LAMPIRAN

Lampiran 1. Etika Penelitian

Fakultas Kedokteran dan Ilmu Kesehatan
Universitas Muhammadiyah Yogyakarta

SURAT KETERANGAN
KELAYAKAN ETIKA PENELITIAN
Nomor : 173/EP-FKIK-UMY/V/2016

Komisi Etika Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta yang terdiri atas :

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4. drh. Tri Wulandari, M.Kes
5. Dr. dr. Titiek Hidayati, M. Kes
6. Dr. dr. Tri Wahyuliati, Sp. S., M. Kes
7. Titih Huriah, Ns., M. Kep., Sp. Kom
8. Dr. drg. Tita Ratya Utari, Sp. Ort
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10. Dr. dr. Arlina Dewi, MMR
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12. Dra. Irma Risdiyana, Apt., MPH
13. dr. Inayati Habib, Sp. MK., M. Kes

Telah mengkaji permohonan kelayakan etika penelitian yang diajukan oleh :

Nama Peneliti	:	**Yusuf Susanto (20130310140)** **Hendrian Ade Hardianto (20130310156)** **Rijal Dwika Saputro (20130310072)** **Aulia Rahmah (20130310059)** **Ira Safira (20140310152)**
Judul Penelitian	:	**Uji Potensi Ikan Kembung (*Rastrellinger sp*) Terhadap Memori Spasial Pada Tikus Putih Hipotiroid Kongenital**
Pada Tanggal	:	**02 Mei 2016**
Dengan Hasil	:	**Layak Etik**

Demikian surat keterangan ini diberikan untuk dapat digunakan sebagaimana mestinya.

Yogyakarta, 03 Mei 2016

Sekretaris,

Dr. dr. Titiek Hidayati, M. Kes

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Lampiran 2. Hasil Pengolahan Data SPSS

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Kelompok	N	Percent	N	Percent	N	Percent
Jumlah	Normal	5	100.0%	0	.0%	5	100.0%
	Normal Kembung	5	100.0%	0	.0%	5	100.0%
	Hipotiroid	5	100.0%	0	.0%	5	100.0%
	Hipotiroid Kembung	5	100.0%	0	.0%	5	100.0%
	Hipotiroid Tiroksin	5	100.0%	0	.0%	5	100.0%
	Hipotiroid Kembung Tiroksin	5	100.0%	0	.0%	5	100.0%

Kelompok

Descriptives

	Kelompok			Statistic	Std. Error
Jumlah	Normal	Mean		116.80	8.096
		95% Confidence Interval for Mean	Lower Bound	94.32	
			Upper Bound	139.28	
		5% Trimmed Mean		115.94	
		Median		111.00	
		Variance		327.700	
		Std. Deviation		18.102	
		Minimum		101	
		Maximum		148	
		Range		47	

	Interquartile Range		26	
	Skewness		1.819	.913
	Kurtosis		3.794	2.000
Normal Kembung	Mean		146.00	10.512
	95% Confidence Interval for Mean	Lower Bound	116.81	
		Upper Bound	175.19	
	5% Trimmed Mean		144.94	
	Median		142.00	
	Variance		552.500	
	Std. Deviation		23.505	
	Minimum		125	
	Maximum		186	
	Range		61	
	Interquartile Range		35	
	Skewness		1.698	.913
	Kurtosis		3.366	2.000
Hipotiroid	Mean		55.20	2.905
	95% Confidence Interval for Mean	Lower Bound	47.13	
		Upper Bound	63.27	
	5% Trimmed Mean		55.17	
	Median		57.00	
	Variance		42.200	
	Std. Deviation		6.496	
	Minimum		48	
	Maximum		63	
	Range		15	
	Interquartile Range		12	
	Skewness		-.116	.913

	Kurtosis		-2.325	2.000
Hipotiroid Kembung	Mean		115.40	2.713
	95% Confidence Interval for Mean	Lower Bound	107.87	
		Upper Bound	122.93	
	5% Trimmed Mean		115.56	
	Median		116.00	
	Variance		36.800	
	Std. Deviation		6.066	
	Minimum		106	
	Maximum		122	
	Range		16	
	Interquartile Range		10	
	Skewness		-.931	.913
	Kurtosis		1.117	2.000
Hipotiroid Tiroksin	Mean		83.00	1.304
	95% Confidence Interval for Mean	Lower Bound	79.38	
		Upper Bound	86.62	
	5% Trimmed Mean		83.00	
	Median		83.00	
	Variance		8.500	
	Std. Deviation		2.915	
	Minimum		79	
	Maximum		87	
	Range		8	
	Interquartile Range		5	
	Skewness		.000	.913
	Kurtosis		.893	2.000
Hipotiroid Kembung	Mean		100.20	4.067

