

LAMPIRAN

LAMPIRAN 1 Jadwal penelitian

Desember 2015

					1	2
3	4	5	6	7	8	9 Survey Tikus
10	11	12	13	14	15 Pengajuan proposal	16 Pembelian stz, metformin
17 Survey daun kersen	18	19	20	21	22	23
24	25	26	27	28	29	30

Januari 2016

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15 Pengerjan proposal	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Februari 2016

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15 Persiapan kandang	16 Adaptasi tikus	17 Adaptasi tikus	18 Adaptasi tikus	19 Adaptasi tikus	20 Adaptasi tikus
21 Adaptasi tikus	22 Adaptasi tikus	23 Pengambilan sampel pre induksi	24 Induksi stz-na	25	26	27
28 Pengambilan sampel pos induksi	29 Intervensi seduhan kersen					

Maret 2016

		1 Intervensi seduhan kersen	2 Intervensi seduhan kersen	3 Intervensi seduhan kersen	4 Intervensi seduhan kersen	5 Intervensi seduhan kersen
6 Intervensi seduhan kersen	7 Intervensi seduhan kersen	8 Intervensi seduhan kersen	9 Intervensi seduhan kersen	10 Intervensi seduhan kersen	11 Intervensi seduhan kersen	12 Intervensi seduhan kersen
13 Intervensi seduhan kersen	14 Pengambilan sampel post perlakuan	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

LAMPIRAN 2

Tabel 13. konversi dosis berbagai senyawa bioaktif pda hewan dan manusia (Lawrence & Banach, 1964) dalam anggara (2009).

	20 g Mencit	200 g Tikus	400 g Marmot	1,5 kg Kelinci	2,0 kg Kucing	4,0 kg Kera	12,0 kg Anjing	70 kg Manusia
20 g Mencit	1,0	7,0	12,29	27,8	29,7	84,1	124,2	387,9
200 g Tikus	0,14	1,0	1,74	3,9	4,2	9,2	17,8	56,0
400 g Marmot	0,08	0,57	1,0	2,25	2,4	5,2	10,2	31,5
1,5 kg Kelinci	0,04	0,25	0,44	1,0	1,08	2,4	4,5	14,2
2,0 kg Kucing	0,03	0,23	0,41	0,92	1,0	2,2	4,1	13,0
4,0 kg Kera	0,016	0,11	0,19	0,42	0,45	1,0	1,9	6,1
12,0 kg Anjing	0,008	0,06	0,10	0,22	0,24	0,52	1,0	3,1
70 kg Manusia	0,0026	0,018	0,031	0,07	0,076	0,16	0,32	1,0

1. Metformin

Dosis metformin pada manusia adalah 50mg/kgbb, dosis ini kemudian dikonversi untuk tikus putih, seperti pada tabel diatas, maka dosis untuk tikus putih didapatkan sebagai berikut :

$$50 \text{ mg} \times 0,018 = 0,9 \text{ mg}/200 \text{ grBB}$$

Maka dosis yang digunakan pada tikus yaitu 0,9 mg /200 grBB/hari.

2. Streptozotocin


Dosis yang digunakan adalah 65 mg/kgBB secara intraperitoneal untuk menjadikan tikus DM tipe 2 (Masiello *et al.*, 2006).

3. Nicotinamide

Dosis yang digunakan adalah 230 mg/kgBB secara intraperitoneal untuk menjadikan tikus DM tipe 2 (Masiello *et al.*, 2006).

LAMPIRAN 3

Surat ijin penelitian



UNIVERSITAS GADJAH MADA
PUSAT STUDI PANGAN DAN GIZI

No. : PSPG – UGM/19/IP/VIII/2016
Hal. : *Permohonan Izin Penelitian dan Pengambilan Data*

Kepada
Yth. Dekan
Fakultas Kedokteran dan Ilmu Kesehatan
Universitas Muhammadiyah Yogyakarta
Jl Lingkar Selatan, Tamantirto, Kasihan, Bantul
Yogyakarta

Dengan hormat.

