LAMPIRAN 1

Komposisi diet hewan coba

(Sumber Research Diets Inc, 21 Oktober 2011)

Komponen pangan	**Jumlah**			
	gm %	**kcal %**	**gm %**	**kcal %**
Protein	24	20	24	20
Carbohydrate	41	35	41	35
Fat	24	45	24	45
Total		**100**		**100**
Jumlah	**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	100	400	100	400
Sucrose	172.8	691.2	172.8	691.2
Cellulose, BW200	50	0	50	0
Soybean Oil	25	225	25	225
Lard	93.075	837.675	8.65	77.85
Primex	84.425	759.825	168.85	1591.65
Mineral Mix, S10026	10	0	10	0
DiCalcium Phosphate	13	0	13	0
Calcium Carbonate	5.5	0	5.5	0
Potassium Citrate, 1 H2O	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	4057	858.15	4057

KETERANGAN :

Asam lemak trans berasal dari Primex. Jumlah asam lemak yang ada di Primex adalah 26,7 %. Jumlah energi 1 gr Lemak = 9 Kkal

Perhitungan asam lemak trans 5 % = 26,7 % X 84,425 gr X 9 Kkal/gr = 202,86

Total kalori = 202,86 /4057 = 5 % Asam lemak Trans

LAMPIRAN 2

Skoring derajat NAFLD

No	Variabel	Skor	Tingkat	Derajat
1	Steatosis (S)	0	<5%	Tidak ada
		1	5-33%	Ringan
		2	>33-66%	Sedang
		3	>66%	Berat
2	Inflamasi Lobuler (L)	0	Tidak ada	Tidak ada
		1	<2 fokus/200x	Ringan
		2	2-4 fokus/200x	Sedang
		3	>4 fokus/200x	Berat
3	Degenerasi *Ballooning* Hepatosit (B)	0	Tidak ada	
		1	Sedikit balloning	
		2	Banyak balloning	

Total nilai NAFLD *activity score* (NAS) adalah gabungan dari skor steatosis, Inflamasi lobuler dan Degenerasi *ballooning* (S+L+B) dengan rentang nilai 0 – 8. Diagnosis NASH adalah rentang 5-8, Borderline rentang nilai 3-4, dan bukan NASH rentang nilai 1- 2.

LAMPIRAN 3

Data berat badan, hati dan makan

Kelompok	Berat badan gr/8 minggu	Berat hati (gr)	Makan gr/hari
K			
1	36	7.2	14.55
2	27.8	8.5	12.88
3	41.8	7.1	14.95
4	16.9	7.8	13.68
5	42.3	7.2	16.38
6	40.3	9	15.89
P-1			
1	84.6	8.4	11.11
2	103	11.8	11.88
3	69.1	10.8	10.11
4	95.3	10.8	11.2
5	69.5	11.3	12.2
6	43.3	11	11.48
P-2			
1	87.2	8.6	11.88
2	124.6	12.3	12.63
3	88.6	13.6	12.3
4	115.1	8.7	12.71
5	103.4	11.5	13.57
6	86.8	14.4	12.63

LAMPIRAN 4

HASIL PEMERIKSAAN HISTOPATOLOGI HATI

Kelp	Observer-1			Observer-2		
	Steatosis	**Inflamasi**	***Balloning***	**Steatosis**	**Inflamasi**	***Balloning***
K						
1	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada
2	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada
3	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada
4	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada
5	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada
6	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada	Tidak ada
P-1						
1	Ringan	Ringan	Tidak ada	Ringan	Ringan	Ringan
2	Ringan	Sedang	Tidak ada	Sedang	Ringan	Tidak ada
3	Sedang	Sedang	Sedikit	Ringan	Sedang	Sedikit
4	Ringan	Ringan	Tidak ada	Ringan	Sedang	Sedikit
5	Ringan	Ringan	Tidak ada	Ringan	Ringan	Sedikit
6	Ringan	Sedang	Tidak ada	Ringan	Ringan	Tidak ada
P-2						
1	Sedang	Berat	Sedikit	Sedang	Berat	Sedikit
2	Berat	Berat	Sedikit	Berat	Berat	Sedikit
3	Berat	Berat	Banyak	Berat	Berat	Banyak
4	Sedang	Berat	Sedikit	Berat	Berat	Sedikit
5	Berat	Berat	Sedikit	Sedang	Sedang	Sedikit
6	Berat	Berat	Sedikit	Berat	Berat	Banyak

LAMPIRAN 5

NILAI *KAPPA*

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Steatosis * Steatosis_2	18	100.0%	0	.0%	18	100.0%
Inflamasi * Inflamasi_2	18	100.0%	0	.0%	18	100.0%
Balloning * Balloning_2	18	100.0%	0	.0%	18	100.0%

Steatosis * Steatosis_2

Crosstab

			Steatosis_2				Total
			Tidak ada	Ringan	Sedang	Berat	
Steatosis	Tidak ada	Count	6	0	0	0	6
		% of Total	33.3%	.0%	.0%	.0%	33.3%
	Ringan	Count	0	4	1	0	5
		% of Total	.0%	22.2%	5.6%	.0%	27.8%
	Sedang	Count	0	1	1	1	3
		% of Total	.0%	5.6%	5.6%	5.6%	16.7%
	Berat	Count	0	0	1	3	4
		% of Total	.0%	.0%	5.6%	16.7%	22.2%
Total		Count	6	5	3	4	18
		% of Total	33.3%	27.8%	16.7%	22.2%	100.0%

