

DAFTAR PUSTAKA

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LAMPIRAN PENELITIAN


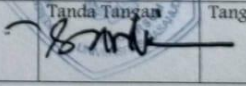
1. Lembar Persetujuan Etik Penelitian

KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS HASANUDDIN
FAKULTAS KEDOKTERAN GIGI
RUMAH SAKIT GIGI DAN MULUT
KOMITE ETIK PENELITIAN KESEHATAN
Sekretariat : Lantai 2, Gedung Lama RSGM Unhas
Jl. Kardeas No. 5 Makassar
Contact Person: drg. Muhammad Ikbal, Sp.Prost/Nur Azzah AR, Telp. 081342971011/08134919191

REKOMENDASI PERSETUJUAN ETIK
Nomor: 0058/PL.09/KEPK FKG-RSGM UNHAS/2021

Tanggal: 27 Mei 2021

Dengan ini menyatakan bahwa protokol dan dokumen yang berhubungan dengan protokol berikut ini telah mendapatkan persetujuan etik:

No. Protokol	UH 17120460	No Protokol Sponsor	
Peneliti Utama	Drg. Afdalia Annisa	Sponsor	Pribadi
Judul Peneliti	Efektivitas Gel Virgin Coconut Oil (Vco) terhadap Jumlah Fibroblas pada Rattus Norvegicus secara In Vivo		
No. Versi Protokol	1	Tanggal Versi	27 Mei 2021
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	1. Laboratorium Biologi FMIPA UNM 2. Laboratorium Politeknik Kimia Unhas 3. Laboratorium Biofarmasi Fakultas Farmasi Unhas 4. Laboratorium Biofarmaka Fakultas Farmasi Unhas 5. Laboratorium Patologi Anatomi RSPTN Unhas 6. Laboratorium Biokimia-Biomolekuler FK Universitas Brawijaya		
Dokumen Lain			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 27 Mei 2021-27 Mei 2022	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhammad Ikbal, Sp.Prost	Tanda Tangan 	Tanggal

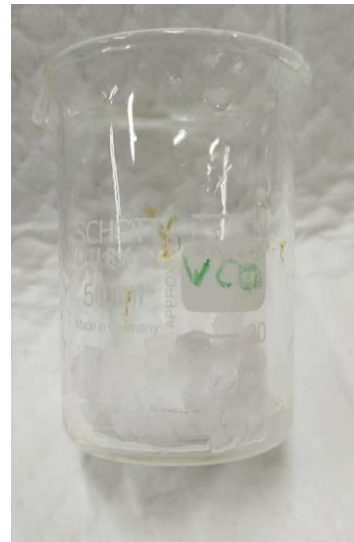
Kewajiban peneliti utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum diimplementasikan
- Menyerahkan laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan lapor SUSAR dalam 72 jam setelah peneliti utama menerima laporan.
- Menyerahkan laporan kemajuan (*progress report*) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah.
- Menyerahkan laporan akhir setelah penelitian berakhir.
- Melaporkan penyimpangan dari protokol yang disetujui (*protocol deviation/violation*)
- Mematuhi semua aturan yang berlaku.

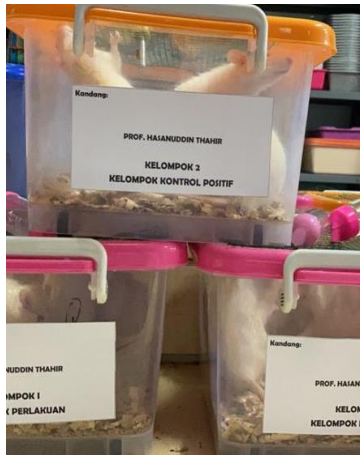
2. Foto Penelitian



Pembuatan Virgin Coconut Oil (VCO) 25 Maret 2021



Pembuatan Gel Virgin Coconut Oil (VCO) 29 April 2021



Adaptasi Hewan Coba 17 Mei 2021



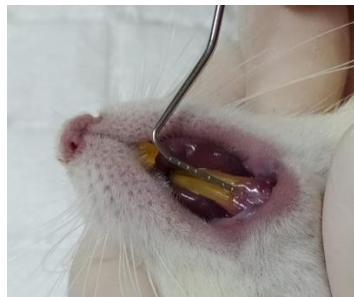
Pembuatan koloni bakteri P.G 21 Mei 2021



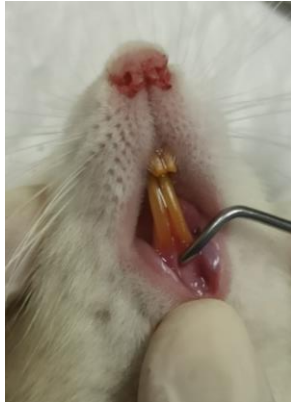
Induksi Periodontitis pada hewan coba 25 Mei 2021