Tiroksin	95% Confidence Interval for Mean	Lower Bound	88.91	
		Upper Bound	111.49	
	5% Trimmed Mean		100.11	
	Median		100.00	
	Variance		82.700	
	Std. Deviation		9.094	
	Minimum		89	
	Maximum		113	
	Range		24	
	Interquartile Range		16	
	Skewness		.336	.913
	Kurtosis		-.046	2.000

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Jumlah	Normal	.361	5	.031	.791	5	.069
	Normal Kembung	.351	5	.044	.826	5	.129
	Hipotiroid	.230	5	.200*	.908	5	.458
	Hipotiroid Kembung	.209	5	.200*	.953	5	.755
	Hipotiroid Tiroksin	.166	5	.200*	.989	5	.977
	Hipotiroid Kembung Tiroksin	.138	5	.200*	.993	5	.989

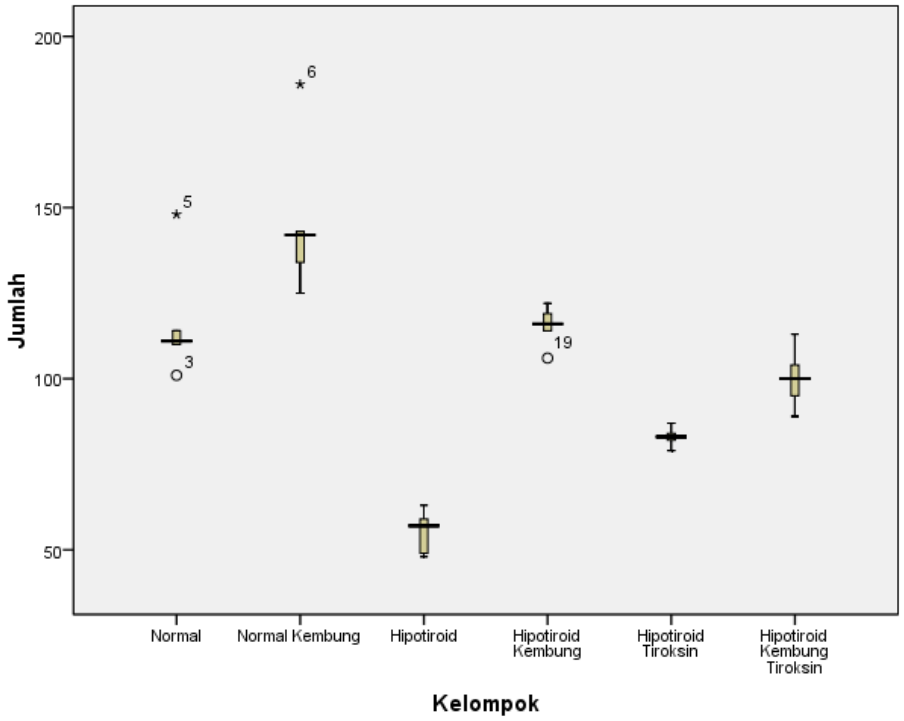
a. Lilliefors Significance Correction

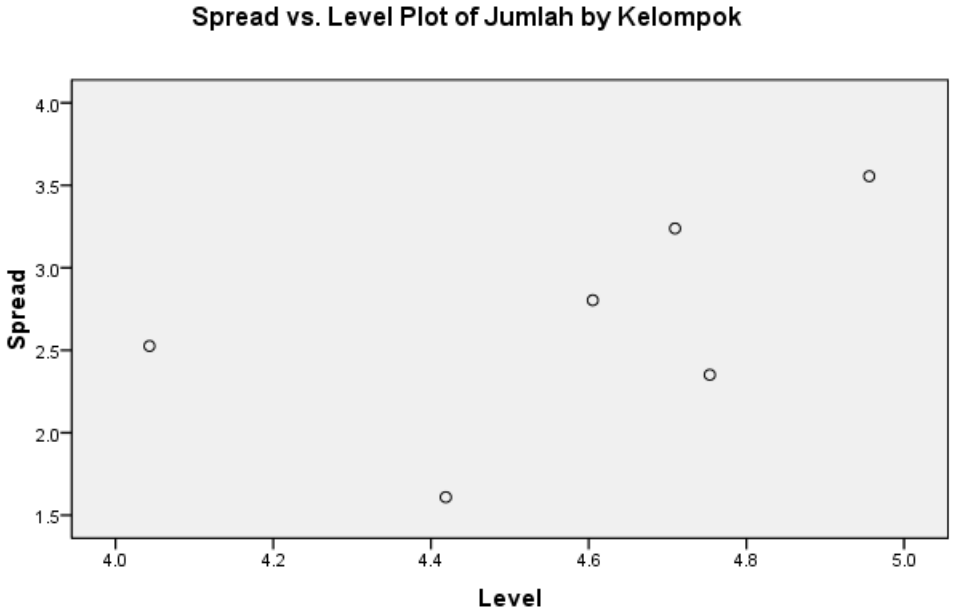
*. This is a lower bound of the true significance.

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Jumlah	Based on Mean	2.049	5	24	.108
	Based on Median	.918	5	24	.486
	Based on Median and with adjusted df	.918	5	9.541	.509
	Based on trimmed mean	1.666	5	24	.181