		Value	Asymp. Std. Error[a]	Approx. T[b]	Approx. Sig.
Measure of Agreement	Kappa	.697	.128	5.017	.000
N of Valid Cases		18			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

Inflamasi * Inflamasi_2

Crosstab

			Inflamasi_2				
			Tidak ada	Ringan	Sedang	Berat	Total
Inflamasi	Tidak ada	Count	6	0	0	0	6
		% of Total	33.3%	.0%	.0%	.0%	33.3%
	Ringan	Count	0	2	1	0	3
		% of Total	.0%	11.1%	5.6%	.0%	16.7%
	Sedang	Count	0	2	1	0	3
		% of Total	.0%	11.1%	5.6%	.0%	16.7%
	Berat	Count	0	0	1	5	6
		% of Total	.0%	.0%	5.6%	27.8%	33.3%
Total		Count	6	4	3	5	18
		% of Total	33.3%	22.2%	16.7%	27.8%	100.0%

Symmetric Measures

		Value	Asymp. Std. Error[a]	Approx. T[b]	Approx. Sig.
Measure of Agreement	Kappa	.696	.126	5.006	.000
N of Valid Cases		18			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

Balloning * Balloning_2

Crosstab

			Balloning_2			
			Tidak ada	Sedikit	Banyak	Total
Balloning	tidak ada	Count	8	3	0	11
		% of Total	44.4%	16.7%	.0%	61.1%
	Sedikit	Count	0	5	1	6
		% of Total	.0%	27.8%	5.6%	33.3%
	Banyak	Count	0	0	1	1
		% of Total	.0%	.0%	5.6%	5.6%
Total		Count	8	8	2	18
		% of Total	44.4%	44.4%	11.1%	100.0%

Symmetric Measures

		Value	Asymp. Std. Error[a]	Approx. T[b]	Approx. Sig.
Measure of Agreement	Kappa	.613	.162	3.302	.001
N of Valid Cases		18			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

LAMPIRAN 6

Analisis deskriptif berat badan , konsumsi makan dan berat hati tikus

Descriptives

	Kelompok			Statistic	Std. Error
BB	1	Mean		34.1833	4.09906
		95% Confidence Interval for Mean	Lower Bound	23.6464	
			Upper Bound	44.7203	
		5% Trimmed Mean		34.6926	
		Median		38.1500	
		Variance		100.814	
		Std. Deviation		10.04060	
		Minimum		16.90	
		Maximum		42.30	
		Range		25.40	
		Interquartile Range		16.85	
		Skewness		-1.248	.845
		Kurtosis		.638	1.741
	2	Mean		77.4667	8.79715
		95% Confidence Interval for Mean	Lower Bound	54.8529	
			Upper Bound	100.0805	
		5% Trimmed Mean		77.9463	
		Median		77.0500	
		Variance		464.339	
		Std. Deviation		21.54852	
		Minimum		43.30	
		Maximum		103.00	
		Range		59.70	

		Interquartile Range		34.58	
		Skewness		-.549	.845
		Kurtosis		-.080	1.741
	3	Mean		100.9500	6.60140
		95% Confidence Interval for Mean	Lower Bound	83.9806	
			Upper Bound	117.9194	
		5% Trimmed Mean		100.4222	
		Median		96.0000	
		Variance		261.471	
		Std. Deviation		16.17006	
		Minimum		86.80	
		Maximum		124.60	
		Range		37.80	
		Interquartile Range		30.38	
		Skewness		.622	.845
		Kurtosis		-1.621	1.741
B_hati	1	Mean		7.8000	.32352
		95% Confidence Interval for Mean	Lower Bound	6.9684	
			Upper Bound	8.6316	
		5% Trimmed Mean		7.7722	
		Median		7.5000	
		Variance		.628	
		Std. Deviation		.79246	
		Minimum		7.10	
		Maximum		9.00	
		Range		1.90	
		Interquartile Range		1.45	
		Skewness		.781	.845
		Kurtosis		-1.257	1.741
	2	Mean		10.6833	.48195
		95% Confidence Interval for	Lower Bound	9.4444	

		Mean	Upper Bound	11.9222	
		5% Trimmed Mean		10.7481	
		Median		10.9000	
		Variance		1.394	
		Std. Deviation		1.18054	
		Minimum		8.40	
		Maximum		11.80	
		Range		3.40	
		Interquartile Range		1.22	
		Skewness		-1.868	.845
		Kurtosis		4.162	1.741
	3	Mean		11.5167	.99513
		95% Confidence Interval for Mean	Lower Bound	8.9586	
			Upper Bound	14.0747	
		5% Trimmed Mean		11.5185	
		Median		11.9000	
		Variance		5.942	
		Std. Deviation		2.43755	
		Minimum		8.60	
		Maximum		14.40	
		Range		5.80	
		Interquartile Range		5.13	
		Skewness		-.283	.845
		Kurtosis		-1.816	1.741
Makan	1	Mean		824.3333	30.12603
		95% Confidence Interval for Mean	Lower Bound	746.8919	
			Upper Bound	901.7748	
		5% Trimmed Mean		824.9259	
		Median		826.0000	
		Variance		5445.467	
		Std. Deviation		73.79341	
		Minimum		721.00	