Anastesi umum pada hewan coba



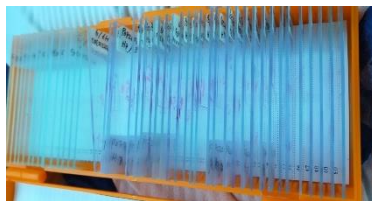
Hewan Coba yang mengalami periodontitis 30 Mei 2021



Skeling and root planing, Aplikasi gel VCO dan aplikasi gel Metronidazole 25%
30 Mei 2021



Pengambilan Sampel H3 dan H7 2 Juni 2021 dan 9 Juni 2021



Pembuatan Preparat 24 Juni 2021

3. Hasil Uji Kandungan Gel *Virgin Coconut Oil (VCO)*

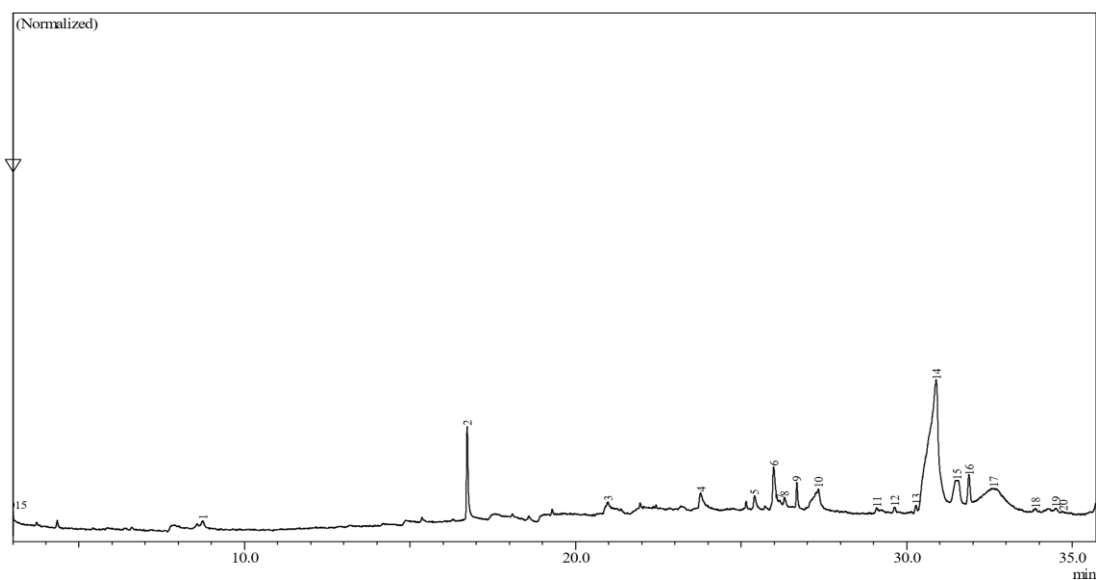
DATA REPORT GCMS-QP2010 ULTRA SHIMADZU

Sample Information

Analyzed by : Admin
 Analyzed : 4/05/2021 11:15:15
 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : VCO 3
 Sample ID : VCO 3
 IS Amount : [1]=1
 Sample Amount : 1

Chromatogram VCO 3 C:\GCMSsolution\Data\Project1\VCO 3i.QGD

TIC



Peak#	R.Time	Area	Area%	A/H	Name
1	8.738	115734	0.40	4.90	DODECANOIC ACID, ETHYL ESTER
2	16.721	1330216	4.58	3.50	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester
3	20.970	151372	0.52	4.33	9-Octadecenoic acid (Z)-, methyl ester
4	23.777	396664	1.37	6.77	HEXADECANOIC ACID, 2-HYDROXY-1,3-PROPANEDIYL ESTER
5	25.401	221067	0.76	4.47	Oleoyl chloride

6	25.980	1100783	3.79	6.28	9-Octadecenoic acid, 1,2,3-propanetriyl ester, (E,E,E)-	7	26.149	201274	0.69	6.13	Cyclohexanecarboxylic acid, heptadecyl ester
8	26.307	209648	0.72	5.04	Glycidol stearate						
9	26.680	337988	1.16	3.23	1,2-BENZENEDICARBOXYLIC ACID						
10	27.334	1259597	4.34	14.79	Dodecanoic acid, 1-(hydroxymethyl)-1,2-ethanediyl ester						
11	29.096	118121	0.41	5.36	12-TRICOSANONE						
12	29.633	99836	0.34	4.46	Octanoic acid, 4-tridecyl ester						
13	30.282	151774	0.52	4.41	1,3-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester						
14	30.890	12732438	43.88	23.32	GLYCEROL TRICAPRYLATE						
15	31.506	2462912	8.49	17.86	Dodecanoic acid, 1,2,3-propanetriyl ester						
16	31.887	1194680	4.12	7.73	2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl-, (all-E)-						
17	32.615	5879263	20.26	55.52	Dodecanoic acid, 1-(hydroxymethyl)-1,2-ethanediyl ester						
18	33.886	342906	1.18	15.42	12-TRICOSANONE						
19	34.511	587580	2.02	24.01	DODECANOIC ACID, 1,2,3-PROPANETRIYL ESTER						
20	34.723	123133	0.42	10.56	Piperidine, 1-acetyl-	29016986	100.00				

