DAFTAR PUSTAKA

1. Abdullah N. Hubungan Status Kesehatan Gigi dan Mulut Anak Sekolah dengan Pelaksanaan UKGS (Usaha Kesehatan Gigi Sekolah) di Sekolah Dasar dan Sederajat se-kota Makassar. Jurnal Media Kesehatan Gigi. 2018. 17(1): 33

2. Syafriani I, Kriana PS. Gambaran Pengetahuan Orang Tua Siswa Kelas I tentang Karies pada Gigi Molar Satu Permanen . Jurnal Kesehatan Gigi. 2019. 6(1): 1

3. Rosdiana N, Abdillah IN. Gambaran Daya Hambat Minyak Kelapa Murni dan Minyak Kayu Putih dalam Menghambat Pertumbuhan Streptococcus mutans. Journal of Syiah Kuala Dentistry Society. 2016. 1(1): 43

4. Adi P, Fidya, Noviana FS. Pengaruh Ekstrak Etanol Kulit Jeruk Nipis (Citrus Aurantifolia) terhadap Jumlah Il-6 pada Gingiva Tikus yang Diinduksi Actinobacillus actinomycetemcomitans. Jurnal Prodenta 2017: 6-7

5. Banerjee S, Sanjeeta N, Premlata DT, Nandini DB, Saikat M, Soumya D. Cytotoxic effect of chlorhexidine gluconate mouthwash – A micronuclei-assay. International Journal of Applied Dental Science. 2017. 3(3): 83

6. Ramadhani N, Sri AS. Aktivitas Antiinflamasi berbagai Tanaman diduga berasal dari Flavonoid. Jurnal Farmaka Suplemen. 2017.14(2): 113-114

7. Harirforoosh S, Waheed A, Fakhreddin J. Adverse Effects of Nonsteroidal Antiinflammatory Drugs: An Update of Gastrointestinal, Cardiovascular and Renal Complications. Journal Pharm-sci Canada. 2013. 16(5): 825-837

8. Hindun S , Taofik R, Marline A, Reti H. Potensi Limbah Kulit Jeruk Nipis (Citrus Auronfolia) sebagai Inhibitor Tirosinase. IJPST. 2017. 4(2): 65

9. Adindaputri Z, Nunuk P, Ivan AW. Pengaruh Ekstrak Kulit Jeruk Nipis (Citrus Aurantifolia Swingle) Konsentrasi 10% Terhadap Aktivitas Enzim Glukosiltransferase Streptococcus mutans. Jurnal Majalah Kedokteran Gigi. 2013. 20(2): 127

10. Aladekoyi G. Omosuli S.V. Orungbemi O.O. Adesuyi A. T. Evaluation Of Antimicrobial Activity Of Oil Extracted From Three Different Citrus Seeds (Citrus Limon, Citrus Aurantifolia And Citrus Aurantium). International Journal of Scientific Research and Engineering Studies (IJSRES). 2016. 3(3): 17

11. Munawaroh R. Optimum Conditions for Extraction of Antibacterial Compounds from Citrus Aurantifolia Fruit Peel Waste Rima. Journal of PHARMACON. 2017. 18(1): 34

12. Erlianda D, Mochamad FR, Sarworini BB. Antibacterial Effect of Flavonoids from Propolis Produced by Trigona on Atpase Activity of Streptococcus mutans. International Journal of Applied Pharmaceutics. 2017. 9(2): 8

13. Sikri VK. Dental Caries. 1st Ed. New Delhi : CBS Publisher & Distributors. 2017: 27

14. Kidd E, Ole F. Essentials of Dental Caries. 4th Ed. Great Clarendon : OXFORD University Press. 2016: 6

15. Yadav K, Satyam P. Dental Caries : A Review. Asian Journal of Biomedical and Pharmaceutical Sciences. 2016. 6(53): 1-2

16. Chen L, Huidan D, Hengmin C, Jing F, Zhicai Z, Junliang D, et all. Inflammatory responses and inflammation-associated diseases in organs. Impact Journal-Oncotarget. 2018. 9(6): 7204

17. Punchard NA, Cliff JW, Ian A. The Journal of Inflammation. Biomed Central. 2004. 1(1): 1

18. Dara AI, Ami T. Aktivitas Antiinflamasi dari Berbagai Tanaman : Sebuah Review. Jurnal Farmaka. 2016. 14(3): 78

19. Karch AM. Focus on Nursing Pharmacology. 5thEd. Philadelphia: Wolters Kluwer Health. 2011: 239

20. Singh B, Ritu S. Gingivitis-A silent disease. IOSR Journal of Dental and Medical Sciences. 2013. 6(5): 30

21. Madhuri SV, Lahari B. Dentifrices: An overview from past to present. International Journal of Applied Dental Sciences. 2017. 3(4): 353-4

22. Enejoh OS, Ibukun OO, Madu SB, Isaiah SO, Mohammed MS, Suleiman FA. Ethnomedical Importance of Citrus Aurantifolia (Christm) Swingle. The Pharma Innovation Journal. 2015. 4(8): 1

23. Narang N, Wannee J. Anticancer Activity of Key Lime, Citrus aurantifolia. Journal of Wolter Kluwer Pharmacognosy. 2016. 10(20): 118

24. Oluwasina OO , Ifunanya VE, Clement O , Victor O. Antimicrobial potential of toothpaste formulated from extracts of Syzygium aromaticum, Dennettia tripetala and Jatropha curcas latex against some oral pathogenic microorganisms. Springer Open Access Journal. 2019. 9(20): 2

25. Wardani RP , Mahmud K, Sartari EY. Pengaruh Ekstrak Etanol Kulit Jeruk Nipis (Citrus aurantifolia (Christm.) Swingle) terhadap Penyembuhan Ulkus Traumatik pada Rattus norvegicus strain Wistar. Jurnal Ilmu Kedokteran Gigi. 2017. 1(1): 23

26. Achmad MH, Sri R, Filipus ER. Streptococcus Colonial Growth of Dental Plaque Inhibition Using Flavonoid Extract of Ants Nest (Myrmecodia

pendans): An in Vitro Study. Journal of Association of Support to Oral Health Research. 2019: 2-3, 7-8

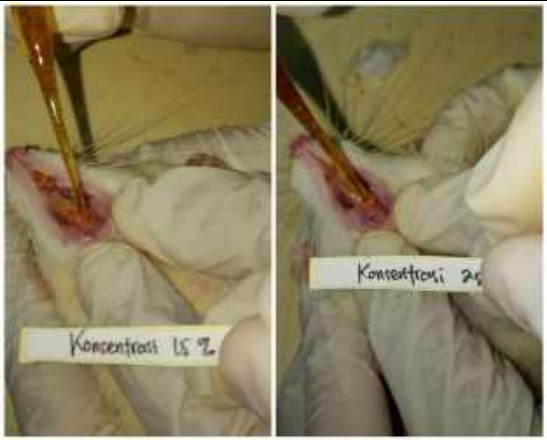
LAMPIRAN

No.	Kegiatan	Bukti Pendukung Kegiatan
1.	Pengumpulan limbah kulit jeruk nipis	
2.	Pensortiran dan pencucian kulit jeruk nipis	 
3.	Dianginkan dan pengeringan dengan *herbs dryer*	 

4.	Maserasi	 
5.	Sonikasi	
6.	Ekstraksi kulit jeruk nipis	 

7.	Pembuatan ekstrak kental	
8.	Pembuatan sediaan pasta gigi	
9.	Evaluasi sediaan pasta gigi	 
10.	Evaluasi sediaan pasta gigi	   

11.	Peremajaan bakteri *S.mutans*	
12.	Kultur bakteri *S.mutans*	
13.	Pembuatan supernatan enzim GTF	
14.	Hewan uji diadaptasikan	
15.	Hewan uji diadaptasikan	

16.	Pengujian aktivitas antiinflamasi	
17.	Pengujian aktivitas antiinflamasi	
18.	Uji Daya Hambat (Uji Aktivitas Antibakteri)	
19.	Uji Daya Hambat (Uji Aktivitas Antibakteri)	

20.	Pasta gigi ekstrak kulit jeruk nipis	

KEMENTRIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI

UNIVERSITAS HASANUDDIN

DEPARTEMEN ILMU BAHAN KEDOKTERAN GIGI

RSGM FKG Unhas, Jln. Perintis Kemerdekaan Km.10 Tamalanrea, Makassar

Telp (0411) 56777

KARTU KONTROL SKRIPSI

Nama : Aafiah Ifada

NIM : J011171017

Dosen Pembimbing : drg. Lenny Indriani Hatta, M.Kes

Judul : Pemanfaatan Limbah Kulit Jeruk Nipis *(Citrus Aurantiifolia Swingle)* sebagai Bahan Aktif pasta Gigi Pencegah Karies dan Inflamasi

No.	Hari, Tanggal	Materi Konsultasi	Paraf		Hasil Konsultasi
			Pembimbing	Mahasiswa	
1.	5 Desember 2019	Pengajuan judul skripsi			Pengajuan penelitian Program Kreativitas Mahasiswa menjadi bahan skripsi
2.	11 Desember 2019	Acc judul skripsi			Membuat format hasil penelitian sesuai format penyusunan skripsi
3.	22 Januari 2020	Konsultasi skripsi			Konsultasi terkait penyelesaian skripsi
4.	2 Maret 2020	Konsultasi skripsi			Konsultasi terkait penyelesaian skripsi
5.	13 Maret 2020	Konsultasi skripsi			Konsultasi terkait penyelesaian skripsi
6.	16 Maret 2020	Konsultasi			Mengumpulkan

	Suripsi				Suripsi
7.	30 Maret 2010	konsultasi suripsi			Revisi suripsi
8.	10 April 2010	konsultasi suripsi			Mengumpulkan hasil revisi suripsi
9.	6 Mei 2010	Acc suripsi			Arahan untuk menceraw suripsi

Makassar, 5 Desember 2019

Pembimbing

Dr. drg. Lenny Indriani Hatta, M.Kes

KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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FAKULTAS KEDOKTERAN GIGI
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SURAT PENUGASAN
No. 3446/UN4.13/TD.06/2019

Dari : Dekan Fakultas Kedokteran Gigi Universitas Hasanuddin

Kepada : **Dr. drg. Lenny Indriani Hatta, M.Kes**

Isi : 1. Menugaskan kepada **Dr. drg. Lenny Indriani Hatta, M.Kes** sebagai Dosen Pembimbing Skripsi pada Pendidikan Kedokteran Gigi Fakultas Kedokteran Gigi Universitas Hasanuddin pada Semester Awal 2019/2020 untuk mahasiswa:

Angkatan 2014:
- Fariz Alif Ichsan (J11114510)

Angkatan 2017:
- Asfiah Ifada (J111171017)

2. Bahwa Saudara yang namanya tersebut pada surat penugasan ini dipandang cakap dan memenuhi syarat untuk melaksanakan tugas tersebut.
3. Agar Penugasan ini dilaksanakan dengan sebaik-baiknya dengan penuh rasa tanggung jawab.
4. Surat Penugasan ini berlaku sejak tanggal ditetapkan, dengan ketentuan bahwa apabila dikemudian hari terdapat kekeliruan dalam surat penugasan ini, akan diadakan perbaikan sebagaimana mestinya

Ditetapkan di Makassar
Pada tanggal ... Desember 2019

drg. Muhammad Ruslin, M.Kes., Ph.D., Sp.BM(K)
NIP 19730702 200112 1 001

Tembusan Yth:
1. Wakil Dekan Bidang Akademik, Riset dan Inovasi FKG Unhas
2. Kepala Bagian Tata Usaha FKG Unhas
3. Yang bersangkutan

ASEAN University Network
Certificate Number: AP1590NIASN0Y18

D: A_Jeb's/Arsip/Surat Penugasan/Majid

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Website : www.dent.unhas.ac.id, Email : fkg@unhas.ac.id

No : 895 /UN4.13.1/PL.00.00/2019 — 10 April 2019
Perihal : Izin Penelitian

Kepada Yth.
- **Dekan Fakultas Farmasi Universitas Hasanuddin**
- **Kepala Laboratorium Pusat Kegiatan Penelitian Unhas**

Makassar

Dengan hormat kami sampaikan bahwa dalam rangka penyusunan proposal Program Kreatifitas Mahasiswa (PKM) maka mahasiswa di bawah ini:

Nama Ketua Tim : **Aaflah Ilada (J011171017)**
Anggota : **Michelle Liemdier (J011171512)**
Anggota : **Nur Rahmah (N0111 71 033)**

Judul Penelitian : **"Agen Imout (*anticariogenic and inflammatory toothpaste for daily mouth care*): Pemanfaatan Limbah Kulit Jeruk Nipis sebagai Bahan Aktif Antikaries dan Antiinflamasi Pasta Gigi untuk Penderita Diabetes".**

bermaksud melakukan penelitian di **Laboratorium Mikrobiologi, Laboratorium Farmasetika, Laboratorium Biofarmaka Fakultas Farmasi Unhas dan Laboratorium Pusat Kegiatan Penelitian Unhas** pada bulan April - Juli 2019.