	Maximum		917.00	
	Range		196.00	
	Interquartile Range		142.00	
	Skewness		-.166	.845
	Kurtosis		-1.105	1.741
2	Mean		634.3333	16.59250
	95% Confidence Interval for Mean	Lower Bound	591.6809	
		Upper Bound	676.9857	
	5% Trimmed Mean		635.4259	
	Median		635.0000	
	Variance		1651.867	
	Std. Deviation		40.64316	
	Minimum		566.00	
	Maximum		683.00	
	Range		117.00	
	Interquartile Range		61.50	
	Skewness		-.789	.845
	Kurtosis		1.017	1.741
3	Mean		706.6667	12.80798
	95% Confidence Interval for Mean	Lower Bound	673.7427	
		Upper Bound	739.5906	
	5% Trimmed Mean		706.0185	
	Median		707.0000	
	Variance		984.267	
	Std. Deviation		31.37302	
	Minimum		665.00	
	Maximum		760.00	
	Range		95.00	
	Interquartile Range		41.00	
	Skewness		.719	.845
	Kurtosis		1.845	1.741

LAMPIRAN 7

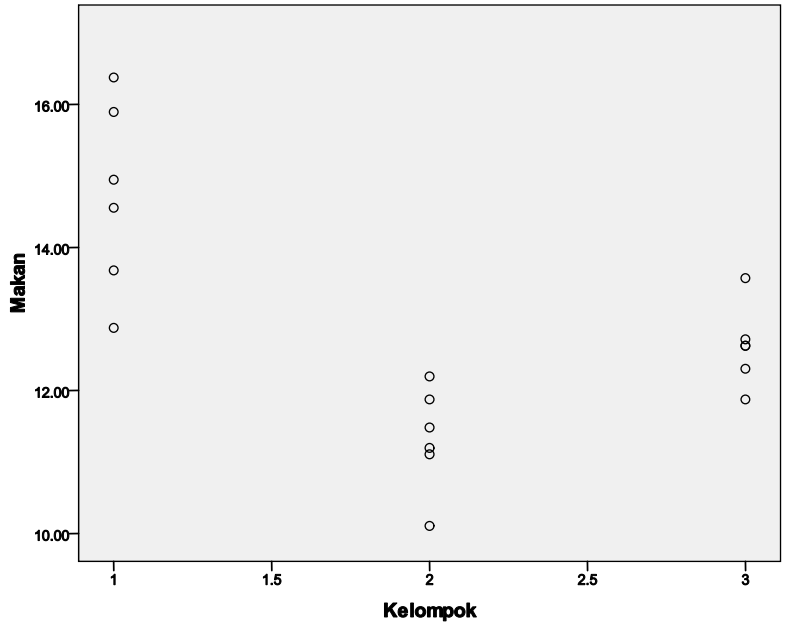
Uji normalitas dan diagram *dot plot* konsumsi makan, kenaikan berat badan dan berat hati