Menindaklanjuti surat Saudara Nomor :677/C.6 – III/PN-FKIK UMY/VII/2016, 679/C.6 – III/PN-FKIK UMY/VII/2016, 680/C.6 – III/PN-FKIK UMY/VII/2016, perihal Permohonan Izin Penelitian sehubungan dengan pelaksanaan penelitian untuk keperluan Penulisan Karya Ilmiah (KTI) untuk memperoleh derajat sarjana Mahasiswa Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta :

Nama	: 1. Rianti	NIM	: 20130310092
	2. Revo Astrada	NIM	: 20130310223
	3. Adnal Khemal Pasha Husein Putra	NIM	: 20130310163


Institusi: Fakultas Kedokteran dan Ilmu Kesehatan
Universitas Muhammadiyah Yogyakarta

Judul : Efektifitas Seduhan Daun Kersen (*Muntingia calabura L.*) Terhadap Fungsi Hepar (SGOT dan SGPT) dan Profil Lipid (Kolesterol trigliseride, HDL, LDL) Pada Tikus Diabetes Mellitus Yang Diinduksi Streptozotzin.


Waktu Ijin Lab : 13 Juli – 13 Agustus 2016

Dengan ini kami beritahukan bahwa permohonan izin penelitian tersebut dapat kami setujui sesuai peraturan yang berlaku.

Demikian kami sampaikan atas perhatian dan kerjasamanya diucapkan terima kasih.

Kepala,

Prof. Dr. Ir. Umar Santoso, MSc.
NIP. 195902171985031002

Gedung PAU Universitas Gadjah Mada
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LAMPIRAN 4**Surat kelayakan etik penelitian**


Fakultas Kedokteran dan Ilmu Kesehatan
Universitas Muhammadiyah Yogyakarta

**SURAT KETERANGAN
KELAYAKAN ETIKA PENELITIAN**
Nomor : 333/EP-FKIK-UMY/IX/2016

Komisi Etika Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta yang terdiri atas :


1. Prof. dr.H. Djauhar Ismail, Sp.A(K), Ph.D.
2. Prof.Dr.dr.H. Soewito A, Sp.THT-KL
3. drg. Ana Medawati, M.Kes
4. drh. Tri Wulandari, M.Kes
5. Dr. dr. Titiek Hidayati, M. Kes
6. Dr. dr. Tri Wahyuliati, Sp. S., M. Kes
7. Titih Huriah, Ns., M. Kep., Sp. Kom
8. Dr. drg. Tita Ratya Utari, Sp. Ort
9. Sabtanti Harimurti, Ph. D., Apt
10. Dr. dr. Arlina Dewi, MMR
11. Dra. Irma Risdiyana, Apt., MPH
12. dr. Inayati Habib, Sp. MK., M. Kes

Telah mengkaji permohonan kelayakan etika penelitian yang diajukan oleh :

Nama Peneliti	: Rianti
NIM	: 20120310092
Judul Penelitian	: Efektifitas Seduhan Daun Kersen (<i>Muntingia calabura L.</i>) Terhadap Kadar SGOT & SGPT Pada Tikus Diabetes Melitus yang Diinduksi Streptozocin Nicotinamide (STZ-NA)
Pada Tanggal Dengan Hasil	: 02 September 2016 : Layak Etik

Demikian surat keterangan ini diberikan untuk dapat digunakan sebagaimana mestinya.

Yogyakarta, 05 September 2016

Sekretaris,

Dr. dr. Titiek Hidayati, M. Kes

Kampus:
Jl. Lingkar Selatan, Tamantirto, Kasihan, Bantul, Yogyakarta 55183
Telp. (0274) 387656 ext. 213, 7491350 Fax. (0274) 387658

Muda mendunia

LAMPIRAN 5

Analisis Data

Rerata BB

Tests of Normality

kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Sebelum STZ	Negatif	.161	6	.200*	.954	6	.773
	positif	.180	6	.200*	.957	6	.795
	P1(250 mg kersen)	.190	6	.200*	.956	6	.786
	P2(500 mg kersen)	.229	6	.200*	.864	6	.204
	P3(750 mg kersen)	.167	6	.200*	.949	6	.733
Sesudah STZ	Negatif	.170	6	.200*	.946	6	.708
	positif	.227	6	.200*	.956	6	.787
	P1(250 mg kersen)	.209	6	.200*	.928	6	.568
	P2(500 mg kersen)	.165	6	.200*	.989	6	.986
	P3(750 mg kersen)	.200	6	.200*	.936	6	.626
Sesudah Kersen	Negatif	.178	6	.200*	.946	6	.707
	positif	.151	6	.200*	.980	6	.953
	P1(250 mg kersen)	.181	6	.200*	.941	6	.669
	P2(500 mg kersen)	.139	6	.200*	.963	6	.839
	P3(750 mg kersen)	.212	6	.200*	.912	6	.449

