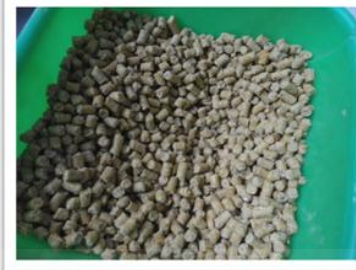


LAMPIRAN

Lampiran 1



Gambar Kandang Tikus



Gambar Pakan Br2



Gambar Obat Streptozotosin dan Nikotinamid



Gambar Sonde oral pada tikus



Gambar HDL Precipitant



Gambar LDL Precipitant



Berat Badan



pengambilan darah di sinus orbital



Lampiran 2

1. Deskripsi berat badan

Kel	Rerata berat badan tikus					
	N	Pra-induksi	Post-induksi			
			Hari ke-0	Hari ke-7	Hari ke-14	Hari ke-28
1	1	194	203	212	221	240
	2	200	210	219	230	249
	3	219	226	235	245	265
	4	220	229	240	249	269
	5	209	218	233	240	262
	X ± SD	208,40±11,4	217,20 ± 10,8	227,80 ± 11,7	237 ± 11,4	257 ± 12,1
2	1	205	202	198	195	188
	2	221	217	214	210	206
	3	194	190	186	183	179
	4	201	198	195	191	189
	5	217	211	205	213	192
	X ± SD	207,60±11,2	203,60±10,6	199,60±12,7	198,40±12,7	190,80±9,7
3	1	208	204	201	208	220
	2	210	208	207	213	226
	3	196	192	190	197	211
	4	197	194	193	200	216
	5	199	197	195	201	218
	X ± SD	202±6,5	190,58±6,7	197,06±6,7	203,80±6,5	218,20±4,5
4	1	188	186	189	197	216
	2	183	181	183	192	212
	3	209	207	208	215	230
	4	199	197	199	209	228
	5	200	199	200	208	225
	X ± SD	195,80 ±10,3	194 ±10,4	195,80 ±9,8	204,20 ±9,4	222,20 ±7,8

2. Kadar GDP

a. Kadar GDP pre-induksi dan post-induksi

Kel.	N	Rerata Kadar Glukosa (mg/dl)		Peningkatan kadar Glukosa (mg/dl)
		Pra-Induksi	Post-Induksi	
K1	1	77,22	77,69	0,47
	2	75,95	75,62	0,33
	3	75,11	76,86	1,55
	4	72,57	73,14	0,57
	5	73,98	74,05	0,07
	X±SD	74,97±1,7	75,47±1,8	0,60±0,5
K2	1	74,68	232,64	157,96
	2	71,31	219,83	148,52
	3	73,42	223,14	149,72

	4	74,26	207,44	133,18
	5	74,35	223,28	148,93
	X±SD	73,60±1,36	221,26±9,08	147,66±8,9
K3	1	77,64	227,69	150,05
	2	76,79	236,78	159,99
	3	77,22	218,60	141,38
	4	74,68	219,83	145,15
	5	73,00	214,05	141,05
	X±SD	75,86±1,96	223,39±8,95	147,52±7,8
K4	1	75,11	224,79	149,68
	2	73,42	244,63	171,21
	3	71,73	238,02	166,29
	4	73,00	218,18	145,18
	5	76,37	239,67	163,3
	X±SD	73,92±1,82	233,05±11,09	159,13±11,1

b. Uji Normalitas kadar GDP

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
k1_pre	.133	5	.200*	.994	5	.993
k2_pre	.285	5	.200*	.816	5	.109
k3_pre	.281	5	.200*	.884	5	.330
k4_pre	.209	5	.200*	.970	5	.875
k1_post	.174	5	.200*	.957	5	.785
k2_post	.237	5	.200*	.936	5	.640
K3_post	.255	5	.200*	.934	5	.621
k4_post	.273	5	.200*	.911	5	.474

a. Lilliefors Significance Correction

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

c. Uji T-Test Berpasangan GDP

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tail ed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			

Pair 1	k1_pre - k1_post	-.51000	.78115	.34934	-1.47993	.45993	-1.460	4	.218
Pair 2	k2_pre - k2_post	-147.66200	8.97714	4.01470	-158.80860	-136.51540	-36.780	4	.000
Pair 3	k3_pre - k3_post	-147.52400	7.85938	3.51482	-157.28270	-137.76530	-41.972	4	.000
Pair 4	k4_pre - k4_post	-159.13200	11.16340	4.99242	-172.99319	-145.27081	-31.875	4	.000