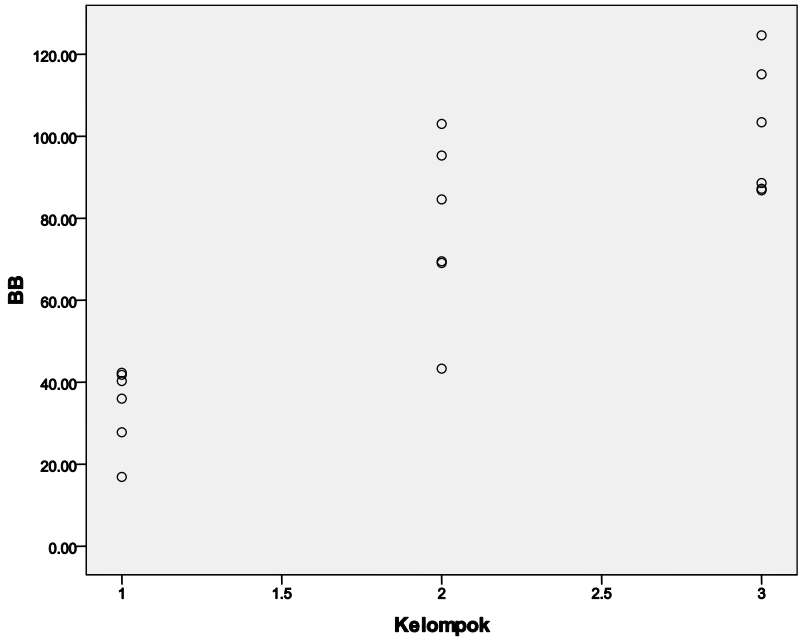
Tests of Normality

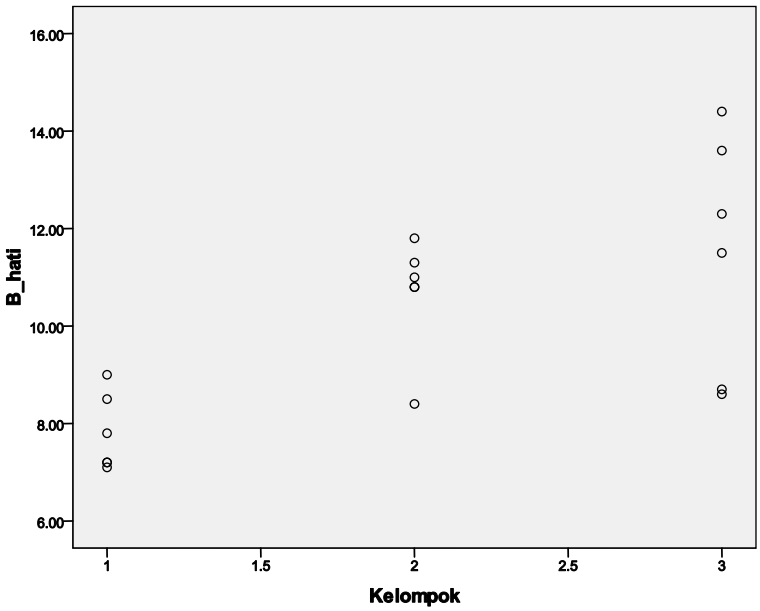
	Kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
BB	1	.238	6	.200*	.845	6	.144
	2	.182	6	.200*	.954	6	.776
	3	.277	6	.165	.855	6	.174
B_hati	1	.276	6	.173	.856	6	.176
	2	.373	6	.009	.789	6	.046
	3	.209	6	.200*	.902	6	.383
Makan	1	.147	6	.200*	.973	6	.913
	2	.214	6	.200*	.953	6	.763
	3	.266	6	.200*	.927	6	.556

a. Lilliefors Significance Correction

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


Makan
16.00
14.00
12.00
10.00
1
1.5
2
2.5
3
Kelompok


BB
120.00
100.00
80.00
60.00
40.00
20.00
0.00
1
1.5
2
2.5
3
Kelompok


16.00
14.00
12.00
10.00
8.00
6.00
B_hati
1
1.5
2
2.5
3
Kelompok

LAMPIRAN 8

Analisis statistik konsumsi makan, kenaikan berat badan dan berat hati

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
BB	1.872	2	15	.188
Makan	2.509	2	15	.115

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
BB	Between Groups	13765.403	2	6882.702	24.979	.000
	Within Groups	4133.117	15	275.541		
	Total	17898.520	17			
Makan	Between Groups	110355.111	2	55177.556	20.483	.000
	Within Groups	40408.000	15	2693.867		
	Total	150763.111	17			

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
BB	1	2	-43.28333*	9.58369	.001	-68.1767	-18.3900
		3	-66.76667*	9.58369	.000	-91.6600	-41.8733
	2	1	43.28333*	9.58369	.001	18.3900	68.1767
		3	-23.48333	9.58369	.066	-48.3767	1.4100
	3	1	66.76667*	9.58369	.000	41.8733	91.6600
		2	23.48333	9.58369	.066	-1.4100	48.3767
Makan	1	2	190.00000*	29.96591	.000	112.1644	267.8356
		3	117.66667*	29.96591	.004	39.8311	195.5022

	2	1	-190.00000*	29.96591	.000	-267.8356	-112.1644
		3	-72.33333	29.96591	.070	-150.1689	5.5022
	3	1	-117.66667*	29.96591	.004	-195.5022	-39.8311
		2	72.33333	29.96591	.070	-5.5022	150.1689

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

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
B_hati	1	6	4.17
	2	6	11.00
	3	6	13.33
	Total	18	

Test Statistics[a,b]

	B_hati
Chi-Square	9.575
df	2
Asymp. Sig.	.008

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
B_hati	1	6	3.83	23.00
	2	6	9.17	55.00
	Total	12		

Test Statistics[b]

	B_hati
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-2.571
Asymp. Sig. (2-tailed)	.010
Exact Sig. [2*(1-tailed Sig.)]	.009[a]

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
B_hati	1	6	3.83	23.00
	3	6	9.17	55.00
	Total	12		

Test Statistics[b]

	B_hati
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-2.567
Asymp. Sig. (2-tailed)	.010
Exact Sig. [2*(1-tailed Sig.)]	.009[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
B_hati	2	6	5.33	32.00
	3	6	7.67	46.00
	Total	12		

Test Statistics[b]

	B_hati
Mann-Whitney U	11.000
Wilcoxon W	32.000
Z	-1.123
Asymp. Sig. (2-tailed)	.261
Exact Sig. [2*(1-tailed Sig.)]	.310[a]

LAMPIRAN 9

Analisis deskriptif steatosis hepatik, Inflamasi lobuler dan degenerasi *ballooning*

Descriptives[a,b,c,d]