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df 1	df 2	Sig.
Sebelum STZ	Based on Mean	.283	4	25	.886
	Based on Median	.283	4	25	.886
	Based on Median and with adjusted df	.283	4	22.725	.886
	Based on trimmed mean	.287	4	25	.883
Sesudah STZ	Based on Mean	2.862	4	25	.044
	Based on Median	2.672	4	25	.055
	Based on Median and with adjusted df	2.672	4	18.186	.065
	Based on trimmed mean	2.857	4	25	.044
Sesudah Kersen	Based on Mean	4.929	4	25	.005
	Based on Median	4.293	4	25	.009
	Based on Median and with adjusted df	4.293	4	15.548	.016
	Based on trimmed mean	4.889	4	25	.005

Report

Kelompok Perlakuan		Berat Badan sebelum STZ	Berat Badan Sebelum Perlakuan
Negatif	Mean	168.50	171.50
	N	6	6
	Std. Deviation	21.998	21.998
positif	Mean	179.83	183.67
	N	6	6
	Std. Deviation	15.224	15.253
P1	Mean	169.50	173.17
	N	6	6
	Std. Deviation	16.121	15.804
P2	Mean	176.17	179.83
	N	6	6
	Std. Deviation	14.851	14.798
P3	Mean	184.00	188.50
	N	6	6
	Std. Deviation	10.640	11.606
Total	Mean	175.60	179.33
	N	30	30
	Std. Deviation	16.194	16.416

Kadar GDP

Tests of Normality

Kelompok perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
GDP Sebelum STZ	Normal	.146	6	.200*	.979	6	.946
	Negatif positif	.161	6	.200*	.954	6	.773
	P1(250 mg kersen)	.180	6	.200*	.957	6	.795
	P2(500 mg kersen)	.190	6	.200*	.956	6	.786
	P3(750 mg kersen)	.229	6	.200*	.864	6	.204
		.167	6	.200*	.949	6	.733
GDP Sesudah STZ	Normal	.199	6	.200*	.958	6	.802
	Negatif positif	.170	6	.200*	.946	6	.708
	P1(250 mg kersen)	.227	6	.200*	.956	6	.787
	P2(500 mg kersen)	.209	6	.200*	.928	6	.568
	P3(750 mg kersen)	.165	6	.200*	.989	6	.986
		.200	6	.200*	.936	6	.626
GDP Sesudah Kersen	Normal	.163	6	.200*	.957	6	.795
	Negatif positif	.178	6	.200*	.946	6	.707
	P1(250 mg kersen)	.151	6	.200*	.980	6	.953
	P2(500 mg kersen)	.181	6	.200*	.941	6	.669
	P3(750 mg kersen)	.139	6	.200*	.963	6	.839
		.212	6	.200*	.912	6	.449

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
GDP Sebelum STZ	Based on Mean	.308	5	30	.905
	Based on Median	.295	5	30	.912
	Based on Median and with adjusted df	.295	5	26.373	.911
	Based on trimmed mean	.307	5	30	.905
GDP Sesudah STZ	Based on Mean	3.129	5	30	.022
	Based on Median	2.924	5	30	.029
	Based on Median and with adjusted df	2.924	5	19.170	.040
	Based on trimmed mean	3.123	5	30	.022
GDP Sesudah Kersen	Based on Mean	4.641	5	30	.003
	Based on Median	4.073	5	30	.006
	Based on Median and with adjusted df	4.073	5	17.466	.012
	Based on trimmed mean	4.603	5	30	.003