4/05/2021

Quantitative Analysis Report

Sample Information

Analyzed by : Admin
Analyzed : 4/05/2021 11:15:15 AM
Sample Type : VCO (Prof. Hasanuddin Thahir)
Level # : 1
Sample Name : VCO (Prof. Hasanuddin Thahir)
Sample ID : VCO 3
IS Amount : [1]=1
Sample Amount : 1
Dilution Factor : 1
Vial # : 1
Injection Volume : 1.00
Data File : C:\GCMSsolution\Data\Project1\VCO 3i.QGD
Org Data File : C:\GCMSsolution\Data\Project1\VCO 3i.QGD
Method File : C:\GCMSsolution\Data\Project1\Octanoic Acid.qgm

Org Method File : C:\GCMSsolution\Data\Project1\asam lemak standar.qgm
 Report File :
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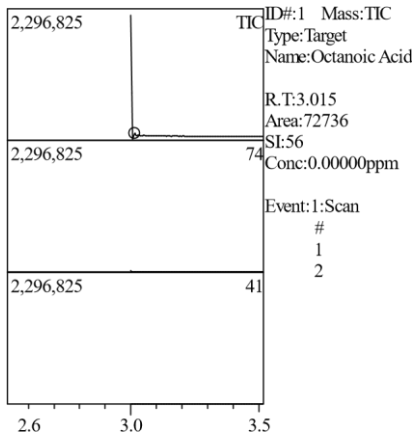
Quantitative Result Table

ID#	Name	Conc.	Conc.Unit	R.Time	m/z	Area	Height
1	Octanoic Acid	0.000	ppm	3.015	TIC	72736	100485

4/05/2021 Quantitative Analysis Report

Quantitation

Calibration



ID#:1 Mass:TIC
 Name:Octanoic
 Acid

f(x)=0.000000*x+0.000000 rr1=0.000000
 rr2=0.000000 MeanRF:0.00 RFSD:-- RFRSD:-
 CurveType:Least Square Method

ZeroThrough:Through

WeightedRegression:None External Standard

m/z Intensity Ratio

74.00 119 0.23

41.00 2912 5.49

cannot draw

4/05/2021

Quantitative Analysis Report

Sample Information

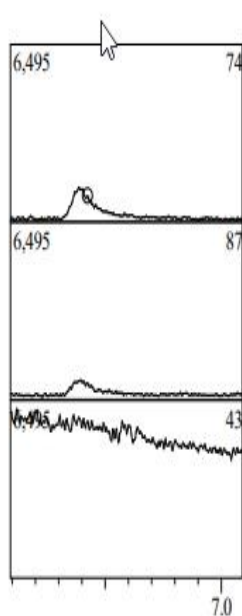
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 Analyzed : 4/05/2021 11:15:15 AM
 Sample Type : VCO (Prof. Hasanuddin Thahir)
 Level # : 1
 Sample Name : VCO 3
 Sample ID : VCO 3
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1.00
 Data File : C:\GCMSsolution\Data\Project1\VCO 3i.QGD
 Org Data File : C:\GCMSsolution\Data\Project1\VCO 3i.QGD
 Method File : C:\GCMSsolution\Data\Project1\LAURIC ACID.qgm
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 Report File :
 Tuning File : C:\GCMSsolution\System\Tune1\TUNING 18 DES.qgt
 Modified by : Admin
 Modified : 4/05/2021 11:50:58 AM

Quantitative Result Table

ID#	Name	Conc.	Conc.Unit	R.Time	m/z	Area	Height
1	DODECANOIC ACID, METHYLESTER	0.038	ppm	6.423	74.00	811	656
2	LAURIC ACID	51.7	percent				
3	FLAVONOID ACID	8.74	percent				
4	TOCOPHEROL	0.5	/100gr				

4/05/2021

Quantitative Analysis Report

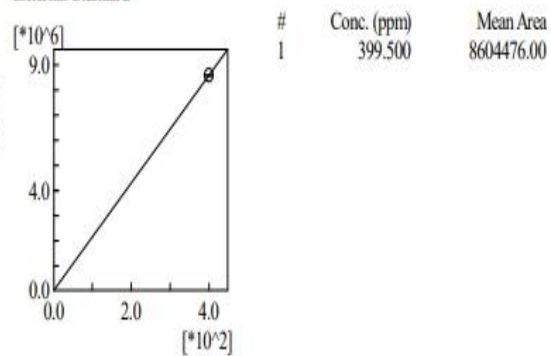


Quantitation
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Name:DODECANOIC ACID, METHYL ESTER
R.T:6.423
Area:811
SI:33
Conc:0.03765ppm

