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LAMPIRAN

Lampiran 1 Persetujuan Etik

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 3 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.
Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK
Nomor : 300/UN4.6.4.5.31/PP36/2020

Tanggal: 8 Juni 2020

Dengan Ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH20050201	No Sponsor Protokol	
Peneliti Utama	**dr. Armanto Makmun, M.Kes**	Sponsor	
Judul Peneliti	Efek Pemberian Ekstrak Beras Hitam (Oryza Sativa L.) Pada Subyek Obesitas Terhadap Kadar Lipopolisakarida (LPS) dan Kadar Tight Junction Protein-1 (ZO-1) serta Ekspresi Mikrobiota Gram Negatif Usus		
No Versi Protokol	**2**	Tanggal Versi	**29 Mei 2020**
No Versi PSP	**2**	Tanggal Versi	**29 Mei 2020**
Tempat Penelitian	**Hasanuddin University Medical Research Center, Laboratorium Penelitian Fakultas Kedokteran UMI dan Prodia Makassar**		
Jenis Review	☐ Exempted ☐ Expedited ☒ Fullboard **13 Mei 2020**	Masa Berlaku **8 Juni 2020** Sampai **8 Juni 2021**	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian Kesehatan FK UH	Nama **Prof.Dr.dr.Suryani As'ad.,MSc,Sp.GK (K)**	Tanda tangan	Tanggal
Sekretaris Komisi Etik Penelitian Kesehatan FK UH	Nama **dr. Agussalim Bukhari,M.Med,PhD,Sp.GK (K)**	Tanda tangan	Tanggal

Kewajiban Peneliti Utama:
- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- 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 prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

Lampiran 2 Surat Keterangan Izin Penelitian

RUMAH SAKIT UNHAS	SURAT IZIN PENELITIAN	
	Nomor: 6301/UN4.24.1.2/PT.01.04/2021	**Tanggal** 17 Juni 2021
FORMULIR 2 **BIDANG PENELITIAN DAN INOVASI**	Kepada Yth **Kepala Ruang Laboratorium Penelitian**	

Dengan hormat,

Dengan ini menerangkan bahwa peneliti/ mahasiswa berikut ini:

Nama	: dr. Armanto Makmun, M.Kes
NIM / NIP	: C013172007
Institusi	: Program Doktor Ilmu Kedokteran, Fakultas Kedokteran, Universitas Hasanuddin Makassar
Kode penelitian	: 210617_1

Akan melakukan pengambilan data/ analisa bahan hayati:

Terhitung	: 17 Juni 2021 s/d 17 September 2021
Jumlah Subjek/Sample	: 30
Jenis Data	: Data Primer: Elisa

Untuk penelitian dengan judul:

"Efek pemberian Ekstrak Beras hitam (Oryza sativa L) pada Subyek Obesitas terhadap kadar Lipopolisakarida (LPS) dan kadar Tight Junction Protein-1 (ZO-1) serta ekspresi Mikrobiota gram negatif usus"

Harap dilakukan pembimbingan dan pendampingan seperlunya.

Kepala Bidang Penelitian dan Inovasi

dr. Muh. Firdaus Kasim, M.Sc
NIP 198412012018073001

Catatan: Lembaran ini diarsipkan oleh Bidang Penelitian dan Inovasi

Lampiran 3 *Out put* Data SPSS

```
GET
  FILE='C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
EXAMINE VARIABLES=ZO1_PRE ZO1_POST LPS_PRE LPS_POST PERUBAHAN_ZO1
PERUBAHAN_LPS BY KLP_SAMPEL
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		29-JAN-2022 14:07:25
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.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.
Syntax		EXAMINE VARIABLES=ZO1_PRE ZO1_POST LPS_PRE LPS_POST PERUBAHAN_ZO1 PERUBAHAN_LPS BY KLP_SAMPEL /PLOT BOXPLOT STEMLEAF NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:05,37

Elapsed Time	00:00:05,16

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

KLP_SAMPEL

Case Processing Summary

	KLP_SAMPEL	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
ZO1_PRE	NORMAL	10	100.0%	0	0.0%	10	100.0%
	OBESITAS	10	100.0%	0	0.0%	10	100.0%
	INTERVENSI	10	100.0%	0	0.0%	10	100.0%

	NORMAL	10	100.0%	0	0.0%	10	100.0%
ZO1_POST	OBESITAS	10	100.0%	0	0.0%	10	100.0%
	INTERVENSI	10	100.0%	0	0.0%	10	100.0%
	NORMAL	10	100.0%	0	0.0%	10	100.0%
LPS_PRE	OBESITAS	10	100.0%	0	0.0%	10	100.0%
	INTERVENSI	10	100.0%	0	0.0%	10	100.0%
	NORMAL	10	100.0%	0	0.0%	10	100.0%
LPS_POST	OBESITAS	10	100.0%	0	0.0%	10	100.0%
	INTERVENSI	10	100.0%	0	0.0%	10	100.0%
	NORMAL	10	100.0%	0	0.0%	10	100.0%
PERUBAHAN_ZO1	OBESITAS	10	100.0%	0	0.0%	10	100.0%
	INTERVENSI	10	100.0%	0	0.0%	10	100.0%
	NORMAL	10	100.0%	0	0.0%	10	100.0%
PERUBAHAN_LPS	OBESITAS	10	100.0%	0	0.0%	10	100.0%
	INTERVENSI	10	100.0%	0	0.0%	10	100.0%

Descriptives

	KLP_SAMPEL			Statistic	Std. Error
ZO1_PRE	NORMAL	Mean		12.0470	1.32533
		95% Confidence Interval for Mean	Lower Bound	9.0489	
			Upper Bound	15.0451	
		5% Trimmed Mean		12.1666	
		Median		13.0518	
		Variance		17.565	
		Std. Deviation		4.19105	
		Minimum		4.63	
		Maximum		17.31	
		Range		12.69	

	Interquartile Range		6.73	
	Skewness		-.823	.687
	Kurtosis		-.352	1.334
	Mean		25.8305	5.73690
	95% Confidence Interval for Mean	Lower Bound	12.8527	
		Upper Bound	38.8083	
	5% Trimmed Mean		24.5005	
	Median		17.6621	
OBESITAS	Variance		329.120	
	Std. Deviation		18.14167	
	Minimum		10.90	
	Maximum		64.70	
	Range		53.80	
	Interquartile Range		22.34	

		Skewness		1.555	.687
		Kurtosis		1.349	1.334
		Mean		24.1367	3.94418
		95% Confidence Interval for Mean	Lower Bound	15.2143	
			Upper Bound	33.0590	
		5% Trimmed Mean		23.7065	
		Median		26.1951	
		Variance		155.565	
	INTERVENSI	Std. Deviation		12.47258	
		Minimum		7.10	
		Maximum		48.91	
		Range		41.81	
		Interquartile Range		18.68	
		Skewness		.390	.687

		Kurtosis		.562	1.334
		Mean		14.5957	2.54219
		95% Confidence Interval for Mean	Lower Bound	8.8449	
			Upper Bound	20.3466	
		5% Trimmed Mean		14.1946	
		Median		11.6631	
		Variance		64.627	
ZO1_POST	NORMAL	Std. Deviation		8.03911	
		Minimum		5.54	
		Maximum		30.87	
		Range		25.33	
		Interquartile Range		12.37	
		Skewness		1.114	.687
		Kurtosis		.376	1.334
	OBESITAS	Mean		19.5348	3.70778

	95% Confidence Interval for Mean	Lower Bound	11.1472	
		Upper Bound	27.9224	
	5% Trimmed Mean		18.8357	
	Median		17.5373	
	Variance		137.476	
	Std. Deviation		11.72502	
	Minimum		6.96	
	Maximum		44.69	
	Range		37.73	
	Interquartile Range		15.93	
	Skewness		1.257	.687
	Kurtosis		1.274	1.334
	Mean		13.1659	2.52588
INTERVENSI	95% Confidence Interval for Mean	Lower Bound	7.4520	
		Upper Bound	18.8799	

		5% Trimmed Mean		12.8071	
		Median		11.1231	
		Variance		63.801	
		Std. Deviation		7.98754	
		Minimum		1.89	
		Maximum		30.90	
		Range		29.02	
		Interquartile Range		9.06	
		Skewness		1.192	.687
		Kurtosis		2.089	1.334
LPS_PRE	NORMAL	Mean		229.1898	49.45937
		95% Confidence Interval for Mean	Lower Bound	117.3050	
			Upper Bound	341.0747	
		5% Trimmed Mean		218.5968	
		Median		183.5804	

	Variance		24462.291	
	Std. Deviation		156.40426	
	Minimum		48.43	
	Maximum		600.62	
	Range		552.19	
	Interquartile Range		178.80	
	Skewness		1.621	.687
	Kurtosis		3.157	1.334
	Mean		330.8464	84.42828
	95% Confidence Interval for Mean	Lower Bound	139.8564	
		Upper Bound	521.8364	
OBESITAS	5% Trimmed Mean		319.8343	
	Median		208.1717	
	Variance		71281.349	
	Std. Deviation		266.98567	

	Minimum		35.38	
	Maximum		824.53	
	Range		789.14	
	Interquartile Range		333.11	
	Skewness		1.184	.687
	Kurtosis		.255	1.334
	Mean		303.6017	64.06552
	95% Confidence Interval for Mean	Lower Bound	158.6755	
		Upper Bound	448.5280	
	5% Trimmed Mean		290.2902	
INTERVENSI	Median		212.4199	
	Variance		41043.913	
	Std. Deviation		202.59297	
	Minimum		114.83	
	Maximum		731.99	

		Range		617.16	
		Interquartile Range		319.14	
		Skewness		1.232	.687
		Kurtosis		.772	1.334
		Mean		178.2364	22.14220
		95% Confidence Interval for Mean	Lower Bound	128.1473	
			Upper Bound	228.3256	
		5% Trimmed Mean		176.7268	
		Median		149.7401	
LPS_POST	NORMAL	Variance		4902.772	
		Std. Deviation		70.01979	
		Minimum		101.55	
		Maximum		282.09	
		Range		180.54	
		Interquartile Range		131.32	

	Skewness		.532	.687
	Kurtosis		-1.441	1.334
	Mean		294.5201	110.97568
	95% Confidence Interval for Mean	Lower Bound	43.4757	
		Upper Bound	545.5646	
	5% Trimmed Mean		249.3313	
	Median		167.5762	
	Variance		123156.009	
OBESITAS	Std. Deviation		350.93590	
	Minimum		125.24	
	Maximum		1277.20	
	Range		1151.96	
	Interquartile Range		138.12	
	Skewness		2.984	.687
	Kurtosis		9.122	1.334

		Mean		132.1457	13.80268
		95% Confidence Interval for Mean	Lower Bound	100.9219	
			Upper Bound	163.3695	
		5% Trimmed Mean		130.4512	
		Median		122.8203	
		Variance		1905.141	
	INTERVENSI	Std. Deviation		43.64792	
		Minimum		76.81	
		Maximum		217.99	
		Range		141.18	
		Interquartile Range		61.48	
		Skewness		.890	.687
		Kurtosis		.265	1.334
PERUBAHAN_ZO1	NORMAL	Mean		2.5487	2.52545
		95% Confidence Interval for	Lower Bound	-3.1643	

	Mean	Upper Bound	8.2617	
	5% Trimmed Mean		2.3869	
	Median		.4751	
	Variance		63.779	
	Std. Deviation		7.98618	
	Minimum		-7.60	
	Maximum		15.61	
	Range		23.21	
	Interquartile Range		14.43	
	Skewness		.624	.687
	Kurtosis		-.972	1.334
OBESITAS	Mean		-6.2957	7.37566
	95% Confidence Interval for Mean	Lower Bound	-22.9806	
		Upper Bound	10.3892	
	5% Trimmed Mean		-5.3040	

INTERVENSI	Median		-1.0075	
	Variance		544.003	
	Std. Deviation		23.32387	
	Minimum		-54.90	
	Maximum		24.46	
	Range		79.35	
	Interquartile Range		29.49	
	Skewness		-1.016	.687
	Kurtosis		.983	1.334
	Mean		-10.9708	4.58018
	95% Confidence Interval for Mean	Lower Bound	-21.3318	
		Upper Bound	-.6097	
	5% Trimmed Mean		-10.4653	
	Median		-9.2618	
	Variance		209.780	

		Std. Deviation		14.48379	
		Minimum		-40.37	
		Maximum		9.34	
		Range		49.71	
		Interquartile Range		17.39	
		Skewness		-.793	.687
		Kurtosis		.628	1.334
		Mean		-50.9534	57.21669
		95% Confidence Interval for Mean	Lower Bound	-180.3865	
			Upper Bound	78.4798	
PERUBAHAN_LPS	NORMAL	5% Trimmed Mean		-34.8995	
		Median		-6.6139	
		Variance		32737.498	
		Std. Deviation		180.93507	

OBESITAS	Minimum		-499.07	
	Maximum		108.19	
	Range		607.26	
	Interquartile Range		165.13	
	Skewness		-1.994	.687
	Kurtosis		4.230	1.334
	Mean		-36.3263	148.05499
	95% Confidence Interval for Mean	Lower Bound	-371.2499	
		Upper Bound	298.5974	
	5% Trimmed Mean		-69.8633	
	Median		-68.9458	
	Variance		219202.814	
	Std. Deviation		468.19100	
	Minimum		-598.20	

	Maximum		1129.21	
	Range		1727.41	
	Interquartile Range		339.85	
	Skewness		1.758	.687
	Kurtosis		4.722	1.334
	Mean		-171.4561	69.53870
	95% Confidence Interval for Mean	Lower Bound	-328.7635	
		Upper Bound	-14.1486	
	5% Trimmed Mean		-156.8468	
INTERVENSI	Median		-70.8454	
	Variance		48356.305	
	Std. Deviation		219.90067	
	Minimum		-628.11	
	Maximum		22.23	

Range	650.34	
Interquartile Range	360.61	
Skewness	-1.238	.687
Kurtosis	.498	1.334

Tests of Normality

	KLP_SAMPEL	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
ZO1_PRE	NORMAL	.253	10	.070	.906	10	.254
	OBESITAS	.321	10	.004	.764	10	.005
	INTERVENSI	.233	10	.134	.900	10	.217
ZO1_POST	NORMAL	.245	10	.092	.883	10	.140
	OBESITAS	.231	10	.140	.883	10	.141
	INTERVENSI	.245	10	.090	.899	10	.215

	NORMAL	.224	10	.170	.852	10	.062
LPS_PRE	OBESITAS	.250	10	.075	.831	10	.035
	INTERVENSI	.257	10	.061	.855	10	.067
	NORMAL	.212	10	.200*	.876	10	.118
LPS_POST	OBESITAS	.367	10	.000	.508	10	.000
	INTERVENSI	.188	10	.200*	.935	10	.497
	NORMAL	.195	10	.200*	.912	10	.296
PERUBAHAN_ZO1	OBESITAS	.221	10	.181	.929	10	.440
	INTERVENSI	.170	10	.200*	.945	10	.612
	NORMAL	.267	10	.042	.774	10	.007
PERUBAHAN_LPS	OBESITAS	.284	10	.022	.804	10	.016
	INTERVENSI	.263	10	.049	.826	10	.030

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

a. Lilliefors Significance Correction

ZO1_PRE

Stem-and-Leaf Plots

ZO1_PRE Stem-and-Leaf Plot for

KLP_SAMPEL= NORMAL

Frequency	Stem & Leaf
1,00	0 . 4
2,00	0 . 59
5,00	1 . 22344
2,00	1 . 57

Stem width: 10,00

Each leaf: 1 case(s)

ZO1_PRE Stem-and-Leaf Plot for

KLP_SAMPEL= OBESITAS