Kadar SGOT

Tests of Normality

Kelompok Perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sebelum STZ	Negatif	.292	6	.120	.916	6	.478
	positif	.202	6	.200*	.853	6	.167
	P1(250 mg kersen)	.292	6	.119	.821	6	.090
	P2(500 mg kersen)	.249	6	.200*	.857	6	.180
	P3(750 mg kersen)	.202	6	.200*	.853	6	.167
Sesudah STZ	Negatif	.298	6	.105	.785	6	.043
	positif	.248	6	.200*	.889	6	.314
	P1(250 mg kersen)	.294	6	.116	.822	6	.092
	P2(500 mg kersen)	.277	6	.168	.809	6	.070
	P3(750 mg kersen)	.261	6	.200*	.780	6	.039
Sesudah Kersen	Negatif	.238	6	.200*	.876	6	.252
	positif	.256	6	.200*	.854	6	.170
	P1(250 mg kersen)	.268	6	.200*	.826	6	.099
	P2(500 mg kersen)	.254	6	.200*	.887	6	.304
	P3(750 mg kersen)	.202	6	.200*	.941	6	.664

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df 1	df 2	Sig.
Sebelum STZ	Based on Mean	6.096	4	25	.001
	Based on Median	2.482	4	25	.070
	Based on Median and with adjusted df	2.482	4	7.708	.130
	Based on trimmed mean	5.264	4	25	.003
Sesudah STZ	Based on Mean	2.305	4	25	.086
	Based on Median	.813	4	25	.529
	Based on Median and with adjusted df	.813	4	18.764	.533
	Based on trimmed mean	2.005	4	25	.125
Sesudah Kersen	Based on Mean	.142	4	25	.965
	Based on Median	.126	4	25	.972
	Based on Median and with adjusted df	.126	4	15.902	.971
	Based on trimmed mean	.139	4	25	.966

Kadar SGOT

Perlakuan		Sebelum STZ	Sesudah STZ	Sesudah Kersen
Negatif	Mean	38.1900	76.9517	78.0833
	Minimum	37.38	75.25	76.22
	Maximum	38.84	81.08	81.56
	Std. Deviation	.50156	2.18819	2.15806
	Std. Error of Mean	.20476	.89332	.88102
Positif	Mean	37.3833	78.6500	41.4300
	Minimum	36.90	75.25	38.84
	Maximum	37.87	81.08	43.21
	Std. Deviation	.43380	2.37968	1.85811
	Std. Error of Mean	.17710	.97150	.75857
P1	Mean	38.0283	71.0450	63.1150
	Minimum	37.38	70.40	61.66
	Maximum	38.35	71.37	66.51
	Std. Deviation	.39519	.39682	1.89191
	Std. Error of Mean	.16134	.16200	.77237
P2	Mean	38.5167	71.8550	57.2867
	Minimum	35.93	70.40	52.92
	Maximum	39.81	74.28	60.20
	Std. Deviation	1.55527	1.73687	2.41689
	Std. Error of Mean	.63494	.70907	.98669
P3	Mean	38.3533	77.6783	46.4467
	Minimum	37.87	76.22	44.67
	Maximum	38.84	81.56	48.55
	Std. Deviation	.43380	2.03660	1.52387
	Std. Error of Mean	.17710	.83144	.62212
Total	Mean	38.0943	75.2360	57.2723
	Minimum	35.93	70.40	38.84
	Maximum	39.81	81.56	81.56
	Std. Deviation	.84286	3.64938	13.27653
	Std. Error of Mean	.15388	.66628	2.42395

Kadar SGPT

Tests of Normality

Kelompok Perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Sebelum STZ	Negatif	.257	6	.200*	.866	6	.212
	positif	.257	6	.200*	.866	6	.212
	P1(250 mg kersen)	.195	6	.200*	.860	6	.189
	P2(500 mg kersen)	.221	6	.200*	.908	6	.425
	P3(750 mg kersen)	.254	6	.200*	.866	6	.212
Sesudah STZ	Negatif	.238	6	.200*	.927	6	.557
	positif	.292	6	.120	.916	6	.478
	P1(250 mg kersen)	.225	6	.200*	.907	6	.416
	P2(500 mg kersen)	.285	6	.139	.831	6	.109
	P3(750 mg kersen)	.123	6	.200*	.982	6	.959
Sesudah kersen	Negatif	.168	6	.200*	.982	6	.960
	positif	.225	6	.200*	.907	6	.416
	P1(250 mg kersen)	.210	6	.200*	.906	6	.411
	P2(500 mg kersen)	.295	6	.113	.915	6	.468
	P3(750 mg kersen)	.293	6	.117	.822	6	.091