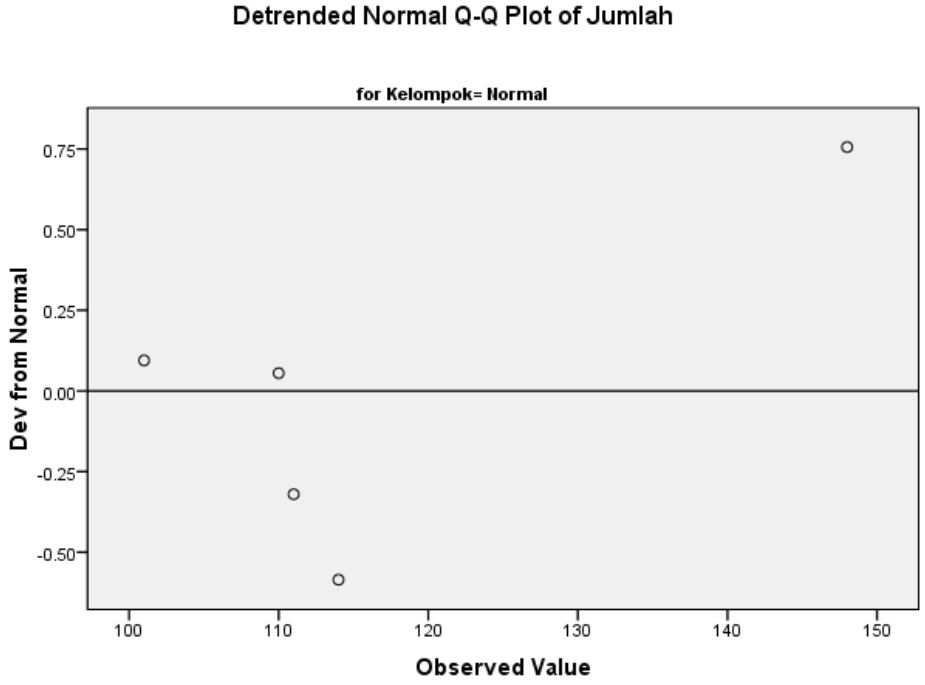
Jumlah

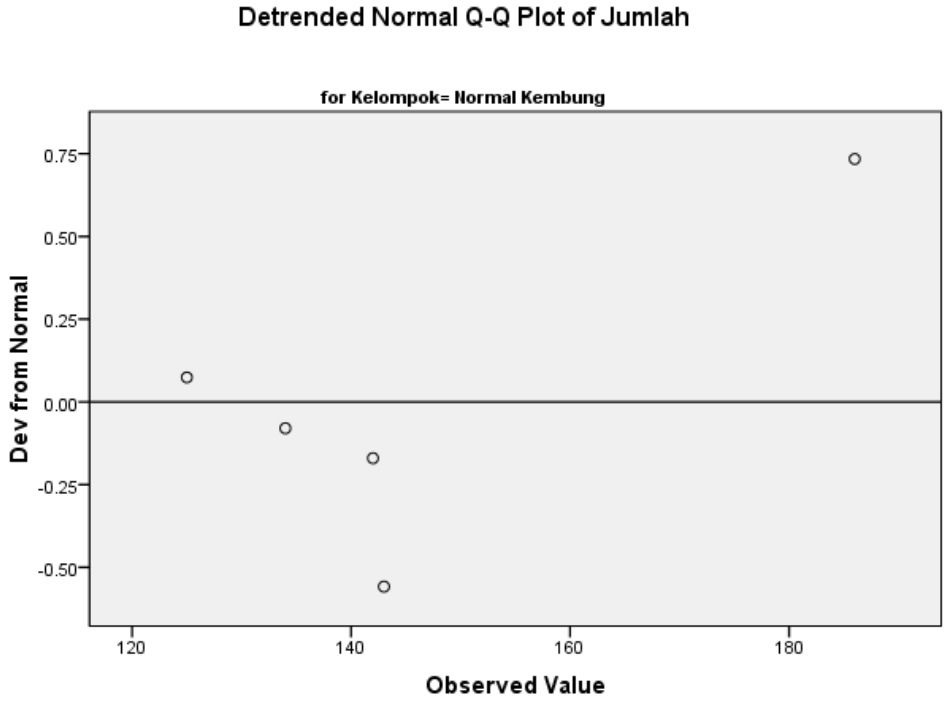