	Kelompok			Statistic	Std. Error
Steatosis	2	Mean		1.1667	.16667
		95% Confidence Interval for Mean	Lower Bound	.7382	
			Upper Bound	1.5951	
		5% Trimmed Mean		1.1296	
		Median		1.0000	
		Variance		.167	
		Std. Deviation		.40825	
		Minimum		1.00	
		Maximum		2.00	
		Range		1.00	
		Interquartile Range		.25	
		Skewness		2.449	.845
		Kurtosis		6.000	1.741
	3	Mean		2.6667	.21082
		95% Confidence Interval for Mean	Lower Bound	2.1247	
			Upper Bound	3.2086	
		5% Trimmed Mean		2.6852	
		Median		3.0000	
		Variance		.267	
		Std. Deviation		.51640	
		Minimum		2.00	
		Maximum		3.00	
		Range		1.00	

		Interquartile Range		1.00	
		Skewness		-.968	.845
		Kurtosis		-1.875	1.741
Inflamasi	2	Mean		1.5000	.22361
		95% Confidence Interval for Mean	Lower Bound	.9252	
			Upper Bound	2.0748	
		5% Trimmed Mean		1.5000	
		Median		1.5000	
		Variance		.300	
		Std. Deviation		.54772	
		Minimum		1.00	
		Maximum		2.00	
		Range		1.00	
		Interquartile Range		1.00	
		Skewness		.000	.845
		Kurtosis		-3.333	1.741
Balloning	2	Mean		.1667	.16667
		95% Confidence Interval for Mean	Lower Bound	-.2618	
			Upper Bound	.5951	
		5% Trimmed Mean		.1296	
		Median		.0000	
		Variance		.167	
		Std. Deviation		.40825	
		Minimum		.00	
		Maximum		1.00	
		Range		1.00	
		Interquartile Range		.25	
		Skewness		2.449	.845
		Kurtosis		6.000	1.741
	3	Mean		1.1667	.16667
		95% Confidence Interval for	Lower Bound	.7382	

	Mean	Upper Bound	1.5951	
	5% Trimmed Mean		1.1296	
	Median		1.0000	
	Variance		.167	
	Std. Deviation		.40825	
	Minimum		1.00	
	Maximum		2.00	
	Range		1.00	
	Interquartile Range		.25	
	Skewness		2.449	.845
	Kurtosis		6.000	1.741

a. Steatosis is constant when Kelompok = 1. It has been omitted.

b. Inflamasi is constant when Kelompok = 1. It has been omitted.

c. Inflamasi is constant when Kelompok = 3. It has been omitted.

d. Balloning is constant when Kelompok = 1. It has been omitted.

LAMPIRAN 10

Uji normalitas dan diagram *dot plot* steatosis hepatik, Inflamasi lobuler dan degenerasi *ballooning*

Tests of Normality[b,c,d,e]

	Kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Steatosis	2	.492	6	.000	.496	6	.000
	3	.407	6	.002	.640	6	.001
Inflamasi	2	.319	6	.056	.683	6	.004
Balloning	2	.492	6	.000	.496	6	.000
	3	.492	6	.000	.496	6	.000

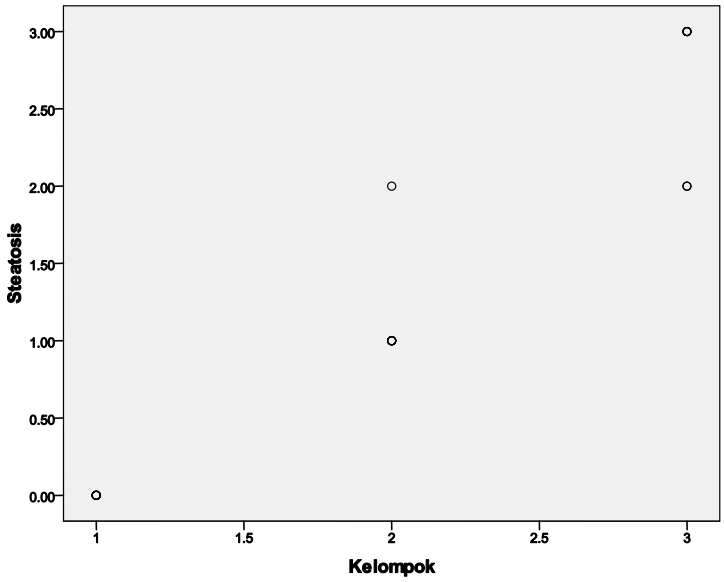
a. Lilliefors Significance Correction

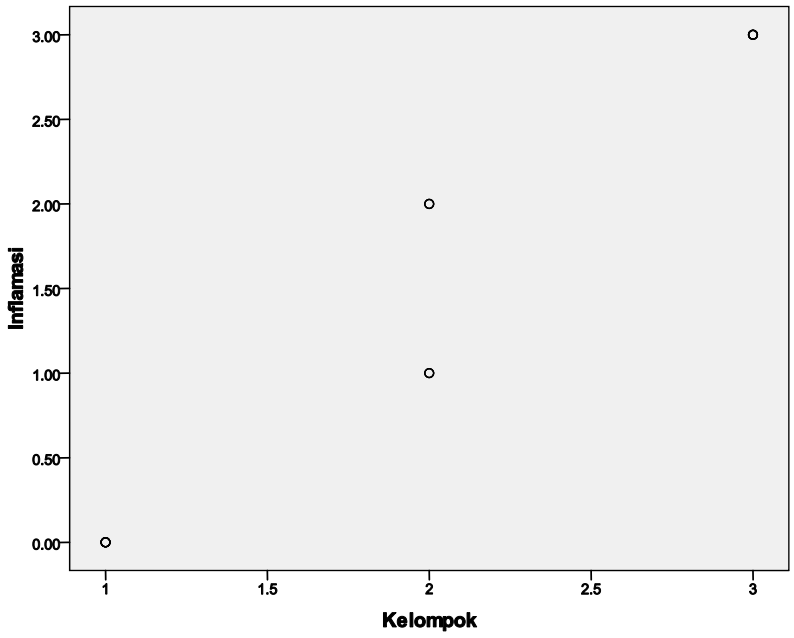
b. Steatosis is constant when Kelompok = 1. It has been omitted.

