

LAMPIRAN
Lampiran 1. Ethical Clearance

KOMISI BIOETIKA PENELITIAN KEDOKTERAN/KESEHATAN

FAKULTAS KEDOKTERAN

UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG

Sekretariat : Gedung C Lantai I Fakultas Kedokteran Unissula
 Jl. Raya Kaligawe Km 4 Semarang, Telp. 024-6583584, Fax 024-6594366

Ethical Clearance

No. 290/VIII/2020/Komisi Bioetik

Komisi Bioetika Penelitian Kedokteran/Kesehatan Fakultas Kedokteran Universitas Islam Sultan Agung Semarang, setelah melakukan pengkajian atas usulan penelitian yang berjudul :

**PENGARUH GLUKOMANNAN PORANG TERHADAP KADAR SUPEROXIDE
 DISMUTASE (SOD)**

**(Studi Eksperimental pada Tikus Putih Jantan Galur Wistar
 yang Diinduksi *Streptozotocine-Nicotinamide* (STZ-NA))**

Peneliti Utama : Shaffira Salviana Rachmadewi
 Pembimbing : Azizah Hikma Safitri, S.Si, M.Si
 dr. Nurina Tyagita, M.Biomed
 Tempat Penelitian : Laboratorium Pusat Studi Pangan dan Gizi (PSPG) Universitas Gajah
 Mada Yogyakarta

dengan ini menyatakan bahwa usulan penelitian diatas telah memenuhi prasyarat etik penelitian. Oleh karena itu Komisi Bioetika merekomendasikan agar penelitian ini dapat dilaksanakan dengan mempertimbangkan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki dan panduan yang tertuang dalam Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI tahun 2004.

Semarang, 30 Agustus 2020

Komisi Bioetika Penelitian Kedokteran/Kesehatan


Fakultas Kedokteran Unissula

Ketua,



(dr. Sofwan Dahlan, Sp.F(K))

Lampiran 2. Surat Selesai Penelitian



UNIVERSITAS GADJAH MADA
 Pusat Studi Pangan dan Gizi
 Jin. Teknika Utara, Berek, YOGYAKARTA 55281
 Telepon : 0274-589242, Web : www.cfns.ugm.ac.id
 Email : cfns@ugm.ac.id

SURAT KETERANGAN BEBAS PEMINJAMAN

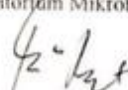

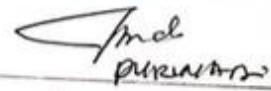
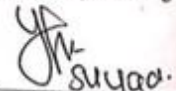
Menerangkan bahwa :


Nama Mahasiswa/Peneliti	: <u>Shafira Salwani R</u>
No. Mahasiswa	: <u>30101700164</u>
Jurusan/Fakultas/Universitas	: <u>Kedokteran umum / kedokteran / universitas Islam Sultan Agung</u>

Alamat Rumah & Nomor Telpon/HP : Buat wahid Regency 02-19
Semarang
081 227 373532

Tidak mempunyai pinjaman peralatan dan bon bahan di laboratorium Pusat Studi Pangan dan Gizi Universitas Gadjah Mada