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df 1	df 2	Sig.
Sebelum STZ	Based on Mean	1.766	4	25	.167
	Based on Median	1.514	4	25	.228
	Based on Median and with adjusted df	1.514	4	22.688	.232
	Based on trimmed mean	1.701	4	25	.181
Sesudah STZ	Based on Mean	.892	4	25	.483
	Based on Median	.861	4	25	.501
	Based on Median and with adjusted df	.861	4	24.704	.501
	Based on trimmed mean	.895	4	25	.482
Sesudah kersen	Based on Mean	.314	4	25	.866
	Based on Median	.327	4	25	.857
	Based on Median and with adjusted df	.327	4	20.502	.857
	Based on trimmed mean	.310	4	25	.868

Kadar SGPT

Perlakuan		Sebelum STZ	Sesudah STZ	Sesudah kersen
Negatif	Mean	18.3667	38.0300	39.8117
	Minimum	17.96	36.90	38.84
	Maximum	18.93	38.84	40.78
	Std. Deviation	.36577	.66166	.68590
	Std. Error of Mean	.14932	.27012	.28002
positif	Mean	18.3667	37.0600	22.7367
	Minimum	17.96	36.41	21.85
	Maximum	18.93	37.87	23.30
	Std. Deviation	.36577	.50156	.56571
	Std. Error of Mean	.14932	.20476	.23095
P1(250 mg kersen)	Mean	18.2050	37.7867	35.6050
	Minimum	17.48	36.90	34.96
	Maximum	18.93	38.35	36.41
	Std. Deviation	.66672	.56571	.58627
	Std. Error of Mean	.27219	.23095	.23934
P2(500 mg kersen)	Mean	18.8517	37.8667	32.3667
	Minimum	17.96	36.90	31.56
	Maximum	19.42	38.35	33.01
	Std. Deviation	.56828	.61190	.50027
	Std. Error of Mean	.23200	.24981	.20423
P3(750 mg kersen)	Mean	19.5017	38.5967	29.2933
	Minimum	18.93	37.38	28.64
	Maximum	19.91	39.81	29.62
	Std. Deviation	.36886	.90976	.40008
	Std. Error of Mean	.15059	.37141	.16333
Total	Mean	18.6583	37.8680	31.9627
	Minimum	17.48	36.41	21.85
	Maximum	19.91	39.81	40.78
	Std. Deviation	.65917	.79562	5.90560
	Std. Error of Mean	.12035	.14526	1.07821

Paired GDP

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	GDP Sebelum STZ(Negatif) - GDP Sesudah STZ(Negatif)	-152.587	5.70807	2.33031	-158.577	-146.596	-65.479	5	.000
Pair 2	GDP Sesudah STZ(Negatif) - GDP akhir(tanpa perlakuan)	-.90833	.73262	.29909	-1.67717	-.13949	-3.037	5	.029

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	GDP sebelum STZ(positif) - GDP sesudah STZ(positif)	-147.352	2.09253	.85427	-149.548	-145.156	-172.488	5	.000
Pair 2	GDP sesudah STZ(positif) - GDP Sesudah Metformin	107.56667	.53772	.21952	107.00236	108.13097	489.998	5	.000

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	GDP Sebelum STZ(P1) - GDP Sesudah STZ(P1)	-148.758	4.67916	1.91026	-153.669	-143.848	-77.873	5	.000
Pair 2	GDP Sesudah STZ(P1) - GDP Sesudah kersen(P1)	53.34833	3.33242	1.36045	49.85117	56.84549	39.214	5	.000

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	GDP Sebelum STZ(P2) - GDP Sesudah STZ(P2)	-147.553	2.84999	1.16351	-150.544	-144.562	-126.818	5	.000
Pair 2	GDP Sesudah STZ(P2) - GDP Sesudah Kersen(P2)	70.53667	.75277	.30732	69.74668	71.32665	229.523	5	.000

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	GDP Sebelum STZ (P3) - GDP Sesudah STZ (P3)	-153.002	2.19411	.89574	-155.304	-150.699	-170.810	5	.000
Pair 2	GDP Sesudah STZ (P3) - GDP Sesudah Kersen (P3)	108.72500	1.82749	.74607	106.80717	110.64283	145.731	5	.000

Paired SGOT

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	SGOT Sebelum STZ (Negatif) - SGOT Sesudah STZ (Negatif)	-38.76167	2.16024	.88191	-41.02869	-36.49464	-43.952	5	.000
Pair 2	SGOT Sesudah STZ (Negatif) - SGOT akhir (tanpa perlakuan)	-1.13167	.66704	.27232	-1.83168	-.43166	-4.156	5	.009