Sehubungan dengan itu, kiranya Mahasiswa tersebut dapat diberikan **izin penelitian** untuk penyusunan proposal Program Kreatifitas Mahasiswa (PKM).

Demikian, atas perhatian dan kerjasamanya diucapkan terima kasih.

Bidang Akademik, Riset dan

Prof. Dr. Ir. Edy Machmud, Sp. Pros(K)
NIP. 19631104 199401 1 001

Tembusan Yth
1. Dekan FKG Unhas (sebagai laporan)
2. Kepala Laboratorium Mikrobiologi Fakultas Farmasi Unhas
3. Kepala Laboratorium Farmasetika Fakultas Farmasi Unhas
4. Kepala Laboratorium Biofarmaka Fakultas Farmasi Unhas
5. Kepala Bagian Tata Usaha FKG Unhas

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.Kandea No. 5 Makassar
Contact Person: drg. Muhammad Ikbal, Sp.Pros/Ayu Teyrawati TELP. 081342971011/085396448438

REKOMENDASI PERSETUJUAN ETIK

Nomor: 0137/FL.09/KEPK FKG-RSGM UNHAS/2019

Tanggal: 16 Mei 2019

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

No. Protokol	UH 17120142	No Protokol Sponsor	
Peneliti Utama	Aafiah Ifada, Michelle Licindier, Nur Rahma	Sponsor	Pribadi
Judul Peneliti	Agen Imout (Anticariogenic And Inflammatory Tootpaste for Daily Mouth Care) : Pemanfaatan Limbah Kulit Jeruk Nipis Sebagai Bahan Aktif Antikaries dan Antiinflamasi Pasta Gigi untuk Penderita Diabetes.		
No. Versi Protokol	1	Tanggal Versi	29 April 2019
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	Laboratorium Biofarmaka, Farmasetika, Farmakognosi, Mikrobiologi Fakultas Farmasi Universitas Hasanuddin		
Dokumen Lain			
Jenis Review	☐ Exempted ☒ Expedited ☐ Fullboard	Masa Berlaku 16 Mei 2019	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.Pros	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.

HASIL ANALISIS DATA

```
EXAMINE VARIABLES=Ekstrak_kulit_jeruk_nipis_5 Ekstrak_kulit_jeruk_nipis_15
  Ekstrak_kulit_jeruk_nipis_25 kontrol_positif kontrol_negatif
 /PLOT BOXPLOT NPPLOT
 /COMPARE GROUPS
 /STATISTICS DESCRIPTIVES
 /CINTERVAL 95
 /MISSING LISTWISE
 /NOTOTAL.
```

Explore

Notes

Output Created		16-FEB-2020 21:14:56
Comments		
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	Split File	<none>
	N of Rows in Working Data File	5
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=Ekstrak_kulit_jeruk_nipis_5 Ekstrak_kulit_jeruk_nipis_15 Ekstrak_kulit_jeruk_nipis_25 kontrol_positif kontrol_negatif /PLOT BOXPLOT NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:02.42
	Elapsed Time	00:00:02.39

Warnings

kontrol_negatif is constant. It will be included in any boxplots produced but other output will be omitted.

Case Processing Summary

	Cases		
	Valid	Missing	Total

	N	Percent	N	Percent	N	Percent
Ekstrak_kulit_jeruk_nipis_5	5	100.0%	0	0.0%	5	100.0%
Ekstrak_kulit_jeruk_nipis_15	5	100.0%	0	0.0%	5	100.0%
Ekstrak_kulit_jeruk_nipis_25	5	100.0%	0	0.0%	5	100.0%
kontrol_positif	5	100.0%	0	0.0%	5	100.0%
kontrol_negatif	5	100.0%	0	0.0%	5	100.0%

Descriptives[a]

			Statistic	Std. Error
Ekstrak_kulit_jeruk_nipis_5	Mean		2.2000	.08367
	95% Confidence Interval for Mean	Lower Bound	1.9677	
		Upper Bound	2.4323	
	5% Trimmed Mean		2.2056	
	Median		2.2000	
	Variance		.035	
	Std. Deviation		.18708	
	Minimum		1.90	
	Maximum		2.40	
	Range		.50	
	Interquartile Range		.30	
	Skewness		-1.145	.913

	Kurtosis		2.000	2.000
Ekstrak_kulit_jeruk_nipis_15	Mean		3.6000	.07071
	95% Confidence Interval for Mean	Lower Bound	3.4037	
		Upper Bound	3.7963	
	5% Trimmed Mean		3.6000	
	Median		3.6000	
	Variance		.025	
	Std. Deviation		.15811	
	Minimum		3.40	
	Maximum		3.80	
	Range		.40	
	Interquartile Range		.30	
	Skewness		.000	.913
	Kurtosis		-1.200	2.000
Ekstrak_kulit_jeruk_nipis_25	Mean		5.2000	.13784
	95% Confidence Interval for Mean	Lower Bound	4.8173	
		Upper Bound	5.5827	
	5% Trimmed Mean		5.1944	
	Median		5.2000	
	Variance		.095	
	Std. Deviation		.30822	
	Minimum		4.90	
	Maximum		5.60	
	Range		.70	

	Interquartile Range		.60	
	Skewness		.256	.913
	Kurtosis		-1.989	2.000
kontrol_positif	Mean		15.8000	.09487
	95% Confidence Interval for Mean	Lower Bound	15.5366	
		Upper Bound	16.0634	
	5% Trimmed Mean		15.8056	
	Median		15.8000	
	Variance		.045	
	Std. Deviation		.21213	
	Minimum		15.50	
	Maximum		16.00	
	Range		.50	
	Interquartile Range		.40	
	Skewness		-.524	.913
	Kurtosis		-.963	2.000

a. kontrol_negatif is constant. It has been omitted.

Tests of Normality[c]

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Ekstrak_kulit_jeruk_nipis_5	.300	5	.161	.908	5	.453

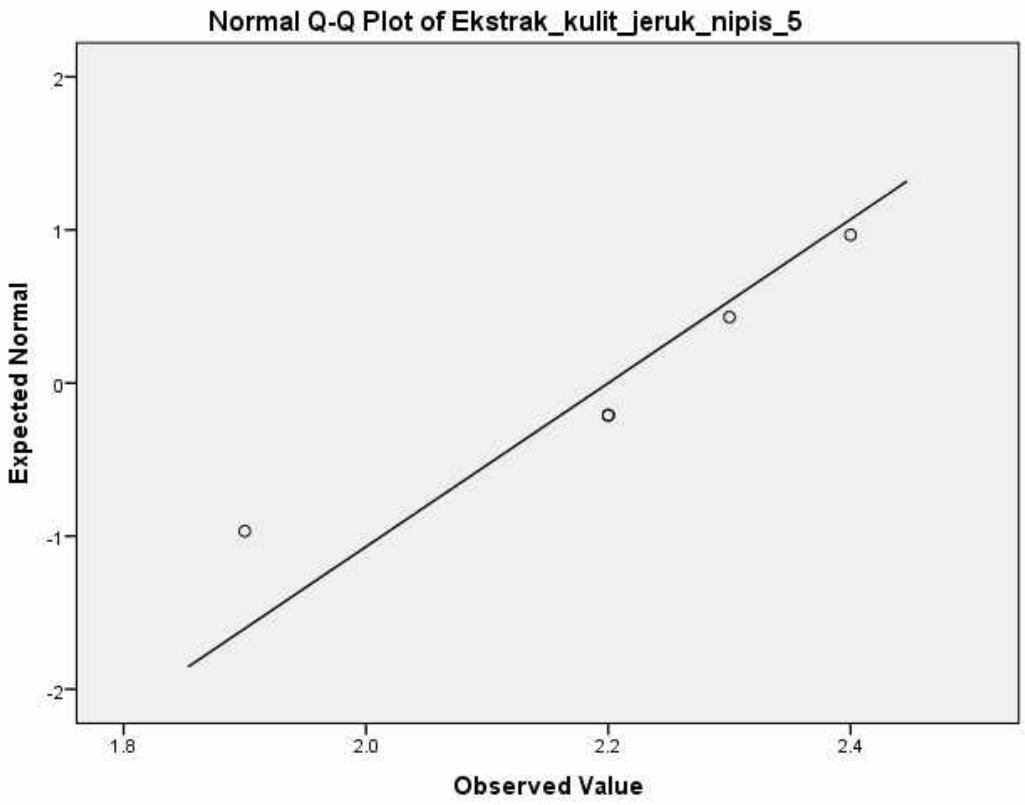
Ekstrak_kulit_jeruk_nipis_15	.136	5	.200*	.987	5	.967
Ekstrak_kulit_jeruk_nipis_25	.235	5	.200*	.903	5	.429
kontrol_positif	.227	5	.200*	.910	5	.468

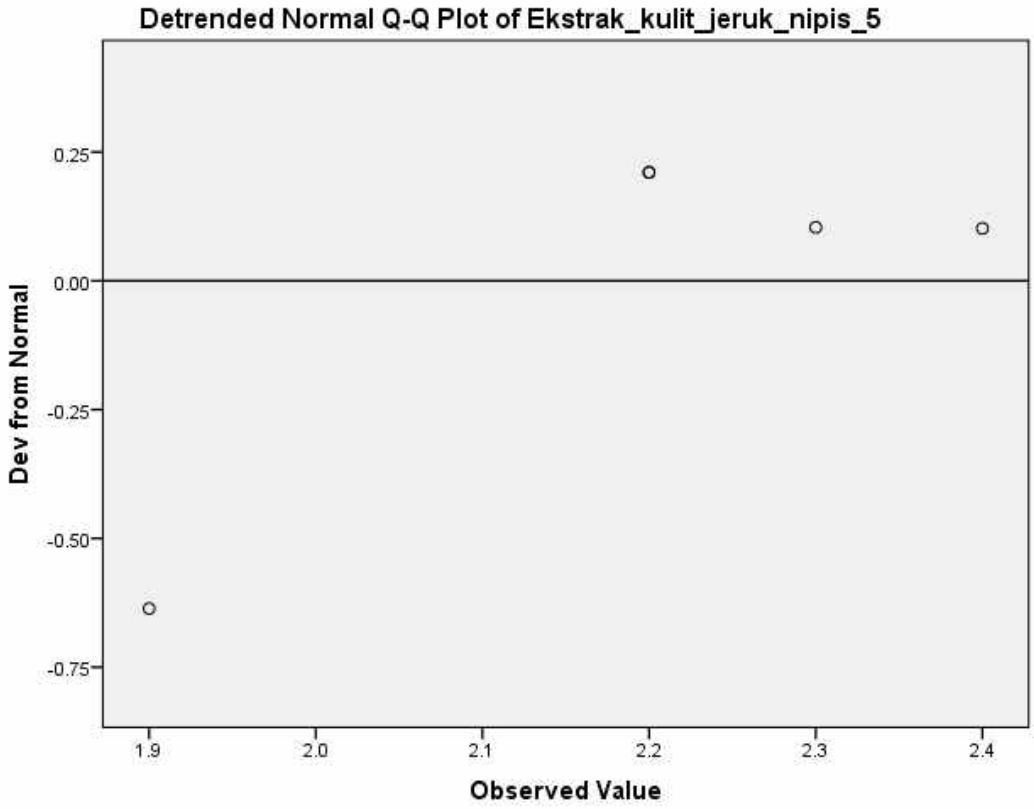
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

c. kontrol_negatif is constant. It has been omitted.

