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. 55/II/2019/Komisi Bioetik

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

PENGARUH SUPLEMENTASI TINGGI ASAM FOLAT (B9) TERHADAP KADAR
TUMOR NECROSIS FACTOR-ALPHA
Studi Eksperimental pada Tikus Putih (Rattus norvegicus) Galur Wistar Jantan yang
diinduksi Diet Tinggi Fruktosa

Peneliti Utama : Athalia Tsanya Bayu Putri

Pembimbing : Dr. dr. Joko Wahyu Wibowo, M.Kes

Dina Fatmawati, M.Sc

Tempat Penelitian : Pusat Studi Pangan dan Gizi 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, 8 Februari 2019

Komisi Bioetika Penelitian Kedokteran/Kesehatan

Fakultas Kedokteran Unissula

Ketua,

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

Lampiran 2. Hasil analisis normalitas sebaran data dan homogenitas varian data kadar TNF-alfa

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	kelompok	N	Percent	N	Percent	N	Percent
TNF-a (pg/ml)	C	5	100.0%	0	0.0%	5	100.0%
	C2	5	100.0%	0	0.0%	5	100.0%
	P	5	100.0%	0	0.0%	5	100.0%

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	kelompok	Statistic	df	Sig.	Statistic	df	Sig.
TNF-a (pg/ml)	C	.141	5	.200[*]	.979	5	.928
	C2	.310	5	.131	.835	5	.151
	P	.261	5	.200[*]	.856	5	.213

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
TNF-a (pg/ml)	Based on Mean	8.530	2	12	.005
	Based on Median	1.415	2	12	.281
	Based on Median and with adjusted df	1.415	2	7.181	.303
	Based on trimmed mean	7.936	2	12	.006

Spread vs. Level Plot of TNFa by kelompok

* Data transformed using P = 0

Slope = .026
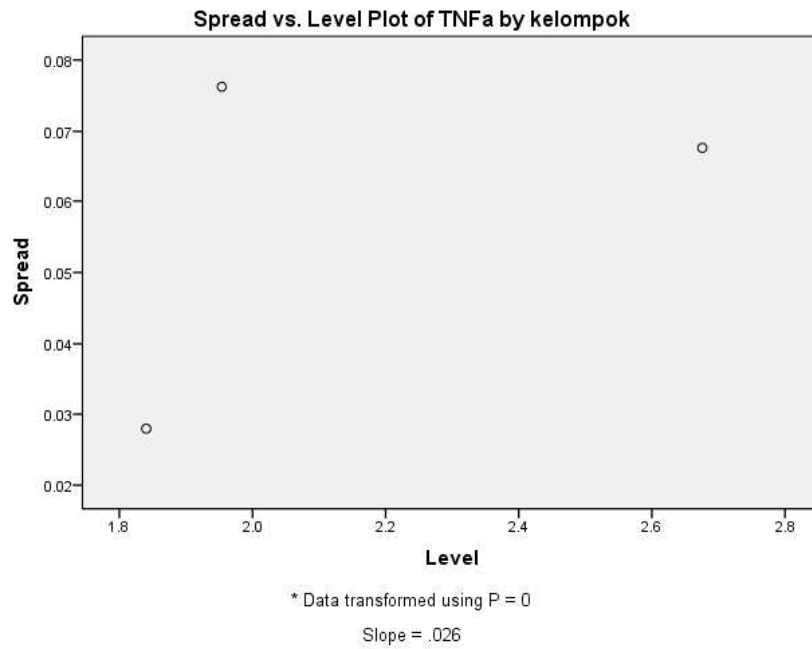
Lampiran 3. Hasil analisis homogenitas varian data kadar TNF-alfa setelah transformasi ke 1/sqrt

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	kelompok	N	Percent	N	Percent	N	Percent
TNF-a (pg/ml)	C	5	100.0%	0	0.0%	5	100.0%
	C2	5	100.0%	0	0.0%	5	100.0%
	P	5	100.0%	0	0.0%	5	100.0%

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
TNF-a (pg/ml)	Based on Mean	2.259	2	12	.147
	Based on Median	.660	2	12	.535
	Based on Median and with adjusted df	.660	2	6.988	.546
	Based on trimmed mean	2.073	2	12	.168