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	SGOT Sebelum STZ (Positif) - SGOT Sesudah STZ (Positif)	-41.26667	2.56978	1.04911	-43.96349	-38.56984	-39.335	5	.000
Pair 2	SGOT Sesudah STZ (Positif) - SGOT Sesudah Metformin (Positif)	37.22000	1.95825	.79945	35.16494	39.27506	46.557	5	.000

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	SGOT Sebelum STZ (P1) - SGOT Sesudah STZ (P1)	-33.01667	.53313	.21765	-33.57615	-32.45718	-151.697	5	.000
Pair 2	SGOT Sesudah STZ (P1) - SGOT Sesudah Kersen (P1)	7.93000	2.14229	.87459	5.68181	10.17819	9.067	5	.000

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	SGOT sebelum STZ (P2) - SGOT Sesudah STZ (P2)	-33.33833	1.64469	.67144	-35.06433	-31.61233	-49.652	5	.000
Pair 2	SGOT Sesudah STZ (P2) - SGOT Sesudah Kersen (P2)	-5.82333	1.33488	.54496	-7.22420	-4.42246	-10.686	5	.000

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	SGOT Sebelum STZ (P3) - SGOT Sesudah STZ (P3)	-39.32500	1.79023	.73086	-41.20373	-37.44627	-53.807	5	.000
Pair 2	SGOT Sesudah STZ (P3) - SGOT Sesudah Kersen (P3)	31.23167	2.67006	1.09005	28.42961	34.03372	28.652	5	.000

Paired SGPT

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	SGPT Sebelum STZ (Negatif) - SGPT Sesudah STZ (Negatif)	-19.66333	.79847	.32597	-20.50127	-18.82540	-60.322	5	.000
Pair 2	SGPT Sesudah STZ (Negatif) - SGPT akhir (tanpa perlakuan)	-1.78167	.66216	.27033	-2.47656	-1.08677	-6.591	5	.001

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	SGPT Sebelum STZ (Positif) - SGPT Sesudah STZ (Positif)	-18.69333	.79847	.32597	-19.53127	-17.85540	-57.346	5	.000
Pair 2	SGPT Sesudah STZ (Positif) - SGPT Sesudah Metformin (Positif)	14.32333	1.05076	.42897	13.22062	15.42604	33.390	5	.000

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	SGPT Sebelum STZ (P1) - SGPT Sesudah STZ (P1)	-19.58167	.79078	.32284	-20.41154	-18.75179	-60.655	5	.000
Pair 2	SGPT Sesudah STZ (P1) - SGPT Sesudah Kersen(P1)	2.18167	1.00258	.40930	1.12952	3.23382	5.330	5	.003

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	SGPT Sebelum STZ (P2) - SGPT Sesudah STZ (P2)	-19.01500	.64177	.26200	-19.68850	-18.34150	-72.576	5	.000
Pair 2	SGPT Sesudah STZ (P2) - SGPT Sesudah Kersen (P2)	5.50000	.58628	.23935	4.88474	6.11526	22.979	5	.000

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	SGPT Sebelum STZ (P3) - SGPT Sesudah STZ (P3)	-19.09500	1.09644	.44762	-20.24565	-17.94435	-42.659	5	.000
Pair 2	SGPT Sesudah STZ (P3) - SGPT Sesudah kersen (P3)	9.30333	.99319	.40547	8.26104	10.34562	22.945	5	.000

Descriptives

GDP Sebelum perlakuan-sesudah perlakuan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Negatif	6	-.9067	.72943	.29779	-1.6722	-.1412	-2.07	-.21
Positif	6	107.5650	.53810	.21968	107.0003	108.1297	106.95	108.41
P1	6	53.3483	3.33637	1.36207	49.8470	56.8496	51.44	60.00
P2	6	70.5367	.75277	.30732	69.7467	71.3267	69.86	71.99
P3	6	108.7217	1.82603	.74547	106.8054	110.6380	106.70	111.03
Total	30	67.8530	41.20424	7.52283	52.4671	83.2389	-2.07	111.03