Ekstrak_kulit_jeruk_nipis_5

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Dev from Normal
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0.00
-0.25
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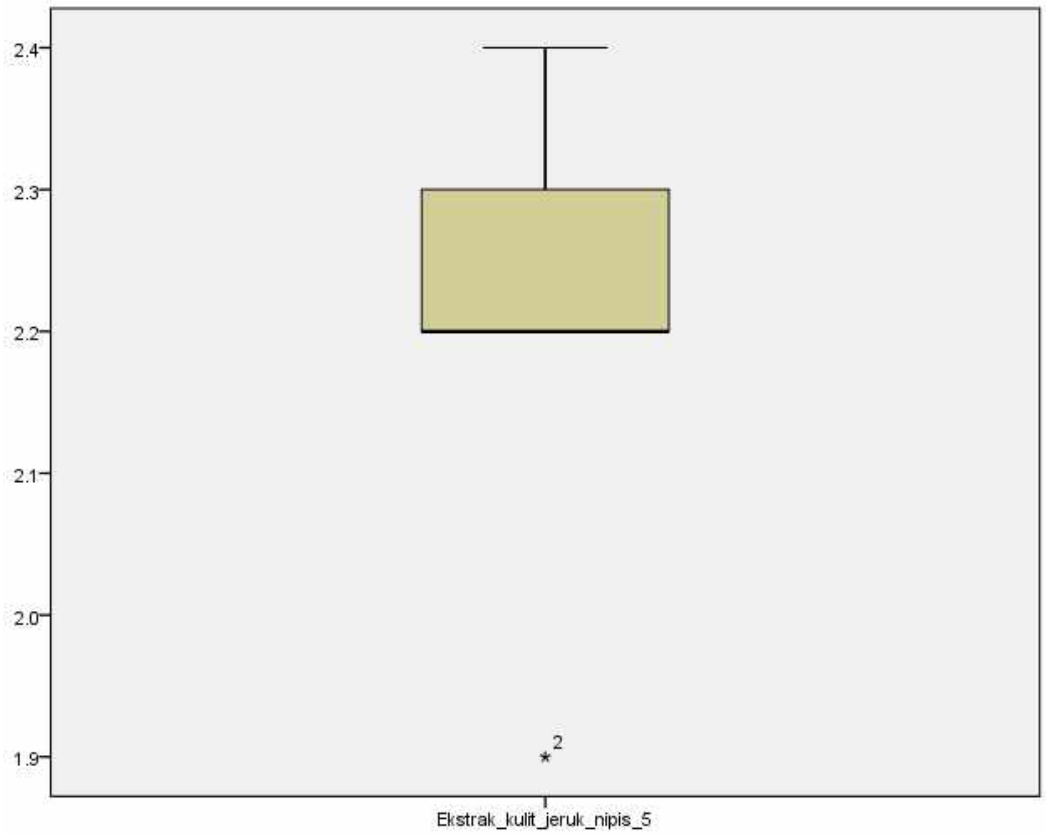
-0.75
1.9
2.0
2.1
2.2
2.3
2.4
Observed Value



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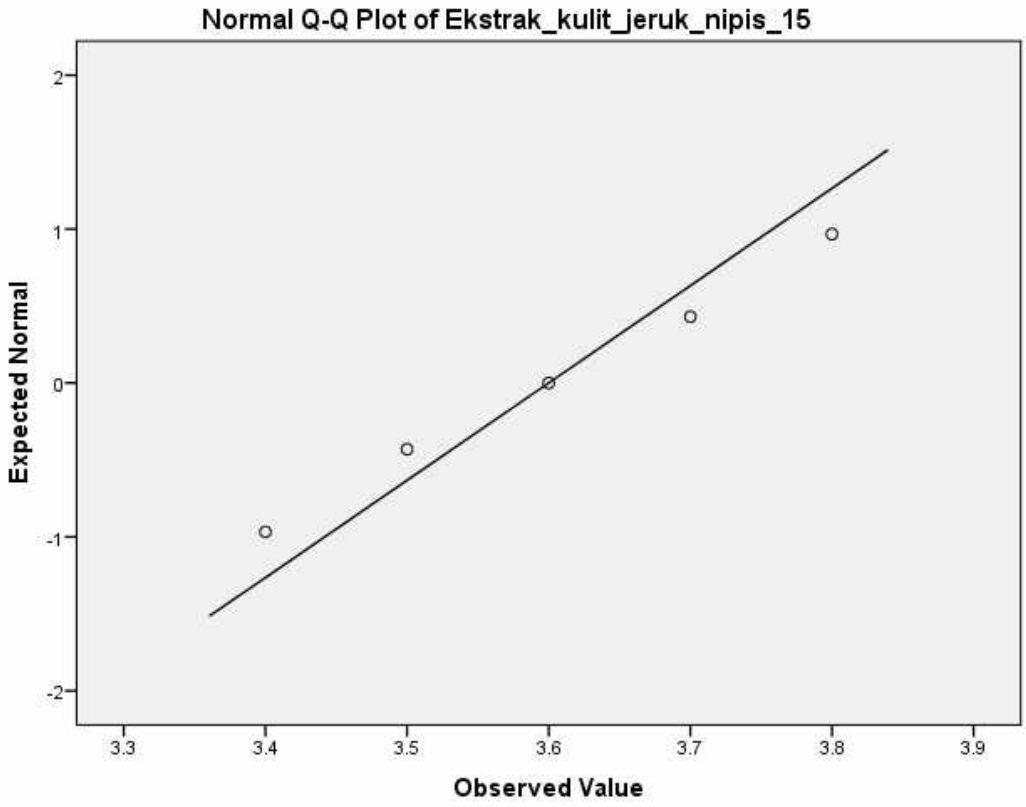
Normal Q-Q Plot of Ekstrak_kulit_jeruk_nipis_15
Expected Normal
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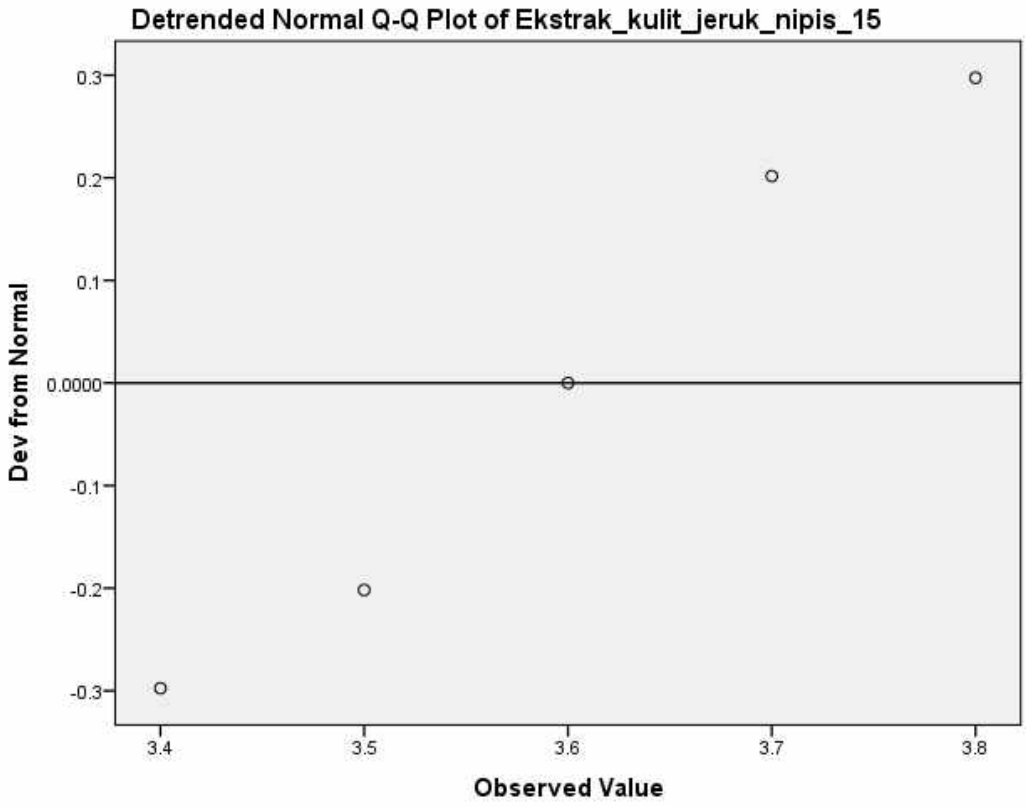
1
0
-1
-2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
Observed Value


Detrended Normal Q-Q Plot of Ekstrak_kulit_jeruk_nipis_15
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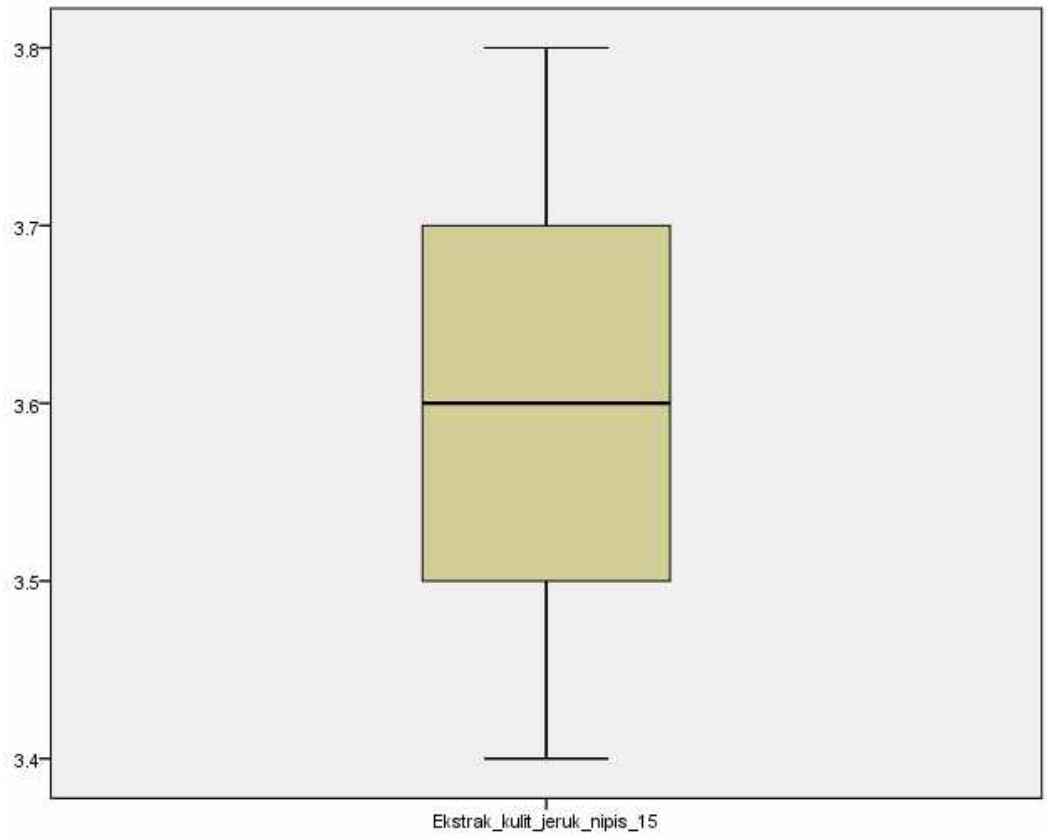
3.6
3.7
3.8
Observed Value