Yogyakarta, 06 13 Januari 2021

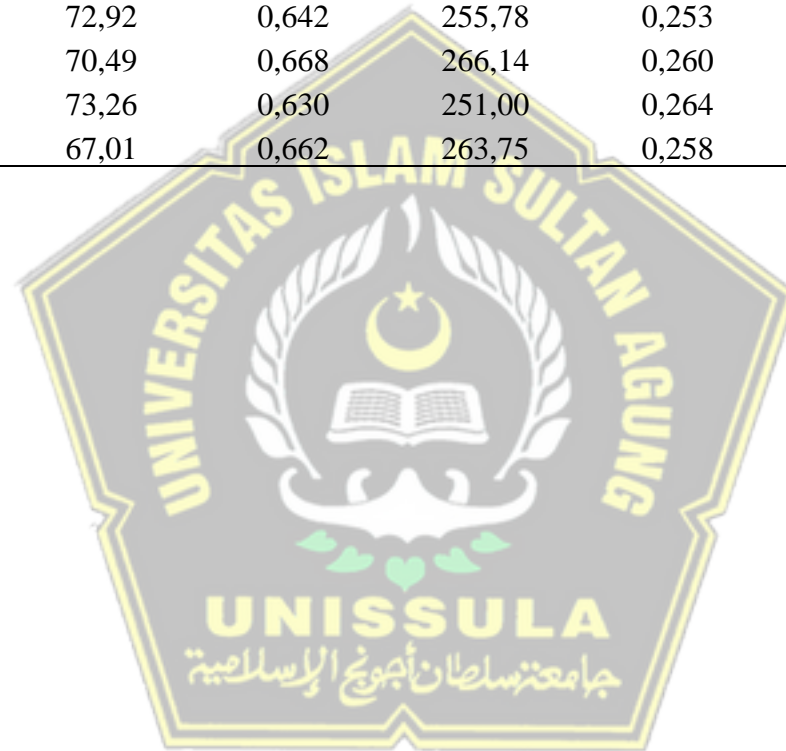
Teknisi, Laboratorium Mikrobiologi  <hr/> Teknisi, Laboratorium Gizi  <hr/>	Teknisi, Laboratorium Kimia dan Biokimia  <hr/> Teknisi, Laboratorium Rekayasa Pangan,  <hr/>
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Mengetahui :
 Kepala PSPG,

 Prof. Dr. Ir. Endang S. Rahayu, MS
 NIP. 195402221980032001

Lampiran 3. Data Penelitian

No	Kode	28-Okt-20		31-Okt-20		29-Nop-20		SOD	
		Abs	Glukosa mg/dl	Abs	Glukosa mg/dl	Abs	Glukosa mg/dl		Abs
1	K.1	0,201	69,79	0,180	71,71	0,176	73,64	0,045	81,97
2	K.2	0,223	77,43	0,195	77,69	0,190	79,50	0,047	78,69
3	K.3	0,218	75,69	0,192	76,49	0,185	77,41	0,048	77,05
4	K.4	0,215	74,65	0,189	75,30	0,188	78,66	0,044	83,61
5	K.5	0,205	71,18	0,179	71,31	0,177	74,06	0,046	80,33
6	K.6	0,212	73,61	0,188	74,90	0,180	75,31	0,049	75,41
7	DM.1	0,198	68,75	0,640	254,98	0,618	258,58	0,077	29,51
8	DM.2	0,202	70,14	0,669	266,53	0,643	269,04	0,072	37,70
9	DM.3	0,217	75,35	0,651	259,36	0,629	263,18	0,078	27,87
10	DM.4	0,211	73,26	0,642	255,78	0,620	259,41	0,074	34,43
11	DM.5	0,194	67,36	0,644	256,57	0,617	258,16	0,075	32,79
12	DM.6	0,213	73,96	0,650	258,96	0,619	259,00	0,076	31,15
13	P1.1	0,204	70,83	0,648	258,17	0,234	97,91	0,047	78,69
14	P1.2	0,206	71,53	0,664	264,54	0,237	99,16	0,049	75,41
15	P1.3	0,202	70,14	0,660	262,95	0,240	100,42	0,050	73,77
16	P1.4	0,209	72,57	0,663	264,14	0,235	98,33	0,054	67,21
17	P1.5	0,214	74,31	0,352	253,24	0,244	102,09	0,055	65,57
18	P1.6	0,211	73,26	0,355	255,40	0,247	103,35	0,052	70,49
19	P3.1	0,190	65,97	0,647	257,77	0,270	112,97	0,053	68,85

No	Kode	28-Okt-20		31-Okt-20		29-Nop-20		SOD %	
		Abs	Glukosa mg/dl	Abs	Glukosa mg/dl	Abs	Glukosa mg/dl		
20	P3.2	0,188	65,28	0,633	252,19	0,255	106,69	0,051	72,13
21	P3.3	0,210	72,92	0,642	255,78	0,253	105,86	0,050	73,77
22	P3.4	0,203	70,49	0,668	266,14	0,260	108,79	0,058	60,66
23	P3.5	0,211	73,26	0,630	251,00	0,264	110,46	0,055	65,57
24	P3.6	0,193	67,01	0,662	263,75	0,258	107,95	0,054	67,21