Lampiran 4. Hasil analisis perbedaan kadar TNF-alfa antar kelompok

Oneway

Descriptives

TNF-a (pg/ml)

	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	Minimum	Maximum
					95% Confidence Interval for Mean			
C	5	6.3090	.09708	.04341	6.1885	6.4295	6.20	6.45
C2	5	14.2426	.51045	.22828	13.6088	14.8764	13.62	14.73
P	5	7.1972	.34117	.15258	6.7736	7.6209	6.90	7.76
Total	15	9.2496	3.68872	.95242	7.2069	11.2924	6.20	14.73

ANOVA

TNF-a (pg/ml)

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	188.948	2	94.474	733.516	.000
Within Groups	1.546	12	.129		
Total	190.493	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: TNF-a (pg/ml)

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	Lower Bound	Upper Bound
					95% Confidence Interval	
C	C2	-7.93362[*]	.22698	.000	-8.4282	-7.4391
	P	-.88824[*]	.22698	.002	-1.3828	-.3937
C2	C	7.93362[*]	.22698	.000	7.4391	8.4282
	P	7.04538[*]	.22698	.000	6.5508	7.5399
P	C	.88824[*]	.22698	.002	.3937	1.3828
	C2	-7.04538[*]	.22698	.000	-7.5399	-6.5508

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

Lampiran 5.Hasil analisis normalitas sebaran data dan homogenitas varian data berat badan

Case Processing Summary

	ketera ngan	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
BB (gr)	C1	6	100.0%	0	.0%	6	100.0%
	C2	6	100.0%	0	.0%	6	100.0%
	P	6	100.0%	0	.0%	6	100.0%

Test of Homogeneity of Variances

BB (gr)

Levene Statistic	df1	df2	Sig.
2.749	2	15	.096

Tests of Normality

	ketera ngan	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
BB (gr)	C1	.126	6	.200*	.980	6	.949
	C2	.151	6	.200*	.957	6	.800
	P	.122	6	.200*	.986	6	.976

a. Lilliefors Significance Correction

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

Lampiran 6. Hasil analisis perbedaan berat badan antar kelompok

ANOVA

BB (gr)

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	291.391	2	145.696	.638	.542

Within Groups	3427.187	15	228.479	
Total	3718.578	17		

Lampiran 7. Tabel rerata kadar TNF-α

No	Kode	Abs	TNF α pg/ml
1	C1.1	0.125	6.30
2	C1.2	0.128	6.45
3	C1.3	0.123	6.20
4	C1.4	0.126	6.35
5	C1.5	0.124	6.25
6	C2.1	0.289	14.58
7	C2.2	0.273	13.77
8	C2.3	0.288	14.53
9	C2.4	0.292	14.73
10	C2.5	0.27	13.62
11	P1	0.154	7.76
12	P2	0.139	7.01
13	P3	0.137	6.90
14	P4	0.140	7.06
15	P5	0.144	7.26

Lampiran 8. Kurva baku TNF alfa

$y = 0.1981x + 0.000191$
$R^2 = 0.9992$
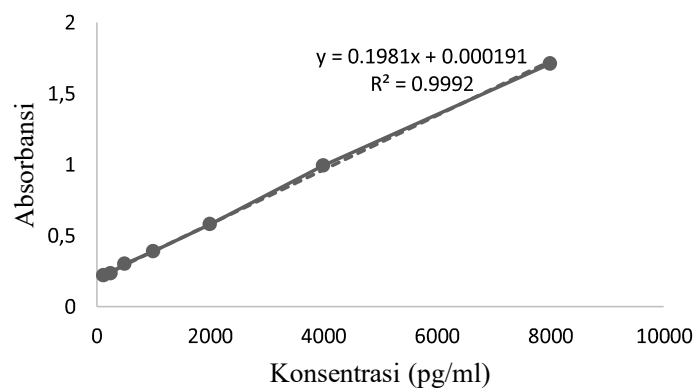
Lampiran 9. Dokumentasi Penelitian

Diet tinggi lemak dan tinggi fruktosa

Pengukuran berat badan tikus

Pengambilan sampel darah