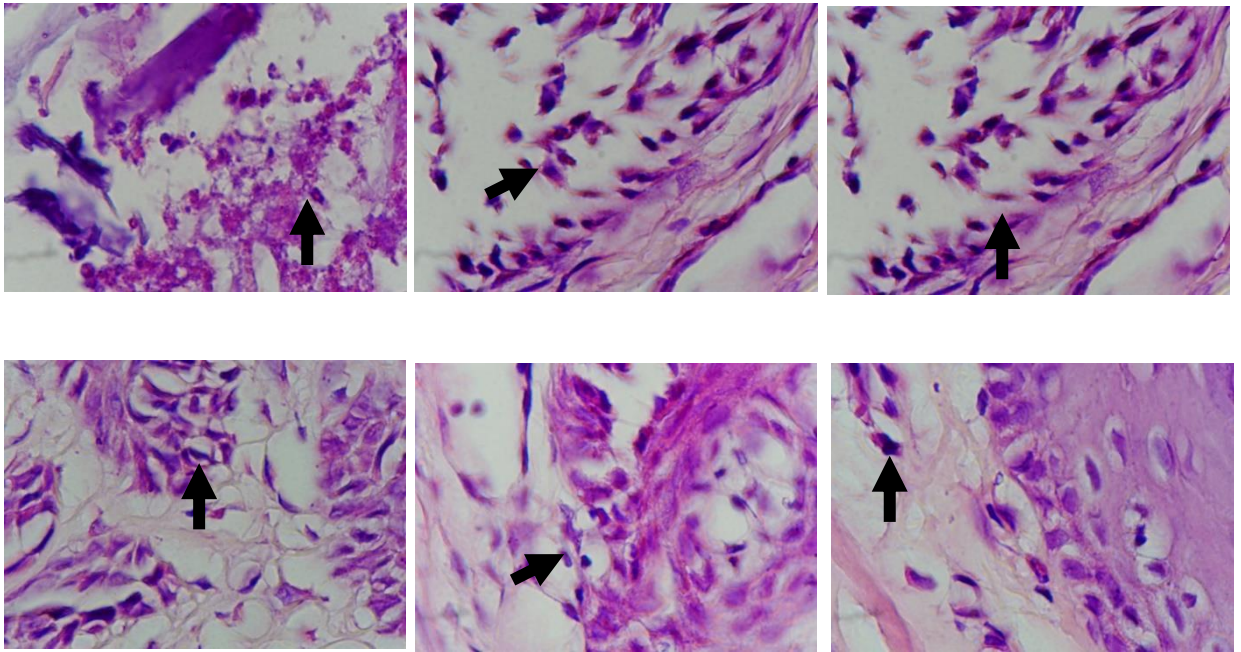
Event: 1:Scan

#	m/z	Intensity	Ratio
1	87.00	60	63.16
2	43.00	101	106.32

Calibration
ID#:1 Mass:74.00 Name:DODECANOIC ACID, METHYL ESTER
 $f(x)=21538.112641*x+0.000000$
 $r^2=1.000000$ $r^2=1.000000$
MeanRF:21538.11 RFS:- RFRSD:-
Curve Type:Least Square Method
Zero Through:Through
Weighted Regression:None
External Standard



4. Hasil Pemeriksaan Histologi



Pemeriksaan histologis Fibroblas 2 Agustus 2021

5. Hasil Analisa Data Penelitian

Oneway

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					K - (3)	5		
K + (3)	5	6,50	2,062	,922	3,94	9,06	4	9
P (3)	5	9,00	1,414	,632	7,24	10,76	7	11
Fibr K - (7)	5	5,75	1,299	,581	4,14	7,36	4	7
K + (7)	5	10,50	1,118	,500	9,11	11,89	9	12
P (7)	5	13,75	1,479	,661	11,91	15,59	12	16
Total	30	8,21	3,626	,662	6,85	9,56	2	16

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
	Between Groups	327,135	5	65,427	28,945	,000
Fibr	Within Groups	54,250	24	2,260		
	Total	381,385	29			