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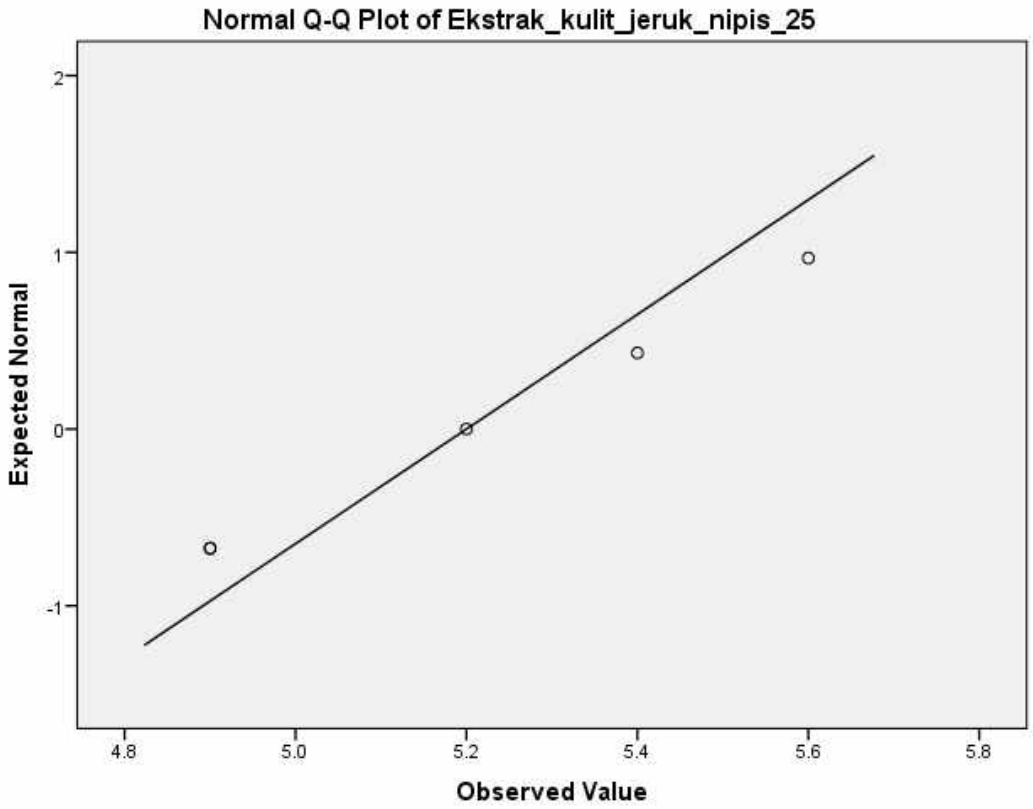
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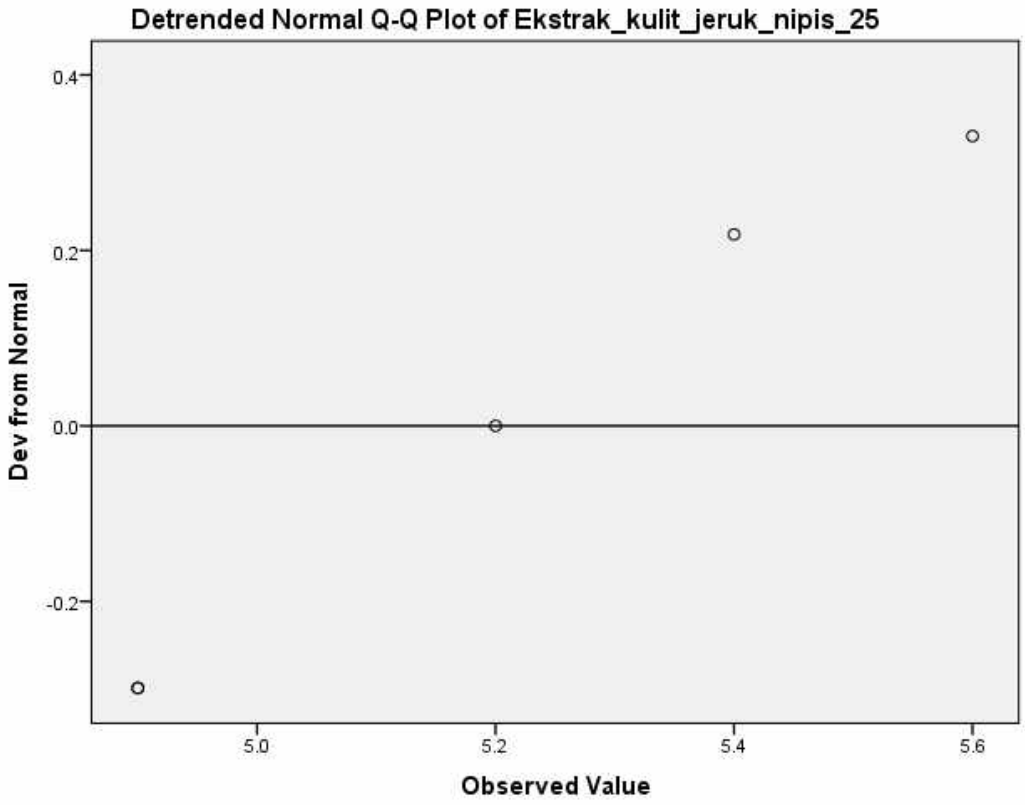
Observed Value


Detrended Normal Q-Q Plot of Ekstrak_kulit_jeruk_nipis_25
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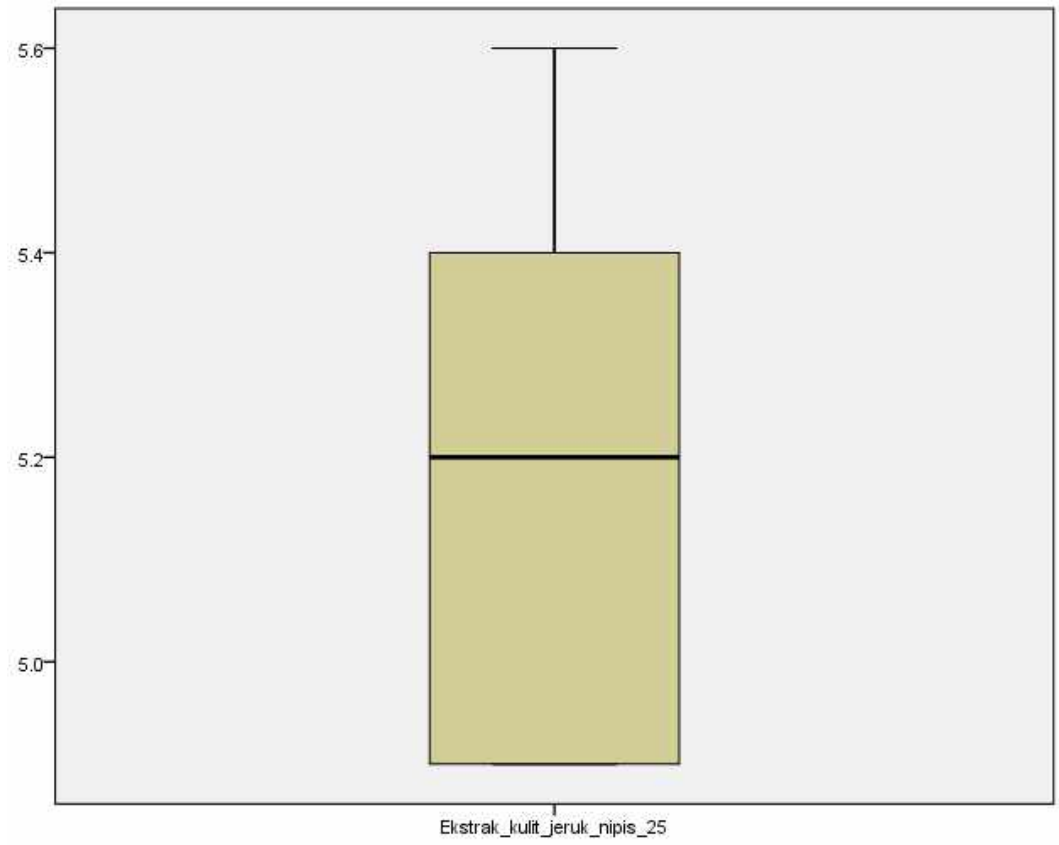
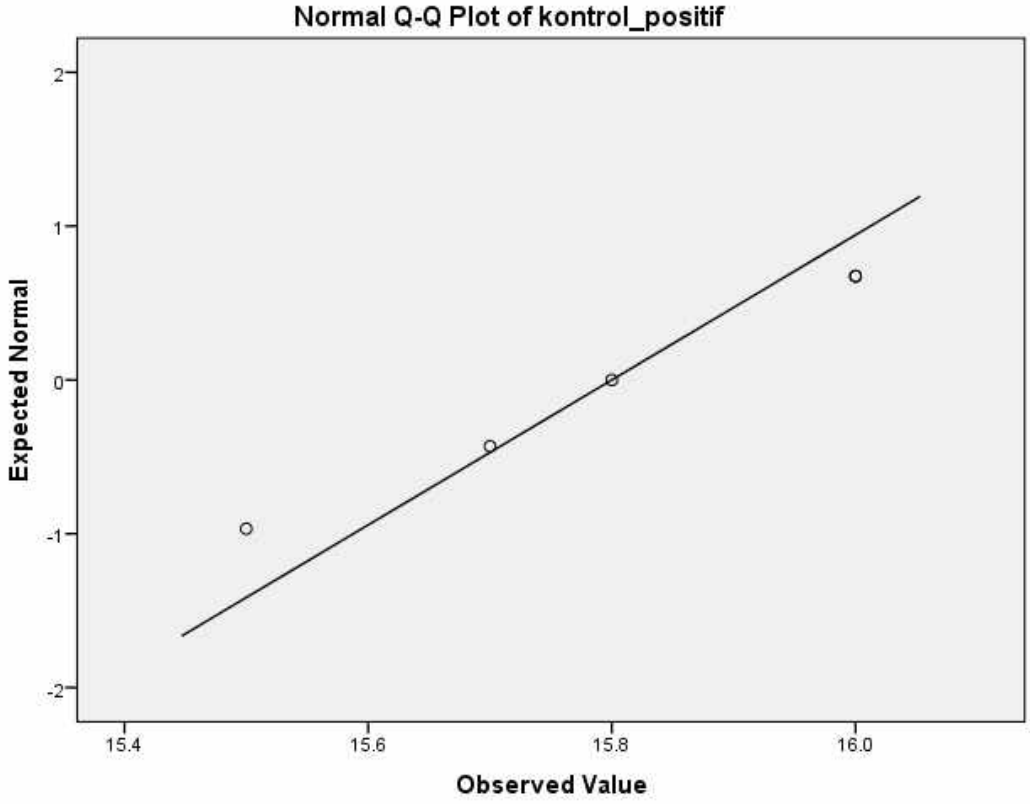
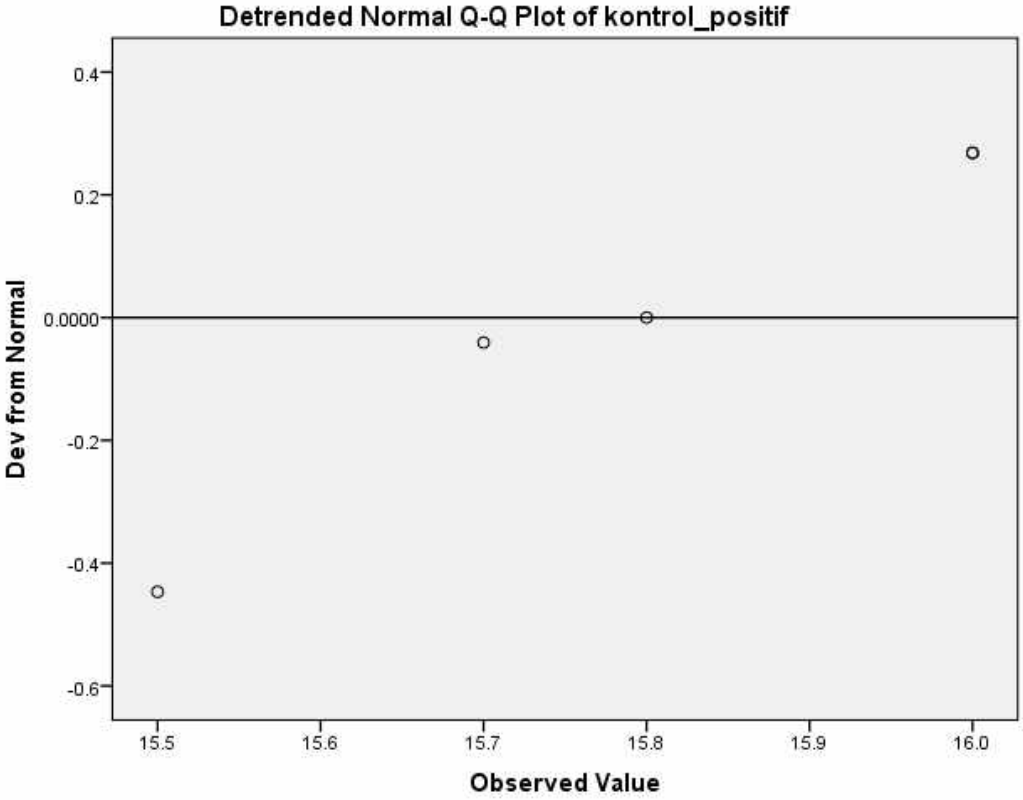
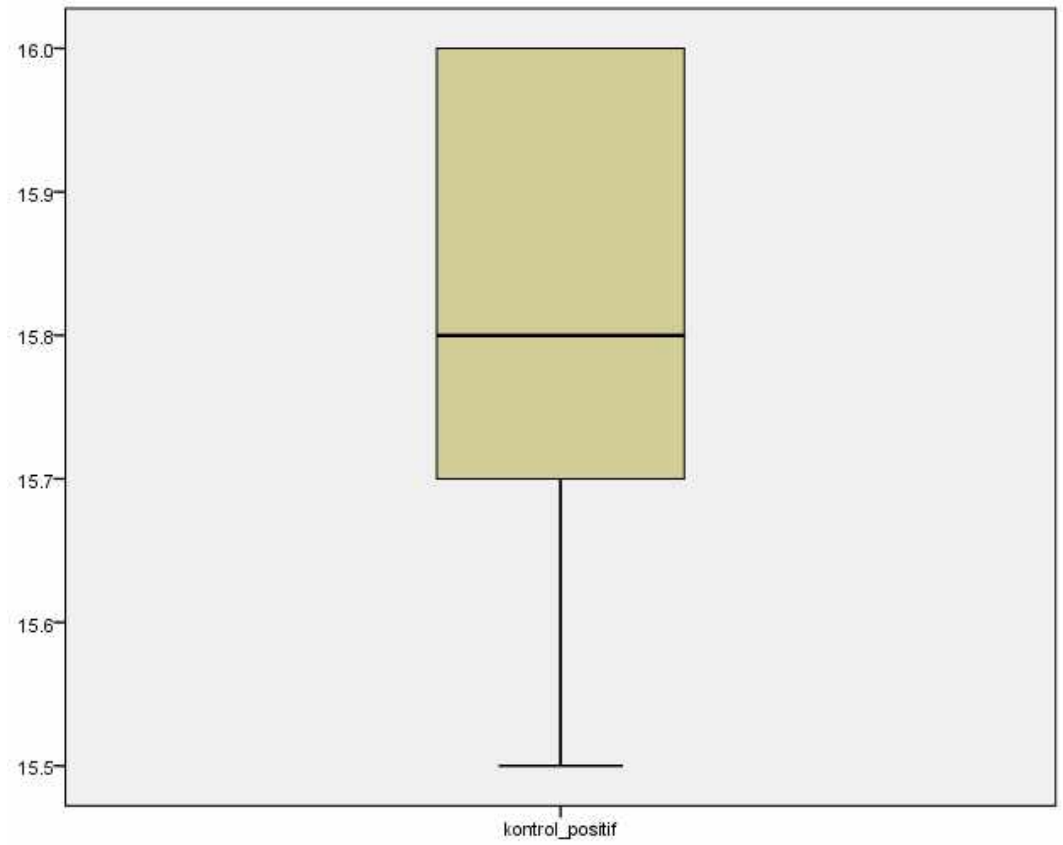
Observed Value