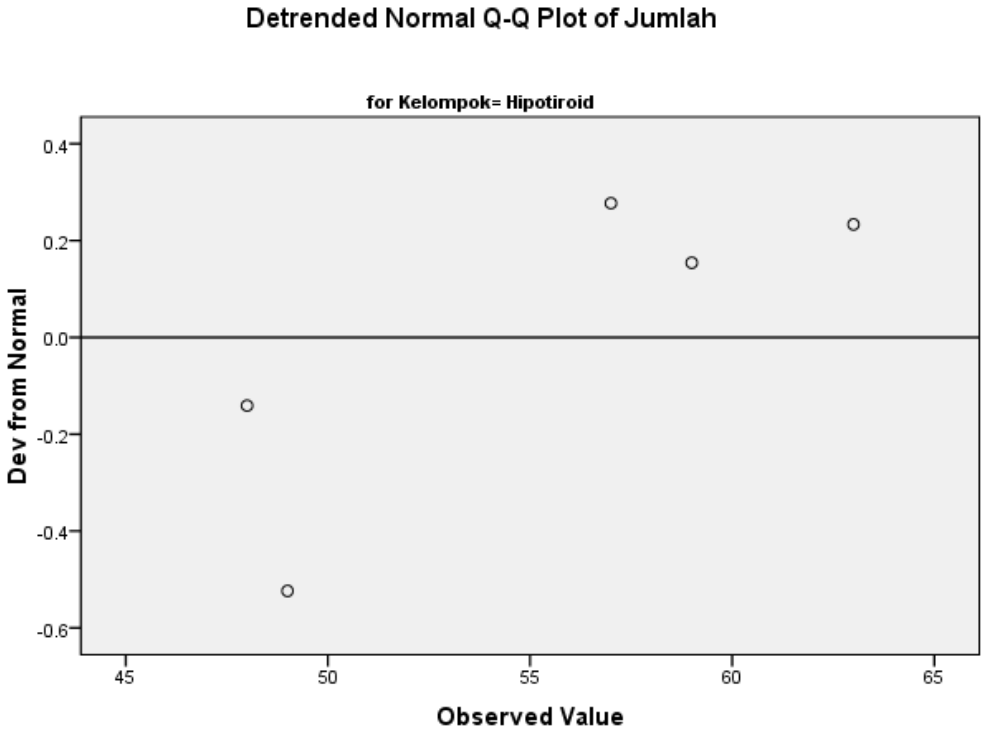


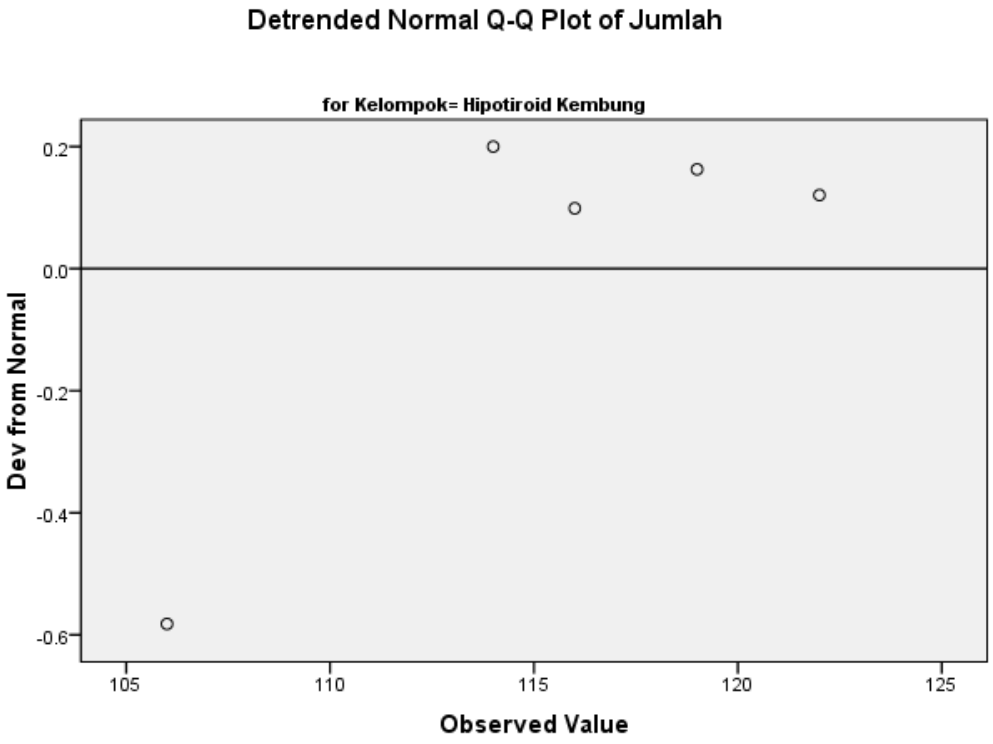
* Plot of LN of Spread vs LN of Level