Test of Homogeneity of Variances

GDP Sebelum perlakuan-sesudah perlakuan

Levene Statistic	df 1	df 2	Sig.
3.097	4	25	.034

ANOVA

GDP Sebelum perlakuan-sesudah perlakuan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	49156.620	4	12289.155	3875.728	.000
Within Groups	79.270	25	3.171		
Total	49235.890	29			

Multiple Comparisons

Dependent Variable: GDP Sebelum perlakuan-sesudah perlakuan

Tukey HSD

(I) kelompok perlakuan	(J) kelompok perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Negatif	Positif	-108.47167*	1.02807	.000	-111.4910	-105.4523
	P1	-54.25500*	1.02807	.000	-57.2743	-51.2357
	P2	-71.44333*	1.02807	.000	-74.4627	-68.4240
	P3	-109.62833*	1.02807	.000	-112.6477	-106.6090
Positif	Negatif	108.47167*	1.02807	.000	105.4523	111.4910
	P1	54.21667*	1.02807	.000	51.1973	57.2360
	P2	37.02833*	1.02807	.000	34.0090	40.0477
	P3	-1.15667	1.02807	.792	-4.1760	1.8627
P1	Negatif	54.25500*	1.02807	.000	51.2357	57.2743
	Positif	-54.21667*	1.02807	.000	-57.2360	-51.1973
	P2	-17.18833*	1.02807	.000	-20.2077	-14.1690
	P3	-55.37333*	1.02807	.000	-58.3927	-52.3540
P2	Negatif	71.44333*	1.02807	.000	68.4240	74.4627
	Positif	-37.02833*	1.02807	.000	-40.0477	-34.0090
	P1	17.18833*	1.02807	.000	14.1690	20.2077
	P3	-38.18500*	1.02807	.000	-41.2043	-35.1657
P3	Negatif	109.62833*	1.02807	.000	106.6090	112.6477
	Positif	1.15667	1.02807	.792	-1.8627	4.1760
	P1	55.37333*	1.02807	.000	52.3540	58.3927
	P2	38.18500*	1.02807	.000	35.1657	41.2043

*. The mean difference is significant at the .05 level.

GDP Sebelum perlakuan-sesudah perlakuan

Tukey HSD^a

kelompok perlakuan	N	Subset for alpha = .05			
		1	2	3	4
Negatif	6	-.9067			
P1	6		53.3483		
P2	6			70.5367	
Positif	6				107.5650
P3	6				108.7217
Sig.		1.000	1.000	1.000	.792

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Descriptives

SGOT Sebelum-SGOT Sesudah perlakuan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Negatif	6	-1.1333	.66069	.26972	-1.8267	-.4400	-1.94	-.49
Positif	6	37.2200	1.95676	.79884	35.1665	39.2735	34.96	40.78
P1	6	7.9300	2.14229	.87459	5.6818	10.1782	4.37	9.71
P2	6	14.5617	3.36422	1.37344	11.0311	18.0922	12.62	21.36
P3	6	31.2333	2.67393	1.09163	28.4272	34.0395	28.64	35.93
Total	30	17.9623	14.71525	2.68662	12.4676	23.4571	-1.94	40.78

Test of Homogeneity of Variances

SGOT Sebelum-SGOT Sesudah perlakuan

Levene Statistic	df 1	df 2	Sig.
1.107	4	25	.375

ANOVA

SGOT Sebelum-SGOT Sesudah perlakuan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6143.003	4	1535.751	281.039	.000
Within Groups	136.614	25	5.465		
Total	6279.617	29			