```
Frequency    Stem &  Leaf

    6,00       1 .  034668
    1,00       2 .  0
    1,00       3 .  1
     ,00       4 .
    1,00       5 .  1
    1,00 Extremes    (>=65)
```

Stem width: 10,00

Each leaf: 1 case(s)

ZO1_PRE Stem-and-Leaf Plot for

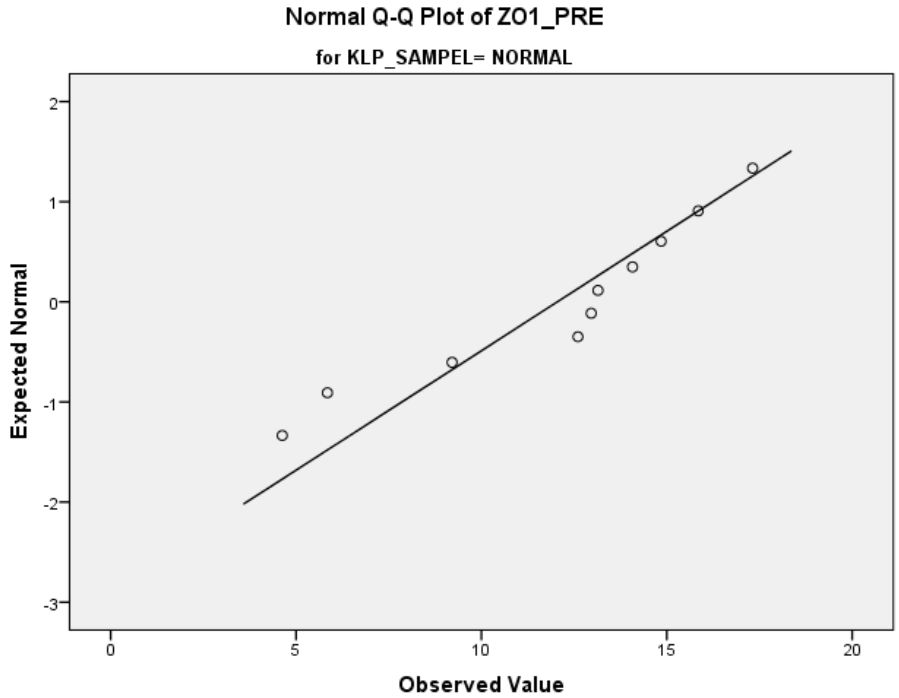
KLP_SAMPEL= INTERVENSI

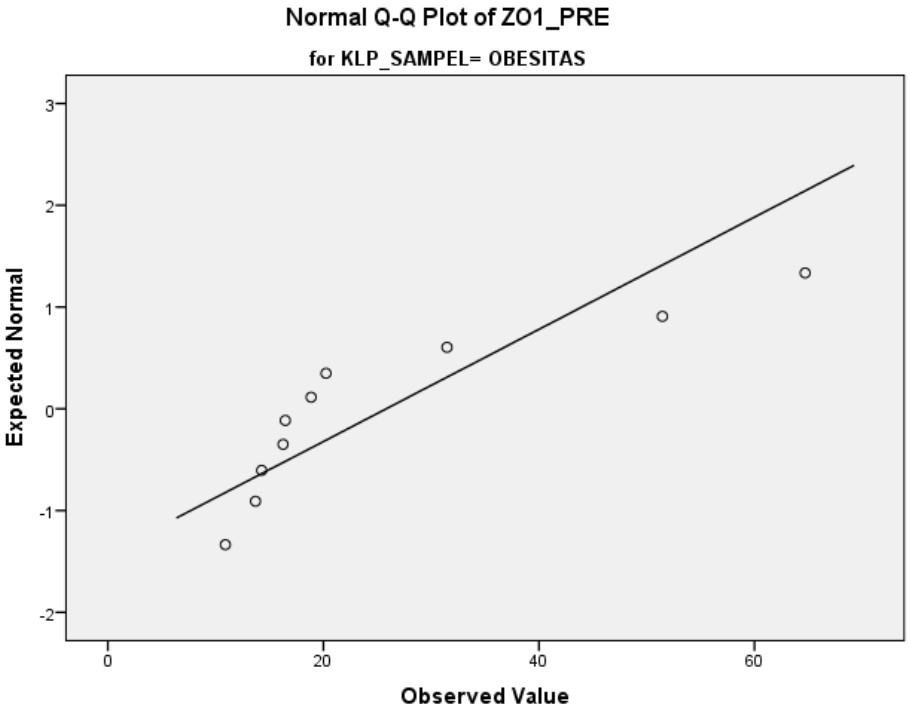
Frequency	Stem & Leaf
2,00	0 . 79
1,00	1 . 0
5,00	2 . 55677
1,00	3 . 2
1,00	4 . 8

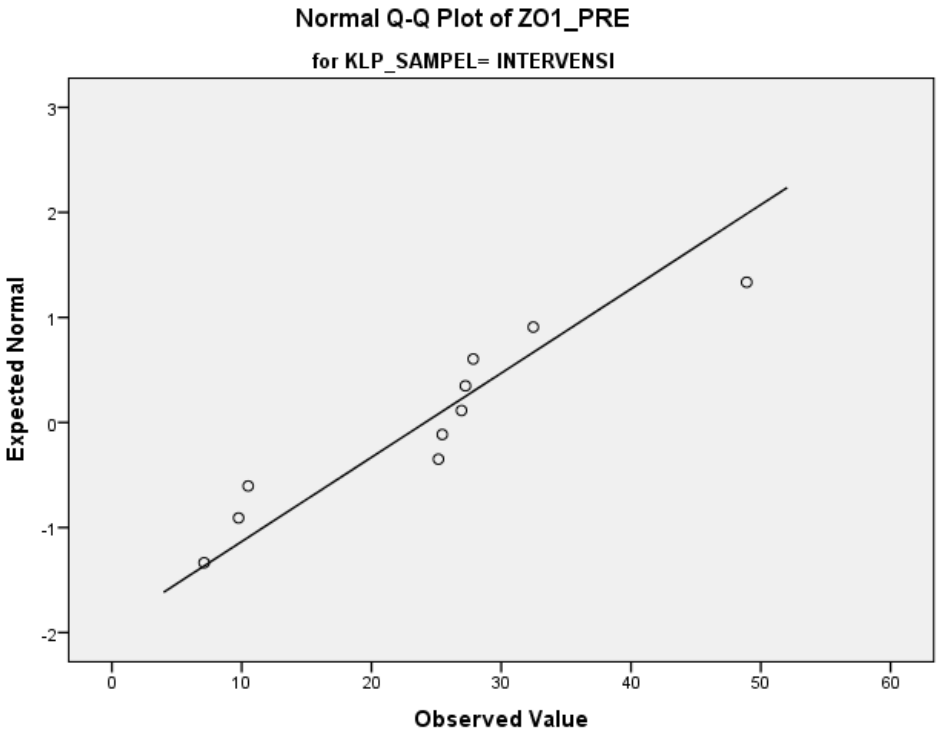
Stem width: 10,00

Each leaf: 1 case(s)

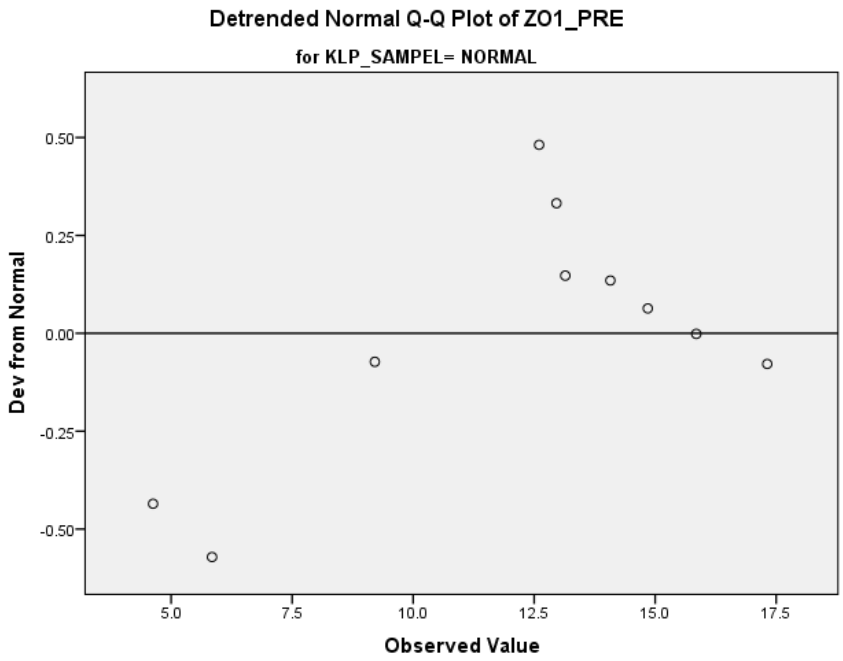
Normal Q-Q Plots

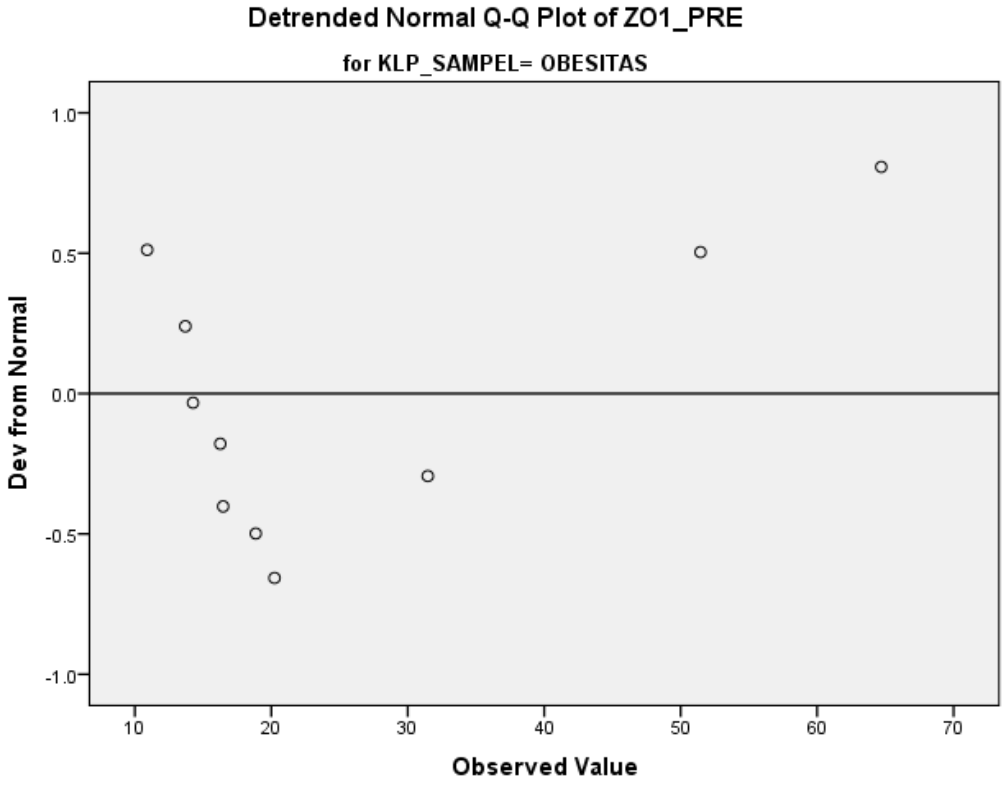


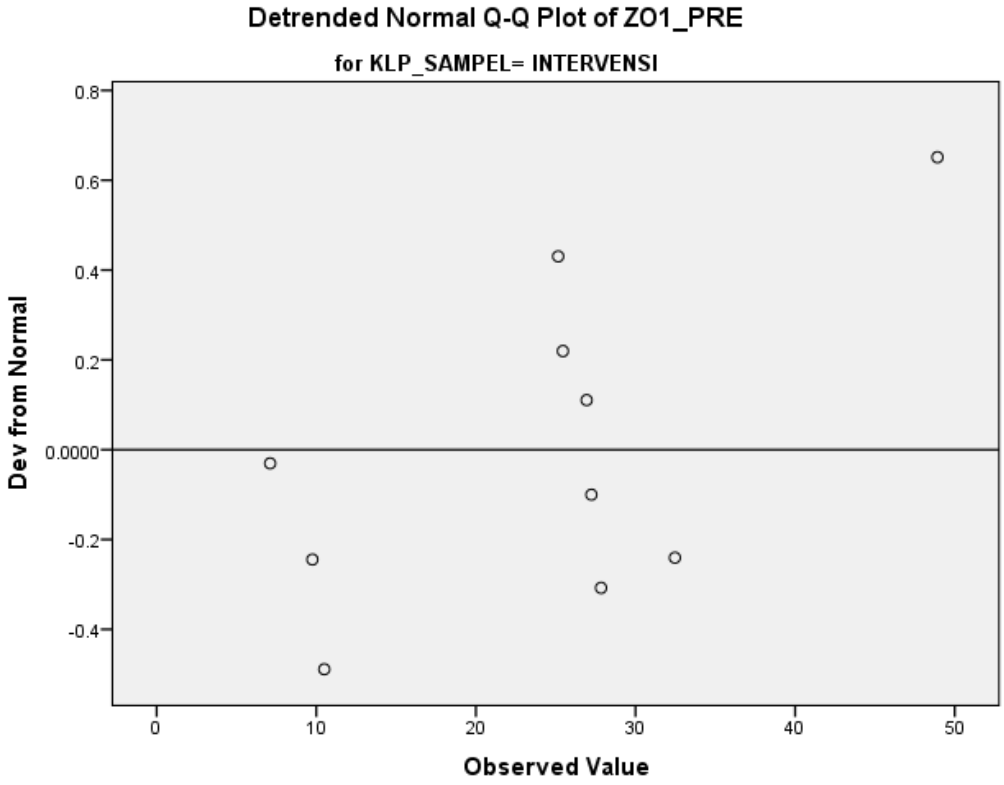

Normal Q-Q Plot of ZO1_PRE
for KLP_SAMPEL= OBESITAS
Expected Normal
Observed Value
3
2
1
0
-1
-2
0
20
40
60

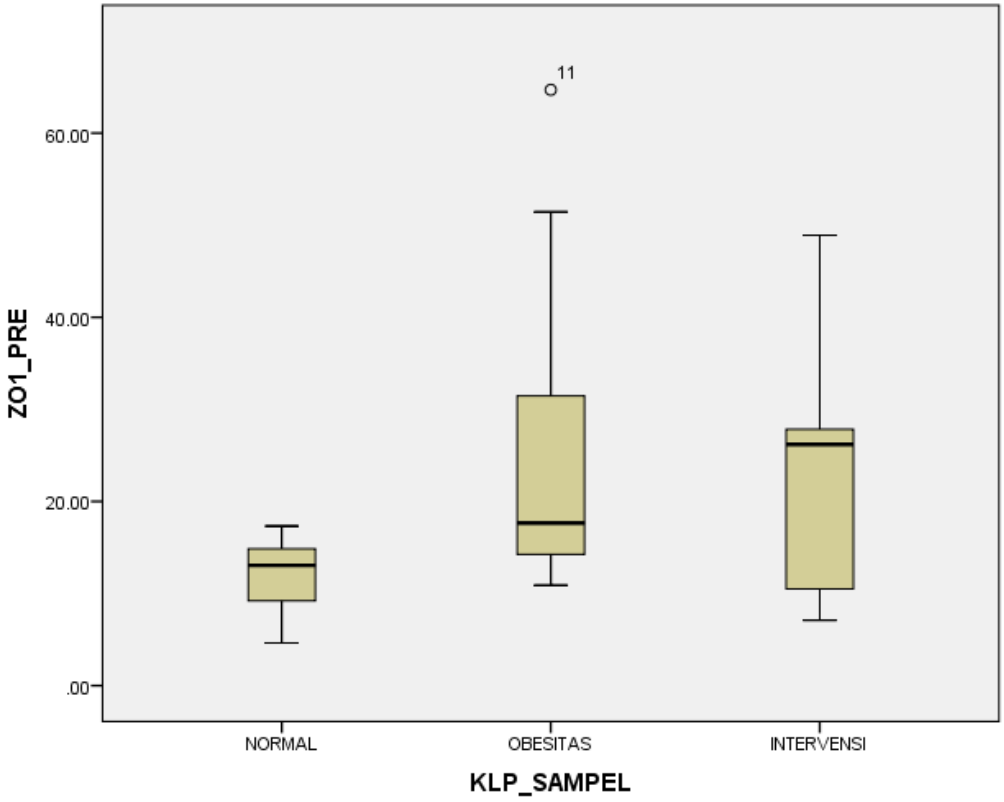

Normal Q-Q Plot of ZO1_PRE
for KLP_SAMPEL= INTERVENSI
Expected Normal
Observed Value
3
2
1
0
-1
-2
0
10
20
30
40
50
60

Detrended Normal Q-Q Plots




Detrended Normal Q-Q Plot of ZO1_PRE
for KLP_SAMPEL= OBESITAS
Dev from Normal
1.0
0.5
0.0
-0.5
-1.0
10
20
30
40
50
60
70
Observed Value


Detrended Normal Q-Q Plot of ZO1_PRE
for KLP_SAMPEL= INTERVENSI
Dev from Normal
0.8
0.6
0.4
0.2
0.0000
-0.2
-0.4
0
10
20
30
40
50
Observed Value


11
60.00
40.00
20.00
.00
ZO1_PRE
NORMAL
OBESITAS
INTERVENSI
KLP_SAMPEL

ZO1_POST

Stem-and-Leaf Plots

ZO1_POST Stem-and-Leaf Plot for

KLP_SAMPEL= NORMAL

Frequency	Stem & Leaf
3,00	0 . 589
4,00	1 . 0023
2,00	2 . 04
1,00	3 . 0

Stem width: 10,00

Each leaf: 1 case(s)

ZO1_POST Stem-and-Leaf Plot for

KLP_SAMPEL= OBESITAS

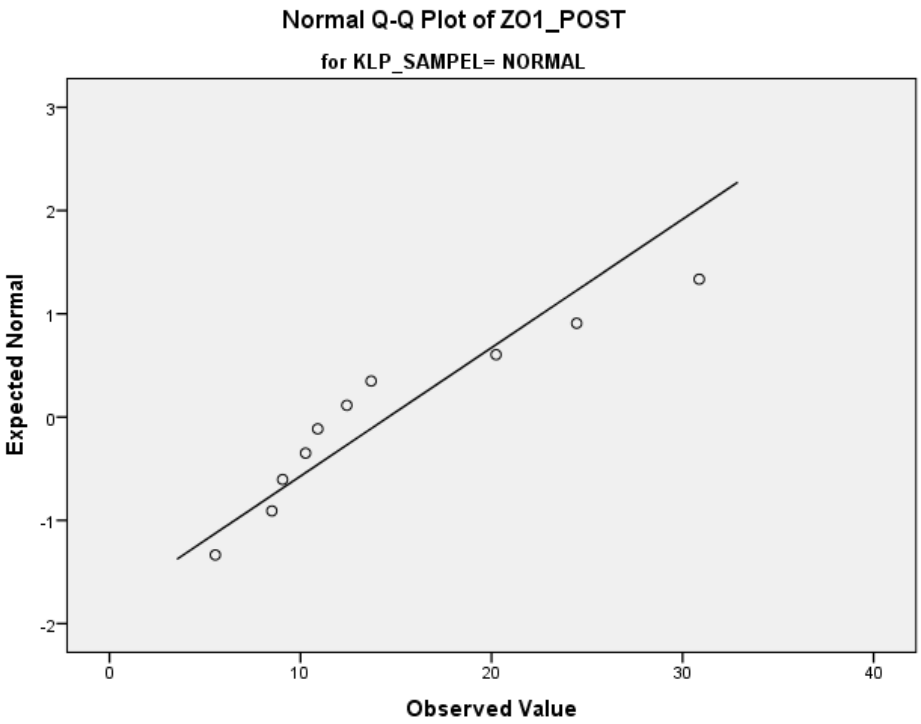
```
 Frequency    Stem &  Leaf

    3,00       0 .  699

    4,00       1 .  4688

    1,00       2 .  2

    1,00       3 .  3

    1,00 Extremes    (>=45)

 Stem width:     10,00

 Each leaf:       1 case(s)
```

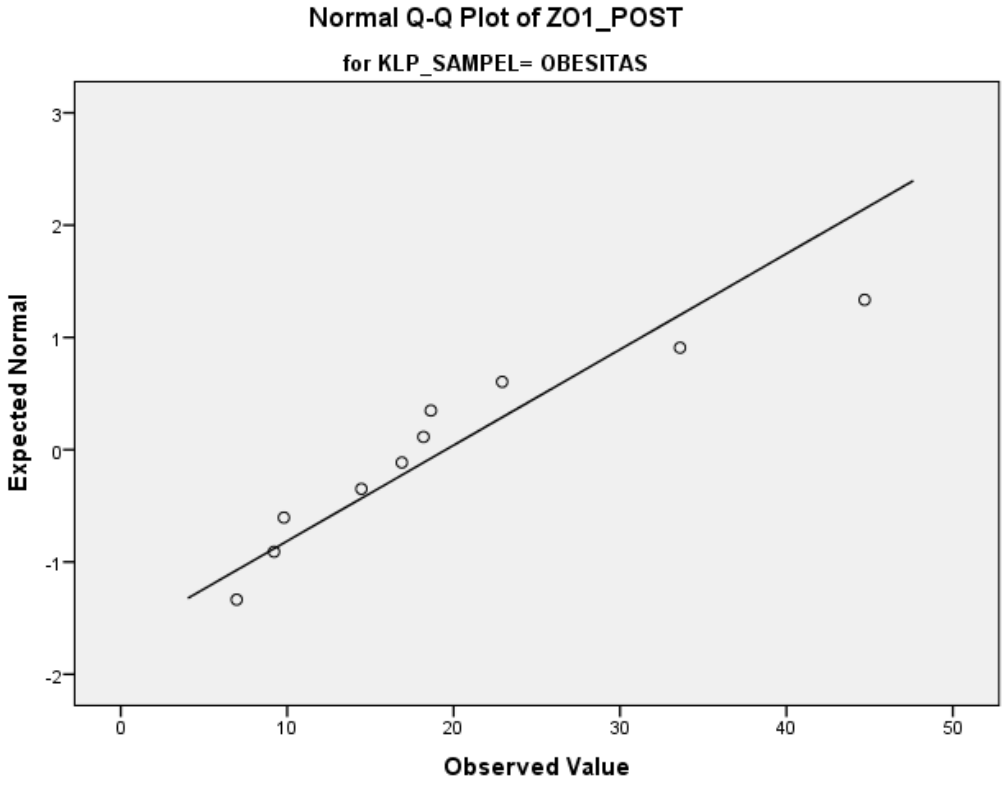
ZO1_POST Stem-and-Leaf Plot for

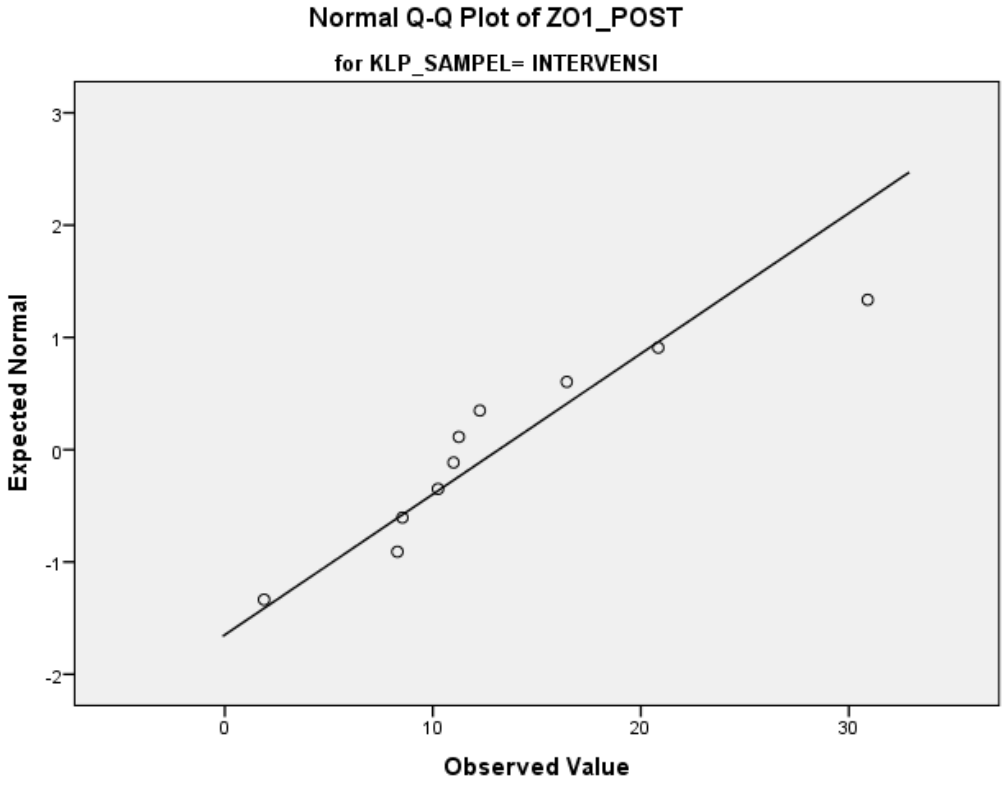
KLP_SAMPEL= INTERVENSI