3. Kadar LDL

a. Kadar LDL pre-induksi, post-induksi, dan post-perlakuan

Kelompok	N	Pre-Induksi	Post-Induksi	Post-Perlakuan
K1	1	70,87	72,66	65,03
	2	70,08	70,59	62,94
	3	72,44	73,36	63,64
	4	66,93	67,82	60,84
	5	62,45	63,75	62,20
	X±SD	68,55 ± 3,96	69,64 ± 3,93	62,93 ± 1,57
K2	1	66,93	96,19	95,80
	2	62,20	87,89	86,71
	3	64,57	94,81	94,41
	4	64,03	97,21	96,85
	5	60,87	99,60	100,00
	X±SD	63,72 ± 2,32	95,14 ± 4,41	94,75 ± 4,95
K3	1	72,44	94,81	76,22
	2	69,29	92,04	79,02
	3	70,08	89,27	81,12
	4	65,35	87,89	74,13
	5	66,14	93,43	83,22
	X±SD	68,66 ± 2,92	91,49 ± 2,87	78,47 ± 4,95
K4	1	66,93	93,43	69,23
	2	64,57	96,89	67,13
	3	67,72	88,58	67,83
	4	70,08	90,66	62,94
	5	62,99	97,58	64,34
	X±SD	66,46 ± 2,76	93,43 ± 3,89	78,74 ± 3,65

b. Uji normalitas dengan *Shapiro-Wilk*

Tests of Normality

	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
Pre_induksi	K1	.250	5	.200	.919	5	.524
	K2	.157	5	.200	.982	5	.943
	K3	.206	5	.200	.943	5	.688
	K4	.168	5	.200	.981	5	.940
Post_induksi	K1	.196	5	.200	.923	5	.548

	K2	.271	5	.200	.898	5	.398
	K3	.180	5	.200	.952	5	.752
	K4	.214	5	.200	.928	5	.582
Post_perlakuan	K1	.125	5	.200	1.000	5	1.000
	K2	.272	5	.200	.907	5	.452
	K3	.155	5	.200	.977	5	.918
	K4	.227	5	.200	.943	5	.690
Selisih	K1	.336	5	.068	.834	5	.149
	K2	.286	5	.200	.899	5	.403
	K3	.199	5	.200	.968	5	.859
	K4	.148	5	.200	.990	5	.981

a. Lilliefors Significance Correction

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

c. Uji T-Test Berpasangan kadar LDL

Paired Samples Test

		Paired Differences					t	Df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
								Lower	Upper
Pair 1	k1_pre - k1_post	-1.08200	.48453	.21669	-1.68362	-.48038	-4.993	4	.008
Pair 2	k2_pre - k2_post	-31.41400	4.88761	2.18581	-37.48277	-25.34523	-14.372	4	.000
Pair 3	k3_pre - k3_post	-22.82800	2.89151	1.29312	-26.41828	-19.23772	-17.653	4	.000
Pair 4	k4_pre - k4_post	-26.97000	6.42402	2.87291	-34.94647	-18.99353	-9.388	4	.001

d. Kadar selisih penurunan LDL

Descriptives

		Statistik	Std. Error
K1	Mean	6.7060	1.36910
	95% Confidence Interval for Mean	Lower Bound Upper Bound	2.9048 10.5072
	5% Trimmed Mean	6.8250	
	Median	7.6300	
	Variance	9.372	
	Std. Deviation	3.06139	
	Minimum	1.55	
	Maximum	9.72	

	Range		8.17	
	Interquartile Range		4.42	
	Skewness		-1.569	.913
	Kurtosis		3.254	2.000
K2	Mean		.3800	.24996
	95% Confidence Interval for Mean	Lower Bound	-.3140	
		Upper Bound	1.0740	
	5% Trimmed Mean		.3789	
	Median		.3600	
	Variance		.312	
	Std. Deviation		.55893	
	Minimum		-.40	
	Maximum		1.18	
	Range		1.58	
	Interquartile Range		.81	
	Skewness		.089	.913
	Kurtosis		1.987	2.000
K3	Mean		12.7460	1.77215
	95% Confidence Interval for Mean	Lower Bound	7.8257	
		Upper Bound	17.6663	
	5% Trimmed Mean		12.6767	
	Median		13.0200	
	Variance		15.703	
	Std. Deviation		3.96264	
	Minimum		8.15	
	Maximum		18.59	
	Range		10.44	
	Interquartile Range		7.00	
	Skewness		.584	.913
	Kurtosis		.390	2.000
K4	Mean		27.1340	2.16664
	95% Confidence Interval for Mean	Lower Bound	21.1185	
		Upper Bound	33.1495	
	5% Trimmed Mean		27.1494	
	Median		27.7200	
	Variance		23.472	
	Std. Deviation		4.84475	