Multiple Comparisons

Dependent Variable: SGOT Sebelum-SGOT Sesudah perlakuan

Tukey HSD

(I) Kelompok perlakuan	(J) Kelompok perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Negatif	Positif	-38.35333*	1.34963	.000	-42.3170	-34.3896
	P1	-9.06333*	1.34963	.000	-13.0270	-5.0996
	P2	-15.69500*	1.34963	.000	-19.6587	-11.7313
	P3	-32.36667*	1.34963	.000	-36.3304	-28.4030
Positif	Negatif	38.35333*	1.34963	.000	34.3896	42.3170
	P1	29.29000*	1.34963	.000	25.3263	33.2537
	P2	22.65833*	1.34963	.000	18.6946	26.6220
	P3	5.98667*	1.34963	.001	2.0230	9.9504
P1	Negatif	9.06333*	1.34963	.000	5.0996	13.0270
	Positif	-29.29000*	1.34963	.000	-33.2537	-25.3263
	P2	-6.63167*	1.34963	.000	-10.5954	-2.6680
	P3	-23.30333*	1.34963	.000	-27.2670	-19.3396
P2	Negatif	15.69500*	1.34963	.000	11.7313	19.6587
	Positif	-22.65833*	1.34963	.000	-26.6220	-18.6946
	P1	6.63167*	1.34963	.000	2.6680	10.5954
	P3	-16.67167*	1.34963	.000	-20.6354	-12.7080
P3	Negatif	32.36667*	1.34963	.000	28.4030	36.3304
	Positif	-5.98667*	1.34963	.001	-9.9504	-2.0230
	P1	23.30333*	1.34963	.000	19.3396	27.2670
	P2	16.67167*	1.34963	.000	12.7080	20.6354

*. The mean difference is significant at the .05 level.

SGOT Sebelum-SGOT Sesudah perlakuan

Tukey HSD^a

Kelompok perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
Negatif	6	-1.1333				
P1	6		7.9300			
P2	6			14.5617		
P3	6				31.2333	
Positif	6					37.2200
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Descriptives

SGPT Sebelum-SGPT Sesudah perlakuan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Negatif	6	-1.7800	.66166	.27012	-2.4744	-1.0856	-2.43	-.49
Positif	6	14.3217	1.05215	.42954	13.2175	15.4258	13.11	16.02
P1	6	2.1850	1.00548	.41049	1.1298	3.2402	.49	3.40
P2	6	5.5050	.58957	.24069	4.8863	6.1237	4.37	5.83
P3	6	9.3050	.99009	.40420	8.2660	10.3440	7.77	10.68
Total	30	5.9073	5.73003	1.04616	3.7677	8.0470	-2.43	16.02

Test of Homogeneity of Variances

SGPT Sebelum-SGPT Sesudah perlakuan

Levene Statistic	df 1	df 2	Sig.
.707	4	25	.595

ANOVA

SGPT Sebelum-SGPT Sesudah perlakuan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	932.747	4	233.187	300.215	.000
Within Groups	19.418	25	.777		
Total	952.166	29			

Multiple Comparisons

Dependent Variable: SGPT Sebelum-SGPT Sesudah perlakuan

Tukey HSD

(I) Kelompok Perlakuan	(J) Kelompok Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Negatif	Positif	-16.10167*	.50883	.000	-17.5960	-14.6073
	P1	-3.96500*	.50883	.000	-5.4594	-2.4706
	P2	-7.28500*	.50883	.000	-8.7794	-5.7906
	P3	-11.08500*	.50883	.000	-12.5794	-9.5906
Positif	Negatif	16.10167*	.50883	.000	14.6073	17.5960
	P1	12.13667*	.50883	.000	10.6423	13.6310
	P2	8.81667*	.50883	.000	7.3223	10.3110
	P3	5.01667*	.50883	.000	3.5223	6.5110
P1	Negatif	3.96500*	.50883	.000	2.4706	5.4594
	Positif	-12.13667*	.50883	.000	-13.6310	-10.6423
	P2	-3.32000*	.50883	.000	-4.8144	-1.8256
	P3	-7.12000*	.50883	.000	-8.6144	-5.6256
P2	Negatif	7.28500*	.50883	.000	5.7906	8.7794
	Positif	-8.81667*	.50883	.000	-10.3110	-7.3223
	P1	3.32000*	.50883	.000	1.8256	4.8144
	P3	-3.80000*	.50883	.000	-5.2944	-2.3056
P3	Negatif	11.08500*	.50883	.000	9.5906	12.5794
	Positif	-5.01667*	.50883	.000	-6.5110	-3.5223
	P1	7.12000*	.50883	.000	5.6256	8.6144
	P2	3.80000*	.50883	.000	2.3056	5.2944

*. The mean difference is significant at the .05 level.

SGPT Sebelum-SGPT Sesudah perlakuan

Tukey HSD^a

Kelompok Perlakuan	N	Subset for alpha = .05				
		1	2	3	4	5
Negatif	6	-1.7800				
P1	6		2.1850			
P2	6			5.5050		
P3	6				9.3050	
Positif	6					14.3217
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

LAMPIRAN 6

Dokumentasi Penelitian