```
 Frequency    Stem &  Leaf

    1,00       0 .  1
    2,00       0 .  88
    4,00       1 .  0012
    1,00       1 .  6
    1,00       2 .  0
    1,00 Extremes    (>=31)

 Stem width:     10,00
 Each leaf:       1 case(s)
```

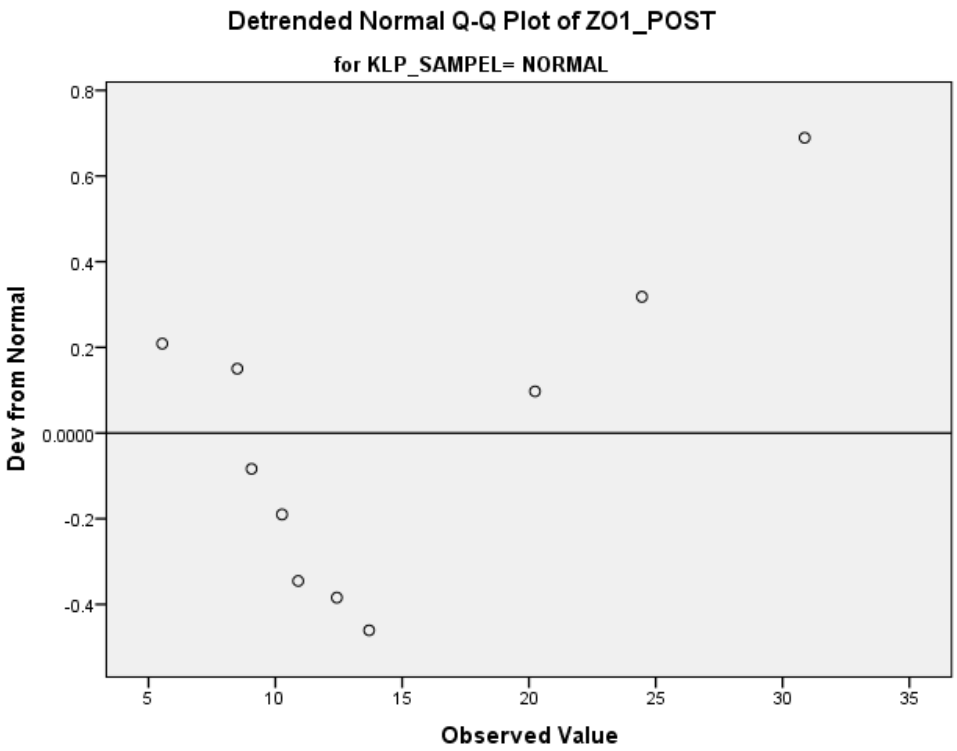
Normal Q-Q Plots

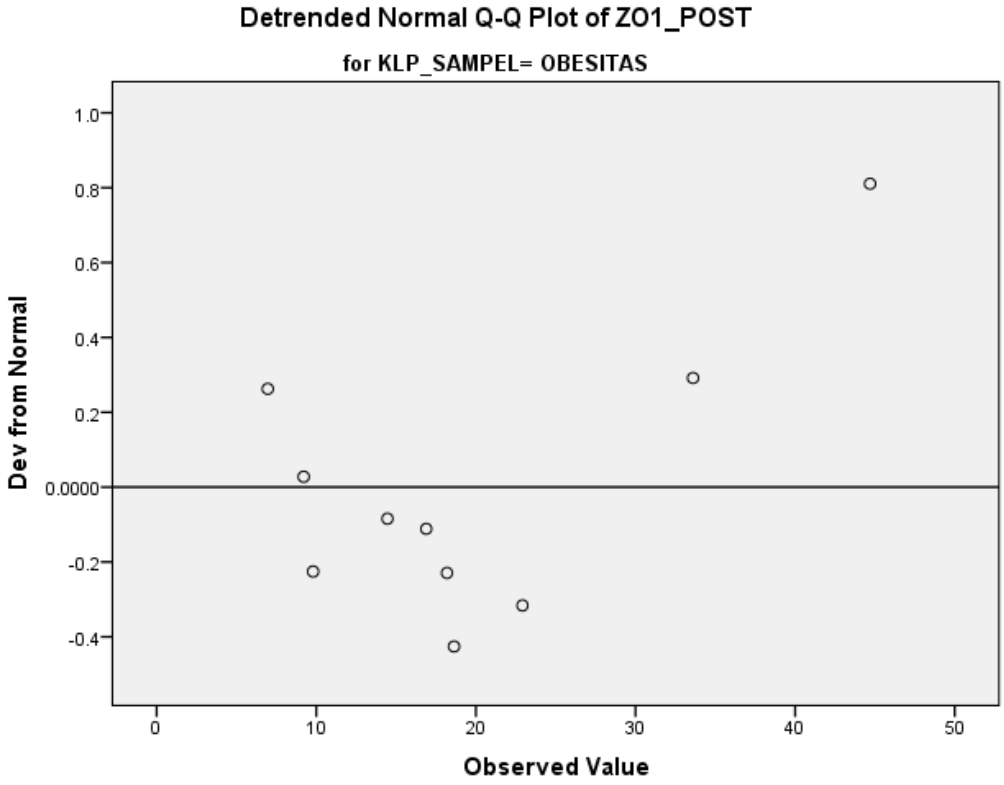


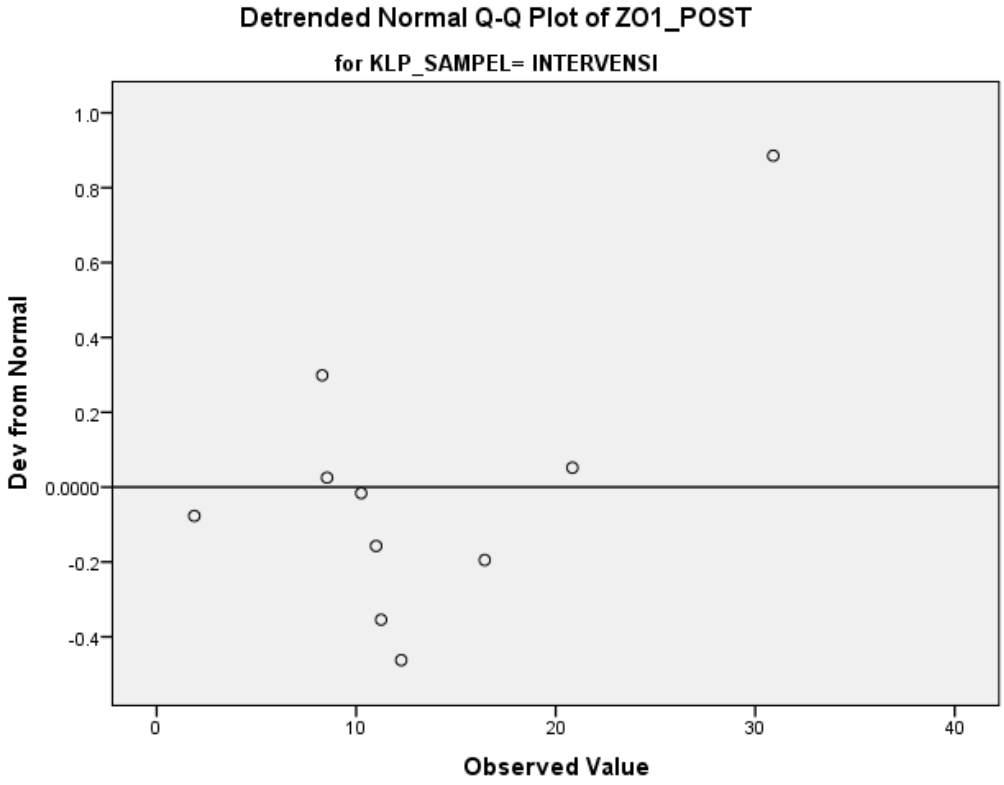

Normal Q-Q Plot of ZO1_POST
for KLP_SAMPEL= OBESITAS
Expected Normal
Observed Value
3
2
1
0
-1
-2
0
10
20
30
40
50

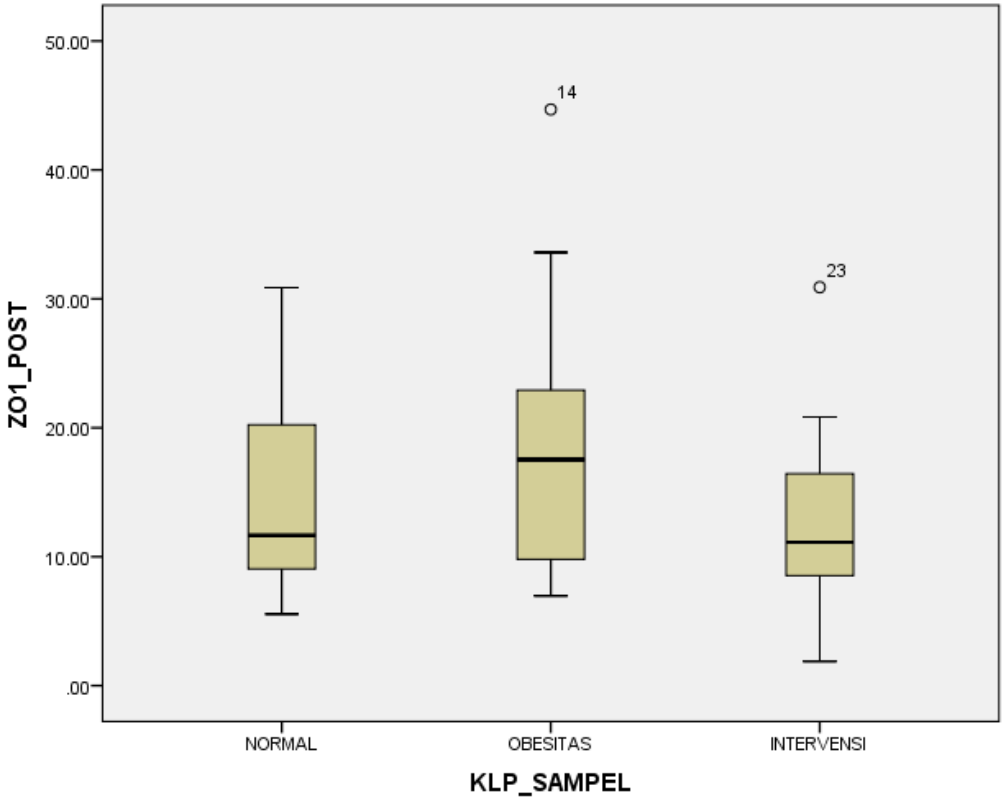

Normal Q-Q Plot of ZO1_POST
for KLP_SAMPEL= INTERVENSI
Expected Normal
Observed Value
3
2
1
0
-1
-2
0
10
20
30

Detrended Normal Q-Q Plots




Detrended Normal Q-Q Plot of ZO1_POST
for KLP_SAMPEL= OBESITAS
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0000
-0.2
-0.4
0
10
20
30
40
50
Observed Value


Detrended Normal Q-Q Plot of ZO1_POST
for KLP_SAMPEL= INTERVENSI
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0000
-0.2
-0.4
0
10
20
30
40
Observed Value


50.00
40.00
30.00
20.00
10.00
.00
ZO1_POST
14
23
NORMAL
OBESITAS
INTERVENSI
KLP_SAMPEL

LPS_PRE

Stem-and-Leaf Plots

LPS_PRE Stem-and-Leaf Plot for

KLP_SAMPEL= NORMAL