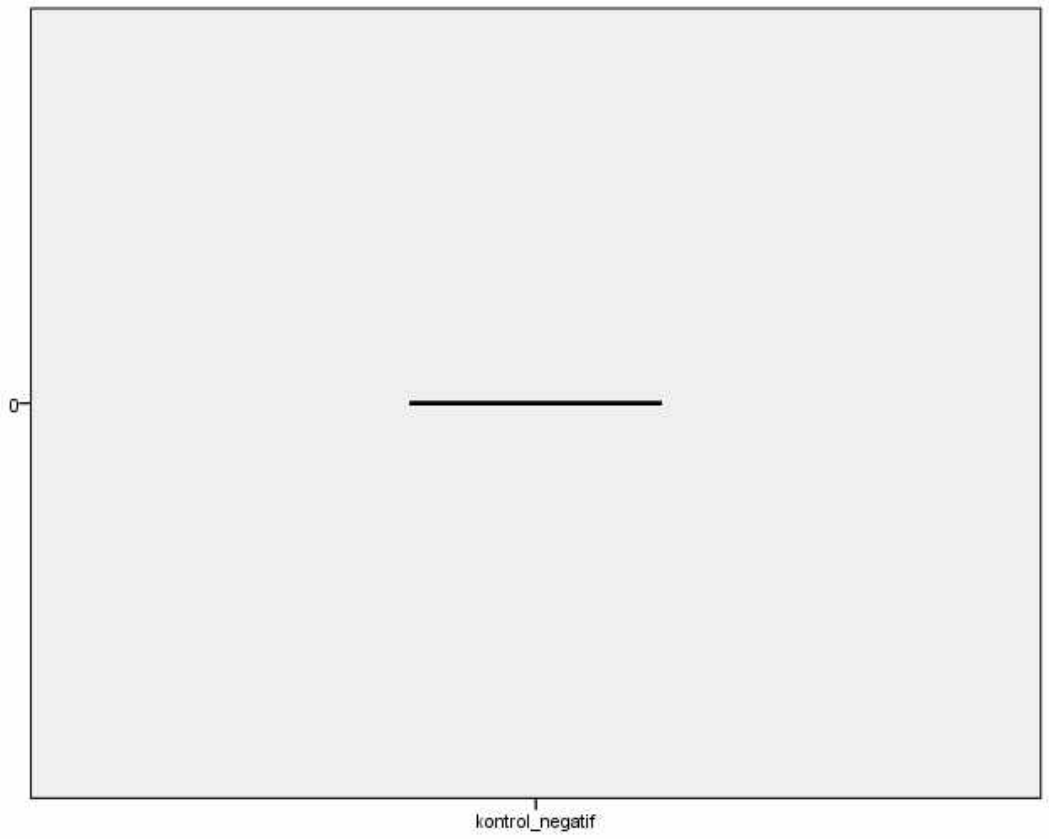
kontrol_positif


Normal Q-Q Plot of kontrol_positif
Expected Normal
2
1
0
-1
-2
15.4
15.6
15.8
16.0
Observed Value


Detrended Normal Q-Q Plot of kontrol_positif
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
-0.6
15.5
15.6
15.7
15.8
15.9
16.0
Observed Value



kontrol_negatif



DATASET ACTIVATE DataSet3.

SAVE OUTFILE='D:\Be the best Statistician\2017\spss.sav'

/COMPRESSED.

ONEWAY nilai BY klp

/STATISTICS DESCRIPTIVES HOMOGENEITY

/MISSING ANALYSIS

/POSTHOC=LSD ALPHA(0.05).

Oneway

Notes

Output Created		16-FEB-2020 21:18:35
Comments		
Input	Data	D:\Be the best Statistician\2017\spss.sav
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	N of Rows in Working Data File	20
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 nilai BY klp /STATISTICS DESCRIPTIVES HOMOGENEITY /MISSING ANALYSIS /POSTHOC=LSD ALPHA(0.05).
Resources	Processor Time	00:00:00.02

Elapsed Time	00:00:00.01

Descriptives

nilai

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
5	5	2.2000	.18708	.08367	1.9677	2.4323
15	5	3.6000	.15811	.07071	3.4037	3.7963
25	5	5.2000	.30822	.13784	4.8173	5.5827
kontrol positif	5	15.8000	.21213	.09487	15.5366	16.0634
Total	20	6.7000	5.50311	1.23053	4.1245	9.2755

Descriptives

nilai

	Minimum	Maximum
5	1.90	2.40
15	3.40	3.80
25	4.90	5.60
kontrol positif	15.50	16.00
Total	1.90	16.00

Test of Homogeneity of Variances

nilai

Levene Statistic	df1	df2	Sig.
1.067	3	16	.391

ANOVA

nilai

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	574.600	3	191.533	3830.667	.000
Within Groups	.800	16	.050		
Total	575.400	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: nilai

LSD

(I) klp	(J) klp	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

5	15	-1.40000*	.14142	.000	-1.6998	-1.1002
	25	-3.00000*	.14142	.000	-3.2998	-2.7002
	kontrol positif	-13.60000*	.14142	.000	-13.8998	-13.3002
15	5	1.40000*	.14142	.000	1.1002	1.6998
	25	-1.60000*	.14142	.000	-1.8998	-1.3002
	kontrol positif	-12.20000*	.14142	.000	-12.4998	-11.9002
25	5	3.00000*	.14142	.000	2.7002	3.2998
	15	1.60000*	.14142	.000	1.3002	1.8998
	kontrol positif	-10.60000*	.14142	.000	-10.8998	-10.3002
kontrol positif	5	13.60000*	.14142	.000	13.3002	13.8998
	15	12.20000*	.14142	.000	11.9002	12.4998
	25	10.60000*	.14142	.000	10.3002	10.8998