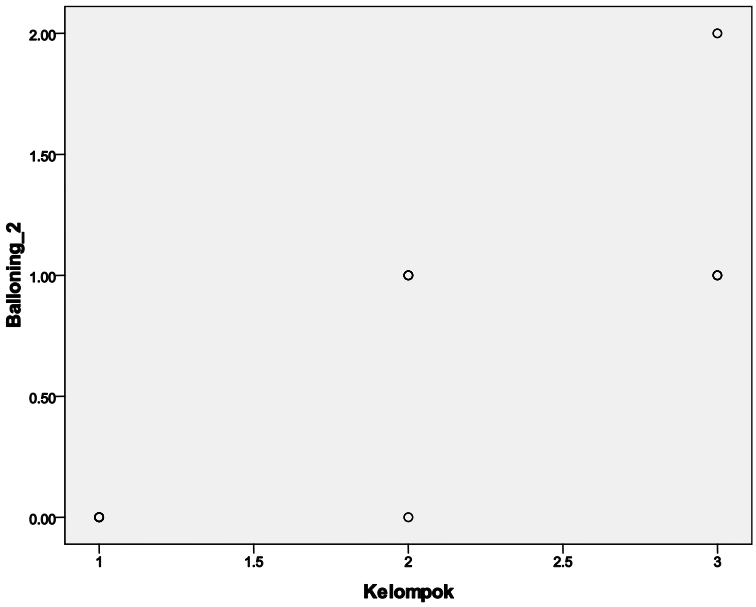
c. Inflamasi is constant when Kelompok = 1. It has been omitted.

d. Inflamasi is constant when Kelompok = 3. It has been omitted.

e. Balloning is constant when Kelompok = 1. It has been omitted.


Steatosis
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1
1.5
2
2.5
3
Kelompok


Inflamasi
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1
1.5
2
2.5
3
Kelompok


2.00
1.50
1.00
0.50
0.00
Ballooning_2
1
1.5
2
2.5
3
Kelompok

LAMPIRAN 11

Analisis statistik steatosis hepatik, Inflamasi lobuler dan degenerasi *ballooning*

NPar Tests

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
Steatosis	1	6	3.50
	2	6	9.67
	3	6	15.33
	Total	18	
Inflamasi	1	6	3.50
	2	6	9.50
	3	6	15.50
	Total	18	
Balloning	1	6	6.00
	2	6	7.42
	3	6	15.08
	Total	18	

Test Statistics[a,b]

	Steatosis	Inflamasi	Balloning
Chi-Square	15.879	16.485	13.647
df	2	2	2
Asymp. Sig.	.000	.000	.001

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Steatosis	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
Inflamasi	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		
Balloning	1	6	6.00	36.00
	2	6	7.00	42.00
	Total	12		

Test Statistics[b]

	Steatosis	Inflamasi	Balloning
Mann-Whitney U	.000	.000	15.000
Wilcoxon W	21.000	21.000	36.000
Z	-3.207	-3.127	-1.000
Asymp. Sig. (2-tailed)	.001	.002	.317
Exact Sig. [2*(1-tailed Sig.)]	.002[a]	.002[a]	.699[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Steatosis	1	6	3.50	21.00

	3	6	9.50	57.00
	Total	12		
Inflamasi	1	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		
Balloning	1	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		

Test Statistics[b]

	Steatosis	Inflamasi	Balloning
Mann-Whitney U	.000	.000	.000
Wilcoxon W	21.000	21.000	21.000
Z	-3.146	-3.317	-3.207
Asymp. Sig. (2-tailed)	.002	.001	.001
Exact Sig. [2*(1-tailed Sig.)]	.002[a]	.002[a]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Steatosis	2	6	3.67	22.00
	3	6	9.33	56.00
	Total	12		
Inflamasi	2	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		
Balloning	2	6	3.92	23.50
	3	6	9.08	54.50

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Steatosis	2	6	3.67	22.00
	3	6	9.33	56.00
	Total	12		
Inflamasi	2	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		
Balloning	2	6	3.92	23.50
	3	6	9.08	54.50
	Total	12		

Test Statistics[b]

	Steatosis	Inflamasi	Balloning
Mann-Whitney U	1.000	.000	2.500
Wilcoxon W	22.000	21.000	23.500
Z	-2.900	-3.127	-2.762
Asymp. Sig. (2-tailed)	.004	.002	.006
Exact Sig. [2*(1-tailed Sig.)]	.004[a]	.002[a]	.009[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

LAMPIRAN 12

Analisis deskriptif NAS

Descriptives[a]