```
 Frequency    Stem &  Leaf

    1,00       0 .  4

    5,00       1 .  33379

    1,00       2 .  1

    2,00       3 .  04

    1,00 Extremes    (>=601)
```

Stem width: 100,00

Each leaf: 1 case(s)

LPS_PRE Stem-and-Leaf Plot for

KLP_SAMPEL= OBESITAS

Frequency	Stem & Leaf
1,00	0 . 3
4,00	1 . 4788
1,00	2 . 2
1,00	3 . 5
1,00	4 . 0
2,00 Extremes	(>=770)

Stem width: 100,00

Each leaf: 1 case(s)

LPS_PRE Stem-and-Leaf Plot for

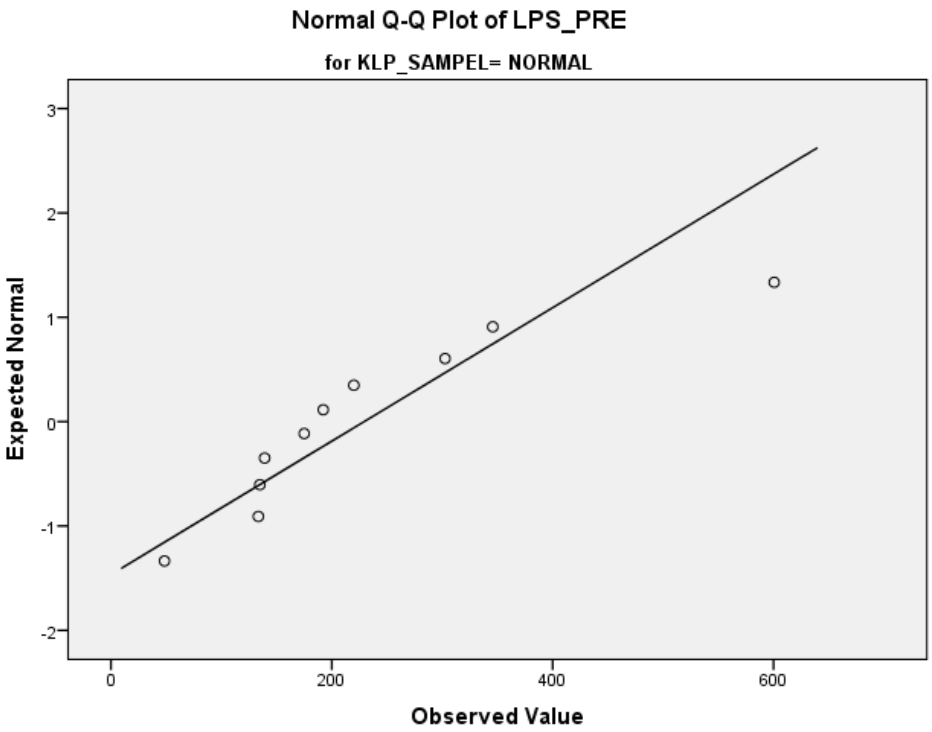
KLP_SAMPEL= INTERVENSI

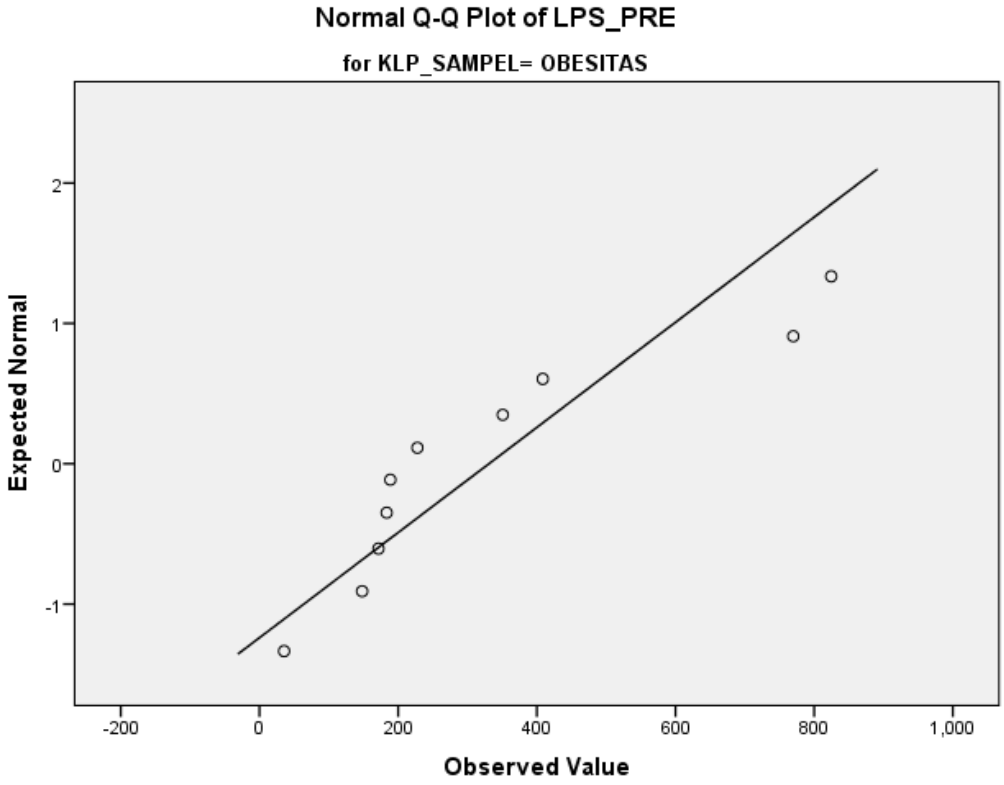
Frequency	Stem & Leaf
4,00	0 . 1111
3,00	0 . 223
2,00	0 . 45
1,00	0 . 7

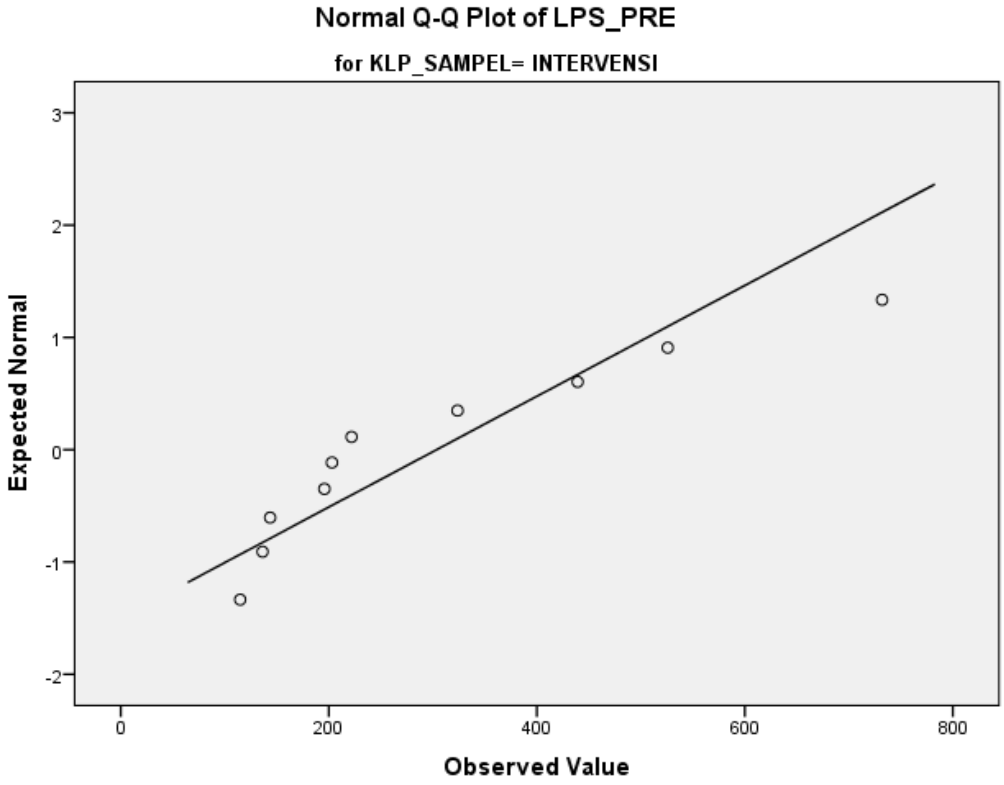
Stem width: 1000,00

Each leaf: 1 case(s)

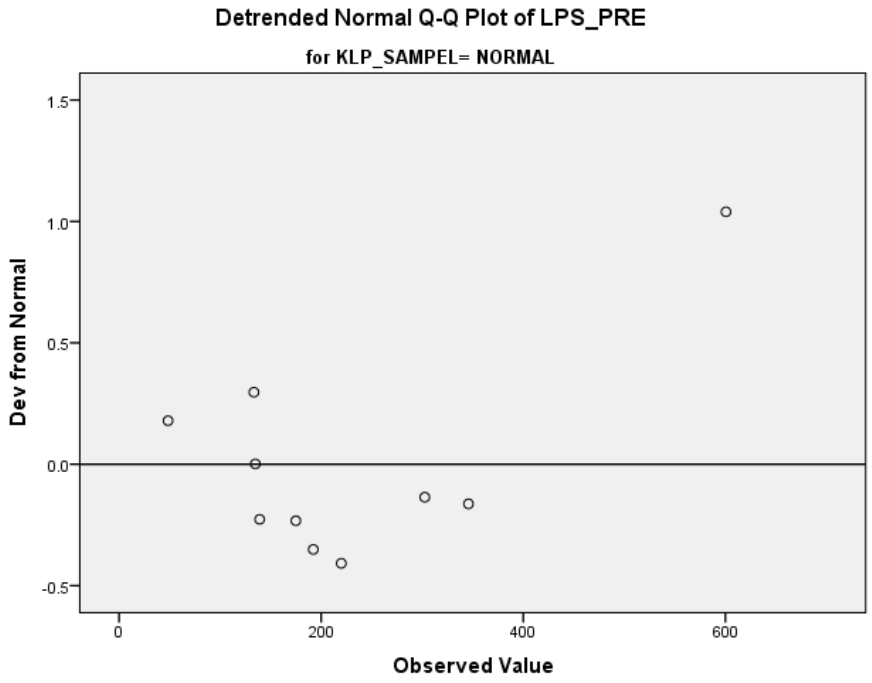
Normal Q-Q Plots

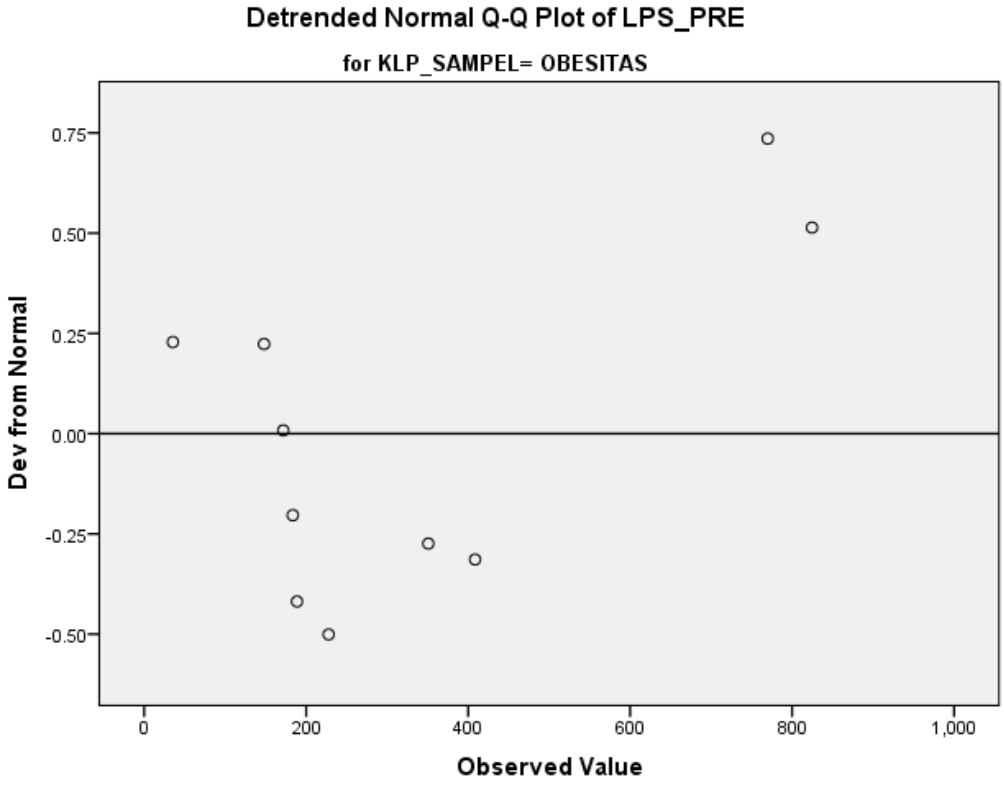


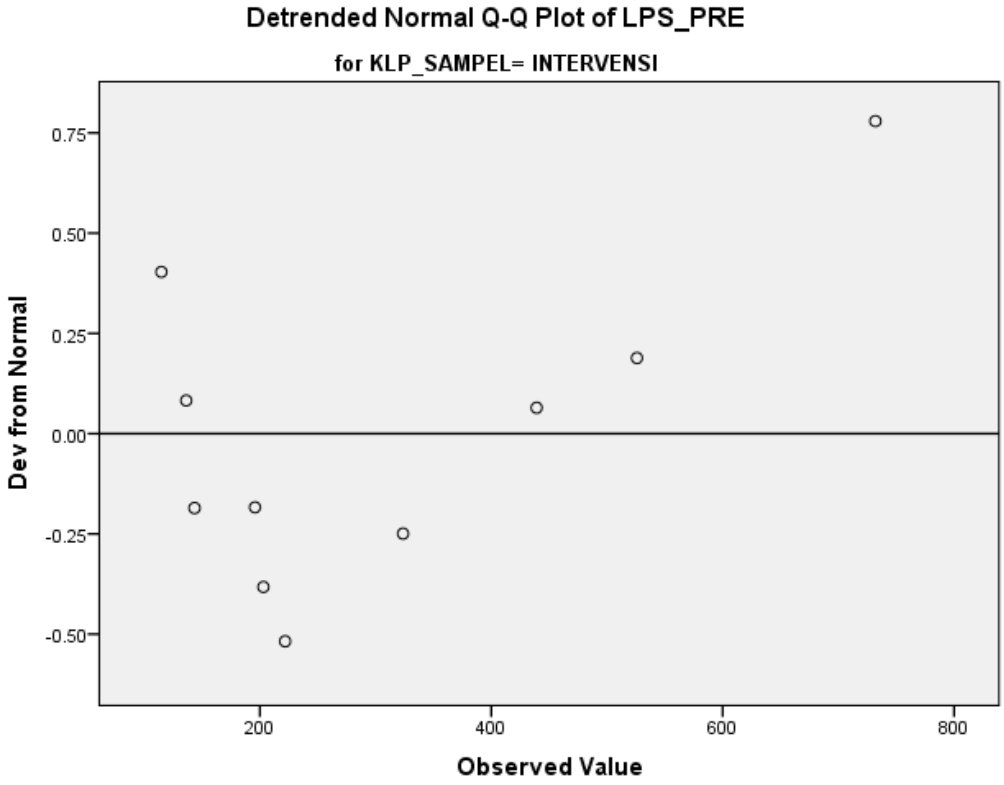

Normal Q-Q Plot of LPS_PRE
for KLP_SAMPEL= OBESITAS
Expected Normal
2
1
0
-1
-200
0
200
400
600
800
1,000
Observed Value

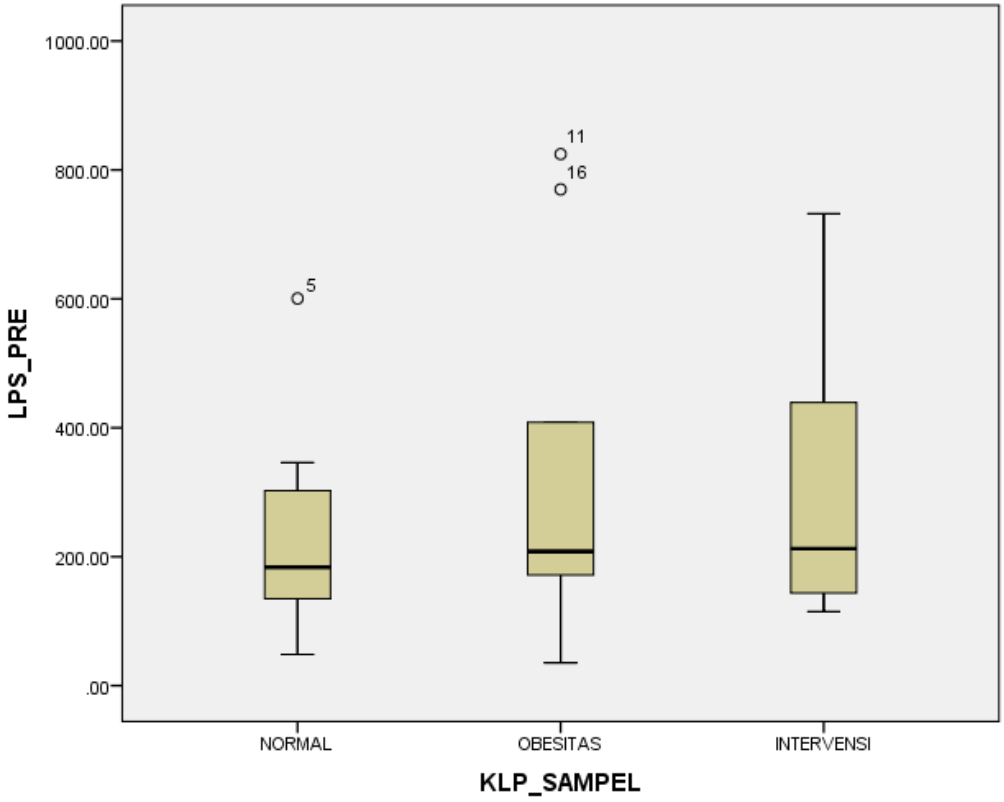

Normal Q-Q Plot of LPS_PRE
for KLP_SAMPEL= INTERVENSI
Expected Normal
Observed Value
3
2
1
0
-1
-2
0
200
400
600
800

Detrended Normal Q-Q Plots




Detrended Normal Q-Q Plot of LPS_PRE
for KLP_SAMPEL= OBESITAS
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
-0.50
0
200
400
600
800
1,000
Observed Value


Detrended Normal Q-Q Plot of LPS_PRE
for KLP_SAMPEL= INTERVENSI
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
-0.50
200
400
600
800
Observed Value


1000.00
800.00
600.00
400.00
200.00
.00
LPS_PRE
11
16
5
NORMAL
OBESITAS
INTERVENSI
KLP_SAMPEL

LPS_POST

Stem-and-Leaf Plots

LPS_POST Stem-and-Leaf Plot for

KLP_SAMPEL= NORMAL

Frequency	Stem & Leaf
5,00	1 . 00233
1,00	1 . 6
2,00	2 . 14
2,00	2 . 78

Stem width: 100,00

Each leaf: 1 case(s)

LPS_POST Stem-and-Leaf Plot for

KLP_SAMPEL= OBESITAS

```
 Frequency    Stem &  Leaf

    3,00       1 .  244
    4,00       1 .  5677
     ,00       2 .
    1,00       2 .  7
    1,00       3 .  2
    1,00 Extremes    (>=1277)