Post Hoc Tests

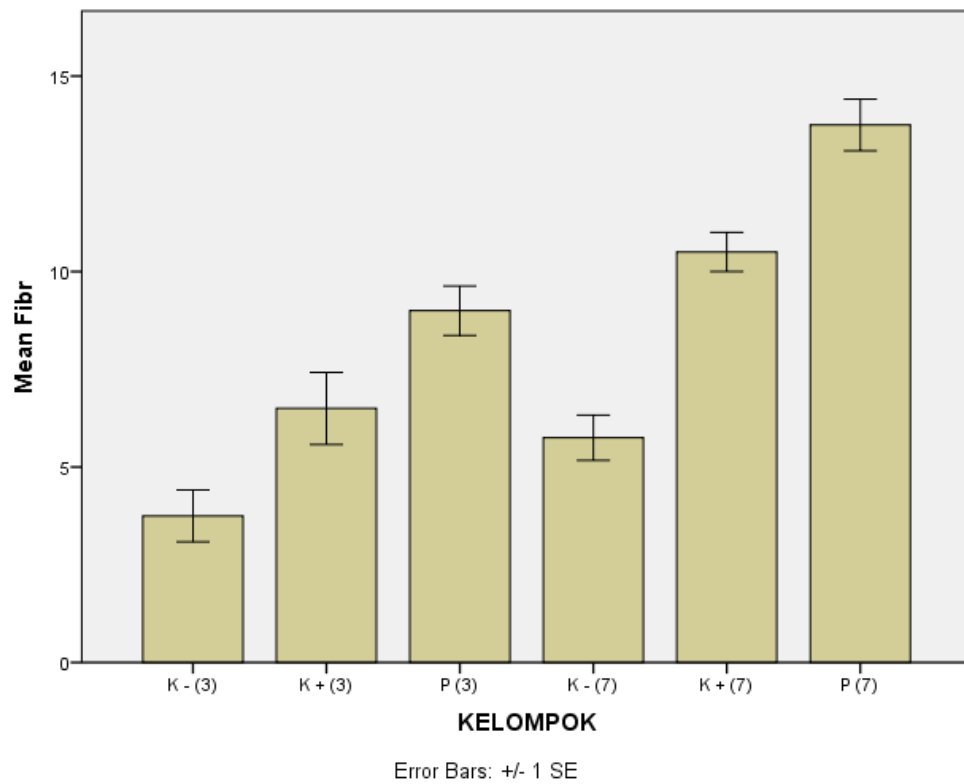
Multiple Comparisons

Tukey HSD

Dependent Variable	(I) KELOMPOK	(J) KELOMPOK	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
						Fibr	K - (3)
		P (3)	-5,250*	,951	,000	-8,19	-2,31
		K - (7)	-2,000	,951	,319	-4,94	,94
		K + (7)	-6,750*	,951	,000	-9,69	-3,81
		P (7)	-10,000*	,951	,000	-12,94	-7,06
		K - (3)	2,750	,951	,076	-,19	5,69
		P (3)	-2,500	,951	,129	-5,44	,44
	K + (3)	K - (7)	,750	,951	,967	-2,19	3,69
		K + (7)	-4,000*	,951	,004	-6,94	-1,06
		P (7)	-7,250*	,951	,000	-10,19	-4,31
		K - (3)	5,250*	,951	,000	2,31	8,19
		K + (3)	2,500	,951	,129	-,44	5,44
	P (3)	K - (7)	3,250*	,951	,024	,31	6,19
		K + (7)	-1,500	,951	,620	-4,44	1,44
		P (7)	-4,750*	,951	,001	-7,69	-1,81
		K - (3)	2,000	,951	,319	-,94	4,94
		K + (3)	-,750	,951	,967	-3,69	2,19
	K - (7)	P (3)	-3,250*	,951	,024	-6,19	-,31
		K + (7)	-4,750*	,951	,001	-7,69	-1,81
		P (7)	-8,000*	,951	,000	-10,94	-5,06
		K - (3)	6,750*	,951	,000	3,81	9,69
		K + (3)	4,000*	,951	,004	1,06	6,94
	K + (7)	P (3)	1,500	,951	,620	-1,44	4,44
		K - (7)	4,750*	,951	,001	1,81	7,69

	P (7)	-3,250*	,951	,024	-6,19	-,31
	K - (3)	10,000*	,951	,000	7,06	12,94
	K + (3)	7,250*	,951	,000	4,31	10,19
P (7)	P (3)	4,750*	,951	,001	1,81	7,69
	K - (7)	8,000*	,951	,000	5,06	10,94
	K + (7)	3,250*	,951	,024	,31	6,19

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



Homogeneous Subsets

Fibr

Tukey HSD^a

KELOMPOK	N	Subset for alpha = 0.05			
		1	2	3	4
K - (3)	5	3,75			
K - (7)	5	5,75			
K + (3)	5	6,50	6,50		
P (3)	5		9,00	9,00	
K + (7)	5			10,50	
P (7)	5				13,75
Sig.		,076	,129	,620	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

	KELOMPOK	Col	Makr	Fibr	TGFB1	TNFalpha	var	var	var	var	var	var
1	1	201,66	3	3	5	5						
2	1	197,94	2	4	2	3						
3	1	218,03	3	2	7	2						
4	1	194,67	5	6	4	7						
5	1	203,08	3	4	5	4						
6	2	250,39	7	9	5	4						
7	2	197,98	5	5	9	7						
8	2	276,90	9	4	7	9						
9	2	207,59	7	8	9	5						
10	2	233,22	7	7	8	6						
11	3	285,94	11	7	11	11						
12	3	254,29	5	9	6	9						
13	3	227,54	9	11	9	10						
14	3	218,66	7	9	10	12						
15	3	246,61	8	9	9	11						
16	4	197,45	5	7	7	6						
17	4	186,98	8	4	9	4						
18	4	208,65	5	7	10	7						
19	4	243,98	4	5	6	4						
20	4	209,27	6	6	8	5						
21	5	207,88	9	9	11	9						
22	5	296,86	11	11	9	7						