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

```
DATASET ACTIVATE DataSet3.

SAVE OUTFILE='D:\Be the best Statistician\2017\spss.sav'
  /COMPRESSED.
EXAMINE VARIABLES=nilai_pengukuran_lesi BY klp_lesi
  /PLOT BOXPLOT NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		16-FEB-2020 21:23:03
Comments		
Input	Data	D:\Be the best Statistician\2017\spss.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
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=nilai_pengukuran_lesi BY klp_lesi /PLOT BOXPLOT NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:02.06
	Elapsed Time	00:00:02.25

klp_lesi

Case Processing Summary

		Cases				
		Valid		Missing		Total
	klp_lesi	N	Percent	N	Percent	N
nilai_pengukuran_lesi	5	3	100.0%	0	0.0%	3
	15	3	100.0%	0	0.0%	3

	25	3	100.0%	0	0.0%	3
	kontrol positif	3	100.0%	0	0.0%	3
	kontrol negatif	3	100.0%	0	0.0%	3

Case Processing Summary

		Cases	
		Total	
	klp_lesi	Percent	
nilai_pengukuran_lesi	5	100.0%	
	15	100.0%	
	25	100.0%	
	kontrol positif	100.0%	
	kontrol negatif	100.0%	

Descriptives

	klp_lesi			Statistic	Std. Error
nilai_pengukuran_lesi	5	Mean		1.2500	.12583
		95% Confidence Interval for Mean	Lower Bound	.7086	
			Upper Bound	1.7914	
		5% Trimmed Mean		.	
		Median		1.3500	
		Variance		.048	
		Std. Deviation		.21794	

		Minimum		1.00	
		Maximum		1.40	
		Range		.40	
		Interquartile Range		.	
		Skewness		-1.630	1.225
		Kurtosis		.	.
	15	Mean		1.0000	.10504
		95% Confidence Interval for Mean	Lower Bound	.5481	
			Upper Bound	1.4519	
		5% Trimmed Mean		.	
		Median		.9000	
		Variance		.033	
		Std. Deviation		.18193	
		Minimum		.89	
		Maximum		1.21	
		Range		.32	
		Interquartile Range		.	
		Skewness		1.726	1.225
		Kurtosis		.	.
	25	Mean		.2500	.02887
		95% Confidence Interval for Mean	Lower Bound	.1258	
			Upper Bound	.3742	
		5% Trimmed Mean		.	

		Median		.2500	
		Variance		.003	
		Std. Deviation		.05000	
		Minimum		.20	
		Maximum		.30	
		Range		.10	
		Interquartile Range		.	
		Skewness		.000	1.225
		Kurtosis		.	.
	kontrol positif	Mean		.7500	.02887
		95% Confidence Interval for Mean	Lower Bound	.6258	
			Upper Bound	.8742	
		5% Trimmed Mean		.	
		Median		.7500	
		Variance		.003	
		Std. Deviation		.05000	
		Minimum		.70	
		Maximum		.80	
		Range		.10	
		Interquartile Range		.	
		Skewness		.000	1.225
		Kurtosis		.	.
	kontro	Mean		2.2500	.04509

	l negati f	95% Confidence Interval for Mean	Lower Bound	2.0560	
			Upper Bound	2.4440	
		5% Trimmed Mean		.	
		Median		2.2100	
		Variance		.006	
		Std. Deviation		.07810	
		Minimum		2.20	