Lampiran 4. Hasil SPSS

Explore

Kelompok

Case Processing Summary

Kelompok	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Glukosa Normal	5	100.0%	0	0.0%	5	100.0%
DM	5	100.0%	0	0.0%	5	100.0%
Akarbose	5	100.0%	0	0.0%	5	100.0%
Glukomanan Porang	5	100.0%	0	0.0%	5	100.0%

Descriptives

Kelompok	Statistic	Std. Error	
Glukosa Normal	Mean	74.5000	
	95% Confidence Interval for Mean	Lower Bound	70.9479
		Upper Bound	78.0521
	5% Trimmed Mean	74.5000	
	Median	75.3000	
	Variance	8.184	
	Std. Deviation	2.86079	
	Minimum	71.31	
	Maximum	77.69	
	Range	6.38	
	Interquartile Range	5.58	
	Skewness	-.237	.913
	Kurtosis	-2.704	2.000

DM	Mean		258.6440	2.10512
	95% Confidence Interval for Mean	Lower Bound	252.7993	
		Upper Bound	264.4887	
	5% Trimmed Mean		258.4094	
	Median		256.5700	
	Variance		22.158	
	Std. Deviation		4.70719	
	Minimum		254.98	
	Maximum		266.53	
	Range		11.55	
	Interquartile Range		7.56	
	Skewness		1.635	.913
	Kurtosis		2.525	2.000
	Akarbose	Mean		260.6080
95% Confidence Interval for Mean		Lower Bound	254.6000	
		Upper Bound	266.6160	
5% Trimmed Mean			260.7989	
Median			262.9500	
Variance			23.413	
Std. Deviation			4.83870	
Minimum			253.24	
Maximum			264.54	
Range			11.30	
Interquartile Range			8.64	
Skewness			-1.092	.913
Kurtosis			-.230	2.000
Glukomanan Porang		Mean		256.5760
	95% Confidence Interval for Mean	Lower Bound	249.1297	
		Upper Bound	264.0223	
	5% Trimmed Mean		256.3544	
	Median		255.7800	
	Variance		35.965	

Std. Deviation	5.99704	
Minimum	251.00	
Maximum	266.14	
Range	15.14	
Interquartile Range	10.36	
Skewness	1.194	.913
Kurtosis	1.380	2.000

Tests of Normality

Kelompok		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Glukosa	Normal	.235	5	.200*	.889	5	.351
	DM	.270	5	.200*	.823	5	.123
	Akarbose	.286	5	.200*	.856	5	.213
	Glukomanan Porang	.221	5	.200*	.905	5	.437

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene			
		Statistic	df1	df2	Sig.
Glukosa	Based on Mean	.539	3	16	.662
	Based on Median	.259	3	16	.854
	Based on Median and with adjusted df	.259	3	13.311	.854
	Based on trimmed mean	.488	3	16	.696

Oneway

ANOVA

GDP

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	40.652	2	20.326	.748	.494
Within Groups	326.141	12	27.178		
Total	366.792	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: GDP

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
DM	Akarbose	-1.96400	3.29717	.562	-9.1479	5.2199
	Glukomanan Porang	2.06800	3.29717	.542	-5.1159	9.2519
Akarbose	DM	1.96400	3.29717	.562	-5.2199	9.1479
	Glukomanan Porang	4.03200	3.29717	.245	-3.1519	11.2159
Glukomanan Porang	DM	-2.06800	3.29717	.542	-9.2519	5.1159
	Akarbose	-4.03200	3.29717	.245	-11.2159	3.1519

Explore

Kelompok

Case Processing Summary

Kelompok	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
SOD Normal	5	100.0%	0	0.0%	5	100.0%
DM	5	100.0%	0	0.0%	5	100.0%
Akarbose	5	100.0%	0	0.0%	5	100.0%
Glukomanan Porang	5	100.0%	0	0.0%	5	100.0%