Explore

Notes		
Output Created		01-MAR-2022 09:03:34
Comments		
Input	Data	C:\Users\Panasonic\Documents\afdalia.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used. EXAMINE VARIABLES=Col Makr Fibr TGFb1 TNFalpha BY KELOMPOK
Syntax		/PLOT NPLOT /STATISTICS DESCRIPTIVES /INTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:27,91
	Elapsed Time	00:00:40,75

[DataSet1] C:\Users\Panasonic\Documents\afdalia.sav

KELOMPOK

Case Processing Summary

	KELOMPOK	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Fibr	K - (3)	5	100,0%	0	0,0%	5	100,0%
	K + (3)	5	100,0%	0	0,0%	5	100,0%
	P (3)	5	100,0%	0	0,0%	5	100,0%
	K - (7)	5	100,0%	0	0,0%	5	100,0%
	K + (7)	5	100,0%	0	0,0%	5	100,0%
	P (7)	5	100,0%	0	0,0%	5	100,0%

Descriptives

	KELOMPOK	Statistic	Std. Error
Fibr	Mean	3,75	,661
	95% Confidence Interval for Mean	Lower Bound	1,91
		Upper Bound	5,59
	5% Trimmed Mean	3,72	
	Median	3,75	
	Variance	2,188	
	Std. Deviation	1,479	
	Minimum	2	
	Maximum	6	
	Range	4	
	Interquartile Range	3	
	Skewness	,724	,913
	Kurtosis	1,229	2,000
	Mean	6,50	,922
	95% Confidence Interval for Mean	Lower Bound	3,94
		Upper Bound	9,06
5% Trimmed Mean	6,50		
Median	6,50		

		Variance		4,250	
		Std. Deviation		2,062	
		Minimum		4	
		Maximum		9	
		Range		5	
		Interquartile Range		4	
		Skewness		,000	,913
		Kurtosis		-1,893	2,000
		Mean		9,00	,632
		95% Confidence Interval for	Lower Bound	7,24	
		Mean	Upper Bound	10,76	
		5% Trimmed Mean		9,00	
		Median		9,00	
		Variance		2,000	
P (3)		Std. Deviation		1,414	
		Minimum		7	
		Maximum		11	
		Range		4	
		Interquartile Range		2	
		Skewness		,000	,913
		Kurtosis		2,000	2,000
		Mean		5,75	,581
		95% Confidence Interval for	Lower Bound	4,14	
		Mean	Upper Bound	7,36	
		5% Trimmed Mean		5,78	
		Median		5,75	
		Variance		1,688	
K - (7)		Std. Deviation		1,299	
		Minimum		4	
		Maximum		7	
		Range		3	
		Interquartile Range		3	
		Skewness		-,356	,913
		Kurtosis		-1,601	2,000
		Mean		10,50	,500
K + (7)		95% Confidence Interval for	Lower Bound	9,11	
		Mean	Upper Bound	11,89	

	5% Trimmed Mean		10,50	
	Median		10,50	
	Variance		1,250	
	Std. Deviation		1,118	
	Minimum		9	
	Maximum		12	
	Range		3	
	Interquartile Range		2	
	Skewness		,000	,913
	Kurtosis		,200	2,000
	Mean		13,75	,661
	95% Confidence Interval for Mean	Lower Bound	11,91	
		Upper Bound	15,59	
	5% Trimmed Mean		13,72	
	Median		13,75	
	Variance		2,188	
P (7)	Std. Deviation		1,479	
	Minimum		12	
	Maximum		16	
	Range		4	
	Interquartile Range		3	
	Skewness		,724	,913
	Kurtosis		1,229	2,000