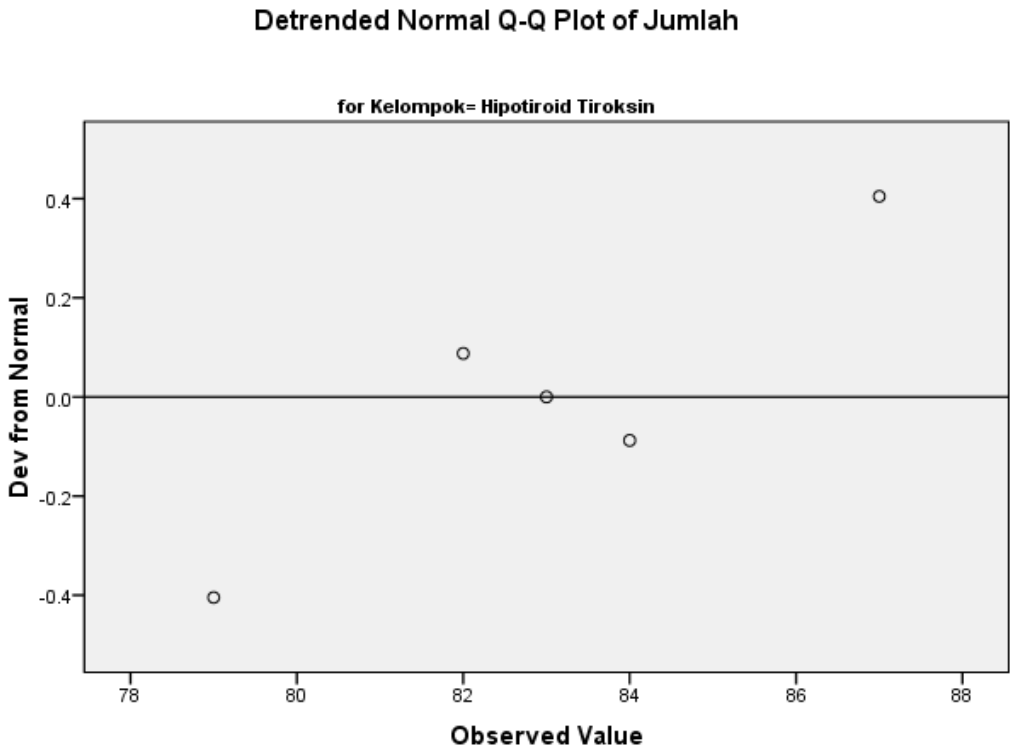
Slope = 1.198 Power for transformation = -.198