Descriptives

Kelompok	Statistic	Std. Error	
SOD Normal	Mean	80.3300	
	95% Confidence Interval for Mean	Lower Bound	77.1103
		Upper Bound	83.5497
	5% Trimmed Mean	80.3300	
	Median	80.3300	
	Variance	6.724	
	Std. Deviation	2.59307	
	Minimum	77.05	
	Maximum	83.61	
	Range	6.56	
	Interquartile Range	4.92	
	Skewness	.000	.913
	Kurtosis	-1.200	2.000

DM	Mean		32.4600	1.74954
	95% Confidence Interval for Mean	Lower Bound	27.6025	
		Upper Bound	37.3175	
	5% Trimmed Mean		32.4239	
	Median		32.7900	
	Variance		15.305	
	Std. Deviation		3.91210	
	Minimum		27.87	
	Maximum		37.70	
	Range		9.83	
	Interquartile Range		7.37	
	Skewness		.203	.913
	Kurtosis		-1.123	2.000
	Akarbose	Mean		72.1300
95% Confidence Interval for Mean		Lower Bound	65.2245	
		Upper Bound	79.0355	
5% Trimmed Mean			72.1300	
Median			73.7700	
Variance			30.930	
Std. Deviation			5.56151	
Minimum			65.57	
Maximum			78.69	
Range			13.12	
Interquartile Range			10.66	
Skewness			-.192	.913
Kurtosis			-2.234	2.000
Glukomanan Porang		Mean		68.1960
	95% Confidence Interval for Mean	Lower Bound	61.6651	
		Upper Bound	74.7269	
	5% Trimmed Mean		68.3050	
	Median		68.8500	
	Variance		27.665	

Std. Deviation	5.25977	
Minimum	60.66	
Maximum	73.77	
Range	13.11	
Interquartile Range	9.83	
Skewness	-.606	.913
Kurtosis	-.687	2.000

Tests of Normality

Kelompok		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
SOD	Normal	.136	5	.200*	.987	5	.967
	DM	.175	5	.200*	.974	5	.899
	Akarbose	.216	5	.200*	.925	5	.564
	Glukomanan	.173	5	.200*	.958	5	.795
	Porang						

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

SOD		Levene			
		Statistic	df1	df2	Sig.
SOD	Based on Mean	1.556	3	16	.239
	Based on Median	.801	3	16	.512
	Based on Median and with adjusted df	.801	3	12.206	.517
	Based on trimmed mean	1.527	3	16	.246

ANOVA

SOD

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6715.322	3	2238.441	111.056	.000
Within Groups	322.496	16	20.156		
Total	7037.819	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: SOD

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Normal	DM	47.87000*	2.83944	.000	41.8507	53.8893
	Akarbose	8.20000*	2.83944	.011	2.1807	14.2193
	Glukomanan Porang	12.13400*	2.83944	.001	6.1147	18.1533
DM	Normal	-47.87000*	2.83944	.000	-53.8893	-41.8507
	Akarbose	-39.67000*	2.83944	.000	-45.6893	-33.6507
	Glukomanan Porang	-35.73600*	2.83944	.000	-41.7553	-29.7167
Akarbose	Normal	-8.20000*	2.83944	.011	-14.2193	-2.1807
	DM	39.67000*	2.83944	.000	33.6507	45.6893
	Glukomanan Porang	3.93400	2.83944	.185	-2.0853	9.9533
Glukomanan Porang	Normal	-12.13400*	2.83944	.001	-18.1533	-6.1147
	DM	35.73600*	2.83944	.000	29.7167	41.7553
	Akarbose	-3.93400	2.83944	.185	-9.9533	2.0853

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



Lampiran 5. Dokumentasi Penelitian



Dokumentasi di PSPG PAU UGM



Kandang Tikus



Sampel darah



Proses pengambilan sampel darah



Proses induksi STZ-NA



Proses sonde glukomanan porang



Pakan standard



Akarbose



Serbuk porang



Umbi porang sebelum dihaluskan



Proses mengukur berat badan tikus