Minimum	20.75	
Maximum	33.24	
Range	12.49	
Interquartile Range	9.02	
Skewness	-.145	.913
Kurtosis	-.801	2.000

e. Test Homogeneity of variance kadar LDL

Test of Homogeneity of Variances

Selisih

Levene Statistic	df1	df2	Sig.
2.636	3	16	.085

f. One Way Annona selisih penurunan kadar LDL

ANOVA

Selisih

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1961.890	3	653.963	53.539	.000
Within Groups	195.435	16	12.215		
Total	2157.325	19			

Multiple Comparisons

Selisih

LSD

(I) Kelo mpo k	(J) Kelo mpo k	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K1	K2	6.32600	2.21040	.011	1.6402	11.0118
	K3	-6.04000	2.21040	.015	-10.7258	-1.3542
	K4	-20.42800	2.21040	.000	-25.1138	-15.7422
K2	K1	-6.32600	2.21040	.011	-11.0118	-1.6402
	K3	-12.36600	2.21040	.000	-17.0518	-7.6802
	K4	-26.75400	2.21040	.000	-31.4398	-22.0682
K3	K1	6.04000	2.21040	.015	1.3542	10.7258
	K2	12.36600	2.21040	.000	7.6802	17.0518
	K4	-14.38800	2.21040	.000	-19.0738	-9.7022
K4	K1	20.42800	2.21040	.000	15.7422	25.1138
	K2	26.75400	2.21040	.000	22.0682	31.4398

K3	14.38800	2.21040	.000	9.7022	19.0738
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*. The mean difference is significant at the 0.05 level.

4. Kadar HDL

a. Kadar HDL pre-induksi, post-induksi, dan post-perlakuan

Kelompok	N	Pre-Induksi	Post-Induksi	Post-Perlakuan
K1	1	50,85	50,68	50,34
	2	48,14	47,95	46,21
	3	51,53	49,32	48,28
	4	47,46	45,21	44,14
	5	46,69	47,06	46,22
	X±SD	48,93 ± 2,13	48,04 ± 2,097	47,04 ± 2,36
K2	1	56,95	24,66	22,76
	2	44,07	22,60	20,69
	3	51,53	26,03	24,83
	4	42,02	29,02	27,09
	5	43,58	27,45	25,50
	X±SD	47,63 ± 6,38	25,95 ± 2,48	24,17 ± 2,50
K3	1	52,20	23,29	37,93
	2	50,17	27,40	39,31
	3	48,81	25,34	38,62
	4	46,78	26,71	35,17
	5	46,10	23,29	40,69
	X±SD	48,81 ± 2,50	25,21 ± 1,90	38,34 ± 2,05
K4	1	47,46	25,34	49,66
	2	46,78	23,97	47,59
	3	44,75	27,40	48,28
	4	52,88	22,60	42,76
	5	46,78	23,97	44,14
	X±SD	47,73 ± 3,05	24,66 ± 1,81	46,49 ± 2,91

b. Uji normalitas dengan *Shapiro-Wilk*

Tests of Normality

	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistik	df	Sig.	Statistik	df	Sig.
Pre_induksi	K1	.245	5	.200	.892	5	.368
	K2	.312	5	.127	.862	5	.237
	K3	.193	5	.200	.957	5	.787
	K4	.335	5	.069	.831	5	.143
Post_induksi	K1	.129	5	.200	.994	5	.992
	K2	.127	5	.200	.993	5	.990
	K3	.243	5	.200	.877	5	.294
	K4	.247	5	.200	.942	5	.677

Post_perlakuan	K1	.236	5	.200	.962	5	.820
	K2	.204	5	.200	.973	5	.894
	K3	.220	5	.200	.956	5	.777
	K4	.248	5	.200	.920	5	.532
Selisih	K1	.249	5	.200	.958	5	.792
	K2	.447	5	.001	.610	5	.001
	K3	.155	5	.200	.994	5	.992
	K4	.283	5	.200	.817	5	.110

a. Lilliefors Significance Correction

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

c. Uji T-Test Berpasangan kadar HDL

Paired Samples Test

		Paired Differences					t	Df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	k1_pre - k1_post	.89000	1.24378	.55624	-.65436	2.43436	1.600	4	.185
Pair 2	k2_pre - k2_post	21.68200	7.64490	3.41891	12.18960	31.17440	6.342	4	.003
Pair 3	k3_pre - k3_post	23.60600	3.23986	1.44891	19.58318	27.62882	16.292	4	.000
Pair 4	k4_pre - k4_post	23.07400	4.62980	2.07051	17.32535	28.82265	11.144	4	.000

d. Kadar selisih peningkatan HDL

Descriptives

		Statistik	Std. Error
k1	Mean	-1.0060	.22529
	95% Confidence Interval for Mean	Lower Bound -1.6315	
		Upper Bound -.3805	
	5% Trimmed Mean	-1.0022	
	Median	-1.0400	
	Variance	.254	
	Std. Deviation	.50377	
	Minimum	-1.74	