 Stem width:    100,00
 Each leaf:       1 case(s)
```

LPS_POST Stem-and-Leaf Plot for

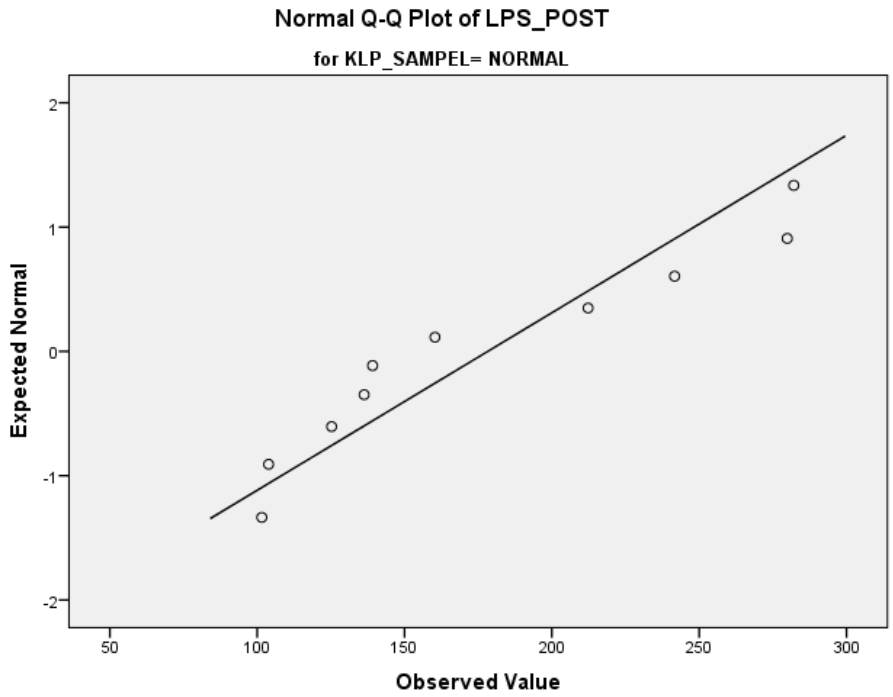
KLP_SAMPEL= INTERVENSI

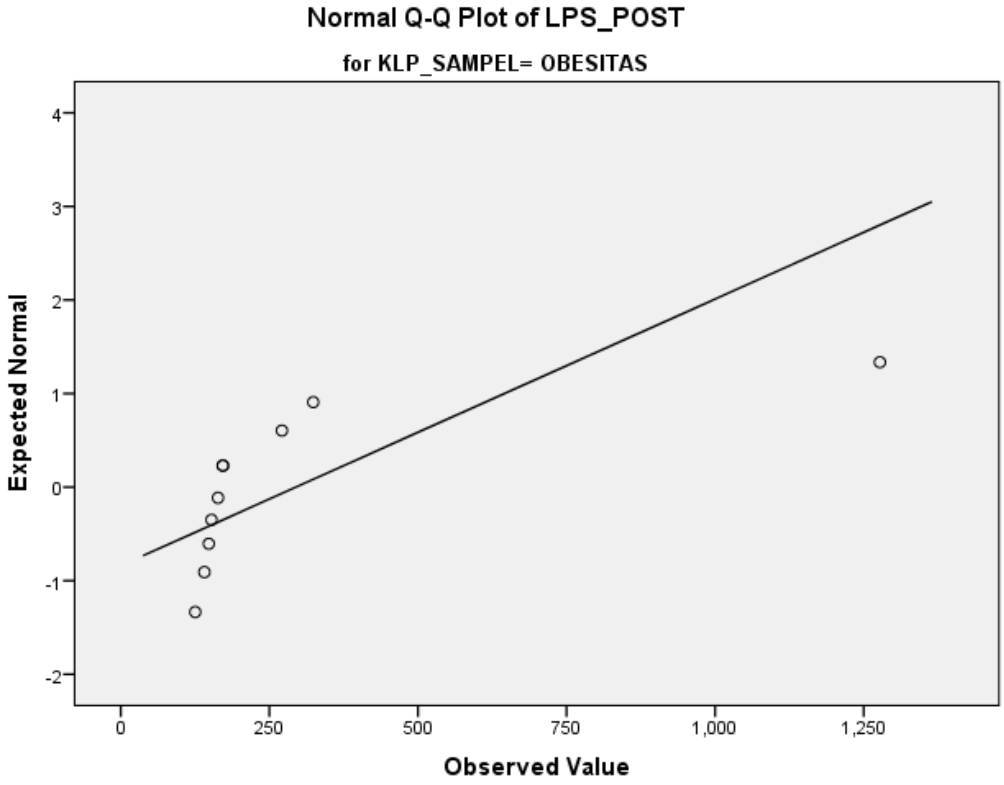
Frequency	Stem & Leaf
2,00	0 . 79
5,00	1 . 01133
2,00	1 . 58
1,00	2 . 1

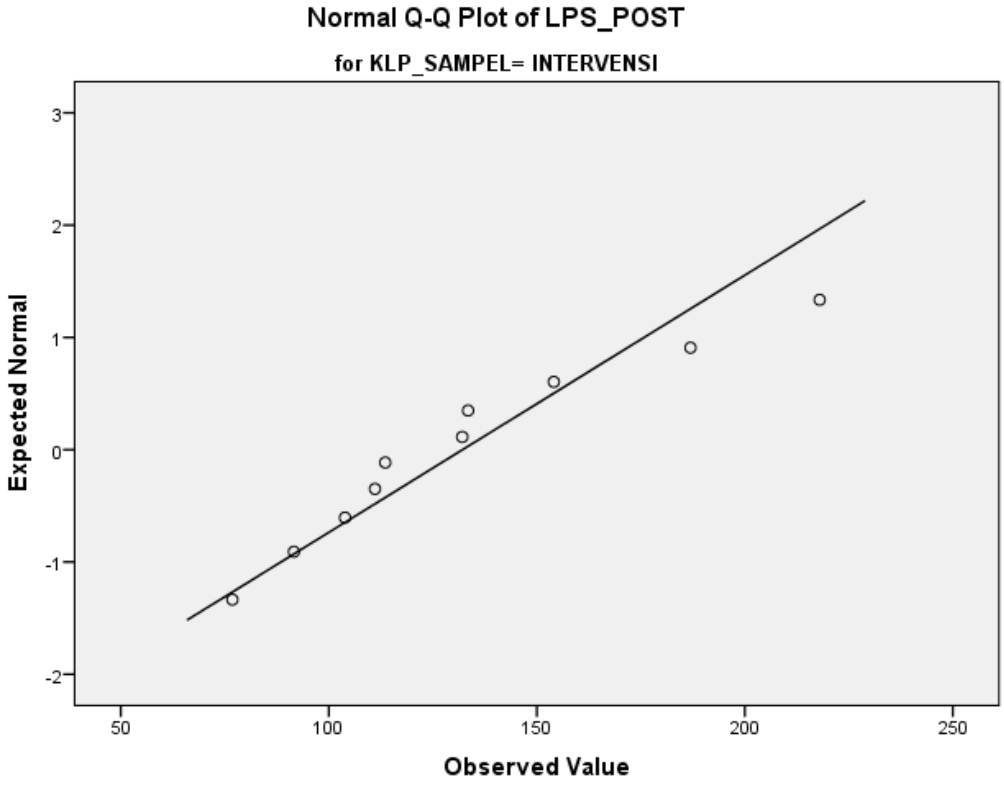
Stem width: 100,00

Each leaf: 1 case(s)

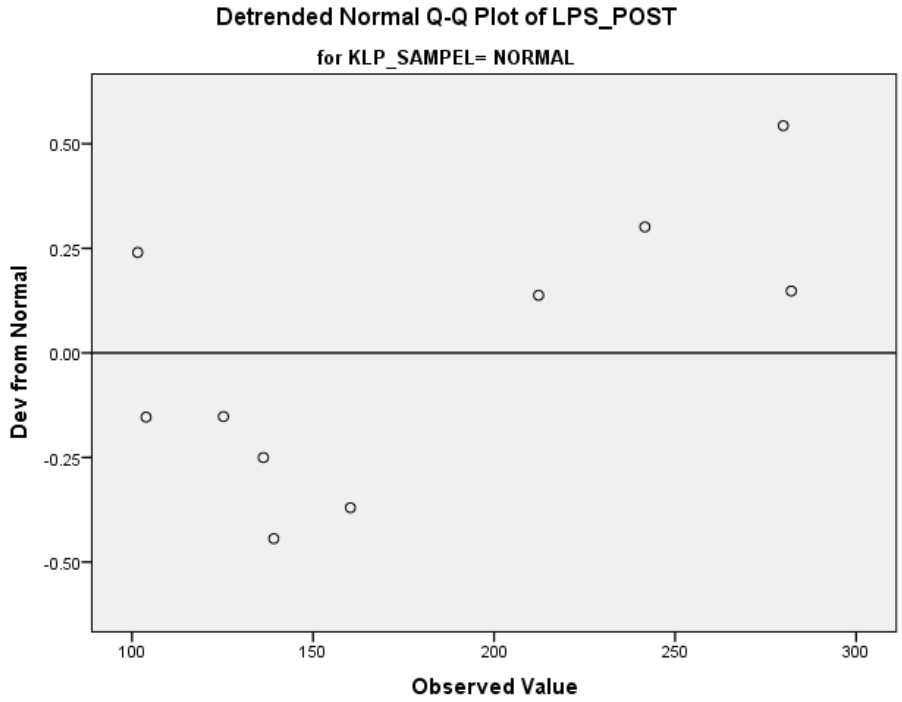
Normal Q-Q Plots

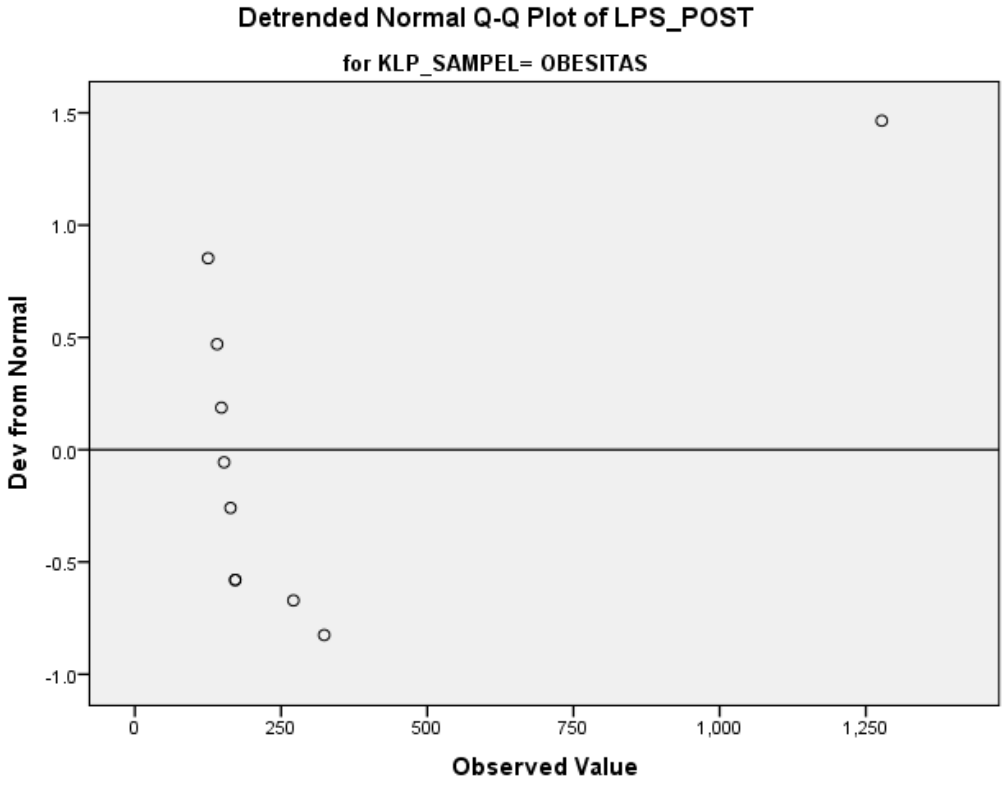


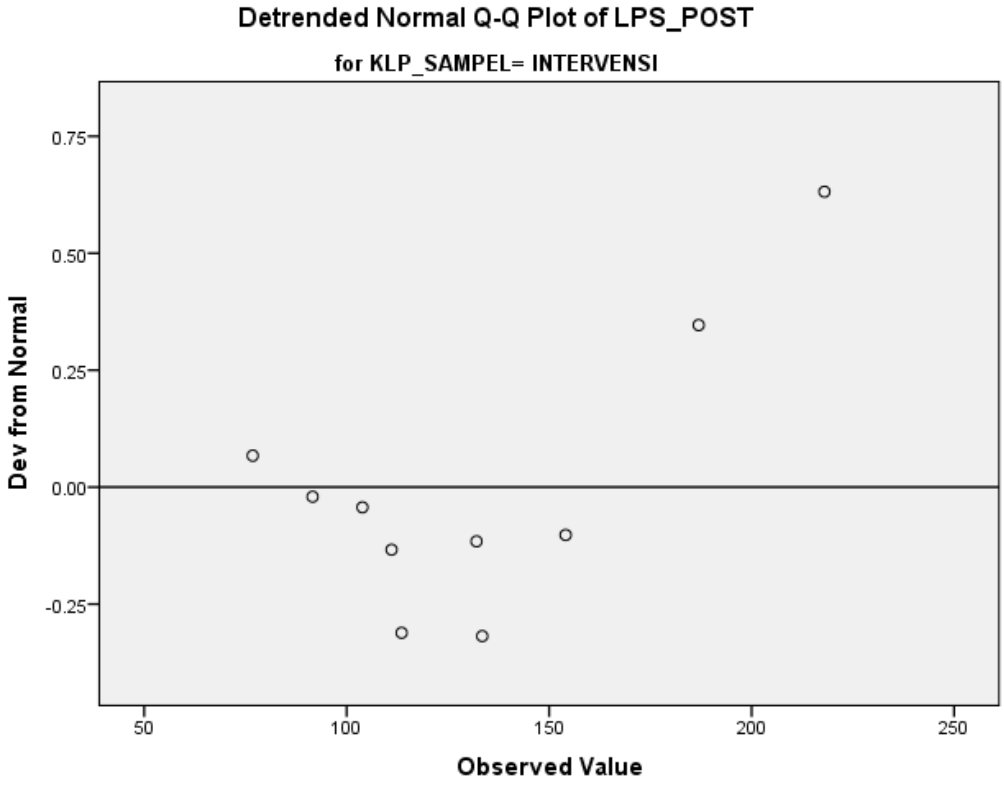

Normal Q-Q Plot of LPS_POST
for KLP_SAMPEL= OBESITAS
Expected Normal
4
3
2
1
0
-1
-2
0
250
500
750
1,000
1,250
Observed Value

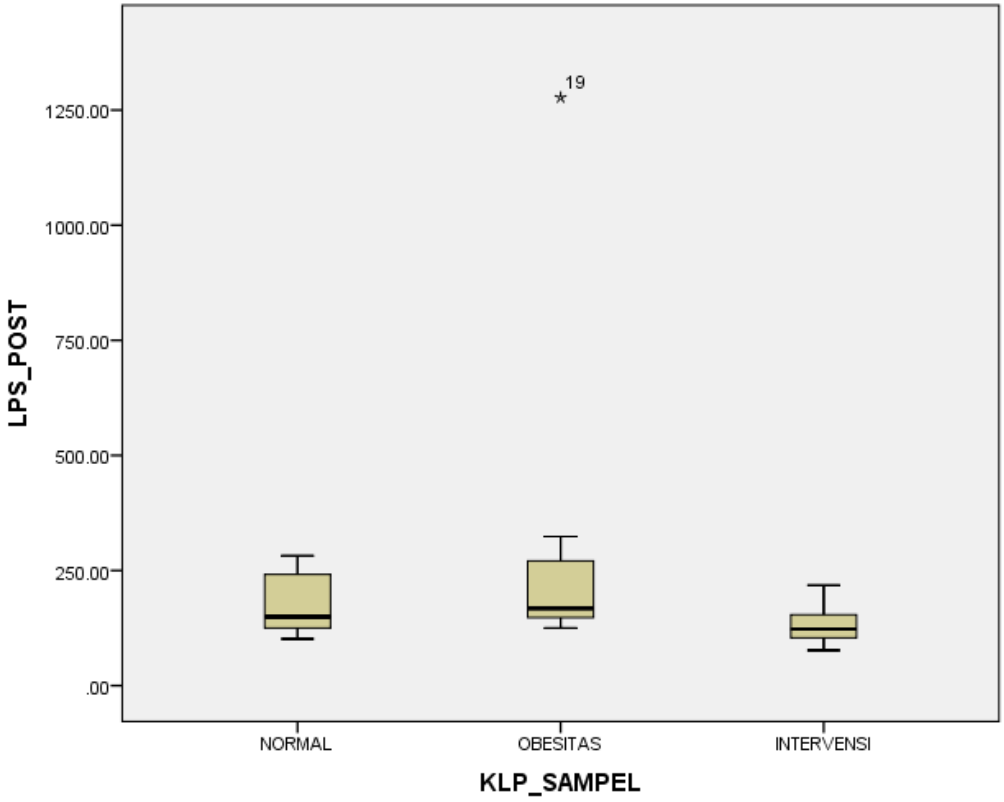

Normal Q-Q Plot of LPS_POST
for KLP_SAMPEL= INTERVENSI
Expected Normal
Observed Value
3
2
1
0
-1
-2
50
100
150
200
250

Detrended Normal Q-Q Plots




Detrended Normal Q-Q Plot of LPS_POST
for KLP_SAMPEL= OBESITAS
Dev from Normal
1.5
1.0
0.5
0.0
-0.5
-1.0
0
250
500
750
1,000
1,250
Observed Value


Detrended Normal Q-Q Plot of LPS_POST
for KLP_SAMPEL= INTERVENSI
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
50
100
150
200
250
Observed Value


19
1250.00
1000.00
750.00
500.00
250.00
.00
LPS_POST
NORMAL
OBESITAS
INTERVENSI
KLP_SAMPEL

PERUBAHAN_ZO1

Stem-and-Leaf Plots

PERUBAHAN_ZO1 Stem-and-Leaf Plot for

KLP_SAMPEL= NORMAL

Frequency	Stem & Leaf
1,00	-0 . 7
4,00	-0 . 0224
2,00	0 . 12
,00	0 .
2,00	1 . 03

```
    1,00       1 .  5

 Stem width:     10,00
 Each leaf:       1 case(s)
```

PERUBAHAN_ZO1 Stem-and-Leaf Plot for

KLP_SAMPEL= OBESITAS

```
 Frequency    Stem &  Leaf

    1,00 Extremes    (=<-55)
    1,00       -3 .  2
     ,00       -2 .
    1,00       -1 .  7
    2,00       -0 .  35
```

```
   3,00       0 .  136

   1,00       1 .  4

   1,00       2 .  4


 Stem width:     10,00

 Each leaf:       1 case(s)



PERUBAHAN_ZO1 Stem-and-Leaf Plot for

KLP_SAMPEL= INTERVENSI


 Frequency    Stem &  Leaf


   1,00 Extremes    (=<-40)

   1,00      -2 .  5

   3,00      -1 .  345
```

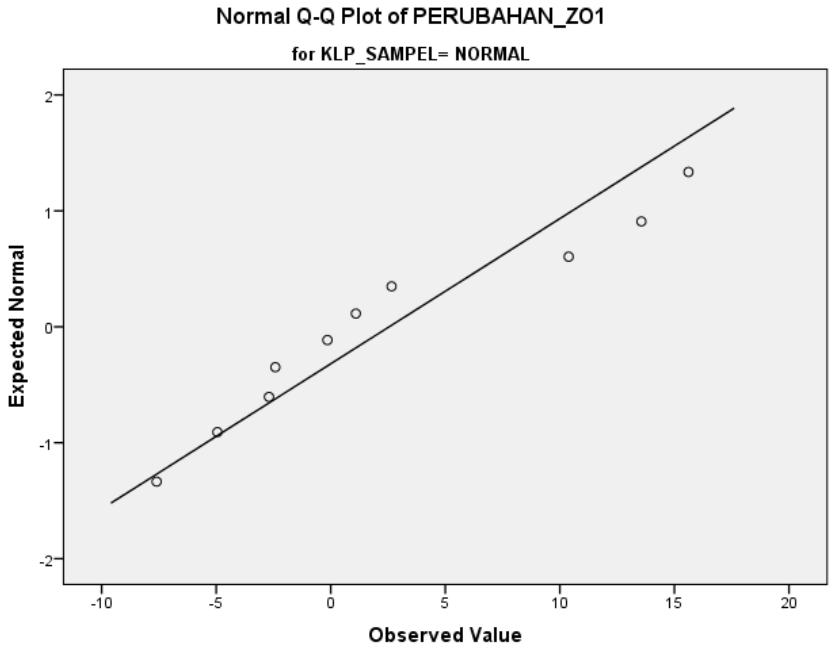
3,00 -0 . 124

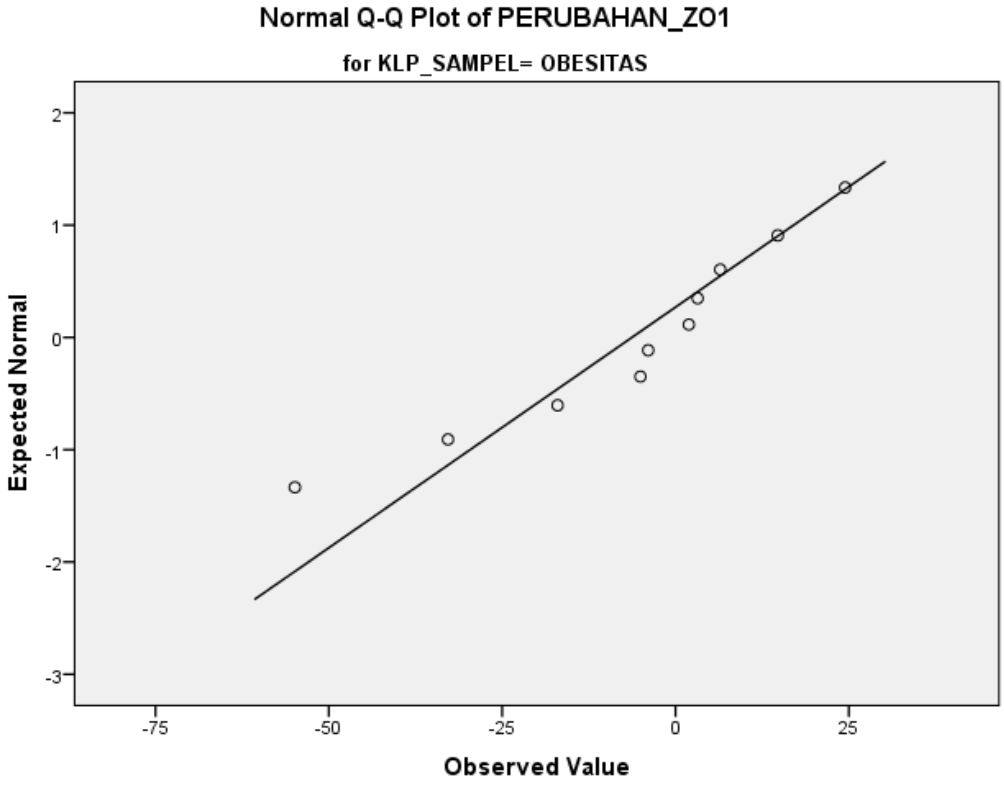
2,00 0 . 09

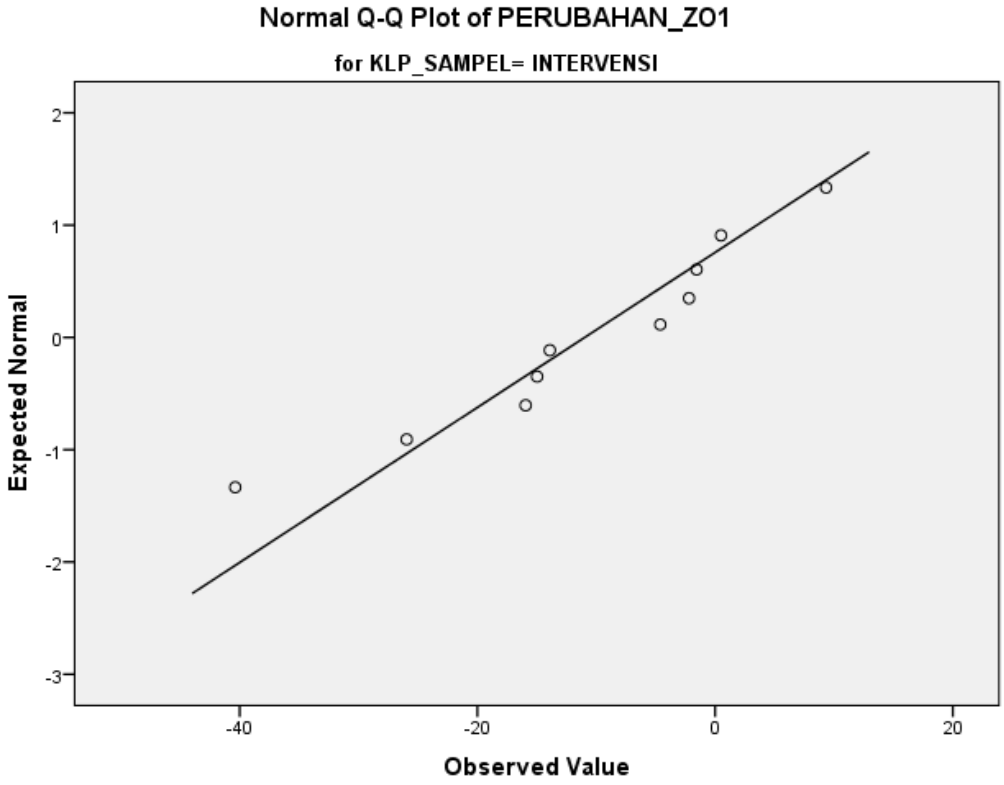
Stem width: 10,00

Each leaf: 1 case(s)

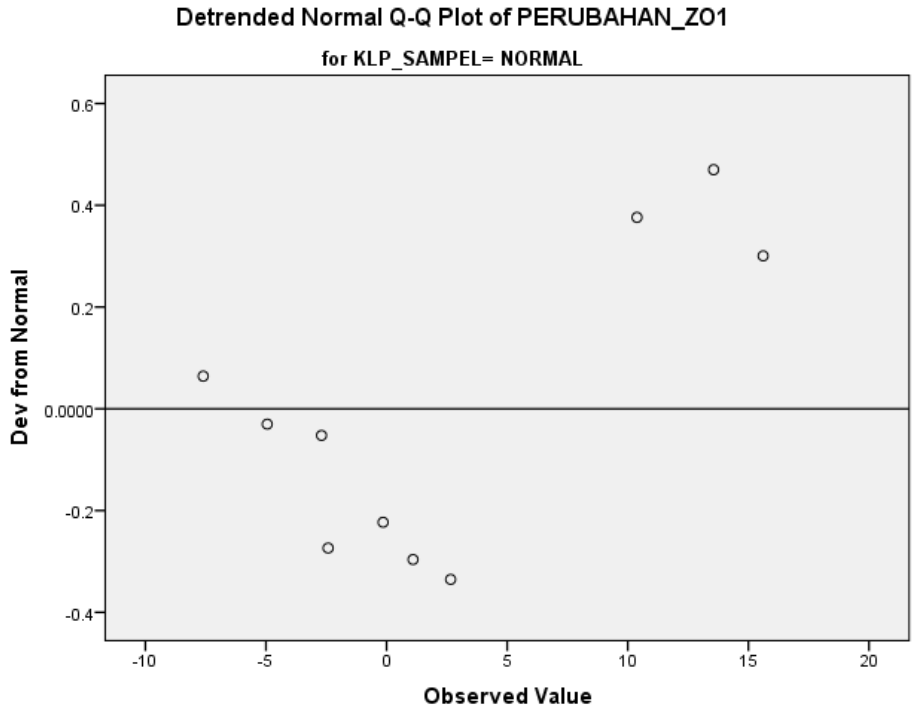
Normal Q-Q Plots

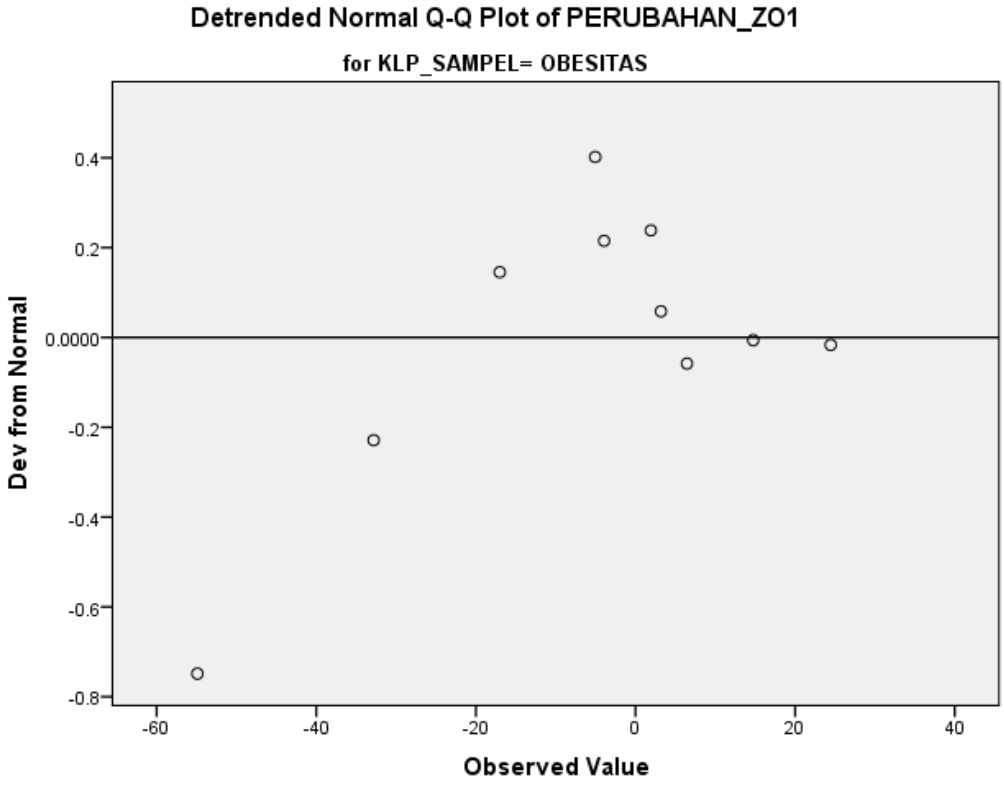


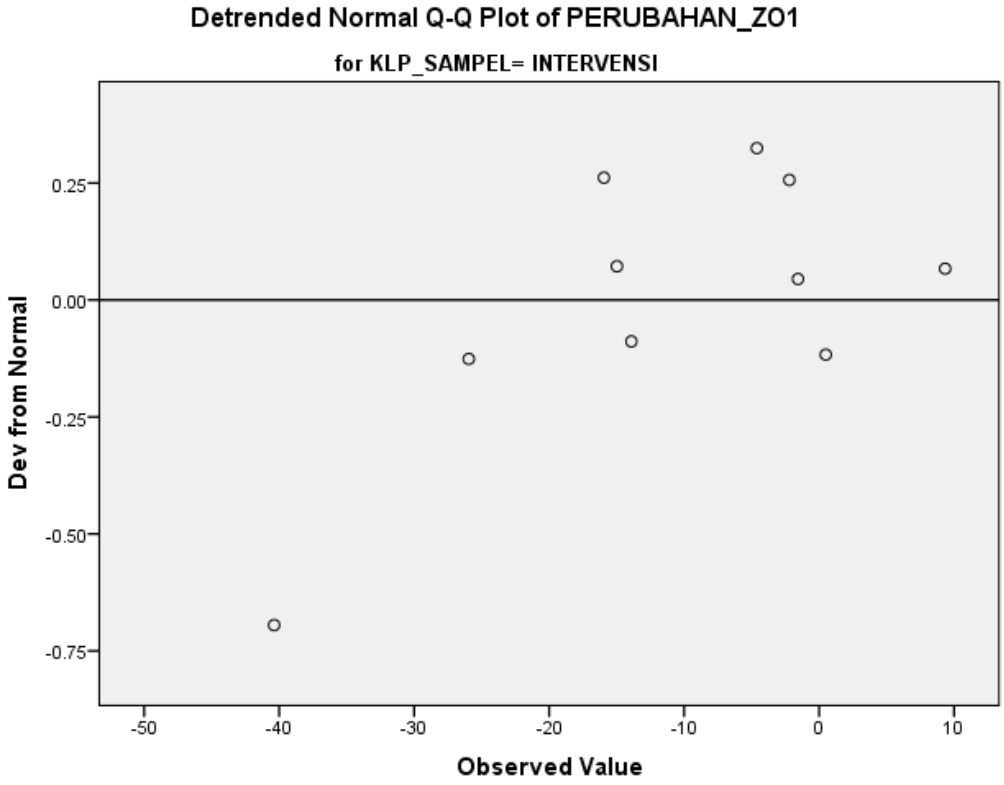

Normal Q-Q Plot of PERUBAHAN_ZO1
for KLP_SAMPEL= OBESITAS
Expected Normal
Observed Value
2
1
0
-1
-2
-3
-75
-50
-25
0
25

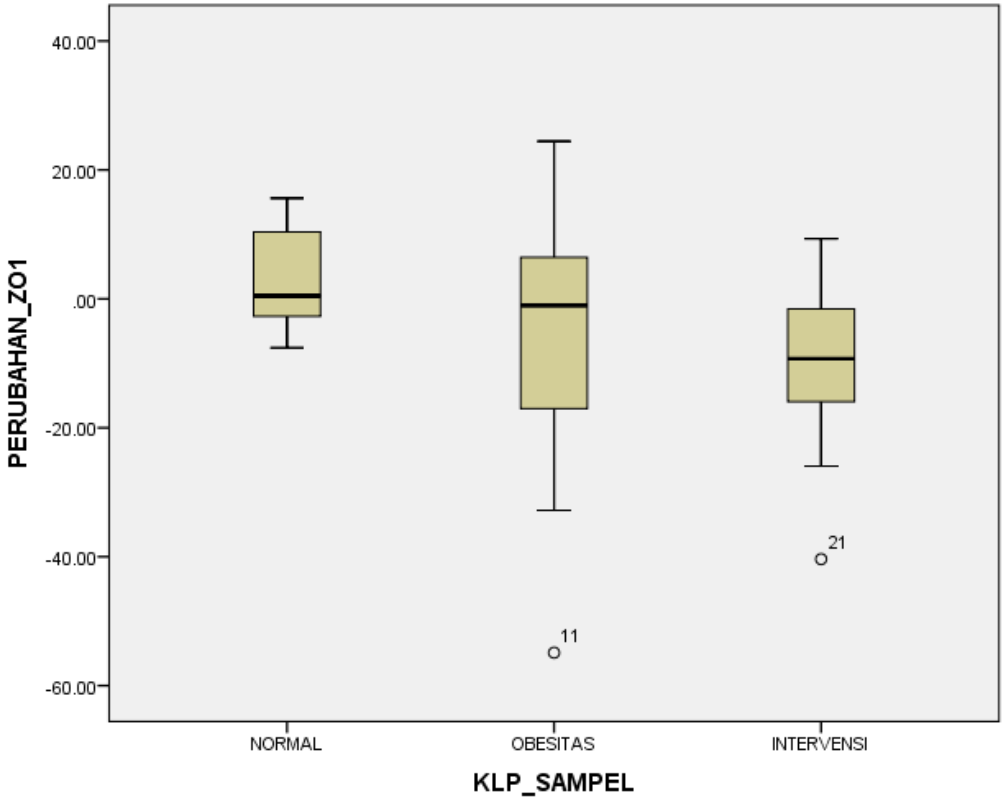

Normal Q-Q Plot of PERUBAHAN_ZO1
for KLP_SAMPEL= INTERVENSI
Expected Normal
Observed Value
2
1
0
-1
-2
-3
-40
-20
0
20

Detrended Normal Q-Q Plots




Detrended Normal Q-Q Plot of PERUBAHAN_ZO1
for KLP_SAMPEL= OBESITAS
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
-0.6
-0.8
-60
-40
-20
0
20
40
Observed Value


Detrended Normal Q-Q Plot of PERUBAHAN_ZO1
for KLP_SAMPEL= INTERVENSI
Dev from Normal
0.25
0.00
-0.25
-0.50
-0.75
-50
-40
-30
-20
-10
0
10
Observed Value


40.00
20.00
.00
-20.00
-40.00
-60.00
PERUBAHAN_ZO1
11
21
NORMAL
OBESITAS
INTERVENSI
KLP_SAMPEL

PERUBAHAN_LPS

Stem-and-Leaf Plots

PERUBAHAN_LPS Stem-and-Leaf Plot for

KLP_SAMPEL= NORMAL