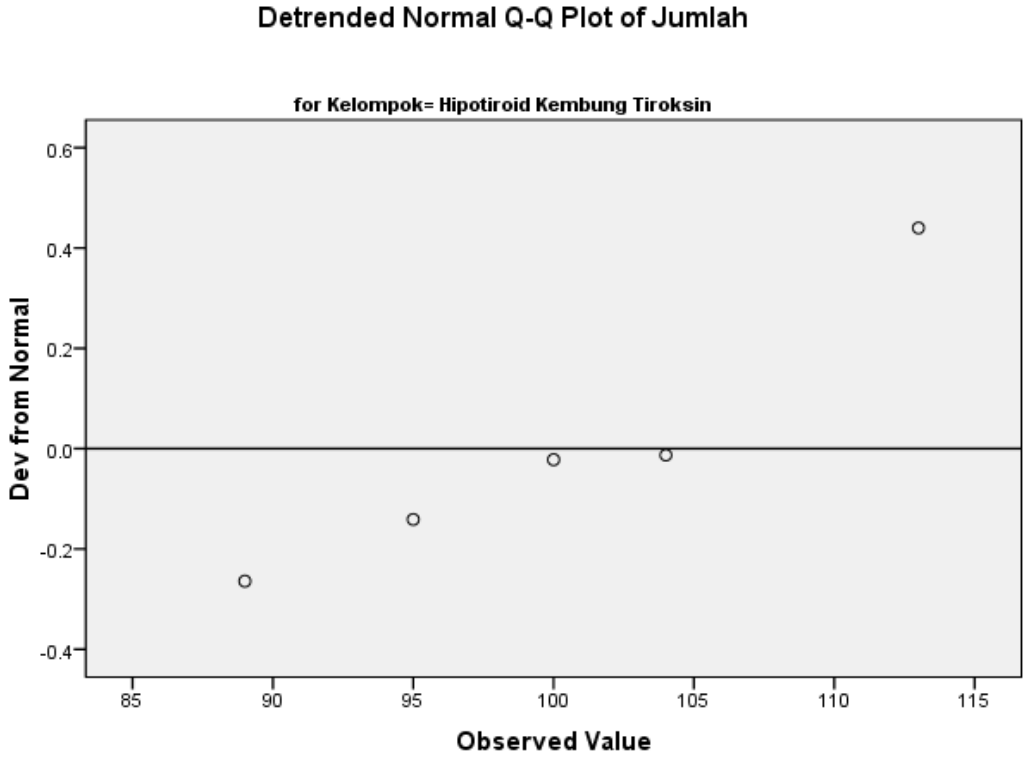

Detrended Normal Q-Q Plot of Jumlah
for Kelompok= Normal
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
-0.50
100
110
120
130
140
150
Observed Value


Detrended Normal Q-Q Plot of Jumlah
for Kelompok= Normal Kembung
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
-0.50
120
140
160
180
Observed Value