		Maximum		2.34	
		Range		.14	
		Interquartile Range		.	
		Skewness		1.700	1.225
		Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk	
	klp_lesi	Statistic	df	Sig.	Statistic	df
nilai_pengukuran_lesi	5	.343	3	.	.842	3
	15	.375	3	.	.773	3
	25	.175	3	.	1.000	3
	kontrol positif	.175	3	.	1.000	3
	kontrol negatif	.362	3	.	.803	3

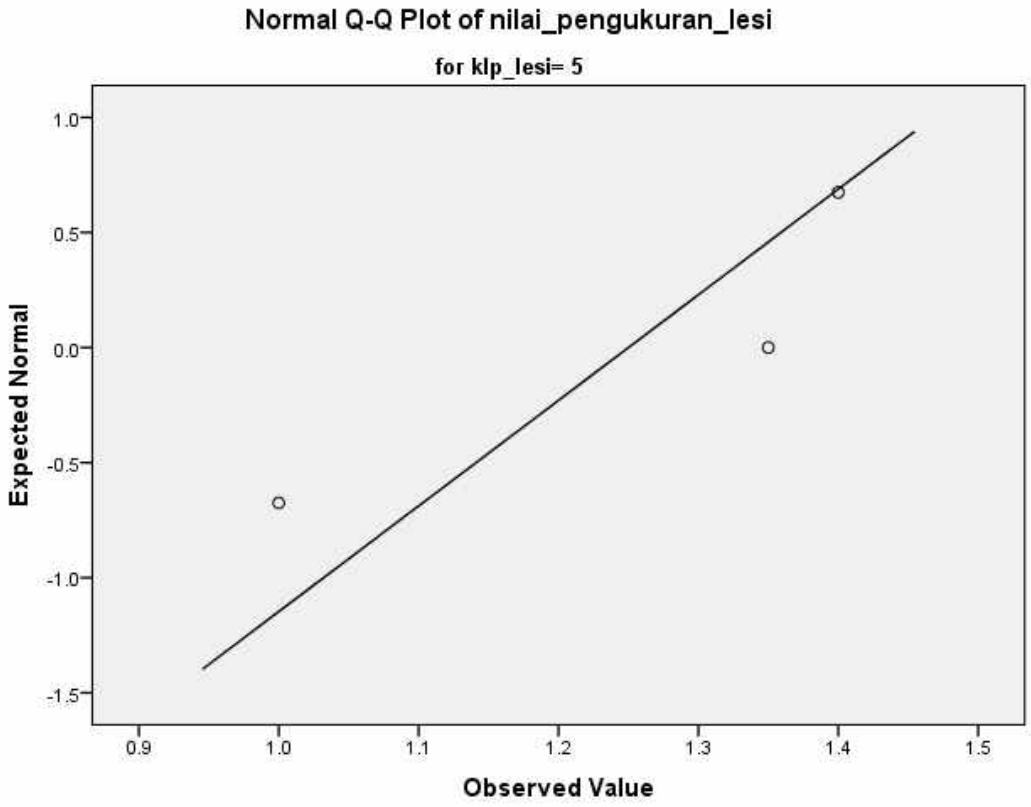
Tests of Normality

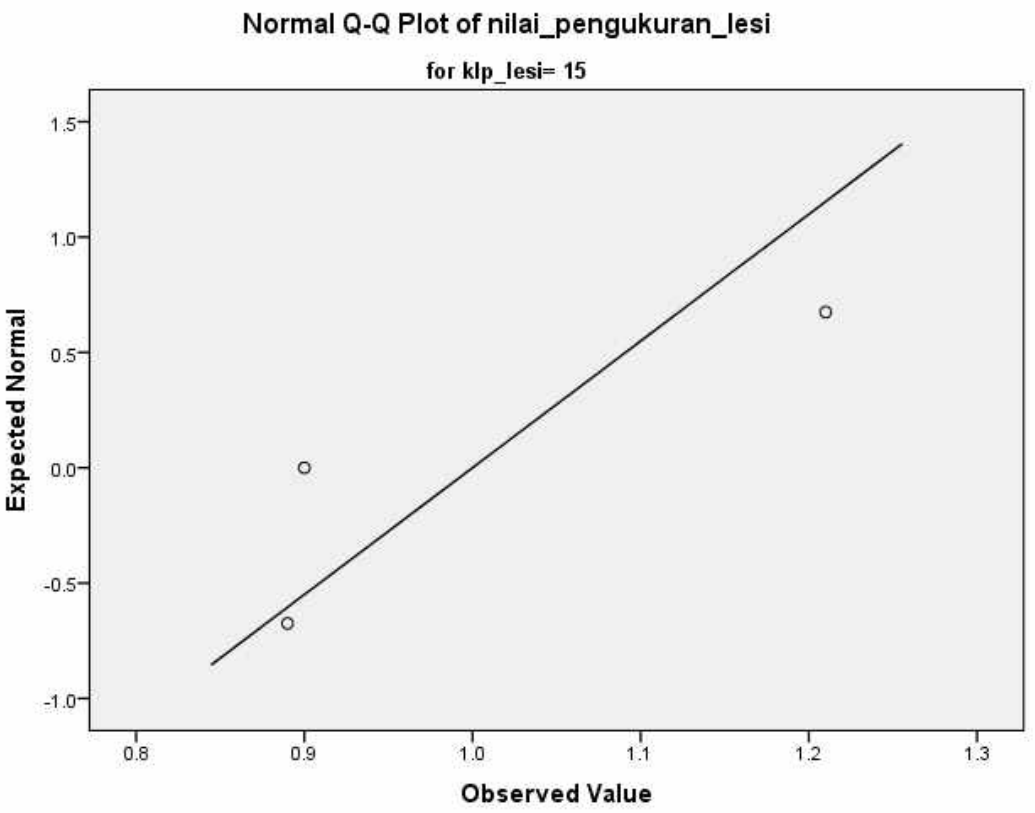
		Shapiro-Wilk[a]
	klp_lesi	Sig.
nilai_pengukuran_lesi	5	.220
	15	.052
	25	1.000
	kontrol positif	1.000
	kontrol negatif	.122

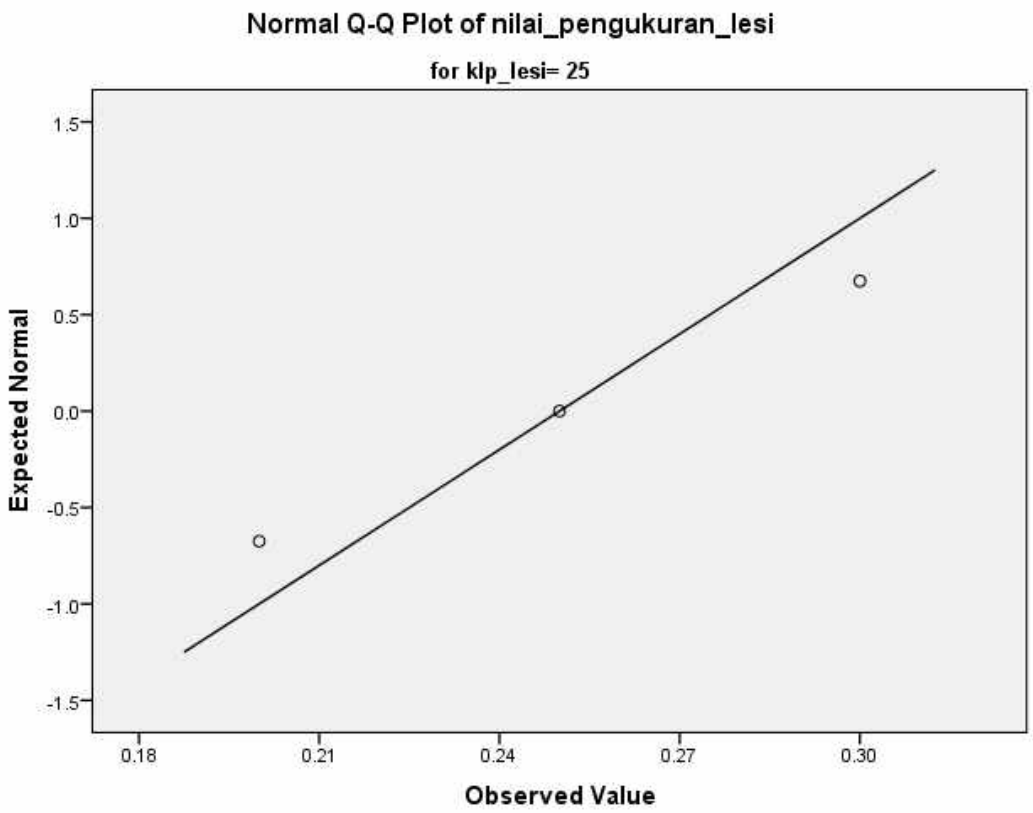
a. Lilliefors Significance Correction

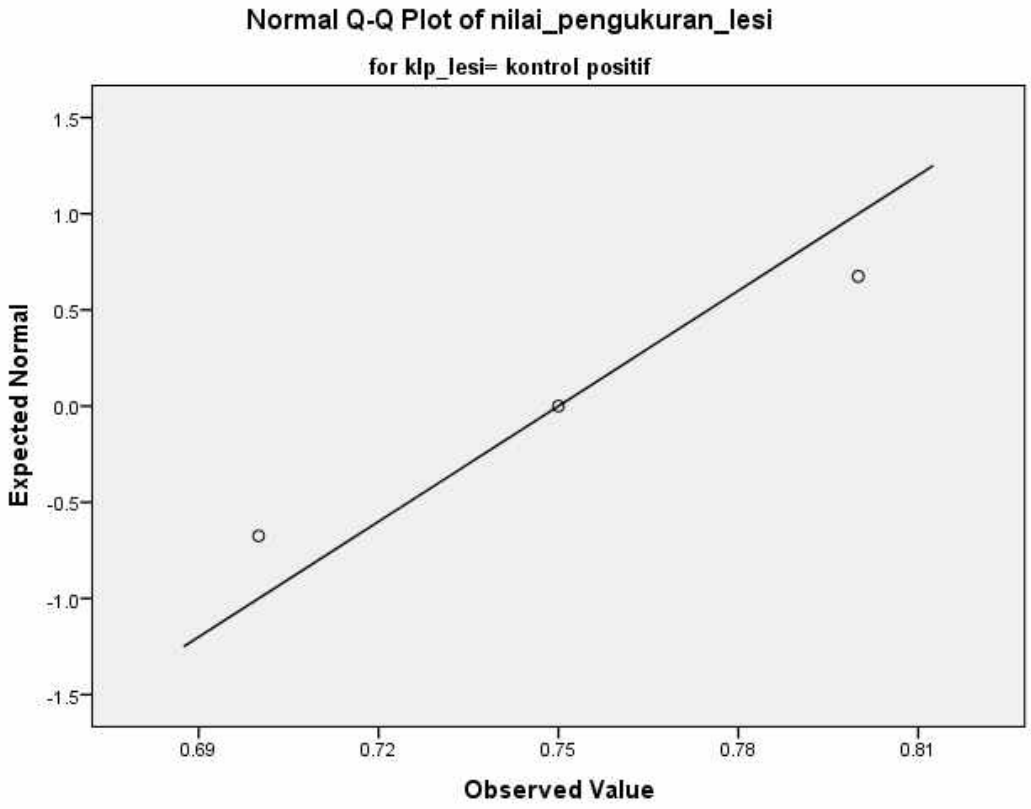
nilai_pengukuran_lesi

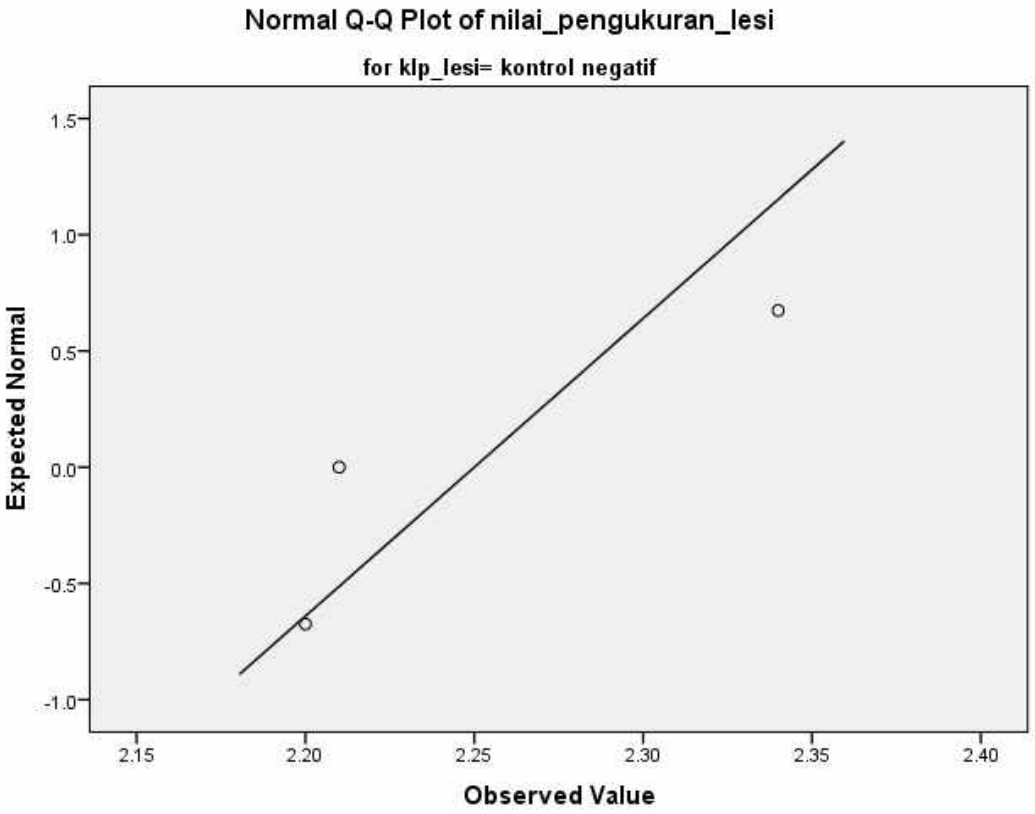
Normal Q-Q Plots


Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= 5
Expected Normal
1.0
0.5
0.0
-0.5
-1.0
-1.5
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Observed Value

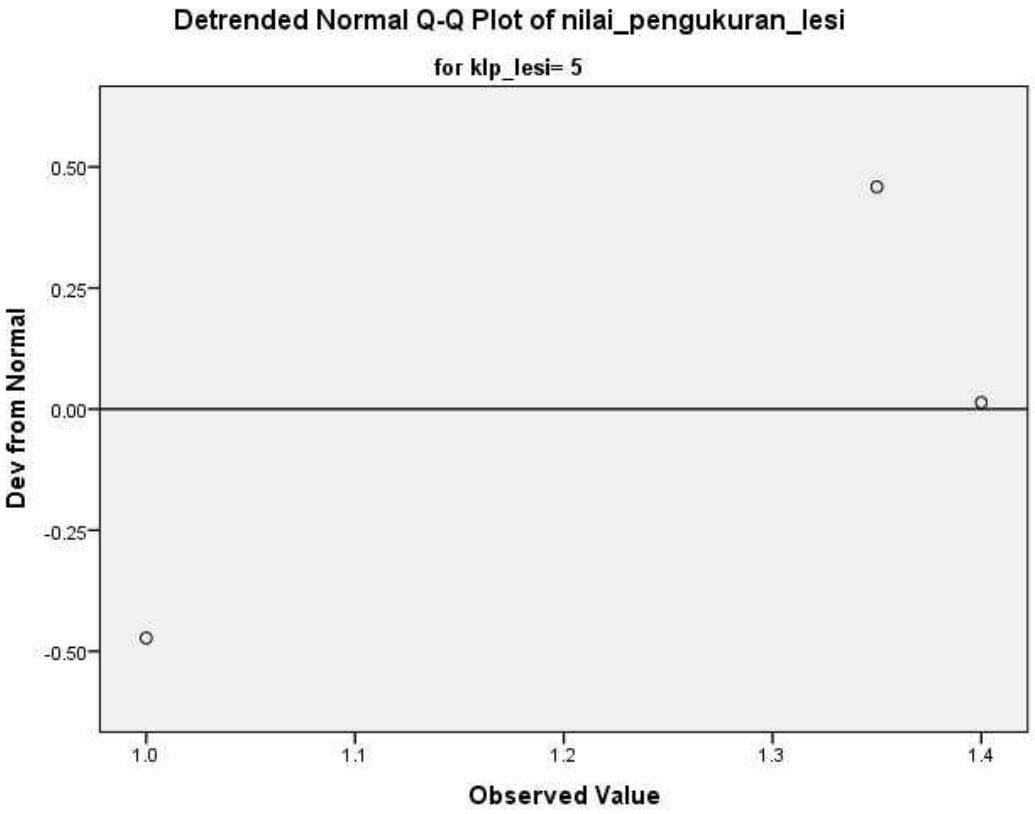

Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= 15
Expected Normal
Observed Value
1.5
1.0
0.5
0.0
-0.5
-1.0
0.8
0.9
1.0
1.1
1.2
1.3

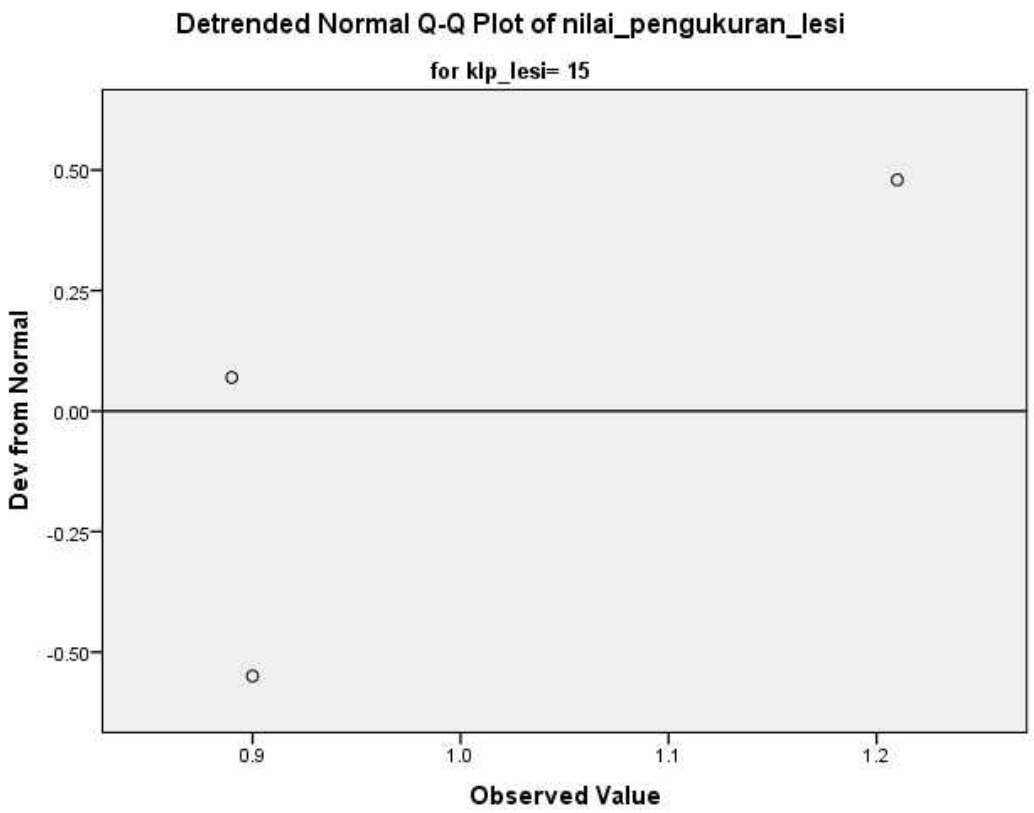

Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= 25
Expected Normal
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
0.18
0.21
0.24
0.27
0.30
Observed Value

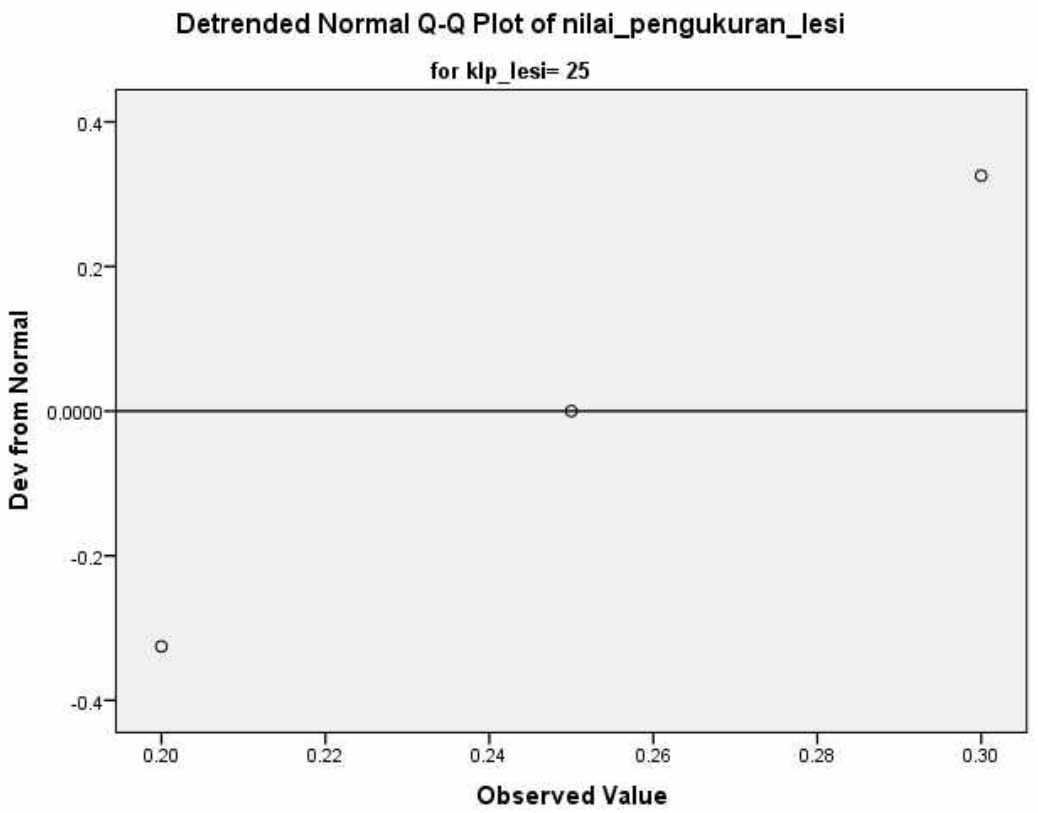

Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= kontrol positif
Expected Normal
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
0.69
0.72
0.75
0.78
0.81
Observed Value

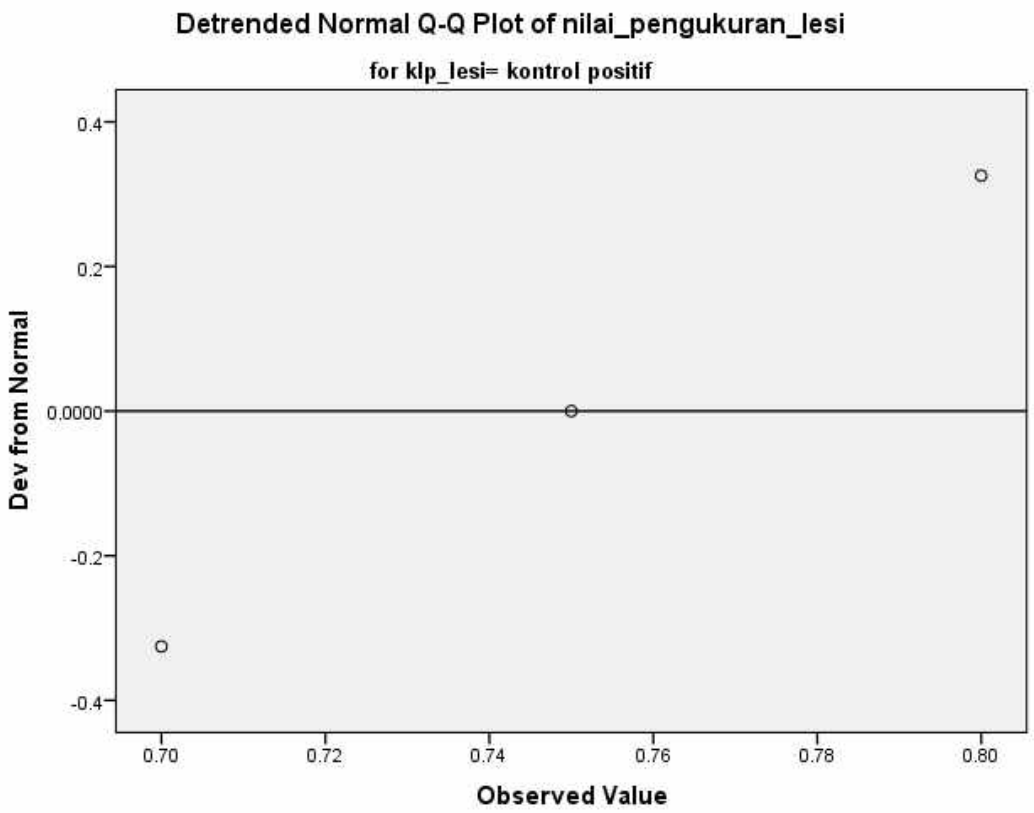


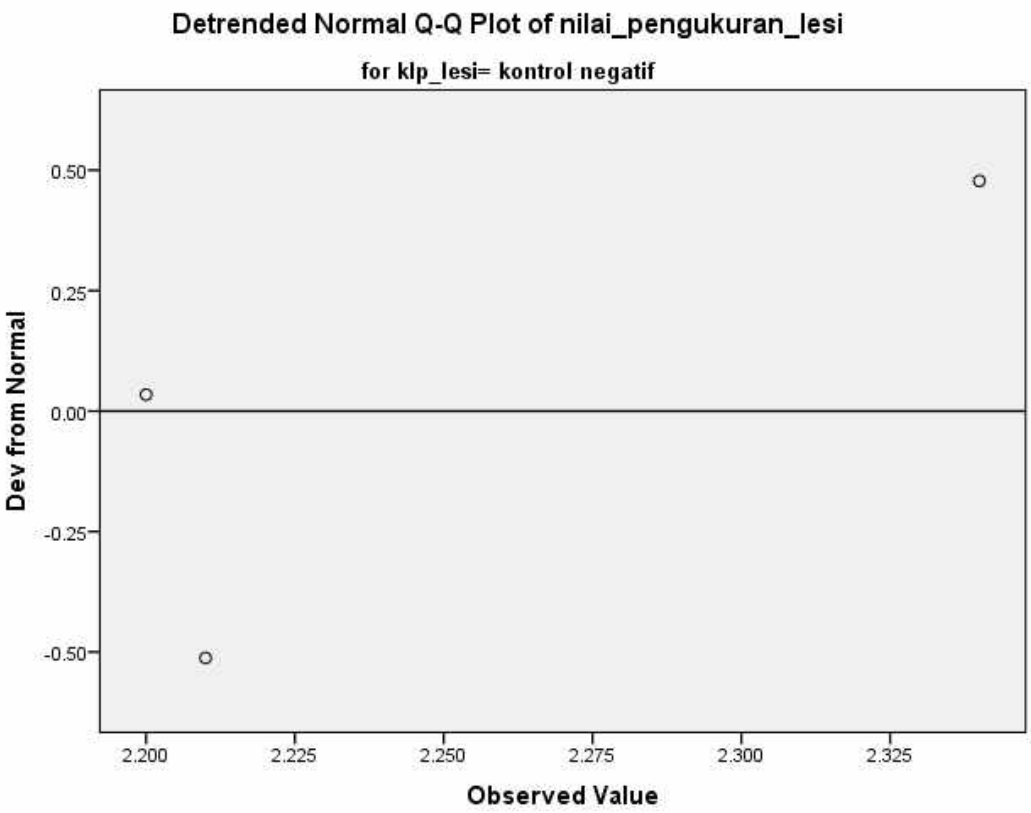
Detrended Normal Q-Q Plots

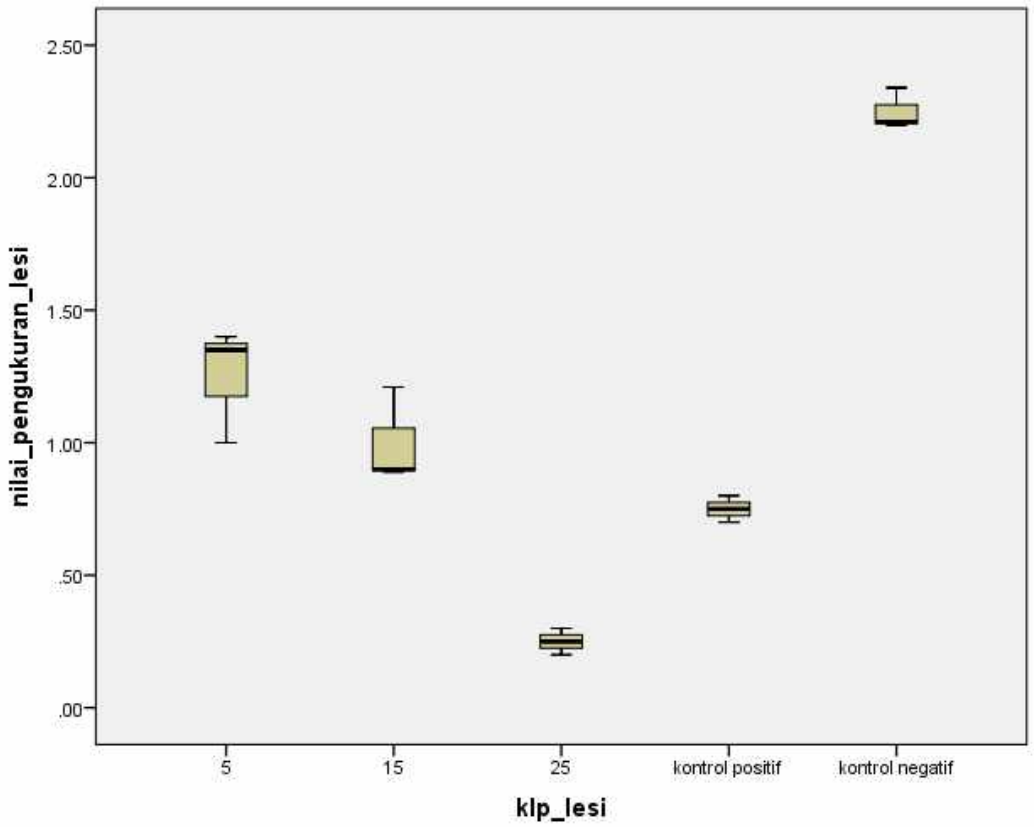

Detrended Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= 5
Dev from Normal
0.50
0.25
0.00
-0.25
-0.50
1.0
1.1
1.2
1.3
1.4
Observed Value


Detrended Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= 15
Dev from Normal
0.50
0.25
0.00
-0.25
-0.50
0.9
1.0
1.1
1.2
Observed Value


Detrended Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= 25
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
0.20
0.22
0.24
0.26
0.28
0.30
Observed Value


Detrended Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= kontrol positif
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
0.70
0.72
0.74
0.76
0.78
0.80
Observed Value


Detrended Normal Q-Q Plot of nilai_pengukuran_lesi
for klp_lesi= kontrol negatif
Dev from Normal
0.50
0.25
0.00
-0.25
-0.50
2.200
2.225
2.250
2.275
2.300
2.325
Observed Value