```
 Frequency    Stem &  Leaf

    1,00 Extremes    (=<-499)
    1,00       -2 .  0
     ,00       -1 .
    3,00       -0 .  126
    4,00        0 .  0557
```

```
   1,00       1 .  0

 Stem width:    100,00
 Each leaf:       1 case(s)

PERUBAHAN_LPS Stem-and-Leaf Plot for
KLP_SAMPEL= OBESITAS

 Frequency    Stem &  Leaf

   2,00      -0 .  55
   6,00      -0 .  000002
   1,00       0 .  1
   1,00 Extremes    (>=1129)

 Stem width:   1000,00
```

Each leaf: 1 case(s)

PERUBAHAN_LPS Stem-and-Leaf Plot for

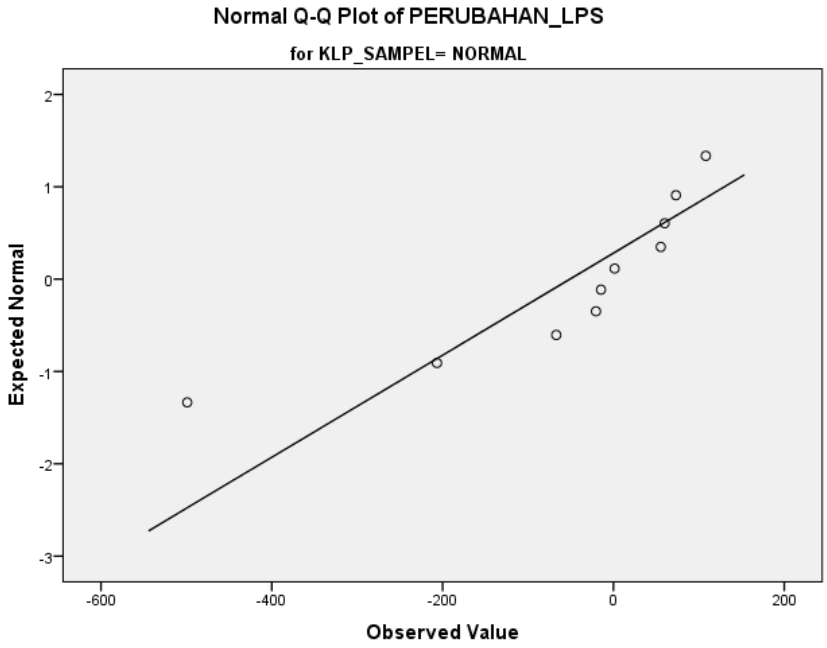
KLP_SAMPEL= INTERVENSI

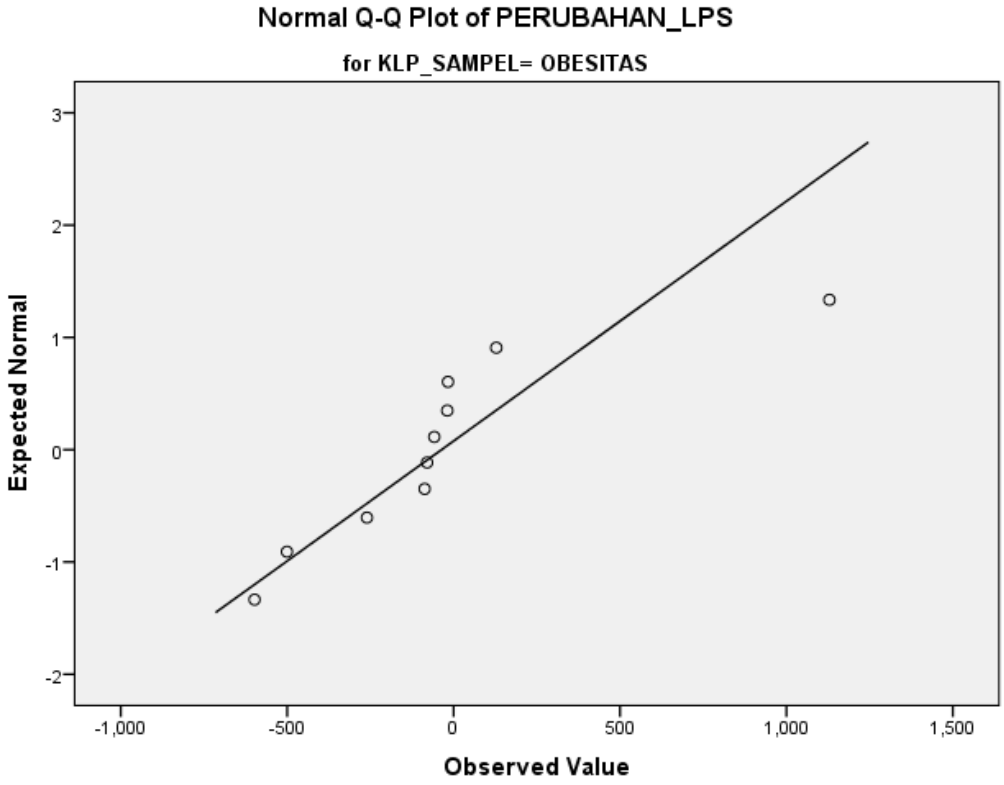
Frequency	Stem & Leaf
1,00	-0 . 6
7,00	-0 . 0000134
2,00	0 . 00

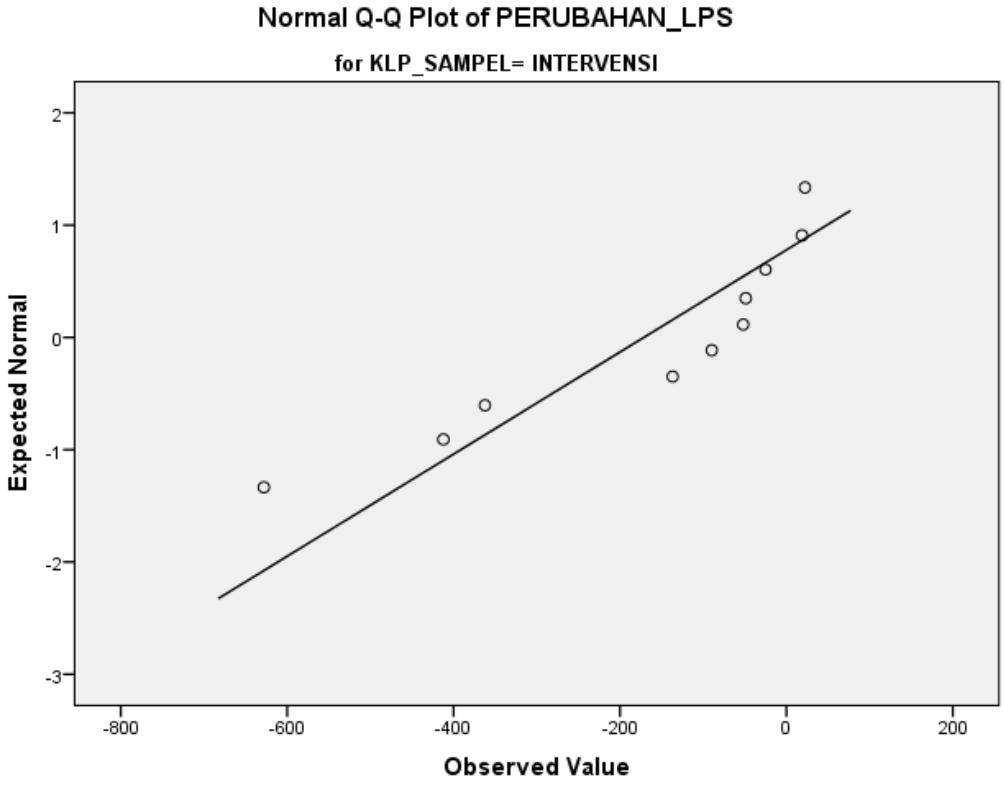
Stem width: 1000,00

Each leaf: 1 case(s)

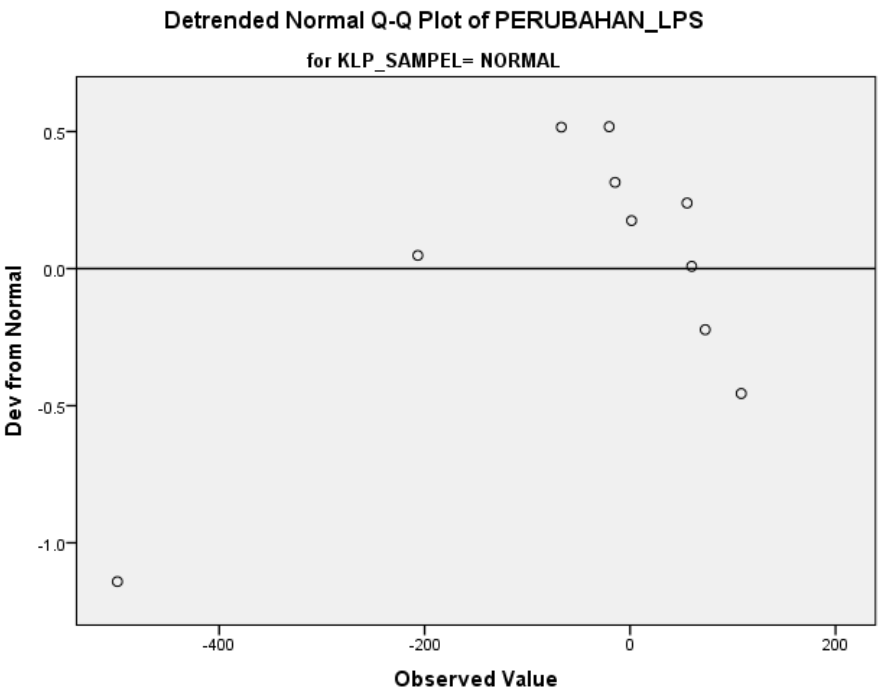
Normal Q-Q Plots

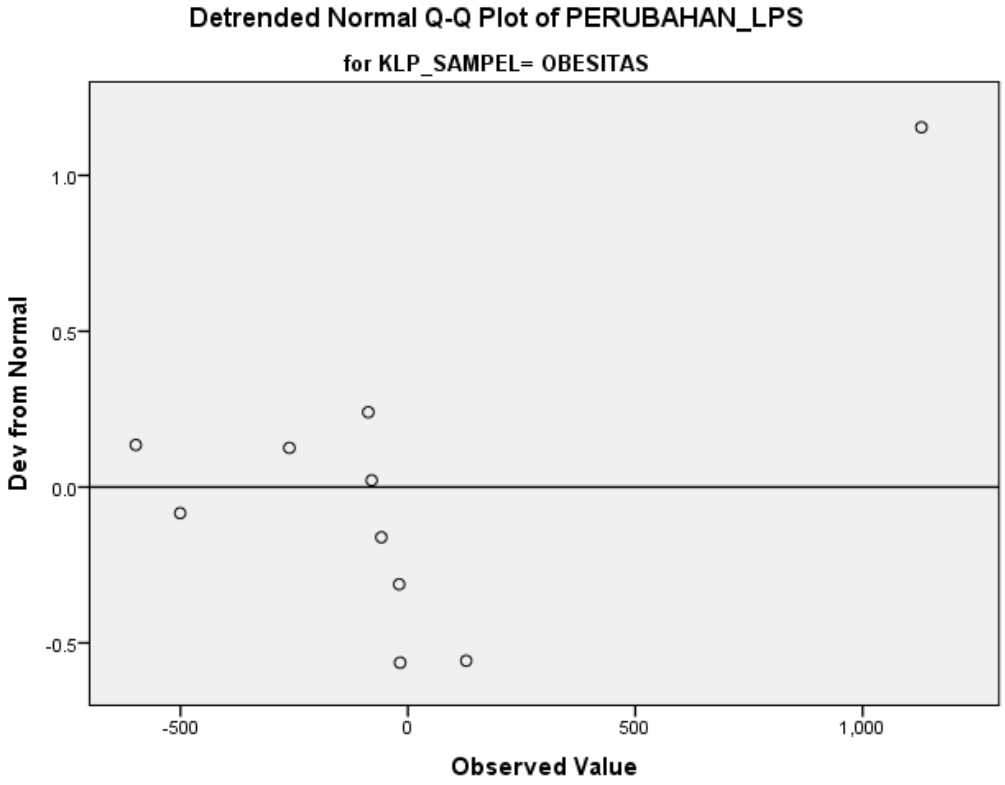


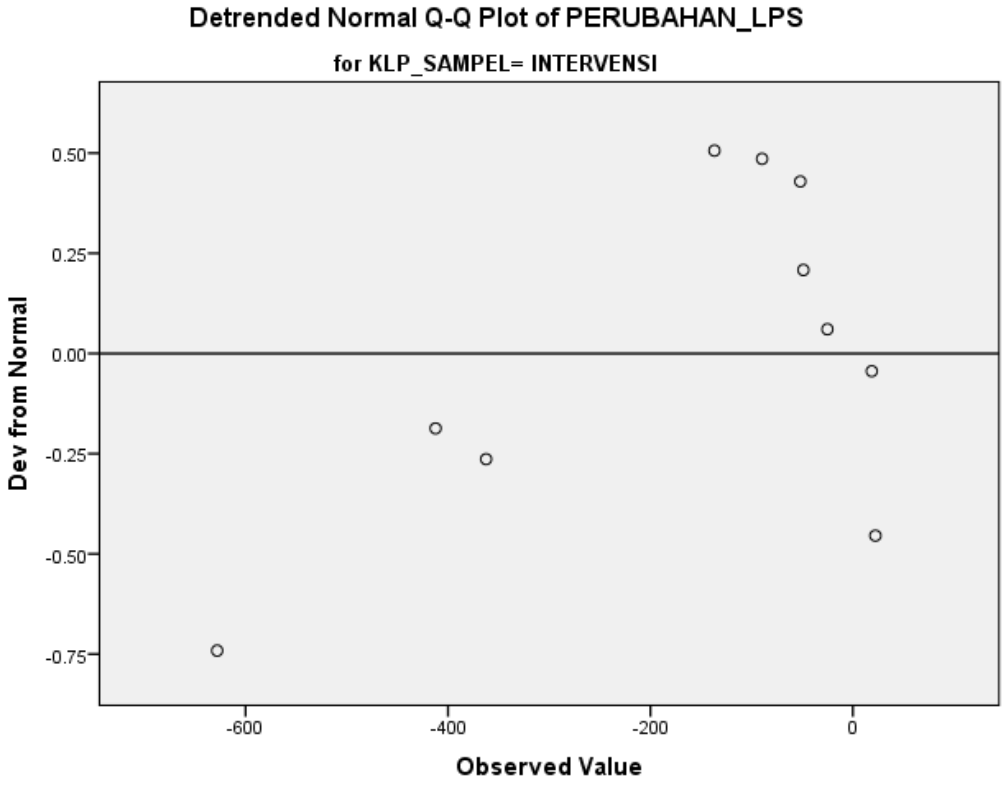

Normal Q-Q Plot of PERUBAHAN_LPS
for KLP_SAMPEL= OBESITAS
Expected Normal
Observed Value
3
2
1
0
-1
-2
-1,000
-500
0
500
1,000
1,500

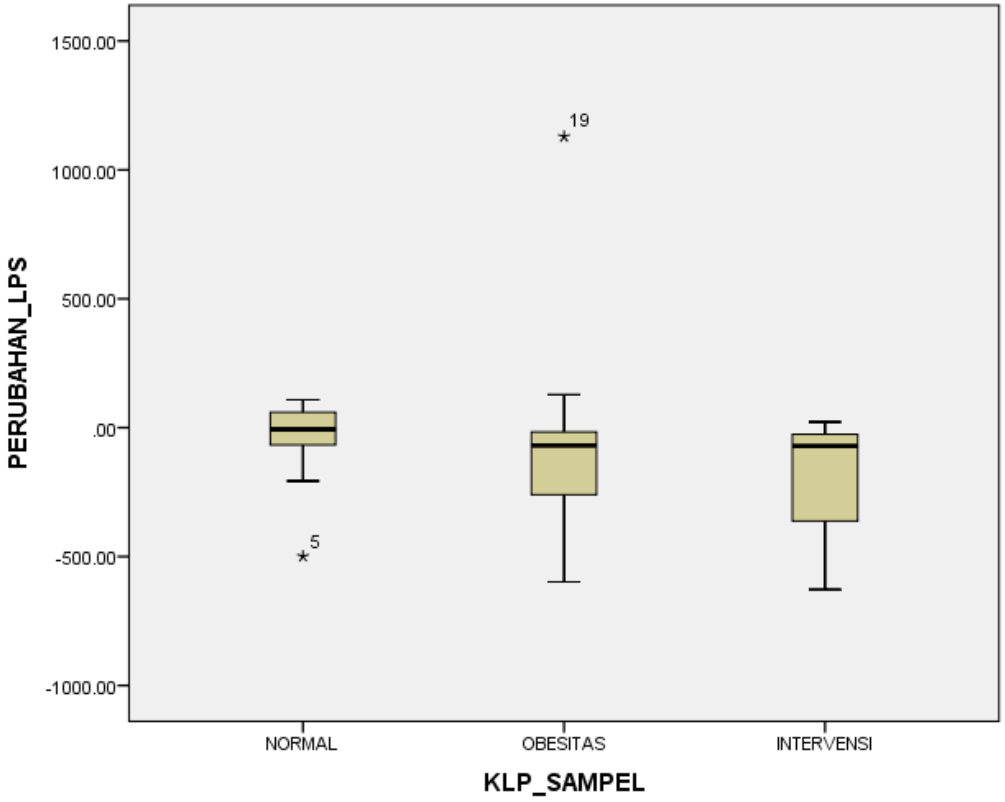

Normal Q-Q Plot of PERUBAHAN_LPS
for KLP_SAMPEL= INTERVENSI
Expected Normal
Observed Value
2
1
0
-1
-2
-3
-800
-600
-400
-200
0
200

Detrended Normal Q-Q Plots




Detrended Normal Q-Q Plot of PERUBAHAN_LPS
for KLP_SAMPEL= OBESITAS
Dev from Normal
1.0
0.5
0.0
-0.5
-500
0
500
1,000
Observed Value


Detrended Normal Q-Q Plot of PERUBAHAN_LPS
for KLP_SAMPEL= INTERVENSI
Dev from Normal
0.50
0.25
0.00
-0.25
-0.50
-0.75
-600
-400
-200
0
Observed Value


1500.00
1000.00
500.00
.00
-500.00
-1000.00
PERUBAHAN_LPS
19
5
NORMAL
OBESITAS
INTERVENSI
KLP_SAMPEL