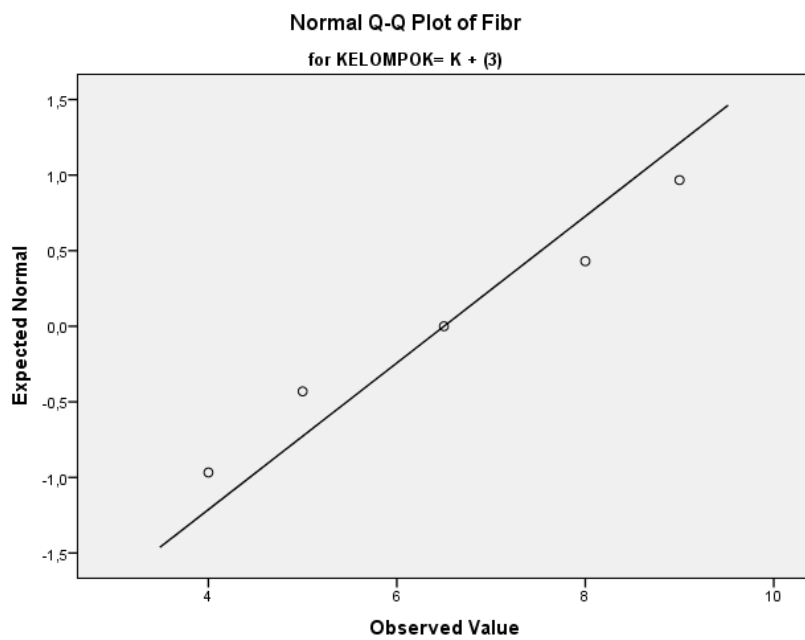
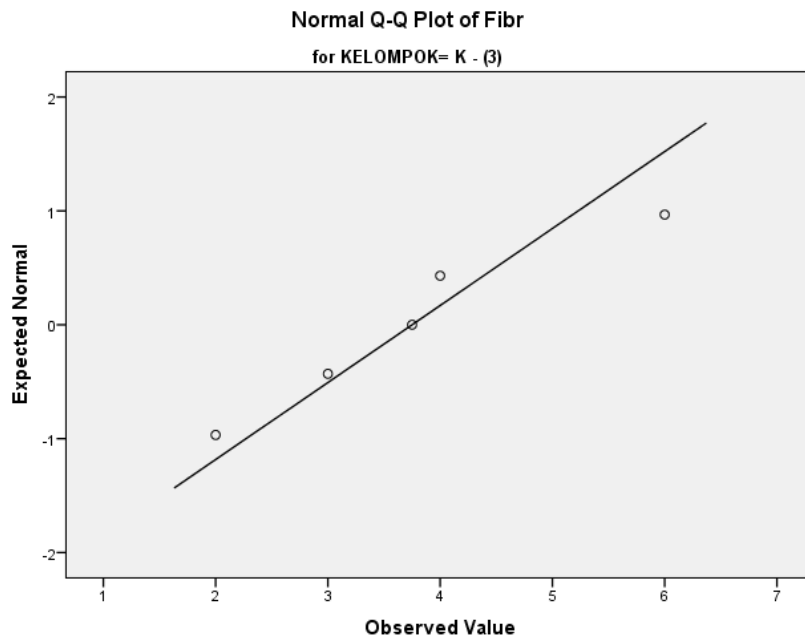
Tests of Normality

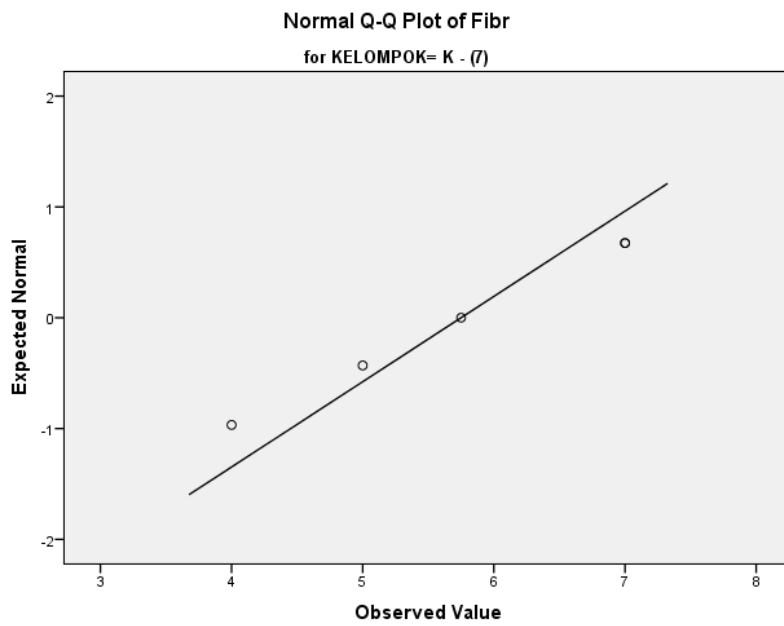
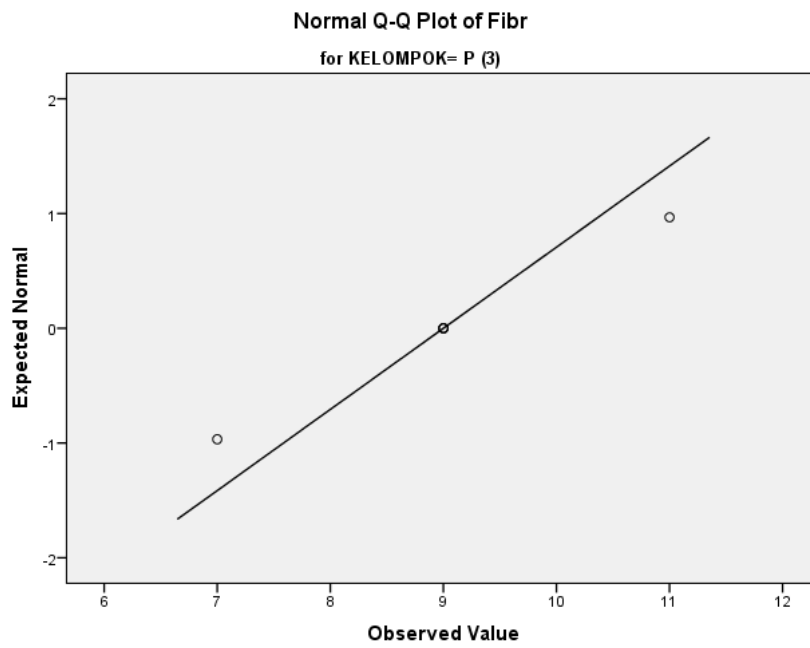
	KELOMPOK	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Fibr	K - (3)	,233	5	,200*	,961	5	,816
	K + (3)	,167	5	,200*	,964	5	,832
	P (3)	,300	5	,161	,883	5	,325
	K - (7)	,232	5	,200*	,909	5	,460
	K + (7)	,127	5	,200*	,999	5	1,000
	P (7)	,233	5	,200*	,961	5	,816