	Maximum		-0.34	
	Range		1.40	
	Interquartile Range		.82	
	Skewness		-.312	.913
	Kurtosis		1.467	2.000
k2	Mean		-1.7780	.14475
	95% Confidence Interval for Mean	Lower Bound	-2.1799	
		Upper Bound	-1.3761	
	5% Trimmed Mean		-1.8006	
	Median		-1.9100	
	Variance		.105	
	Std. Deviation		.32368	
	Minimum		-1.95	
	Maximum		-1.20	
	Range		.75	
	Interquartile Range		.39	
	Skewness		2.216	.913
	Kurtosis		4.930	2.000
k3	Mean		13.1380	1.48041
	95% Confidence Interval for Mean	Lower Bound	9.0277	
		Upper Bound	17.2483	
	5% Trimmed Mean		13.1611	
	Median		13.2800	
	Variance		10.958	
	Std. Deviation		3.31031	
	Minimum		8.46	
	Maximum		17.40	
	Range		8.94	
	Interquartile Range		5.83	
	Skewness		-.269	.913
	Kurtosis		.497	2.000
k4	Mean		21.8300	.89026
	95% Confidence Interval for Mean	Lower Bound	19.3582	
		Upper Bound	24.3018	
	5% Trimmed Mean		21.7844	
	Median		20.8800	
	Variance		3.963	

Std. Deviation	1.99068	
Minimum	20.16	
Maximum	24.32	
Range	4.16	
Interquartile Range	3.80	
Skewness	.585	.913
Kurtosis	-2.835	2.000

e. Uji Kruskal-Wallis

Ranks				Test Statistik ^{a,b}	
Kelompok		N	Mean Rank		Selisih
Selisih	K1	5	7.80	Chi-Square	17.583
	K2	5	3.20	df	3
	K3	5	13.00	Asymp. Sig.	.001
	K4	5	18.00		
	Total	20			

a. Kruskal Wallis Test
b. Grouping Variable: Kelompok

Mann-Whitney Test

a. K1 dan K2

Ranks					Test Statistik ^p	
Kelompok		N	Mean Rank	Sum of Ranks		Selisih
Selisih	K1	5	7.80	39.00	Mann-Whitney U	1.000
	K2	5	3.20	16.00	Wilcoxon W	16.000
	Total	10			Z	-2.402
					Asymp. Sig. (2-tailed)	.016
					Exact Sig. [2*(1-tailed Sig.)]	.016 ^a

b. K1 dan K3

Ranks				
Kelompok		N	Mean Rank	Sum of Ranks
Selisih	1	5	3.00	15.00

K3	5	8.00	40.00
Total	10		

c. K1 dan K4

Ranks

Kelompok	N	Mean Rank	Sum of Ranks
Selisi K1	5	3.00	15.00
K4	5	8.00	40.00
Total	10		.00

Test Statistik^b

	Selisi
Mann-Whitney U	.000

Test Statistik^b

	Selisi
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.611
Asymp. Sig. (2-tailed)	.009
Exact Sig. [2*(1-tailed Sig.)]	.008 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

d. K2 dan K3

Ranks

Kelompok	N	Mean Rank	Sum of Ranks
Selisi K2	5	3.00	15.00
K3	5	8.00	40.00
Total	10		

Test Statistics^b

	Selisi
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.611
Asymp. Sig. (2-tailed)	.009
Exact Sig. [2*(1-tailed Sig.)]	.008 ^a

a. Not corrected for ties.

e. K2 dan K4

Ranks

Kelompok	N	Mean Rank	Sum of Ranks
Selisi K2	5	3.00	15.00
K4	5	8.00	40.00
Total	10		

Test Statistics^b

	Selisi
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.611
Asymp. Sig. (2-tailed)	.009
Exact Sig. [2*(1-tailed Sig.)]	.008 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

f. K3 dan K4

Ranks

Kelompok	N	Mean Rank	Sum of Ranks
Selisi K3	5	3.00	15.00
K4	5	8.00	40.00
Total	10		

Test Statistics^b

	Selisi
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.611
Asymp. Sig. (2-tailed)	.009
Exact Sig. [2*(1-tailed Sig.)]	.008 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

Lampiran 3

Kandungan Pakan Standard BR2

Kandungan	Jumlah
Air	Maks 12%
Protein Kasar	Min 15%
Serat Kasar	Maks 6%
Abu	Maks 7%
Kalsium	0,9-1,1%
Fosfor	0,6-0,9%

Berdasarkan kemasan produk “Comfeed Pakan Tikus”

Kandungan	Jumlah
Lemak	5,7 %
Kolesterol	77,293 mg/100gr

Berdasarkan Uji Laboratorium Fakultas Peternakan UGM