```
SORT CASES  BY KLP_SAMPEL.

SPLIT FILE LAYERED BY KLP_SAMPEL.

T-TEST PAIRS=LPS_PRE ZO1_PRE WITH LPS_POST ZO1_POST (PAIRED)

  /CRITERIA=CI(.9500)

  /MISSING=ANALYSIS.
```

T-Test

Notes

Output Created		29-JAN-2022 14:08:36
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	KLP_SAMPEL
	N of Rows in Working Data File	30

Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS=LPS_PRE ZO1_PRE WITH LPS_POST ZO1_POST (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,01

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Paired Samples Statistics

KLP_SAMPEL			Mean	N	Std. Deviation	Std. Error Mean
NORMAL	Pair 1	LPS_PRE	229.1898	10	156.40426	49.45937
		LPS_POST	178.2364	10	70.01979	22.14220
	Pair 2	ZO1_PRE	12.0470	10	4.19105	1.32533
		ZO1_POST	14.5957	10	8.03911	2.54219
OBESITAS	Pair 1	LPS_PRE	330.8464	10	266.98567	84.42828
		LPS_POST	294.5201	10	350.93590	110.97568
	Pair 2	ZO1_PRE	25.8305	10	18.14167	5.73690
		ZO1_POST	19.5348	10	11.72502	3.70778
INTERVENSI	Pair 1	LPS_PRE	303.6017	10	202.59297	64.06552
		LPS_POST	132.1457	10	43.64792	13.80268
	Pair 2	ZO1_PRE	24.1367	10	12.47258	3.94418
		ZO1_POST	13.1659	10	7.98754	2.52588

Paired Samples Correlations

KLP_SAMPEL			N	Correlation	Sig.
NORMAL	Pair 1	LPS_PRE & LPS_POST	10	-.154	.671
	Pair 2	ZO1_PRE & ZO1_POST	10	.273	.445
OBESITAS	Pair 1	LPS_PRE & LPS_POST	10	-.132	.716
	Pair 2	ZO1_PRE & ZO1_POST	10	-.182	.615
INTERVENSI	Pair 1	LPS_PRE & LPS_POST	10	-.306	.390
	Pair 2	ZO1_PRE & ZO1_POST	10	.048	.895

Paired Samples Test

KLP_SAMPEL	Paired Differences		
	Mean	Std. Deviation	Std. Error Mean

NORMAL	Pair 1	LPS_PRE - LPS_POST	50.95337	180.93507	57.21669
	Pair 2	ZO1_PRE - ZO1_POST	-2.54871	7.98618	2.52545
OBESITAS	Pair 1	LPS_PRE - LPS_POST	36.32625	468.19100	148.05499
	Pair 2	ZO1_PRE - ZO1_POST	6.29569	23.32387	7.37566
INTERVENSI	Pair 1	LPS_PRE - LPS_POST	171.45605	219.90067	69.53870
	Pair 2	ZO1_PRE - ZO1_POST	10.97077	14.48379	4.58018

Paired Samples Test

KLP_SAMPEL			Paired Differences		t	df
			95% Confidence Interval of the Difference			
			Lower	Upper		
NORMAL	Pair 1	LPS_PRE - LPS_POST	-78.47977	180.38652	.891	9
	Pair 2	ZO1_PRE - ZO1_POST	-8.26168	3.16426	-1.009	9

OBESITAS	Pair 1	LPS_PRE - LPS_POST	-298.59741	371.24992	.245	9
	Pair 2	ZO1_PRE - ZO1_POST	-10.38921	22.98058	.854	9
INTERVENSI	Pair 1	LPS_PRE - LPS_POST	14.14859	328.76351	2.466	9
	Pair 2	ZO1_PRE - ZO1_POST	.60969	21.33184	2.395	9

Paired Samples Test

KLP_SAMPEL			Sig. (2-tailed)
NORMAL	Pair 1	LPS_PRE - LPS_POST	.396
	Pair 2	ZO1_PRE - ZO1_POST	.339
OBESITAS	Pair 1	LPS_PRE - LPS_POST	.812
	Pair 2	ZO1_PRE - ZO1_POST	.415
INTERVENSI	Pair 1	LPS_PRE - LPS_POST	.036
	Pair 2	ZO1_PRE - ZO1_POST	.040

```
NPAR TESTS
  /WILCOXON=ZO1_PRE LPS_PRE WITH ZO1_POST LPS_POST (PAIRED)
  /MISSING ANALYSIS.
```

NPar Tests

otes

Output Created		29-JAN-2022 14:09:36
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>

	Split File	KLP_SAMPEL
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /WILCOXON=ZO1_PRE LPS_PRE WITH ZO1_POST LPS_POST (PAIRED) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,01
	Number of Cases Allowed[a]	87381

a. Based on availability of workspace memory.

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Wilcoxon Signed Ranks Test

Ranks

KLP_SAMPEL			N	Mean Rank	Sum of Ranks
NORMAL	ZO1_POST - ZO1_PRE	Negative Ranks	5[a]	4.40	22.00
		Positive Ranks	5[b]	6.60	33.00
		Ties	0[c]		
		Total	10		
	LPS_POST - LPS_PRE	Negative Ranks	5[d]	6.00	30.00

		Positive Ranks	5[e]	5.00	25.00
		Ties	0[f]		
		Total	10		
	ZO1_POST - ZO1_PRE	Negative Ranks	5[a]	6.60	33.00
		Positive Ranks	5[b]	4.40	22.00
		Ties	0[c]		
		Total	10		
OBESITAS	LPS_POST - LPS_PRE	Negative Ranks	8[d]	4.88	39.00
		Positive Ranks	2[e]	8.00	16.00
		Ties	0[f]		
		Total	10		
INTERVENSI	ZO1_POST - ZO1_PRE	Negative Ranks	8[a]	6.13	49.00
		Positive Ranks	2[b]	3.00	6.00
		Ties	0[c]		

	Total	10		
LPS_POST - LPS_PRE	Negative Ranks	8[d]	6.50	52.00
	Positive Ranks	2[e]	1.50	3.00
	Ties	0[f]		
	Total	10		

a. ZO1_POST < ZO1_PRE

b. ZO1_POST > ZO1_PRE

c. ZO1_POST = ZO1_PRE

d. LPS_POST < LPS_PRE

e. LPS_POST > LPS_PRE

f. LPS_POST = LPS_PRE

Test Statistics[a]

KLP_SAMPEL		ZO1_POST - ZO1_PRE	LPS_POST - LPS_PRE
NORMAL	Z	-.561[b]	-.255[c]
	Asymp. Sig. (2-tailed)	.575	.799
OBESITAS	Z	-.561[c]	-1.172[c]
	Asymp. Sig. (2-tailed)	.575	.241
INTERVENSI	Z	-2.191[c]	-2.497[c]
	Asymp. Sig. (2-tailed)	.028	.013

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.

SPLIT FILE OFF.

```
NPAR TESTS
  /K-W=ZO1_PRE LPS_PRE BY KLP_SAMPEL(1 3)
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		29-JAN-2022 14:12:17
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.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 are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /K-W=ZO1_PRE LPS_PRE BY KLP_SAMPEL(1 3) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

Number of Cases Allowed[a]	98304

a. Based on availability of workspace memory.

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Kruskal-Wallis Test

Ranks

	KLP_SAMPEL	N	Mean Rank
ZO1_PRE	NORMAL	10	9.30
	OBESITAS	10	18.80
	INTERVENSI	10	18.40

LPS_PRE	Total	30	
	NORMAL	10	12.90
	OBESITAS	10	17.00
	INTERVENSI	10	16.60
	Total	30	

Test Statistics[a,b]

	ZO1_PRE	LPS_PRE
Chi-Square	7.450	1.319
df	2	2
Asymp. Sig.	.024	.517

a. Kruskal Wallis Test

b. Grouping Variable: KLP_SAMPEL

```
ONEWAY PERUBAHAN_ZO1 BY KLP_SAMPEL
 /STATISTICS HOMOGENEITY
 /MISSING ANALYSIS
 /POSTHOC=TUKEY BONFERRONI ALPHA(0.05).
```

Oneway

Notes

Output Created		29-JAN-2022 14:13:00
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.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 are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY PERUBAHAN_ZO1 BY KLP_SAMPEL /STATISTICS HOMOGENEITY /MISSING ANALYSIS /POSTHOC=TUKEY BONFERRONI ALPHA(0.05).
Resources	Processor Time	00:00:00,02

Elapsed Time	00:00:00,01

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Test of Homogeneity of Variances

PERUBAHAN_ZO1

Levene Statistic	df1	df2	Sig.
2.872	2	27	.074

ANOVA

PERUBAHAN_ZO1

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	942.853	2	471.427	1.730	.196
Within Groups	7358.061	27	272.521		

Total	8300.914	29			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: PERUBAHAN_ZO1

	(I) KLP_SAMPEL	(J) KLP_SAMPEL	Mean Difference (I-J)	Std. Error	Sig.
Tukey HSD	NORMAL	OBESITAS	8.84440	7.38269	.465
		INTERVENSI	13.51948	7.38269	.179
	OBESITAS	NORMAL	-8.84440	7.38269	.465
		INTERVENSI	4.67508	7.38269	.803
	INTERVENSI	NORMAL	-13.51948	7.38269	.179

Bonferroni	NORMAL	OBESITAS	-4.67508	7.38269	.803
		OBESITAS	8.84440	7.38269	.724
		INTERVENSI	13.51948	7.38269	.234
	OBESITAS	NORMAL	-8.84440	7.38269	.724
		INTERVENSI	4.67508	7.38269	1.000
	INTERVENSI	NORMAL	-13.51948	7.38269	.234
		OBESITAS	-4.67508	7.38269	1.000

Multiple Comparisons

Dependent Variable: PERUBAHAN_ZO1

	(I) KLP_SAMPEL	(J) KLP_SAMPEL	95% Confidence Interval	
			Lower Bound	Upper Bound
Tukey HSD	NORMAL	OBESITAS	-9.4604	27.1492
		INTERVENSI	-4.7853	31.8243

Bonferroni	OBESITAS	NORMAL	-27.1492	9.4604
		INTERVENSI	-13.6297	22.9799
	INTERVENSI	NORMAL	-31.8243	4.7853
		OBESITAS	-22.9799	13.6297
	NORMAL	OBESITAS	-9.9996	27.6884
		INTERVENSI	-5.3245	32.3635
	OBESITAS	NORMAL	-27.6884	9.9996
		INTERVENSI	-14.1689	23.5191
	INTERVENSI	NORMAL	-32.3635	5.3245
		OBESITAS	-23.5191	14.1689

Homogeneous Subsets

PERUBAHAN_ZO1

	KLP_SAMPEL	N	Subset for alpha = 0.05
			1
Tukey HSD[a]	INTERVENSI	10	-10.9708
	OBESITAS	10	-6.2957
	NORMAL	10	2.5487
	Sig.		.179

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

```
NPAR TESTS
  /K-W=PERUBAHAN_LPS BY KLP_SAMPEL(1 3)
  /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		29-JAN-2022 14:13:44
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.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 are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /K-W=PERUBAHAN_LPS BY KLP_SAMPEL(1 3) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00
	Number of Cases Allowed[a]	112347

a. Based on availability of workspace memory.

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Kruskal-Wallis Test

Ranks

	KLP_SAMPEL	N	Mean Rank
PERUBAHAN_LPS	NORMAL	10	19.20
	OBESITAS	10	14.70
	INTERVENSI	10	12.60
	Total	30	

Test Statistics[a,b]

	PERUBAHAN_LPS
Chi-Square	2.934
df	2
Asymp. Sig.	.231

a. Kruskal Wallis Test

b. Grouping Variable:
KLP_SAMPEL

```
DESCRIPTIVES VARIABLES=UMUR BB TB IMT ZO1_PRE LPS_PRE
  /STATISTICS=MEAN STDDEV MIN MAX SEMEAN.
```

Descriptives

Notes

Output Created		29-JAN-2022 14:50:53
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.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 are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=UMUR BB TB IMT ZO1_PRE LPS_PRE /STATISTICS=MEAN STDDEV MIN MAX SEMEAN.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean		Std. Deviation
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic
UMUR	30	18	25	21.13	.348	1.907
BB	30	49.70	133.00	84.0600	4.19660	22.98572
TB	30	155.00	184.50	169.9333	1.26916	6.95147
IMT	30	19.40	41.50	28.7300	1.20466	6.59818
ZO1_PRE	30	4.63	64.70	20.6714	2.54845	13.95843
LPS_PRE	30	35.38	824.53	287.8793	38.45383	210.62028
Valid N (listwise)	30					

```
SORT CASES  BY KLP_SAMPEL.

SPLIT FILE LAYERED BY KLP_SAMPEL.