	Kelompok			Statistic	Std. Error
NAS	2	Mean		2.8333	.47726
		95% Confidence Interval for Mean	Lower Bound	1.6065	
			Upper Bound	4.0602	
		5% Trimmed Mean		2.7593	
		Median		2.5000	
		Variance		1.367	
		Std. Deviation		1.16905	
		Minimum		2.00	
		Maximum		5.00	
		Range		3.00	
		Interquartile Range		1.50	
		Skewness		1.586	.845
		Kurtosis		2.552	1.741
	3	Mean		6.8333	.30732
		95% Confidence Interval for Mean	Lower Bound	6.0433	
			Upper Bound	7.6233	
		5% Trimmed Mean		6.8148	
		Median		7.0000	
		Variance		.567	
		Std. Deviation		.75277	
		Minimum		6.00	
		Maximum		8.00	
		Range		2.00	
		Interquartile Range		1.25	

	Skewness	.313	.845
	Kurtosis	-.104	1.741

a. NAS is constant when Kelompok = 1. It has been omitted.

LAMPIRAN 13

Uji normalitas dan diagram *dot plot* NAS

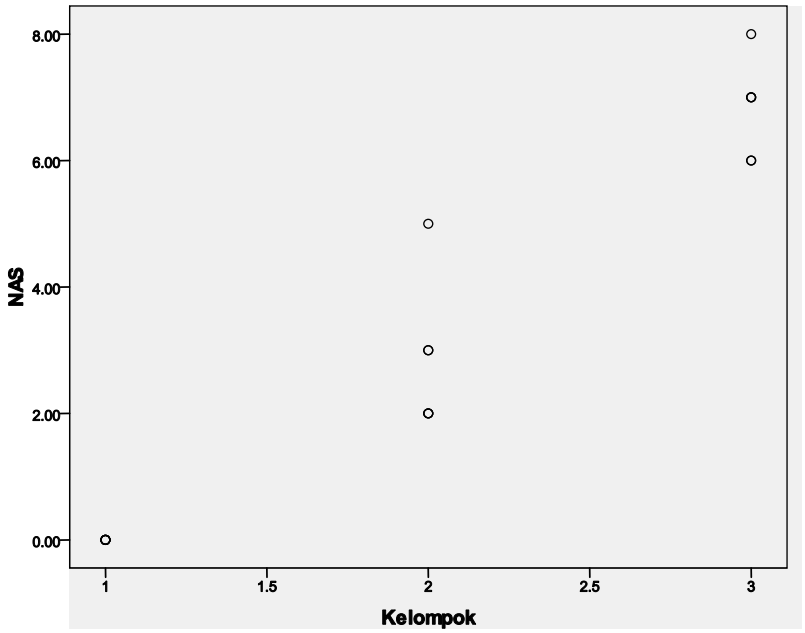
Tests of Normality[b]

	Kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
NAS	2	.277	6	.168	.773	6	.033
	3	.254	6	.200*	.866	6	.212

a. Lilliefors Significance Correction

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

b. NAS is constant when Kelompok = 1. It has been omitted.



LAMPIRAN 14

Analisis statistik NAS

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
NAS	1	6	3.50
	2	6	9.50
	3	6	15.50
	Total	18	

Test Statistics[a,b]

	NAS
Chi-Square	15.896
df	2
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
NAS	1	6	3.50	21.00
	2	6	9.50	57.00
	Total	12		

Test Statistics[b]

	NAS
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.108
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
NAS	1	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		

Test Statistics[b]

	NAS
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.108
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
NAS	2	6	3.50	21.00
	3	6	9.50	57.00
	Total	12		

Test Statistics[b]

	NAS
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-2.934
Asymp. Sig. (2-tailed)	.003
Exact Sig. [2*(1-tailed Sig.)]	.002[a]

a. Not corrected for ties.

b. Grouping Variable: Kelompok

LAMPIRAN 15

Hubungan Steatosis dengan Inflamasi dan Degenerasi ballooning hepatosit

Steatosis * Inflamasi * Kelompok Crosstabulation

Kelompok				Inflamasi				Total
				Tidak ada	Ringan	Sedang	Berat	
1	Steatosis	Tidak ada	Count	6				6
			% of Total	100.0%				100.0%
	Total		Count	6				6
			% of Total	100.0%				100.0%
2	Steatosis	Ringan	Count		3	2		5
			% of Total		50.0%	33.3%		83.3%
		Sedang	Count		0	1		1
			% of Total		.0%	16.7%		16.7%
	Total		Count		3	3		6
			% of Total		50.0%	50.0%		100.0%
3	Steatosis	Sedang	Count				2	2
			% of Total				33.3%	33.3%
		Berat	Count				4	4
			% of Total				66.7%	66.7%
	Total		Count				6	6
			% of Total				100.0%	100.0%

Chi-Square Tests

Kelompok		Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
1	Pearson Chi-Square	.[a]				
	N of Valid Cases	6				
2	Pearson Chi-Square	1.200[b]	1	.273		

	Continuity Correction[c]	.000	1	1.000		
	Likelihood Ratio	1.588	1	.208		
	Fisher's Exact Test				1.000	.500
	Linear-by-Linear Association	1.000	1	.317		
	N of Valid Cases	6				
3	Pearson Chi-Square	.[d]				
	N of Valid Cases	6				

a. No statistics are computed because Steatosis and Inflamasi are constants.

b. 4 cells (100.0%) have expected count less than 5. The minimum expected count is .50.

c. Computed only for a 2x2 table

d. No statistics are computed because Inflamasi is a constant.