```
ONEWAY nilai_pengukuran_lesi BY klp_lesi
  /STATISTICS DESCRIPTIVES HOMOGENEITY
  /MISSING ANALYSIS
  /POSTHOC=LSD ALPHA(0.05).
```

Oneway

Notes

Output Created		16-FEB-2020 21:23:39
Comments		
Input	Data	D:\Be the best Statistician\2017\spss.sav
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	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
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 nilai_pengukuran_lesi BY klp_lesi /STATISTICS DESCRIPTIVES HOMOGENEITY /MISSING ANALYSIS /POSTHOC=LSD ALPHA(0.05).
Resources	Processor Time	00:00:00.02

Elapsed Time	00:00:00.04

Descriptives

nilai_pengukuran_lesi

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
5	3	1.2500	.21794	.12583	.7086	1.7914
15	3	1.0000	.18193	.10504	.5481	1.4519
25	3	.2500	.05000	.02887	.1258	.3742
kontrol positif	3	.7500	.05000	.02887	.6258	.8742
kontrol negatif	3	2.2500	.07810	.04509	2.0560	2.4440
Total	15	1.1000	.69608	.17973	.7145	1.4855

Descriptives

nilai_pengukuran_lesi

	Minimum	Maximum
5	1.00	1.40
15	.89	1.21
25	.20	.30
kontrol positif	.70	.80
kontrol negatif	2.20	2.34
Total	.20	2.34

Test of Homogeneity of Variances

nilai_pengukuran_lesi

Levene Statistic	df1	df2	Sig.
4.930	4	10	.019

ANOVA

nilai_pengukuran_lesi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.600	4	1.650	89.967	.000
Within Groups	.183	10	.018		
Total	6.783	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: nilai_pengukuran_lesi

LSD

(I) klp_lesi	(J) klp_lesi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
5	15	.25000*	.11057	.047	.0036	.4964
	25	1.00000*	.11057	.000	.7536	1.2464
	kontrol positif	.50000*	.11057	.001	.2536	.7464
	kontrol negatif	-1.00000*	.11057	.000	-1.2464	-.7536
15	5	-.25000*	.11057	.047	-.4964	-.0036
	25	.75000*	.11057	.000	.5036	.9964
	kontrol positif	.25000*	.11057	.047	.0036	.4964
	kontrol negatif	-1.25000*	.11057	.000	-1.4964	-1.0036
25	5	-1.00000*	.11057	.000	-1.2464	-.7536
	15	-.75000*	.11057	.000	-.9964	-.5036
	kontrol positif	-.50000*	.11057	.001	-.7464	-.2536
	kontrol negatif	-2.00000*	.11057	.000	-2.2464	-1.7536
kontrol positif	5	-.50000*	.11057	.001	-.7464	-.2536
	15	-.25000*	.11057	.047	-.4964	-.0036
	25	.50000*	.11057	.001	.2536	.7464
	kontrol negatif	-1.50000*	.11057	.000	-1.7464	-1.2536
kontrol negatif	5	1.00000*	.11057	.000	.7536	1.2464
	15	1.25000*	.11057	.000	1.0036	1.4964
	25	2.00000*	.11057	.000	1.7536	2.2464

kontrol positif	1.50000*	.11057	.000	1.2536	1.7464

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

```
DATASET ACTIVATE DataSet3.

SAVE OUTFILE='D:\Be the best Statistician\2017\spss.sav'
  /COMPRESSED.
```