DESCRIPTIVES VARIABLES=UMUR BB TB IMT ZO1_PRE LPS_PRE

  /STATISTICS=MEAN STDDEV MIN MAX SEMEAN.
```

Descriptives

Notes

Output Created		29-JAN-2022 14:51:25
Comments		
Input	Data	C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	KLP_SAMPEL
	N of Rows in Working Data File	30
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.

Syntax		DESCRIPTIVES VARIABLES=UMUR BB TB IMT ZO1_PRE LPS_PRE /STATISTICS=MEAN STDDEV MIN MAX SEMEAN.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

[DataSet1] C:\Users\ACER\Documents\SPSS DATA LPS DAN ZO1.sav

Descriptive Statistics

KLP_SAMPEL		N	Minimum	Maximum	Mean	
		Statistic	Statistic	Statistic	Statistic	Std. Error
NORMAL	UMUR	10	20	24	21.10	.482

	BB	10	49.70	72.10	61.0300	2.70272
	TB	10	157.00	174.00	166.4000	1.85712
	IMT	10	19.40	24.60	21.9100	.64764
	ZO1_PRE	10	4.63	17.31	12.0470	1.32533
	LPS_PRE	10	48.43	600.62	229.1898	49.45937
	Valid N (listwise)	10				
	UMUR	10	18	25	20.20	.727
	BB	10	69.60	127.40	94.3100	5.68074
	TB	10	162.00	180.00	170.2000	1.79382
OBESITAS	IMT	10	25.90	41.00	32.2300	1.67279
	ZO1_PRE	10	10.90	64.70	25.8305	5.73690
	LPS_PRE	10	35.38	824.53	330.8464	84.42828
	Valid N (listwise)	10				
INTERVENSI	UMUR	10	20	24	22.10	.458

BB	10	75.90	133.00	96.8400	6.47426
TB	10	155.00	184.50	173.2000	2.51462
IMT	10	25.90	41.50	32.0500	1.74835
ZO1_PRE	10	7.10	48.91	24.1367	3.94418
LPS_PRE	10	114.83	731.99	303.6017	64.06552
Valid N (listwise)	10				

Descriptive Statistics

KLP_SAMPEL		Std. Deviation
		Statistic
NORMAL	UMUR	1.524
	BB	8.54674
	TB	5.87272
	IMT	2.04801

	ZO1_PRE	4.19105
	LPS_PRE	156.40426
	Valid N (listwise)	
OBESITAS	UMUR	2.300
	BB	17.96407
	TB	5.67255
	IMT	5.28983
	ZO1_PRE	18.14167
	LPS_PRE	266.98567
	Valid N (listwise)	
INTERVENSI	UMUR	1.449
	BB	20.47341
	TB	7.95194
	IMT	5.52876

ZO1_PRE	12.47258
LPS_PRE	202.59297
Valid N (listwise)	

Lampiran 4 Daftar Food Recall

No	Nama	Umur	No Telpon	Alamat	Riwayat Keluarga	Obat yang pernah di gunakan	Program Diet (Ya/Tidak)	Vitamin (Ya/Tidak)	Berat Badan	Tinggi Badan	Lingkar Pinggang	Lila	IMT	Food Recall	
														Sehari-hari	Weekend
1	Andrianus Wahyudi	25	085242909380	Tamalanre, BTP Blok G	Ayah				93	171	105	40	31.8	Nasi, sayur, ikan, ayam, telur, air mineral	Cemilan, junk food, minuman kekinian
2	Marsal Shiddiq K	18	088245794936	Jalan Masjid Raya Komp. Duta Mas Pertiwi Blok C					96.2	180	104	34	28.1	Nasi, sayur, ikan, ayam, telur, air mineral	Makanan siap saji
3	Dwi Deno Zubiranto	22	081245622198	Jl. P Kemerdekaan Komp Puri asri 3					80.2	162	103	32	30.5	Nasi, sayur, ikan, ayam, telur, air mineral, tahu, tempe	Makanan siap saji
4	Hafiz Khairun Marwan	21	087840950411	Jalan RSI Faisal XIV					74.9	170	90	34	25.9	Nasi, sayur, ikan, ayam, telur, air mineral, tahu, tempe	Junk Food
5	Andi Muhammad Fadel	18	081341530275	Jalan Gunung Menyapa Komplek Perum. Kedokteran					127.4	176	133	45	41	Nasi, sayur, ikan, ayam, telur, air mineral, tahu, tempe	Junk Food
6	Multazam Pratama M	20	08114640280	Masamba					90.8	167	106	37	32.5	Nasi, sayur, ikan, ayam, telur, air mineral, tahu, tempe	Junk Food
7	Haryadi Rahman	18	081524277790	Jalan Andi Mappanyukki Kab. Bone					100	170	112	38	34.6	Makanan siap jadi	Makanan siap saji
8	Muh. Reyhan Sakti	18	082199390648	Jalan dr. Wahidin					118.2	170	128	41	40.8	Makanan siap jadi	Makanan siap saji
9	Muh. Ridzky Afdal	21	081243154250	BTN Hartaco Blok III.P					92.8	174	111	38	30.6	Nasi, sayur, ikan, ayam, telur, air mineral, tahu, tempe	Makanan siap saji
10	M. Avizena Ilham S.	21	081779014748	Makassar					69.6	162	92	30	26.5	Makanan siap saji	Makanan siap saji

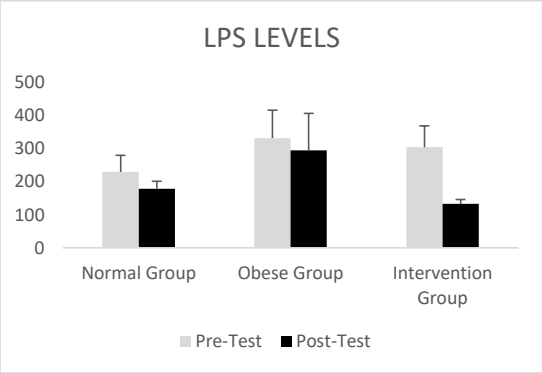
No	Nama	Umur	No Telpon	Alamat	Riwayat Keluarga	Obat yang pernah di gunakan	Program Diet (Ya/Tidak)	Vitamin (Ya/Tidak)	Berat Badan	Tinggi Badan	Lingkar Pinggang	Lila	IMT	Food Recall	
														Sehari-hari	Weekend
1	Armyn Dwi Putra	22	082293451192	Bulussele					54.7	157	74	29	22.1	Nasi, sayur, ikan, ayam, telur, air mineral	Cemilan, makanan siap saji
2	Andri Pratama	24	082293185079	Jl Mannuruki XI No. 16 A					72.1	171	88	28	24.6	Nasi, ayam, bakso, mie instan, air mineral, tahu tempe	Piscok, air mineral
3	Dzulfahri Kurniawan	23	082237600100						70.6	174	90	28	23.3	Nasi, ayam, bakso, mie instan, air mineral, tahu tempe	Makanan siap saji
4	Muh Rafsanjani	23	085240343244						70.6	170	89	28	24.4	Nasi, ayam, bakso, mie instan, air mineral, tahu tempe	Cemilan, makanan siap saji
5	Andi Dwi Hermin alfia	20	085252013561	Jl. Bung Bukit Magfirah					58.5	166	72	28	21.2	Nasi, ayam, bakso, mie instan, air mineral, tahu tempe	Snack
6	Muzakkir	20	0887436547752	Paddangeng Kab. Soppeng					50.6	159	72	25	20	Nasi, tahu, tempe, telur, mie instan, air mineral	Makanan siap saji
7	Zulheril	20	085256008077	Kampung Tangnga Galesong Utara					57.7	167	76	27	20.6	Nasi, sayur, ikan, ayam, telur, air mineral	Cemilan, makanan siap saji
8	Yusuf	23	085824396799	Makassar					67.9	168	91	29	24	Nasi, ayam, daging, air mineral, sayur	Junk Food
9	A. Muh. Arya	21	081341493546	Makassar					49.7	160	69	25	19.4	Nasi, tahu, tempe, telur, mie instan, air mineral	Makanan siap saji
10	Muh. Fadil Asrar	22	081242013374	Durikumba Karossa					57.9	172	73	25	19.5	Nasi, tahu, tempe, telur, mie instan, air mineral	Makanan siap saji

No	Nama	Umur	No Telpon	Alamat	Riwayat Keluarga	Obat yang pernah di gunakan	Program Diet (Ya/Tidak)	Vitamin (Ya/Tidak)	Berat Badan	Tinggi Badan	Lingkar Pinggang	Lila	IMT	Food Recall	
														Sehari-hari	Weekend
1	Andi Bagaskara Sudirman	23	082293437115	BTP Blok AF, No. 561	Ibu dan Bapak				133	179	117	47	41.5	Nasi, sayur, ikan, ayam, telur, air mineral	Yogurt
2	Mufthiar Muhtar	23	082333000998	Jl. Mangga, No. 23	ibu				113.3	176	119	42	36	Nasi, sayur, ikan, ayam, telur, air mineral	Nasi, sayur, ikan, ayam, telur, air mineral
3	Satria Mandala B	24	081340476221	Jl. Banji Minasa III	Ayah				123	175	125	40	40.1	Makanan cepat saji, minuman kekinian, coklat	Makanan cepat saji, minuman kekinian, cemilan
4	Firman Arafat	23	081355810525	Kel. Kayu Merah	Ayah				79.8	167	95	35	28.6	Nasi, sayur, ikan, ayam, telur, air mineral, the manis	Makanan siap saji
5	Muh Agung G	23	081242312344	Sossok	Ibu				93.2	184.5	100	30	27.2	Nasi, sayur, ikan, ayam, telur, air mineral	Cemilan, minuman kekinian
6	Sultan Govinda	23	082293723868	Jl. Bontroduri 6 LR 8 STP 1 No. 02					75.9	171	91	29	25.9	Susu, roti, sayur, nasi, ikan	Susu, roti, sayur, nasi, ikan
7	Fadli Muhammad Ilham	23	082345622904	BTP Blok AF, No. 561	Ibu				90.9	173	99	32	30.3	Nasi, sayur, ikan, ayam, telur, air mineral	Cemilan, makanan siap saji
8	Muh Syahidul Haq	20	082333346452	Pare-Pare	Ayah				76.3	155	100	33	31.7	Nasi, sayur, ikan, ayam, telur, air mineral	junk food
9	Agung Muhajir	23	081242776868	Awola Gading Kab. Wajo	Ayah				84.8	168.5	104	35	30	Nasi, sayur, ikan, ayam, telur, air mineral	Cemilan
10	Rafli Dwi Wahyudi	21	081354357137	BTP Blok AF, No. 561	Ibu				101.9	179	110	43	31.8	Nasi, sayur, ikan, ayam, telur, air mineral	Nasi, sayur, ikan, ayam, telur, air mineral, mie instan
11	Muhammad Syukur	21	082292560830	Doule Sulawesi Tenggara					76.1	171	94	33	26	Makanan siap saji	Makanan siap saji

Lampiran 5 Daftar Sampel LPS

	Normal Group (Pre-Test)	Normal Group (Post-Test)	Obese Group (Pre-Test)	Obese Group (Post-Test)	Intervention Group (Pre-Test)	Intervention Group (Post-Test)
	192.1920561	125.2382664	824.5277763	323.7327102	143.5268646	91.59699186
	345.7696242	139.1561693	227.6760907	140.6030511	221.832949	132.0720098
	134.8756237	136.2924556	183.4551507	125.2382664	136.2924556	111.0854954
	139.1561693	212.2947123	408.5013183	147.9877098	525.8754433	113.5685767
	600.6226221	101.5538358	171.6441822	152.5387047	439.1815483	76.80524748
	48.43224026	103.8766509	769.844233	171.6441822	323.7327102	186.9198629
	174.9686614	160.3240291	188.667244	171.6441822	203.0068917	154.0757363
	133.4688084	241.6606705	35.38341374	163.5082753	114.8251423	133.4688084
	302.5071443	282.0929263	147.9877098	1277.202129	731.9865562	103.8766509
	219.9052684	279.874763	350.7768993	271.1022765	195.7569347	217.9876044
MEAN	229.1898218	178.2364479	330.8464018	294.5201488	303.6017496	132.1456984
SD	156.4042552	70.01979376	266.9856713	350.9359038	202.5929738	43.64792002
SEM	49.45936821	22.14220296	84.42828241	110.9756769	64.06552351	13.80268424

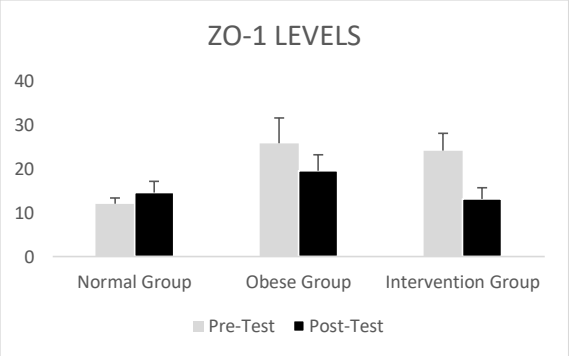
	Normal Group		Obese Group		Intervention Group	
	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-Test	Post-Test
MEAN	229.1898218	178.2364479	330.8464018	294.5201488	303.6017496	132.1456984
SD	156.4042552	70.01979376	266.9856713	350.9359038	202.5929738	43.64792002
SEM	49.45936821	22.14220296	84.42828241	110.9756769	64.06552351	13.80268424
				ERROR BAR		
	Pre-Test	Post-Test		SEM (PRE)	SEM (POST)	
Normal Group	229.1898218	178.2364479		49.45936821	22.14220296	
Obese Group	330.8464018	294.5201488		84.42828241	110.9756769	
Intervention Group	303.6017496	132.1456984		64.06552351	13.80268424	



Lampiran 6 Daftar Sampel ZO-1

	Normal Group (Pre-Test)	Normal Group (Post-Test)	Obese Group (Pre-Test)	Obese Group (Post-Test)	Intervention Group (Pre-Test)	Intervention Group (Post-Test)
	15.85	10.90111395	64.699896	9.802183901	48.91296988	8.538486751
	4.63	20.23856883	31.4678075	14.45770654	27.2384401	12.2593651
	12.60	13.69699039	13.69699039	16.88804784	32.46716739	30.90380058
	5.84	8.500418501	20.23856883	44.69394882	10.49914975	8.297229752
	12.96	10.26389187	18.85668119	33.60408768	25.45167038	20.83658542
	17.31	30.87133482	51.45151118	18.63176945	27.84083156	1.887212895
	14.07	24.45570575	10.90111395	6.95923445	7.103697683	16.43915032
	14.85	12.42516866	14.26521199	9.208184743	26.93851966	10.99781745
	13.14	5.540465712	16.25962289	18.18657699	25.15685111	11.24842659
	9.21	9.063544143	16.4675542	22.91636318	9.757524664	10.25109119
MEAN	12.0470088	14.59572026	25.83049581	19.53481036	24.13668222	13.1659166
SD	4.191051478	8.039111731	18.14166534	11.72502351	12.47258458	7.987542993
SEM	1.325326846	2.542190343	5.736898302	3.707777991	3.944177559	2.525882877

	Normal Group		Obese Group		Intervention Group	
	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-Test	Post-Test
MEAN	12.0470088	14.59572026	25.83049581	19.53481036	24.13668222	13.1659166
SD	4.191051478	8.039111731	18.14166534	11.72502351	12.47258458	7.987542993
SEM	1.325326846	2.542190343	5.736898302	3.707777991	3.944177559	2.525882877
				ERROR BAR		
	Pre-Test	Post-Test		SEM (PRE)	SEM (POST)	
Normal Group	12.0470088	14.59572026		1.325326846	2.542190343	
Obese Group	25.83049581	19.53481036		5.736898302	3.707777991	
Intervention Group	24.13668222	13.1659166		3.944177559	2.525882877	



Lampiran 7 Laporan Pengujian Analisis Cemaran Mikroba/Mikrobiologi

LABORATORIUM MIKROBIOLOGI
FAKULTAS FARMASI
UNIVERSITAS HASANUDDIN
Jl. Perintis Kemerdekaan KM 10 Tamalanrea makassar.

LAPORAN PENGUJIAN

No : 001 / Lab. Mikfar / II /2021

Nama Pelanggan : Armanto Makmun

Sampel / Contoh : Ekstrak Beras Hitam

Analisis / Uji : Analisis Cemaran Mikroba / Mikrobiologi

Tanggal Terima : 11/ 01/ 2021

Tanggal Analisa : 08/ 02 / 2021

Hasil

No.	Kode / Nama Sampel	Jenis Pengujian	Hasil Pengujian	Syarat per gram atau mL (Standar BPOM Tahun 2019)	Metode Uji
1.	Ekstrak Beras Hitam	Angka Lempeng Total (ALT)	4.6×10^3 koloni/g	Tidak lebih dari 10^3 koloni / g atau koloni / mL	BPOM No.13 Tahun 2019
		Staphylococcus aureus	Negatf	Negatif per 0.1 g atau 0.1 mL sampel (contoh uji)	
		Salmonella sp	Negatif	Negatif per 0.1 g atau 0.1 mL sampel (contoh uji)	

Makassar, 10 Februari 2021

Kepala Labbratorium Mikrobiologi

Dr. Harlina Rante, S.Si, M.Si, Apt

Nip. 19771125 200212 2 003

Lampiran 8 Data Hasil Analisa Kadar Etanol

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
POLITEKNIK NEGERI UJUNG PANDANG
Jalan Perintis Kemerdekaan Km. 10 Tamalanrea, Makassar 90245
Telepon: (0411)-585365, 585367, 585368; Faksimili: (0411)-586043
Website : http://www.poliupg.ac.id/
E-Mail : pnup@poliupg.ac.id

HASIL ANALISA KADAR ETANOL

Berdasarkan hasil dari data kromatogram GC-FID (Gas Chromatography-Flame Ionization Detector) dibawah ini kami lampirkan tabel kadar etanol pada sampel uji:

TABEL1. DATA KROMATOGRAM

SAMPEL	RET. TIME	AREA
BERAS HITAM	3.002	1548
ETANOL 70%	2.961	18524874

Perhitungan:

$$\% \text{ Etanol} = \frac{\text{Area Sampel} \quad x100\%}{\text{Area STD Etanol}}$$

$$= \frac{1548 \ x \ 100\%}{18524874}$$

$$= \mathbf{5{,}8X10^{-3}}$$

Makassar, 8 Oktober 2020

Akhmad Rifai, S.Si., M.Si.
PLP Lab.Analitik Instrumen

Lampiran 9 Surat Pencatatan CIptaan

REPUBLIK INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SURAT PENCATATAN CIPTAAN

Dalam rangka pelindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan	:	EC00202182175, 21 Desember 2021
Pencipta		
Nama	:	**dr. Armanto Makmun, M.Kes., dr. Rachmat Faisal Syamsu, M.Kes dkk**
Alamat	:	BTP Jl. Kemuliaan Bangkala No. 61 C, Makassar, SULAWESI SELATAN, 90245
Kewarganegaraan	:	Indonesia
Pemegang Hak Cipta		
Nama	:	**LPPM Universitas Hasanuddin**
Alamat	:	Jl. Perintis Kemerdekaan Km. 10, Tamalanrea, Makassar, SULAWESI SELATAN, 90245
Kewarganegaraan	:	Indonesia
Jenis Ciptaan	:	**Karya Ilmiah**
Judul Ciptaan	:	**Pembuatan Ekstrak Beras Hitam (Oryza Sativa L.Indica) Dalam Bentuk Minuman Kesehatan Untuk Manusia**
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia	:	10 Februari 2021, di Makassar
Jangka waktu pelindungan	:	Berlaku selama hidup Pencipta dan terus berlangsung selama 70 (tujuh puluh) tahun setelah Pencipta meninggal dunia, terhitung mulai tanggal 1 Januari tahun berikutnya.
Nomor pencatatan	:	000306835

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n Menteri Hukum dan Hak Asasi Manusia
Direktur Jenderal Kekayaan Intelektual
u.b.
Direktur Hak Cipta dan Desain Industri

Dr. Syarifuddin, S.T., M.H.
NIP.197112182002121001

LAMPIRAN PENCIPTA

No	Nama	Alamat
1	dr. Armanto Makmun, M.Kes.	BTP Jl. Kemuliaan Bangkala No. 61 C
2	dr. Rachmat Faisal Syamsu, M.Kes	Jl. Palm Merah No.22
3	dr. Agussalim Bukhari, M.Med, Ph.D, Sp.GK(K)	Jl. Rappocini Raya LR.IV No.2
4	Prof. Dr. dr. Nur Pudji Astuti Daud, MPH, Sp.GK(K)	Komp. Dosen UNHAS Tamalanrea Blok H/11
5	dr. Aminuddin, Ph.D, M. Nu & Diet, Sp.GK	Jl. AP. Pettarani Blok E.20 No.6

BIODATA PENELITI UTAMA

Lampiran 10 Foto Kegiatan Penelitian

1. Pengambilan beras hitam

2. Persiapan alat dan bahan

3. Proses penimbangan beras hitam

4. Proses pengadukan sampel dengan batang pengaduk

5. Proses sonikasi

6. Proses ekstraksi

7. Proses penyaringan

8. Proses beras hitam didiamkan

9. Proses vapor

Hasil akhir