lilliefors Significance Correction

c. Uji Homogenitas

Test of Homogeneity of Variances

Rata-rata Sel Radang

Levene Statistic	df1	df2	Sig.
1.528	2	15	.249

d. Uji One Way Anova

ANOVA

Rata-rata Sel Radang

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2112.040	2	1056.020	24.898	.000
Within Groups	636.200	15	42.413		
Total	2748.240	17			

e. Uji Post-Hoc

Multiple Comparisons

Dependent Variable: Rata-rata Sel Radang

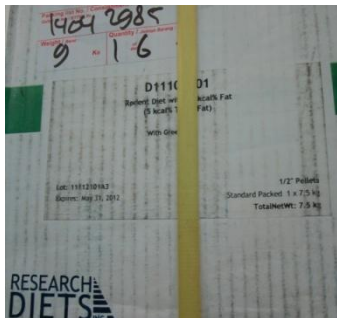
LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	P1	-10.9000*	3.7600	.011	-18.914	-2.886
	P2	-26.4000*	3.7600	.000	-34.414	-18.386
P1	Kontrol	10.9000*	3.7600	.011	2.886	18.914
	P2	-15.5000*	3.7600	.001	-23.514	-7.486
P2	Kontrol	26.4000*	3.7600	.000	18.386	34.414
	P1	15.5000*	3.7600	.001	7.486	23.514

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

LAMPIRAN 4.

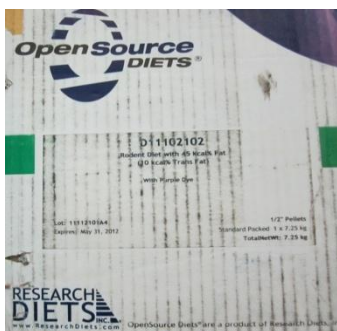
DOKUMENTASI PENELITIAN



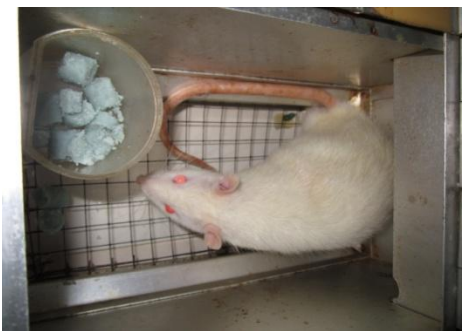
Pakan Asam Lemak Trans 5 %
Diimport dari *Research Diets, Inc.*, NJ, USA



Tikus dengan pakan
Asam Lemak Trans 5%



Pakan Asam Lemak Trans 10 %
Diimport dari *Research Diets, Inc.*, NJ, USA



Tikus dengan pakan
Asam Lemak Trans 10%



Pakan Standart



Tikus dengan pakan standart



Kondisi laboratorium penelitian



Kandang individual tikus percobaan



Terminasi tikus



Pembedahan tikus

LAMPIRAN 5

RIWAYAT HIDUP PENULIS

Identitas

Nama : Edward Tirtananda Wikanta
NIM : G2A009041
Tempat / Tanggal Lahir : Semarang / 25 Januari 1991
Jenis Kelamin : Laki-laki
Alamat : Jl. Petelan Tengah 863 Semarang
Nomor Telepon / HP : (024) 3544288 / 08122877800
Alamat email : e_the_metallic@yahoo.com

Riwayat Pendidikan Formal

- | | |
|---|--------------------|
| 1. SD Marsudirini Semarang | Lulus tahun : 2003 |
| 2. SMP PL Domenico Savio Semarang | Lulus tahun : 2006 |
| 3. SMA Kolese Loyola Semarang | Lulus tahun : 2009 |
| 4. Fakultas Kedokteran Universitas Diponegoro | Masuk tahun : 2009 |

Keanggotaan Organisasi

1. Sie Senior (Seni dan Olah Raga) FK Undip 2010
2. Asisten Dosen Fisika FK Undip 2010
3. Anggota PSM (Paduan Suara Mahasiswa) FK Undip 2010

4. Sie Dokumentasi Scientific Fair 2011
5. Sie Perlengkapan Pekan Olah Raga dan Seni 2011
6. Asisten Dosen Biokimia 2011
7. Asisten Dosen Parasitologi 2012

Pengalaman Mengikuti Lomba Karya Ilmiah

Nama peneliti : 1. Victoria Handoyo
 2. Lisa Lestari
 3. Ericko H. Laymena
 4. Edward Tirtananda Wikanta

Judul Karya Ilmiah: Pengaruh Pemberian Bubuk Kokoa Dalam Mencegah
 Perbuahan Histopatologi Eptiel Mukosa Kolon Pada Tikus
 Wistar yang Diinduksi Dengan 1,2-Dimethylhydrazine
 dihydrochloride

Penyelenggara : Direktorat Jenderal Pendidikan Tinggi Kementrian Pendidikan
 dan Kebudayaan Republik Indonesia

Prestasi : Lolos seleksi pendanaan oleh Dirjen Dikti



KOMISI ETIK PENELITIAN KESEHATAN (KEPK)
FAKULTAS KEDOKTERAN UNIVERSITAS DIPONEGORO
DAN RSUP dr KARIADI SEMARANG
Sekretariat : Kantor Dekanat FK Undip Lt.3
Jl. Dr. Soetomo 18. Semarang
Telp.024-8311523/Fax. 024-8446905



ETHICAL CLEARANCE

No.173/EC/FK/RSDK/2011

Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Universitas Diponegoro/RSUP. Dr. Kariadi Semarang, setelah membaca dan menelaah USULAN Penelitian dengan judul :

**PENGARUH PEMBERIAN ASAM LEMAK TRANS TERHADAP KADAR
HIGH SENSITIVITY C REACTIVE PROTEIN (hsCRP), NITRIC OXIDE (NO),
GLUKOSA DARAH, DAN NEKROSIS SEL β PANKREAS TIKUS SPRAGUE DAWLEY**

Peneliti Utama : dr. Kusmiyati Tjahjono DK,M.Kes
Pembimbing : Prof. Dr. dr. H. Hertanto WS,MS, Sp.GK
Dr. Ratu Ayu Dewi Sartika, Apt, Msc
Prof. dr. Siti Fatimah Muis, M.Sc, Sp.GK
Penelitian : Dilaksanakan di PAU UGM Yogyakarta

Setuju untuk dilaksanakan, dengan memperhatikan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki 1975, dan Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI 2004

Pada laporan akhir peneliti harus melampirkan cara pemeliharaan & dekapitasi hewan coba

Semarang, 15 November 2011

Fakultas Kedokteran Undip
Dekan



Komisi Etik Penelitian Kesehatan
Fakultas Kedokteran Undip/RS. Dr. Kariadi
Ketua



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