Steatosis * Balloning * Kelompok Crosstabulation

Kelompok				Balloning			Total
				tidak ada	Sedikit	Banyak	
1	Steatosis	Tidak ada	Count	6			6
			% of Total	100.0%			100.0%
	Total		Count	6			6
			% of Total	100.0%			100.0%
2	Steatosis	Ringan	Count	5	0		5
			% of Total	83.3%	.0%		83.3%
		Sedang	Count	0	1		1
			% of Total	.0%	16.7%		16.7%
	Total		Count	5	1		6
			% of Total	83.3%	16.7%		100.0%
3	Steatosis	Sedang	Count		2	0	2
			% of Total		33.3%	.0%	33.3%
		Berat	Count		3	1	4
			% of Total		50.0%	16.7%	66.7%
	Total		Count		5	1	6
			% of Total		83.3%	16.7%	100.0%

Chi-Square Tests

Kelompok		Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
1	Pearson Chi-Square	.[a]				
	N of Valid Cases	6				
2	Pearson Chi-Square	6.000[b]	1	.014		
	Continuity Correction[c]	.960	1	.327		
	Likelihood Ratio	5.407	1	.020		
	Fisher's Exact Test				.167	.167
	Linear-by-Linear Association	5.000	1	.025		
	N of Valid Cases	6				
3	Pearson Chi-Square	.600[d]	1	.439		
	Continuity Correction[c]	.000	1	1.000		
	Likelihood Ratio	.908	1	.341		
	Fisher's Exact Test				1.000	.667
	Linear-by-Linear Association	.500	1	.480		
	N of Valid Cases	6				

a. No statistics are computed because Steatosis and Balloning are constants.

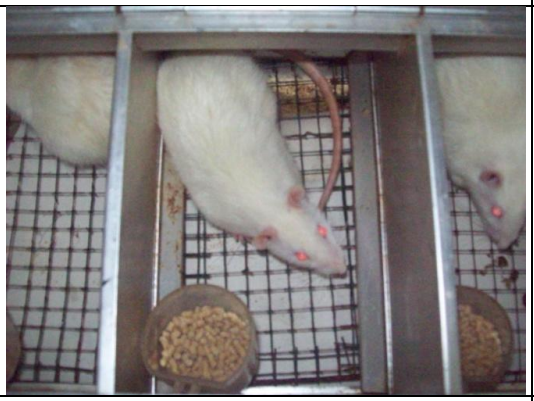
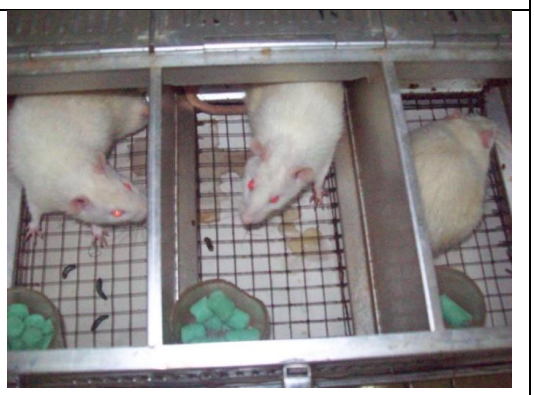
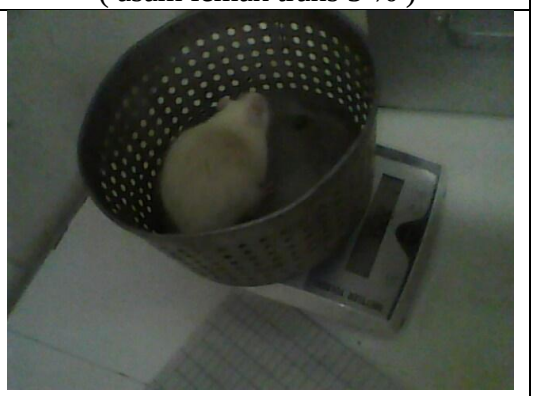
b. 4 cells (100.0%) have expected count less than 5. The minimum expected count is .17.

c. Computed only for a 2x2 table

d. 4 cells (100.0%) have expected count less than 5. The minimum expected count is .33.

LAMPIRAN 16

FOTO PENELITIAN

	
Makanan tikus, untuk kelompok K, P-1 dan P2 sebanyak 20 gr/hari	Kandang individu tikus
	
Kelompok Kontrol, pakan standar	Kelompok P-1 (asam lemak trans 5 %)
	
Kelompok P-2 (asam lemak trans 10 %)	Berat badan tikus ditimbang setiap minggu dengan timbangan elektrik

	
Tikus dibius dengan kloroform	Pembedahan tikus
	
Pembuatan blok paraffin organ hati	Pembuatan slide dengan pewarnaa n HE
	
Pemeriksaan histopatologi hati dengan menggunakan mikroskop electron oleh pemeriksa ke-2	