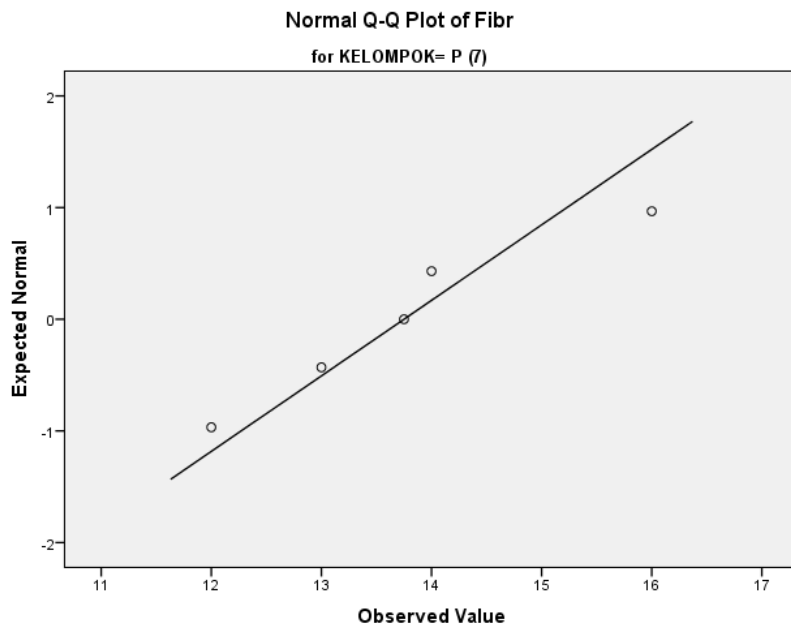
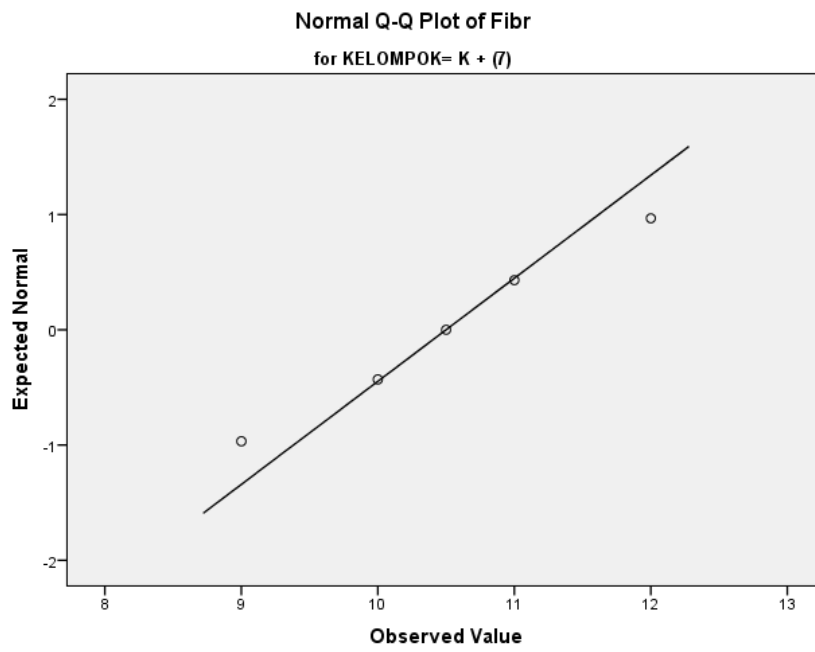
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Fibr Normal Q-Q Plots







Detrended Normal Q-Q Plots