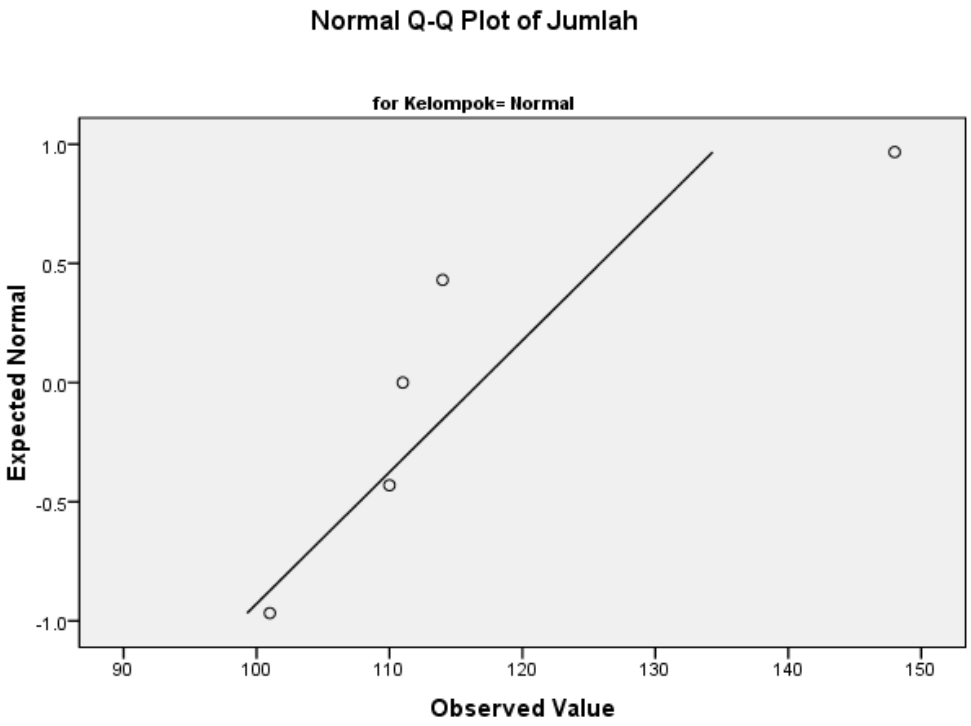

Detrended Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid
Dev from Normal
0.4
0.2
0.0
-0.2
-0.4
-0.6
45
50
55
60
65
Observed Value

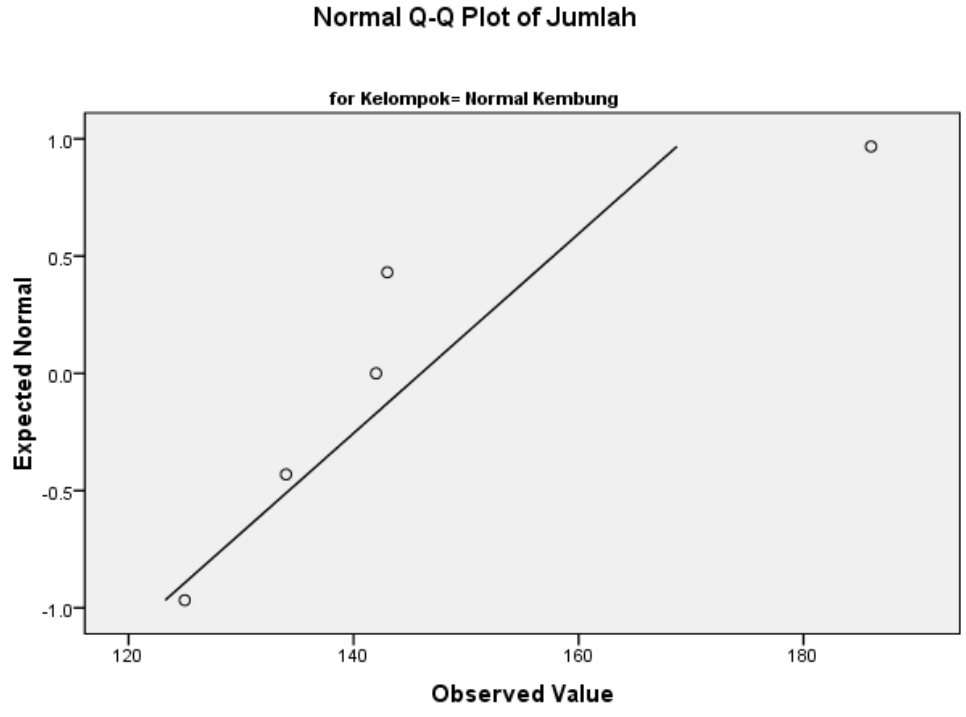

Detrended Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid Kembung
Dev from Normal
0.2
0.0
-0.2
-0.4
-0.6
105
110
115
120
125
Observed Value

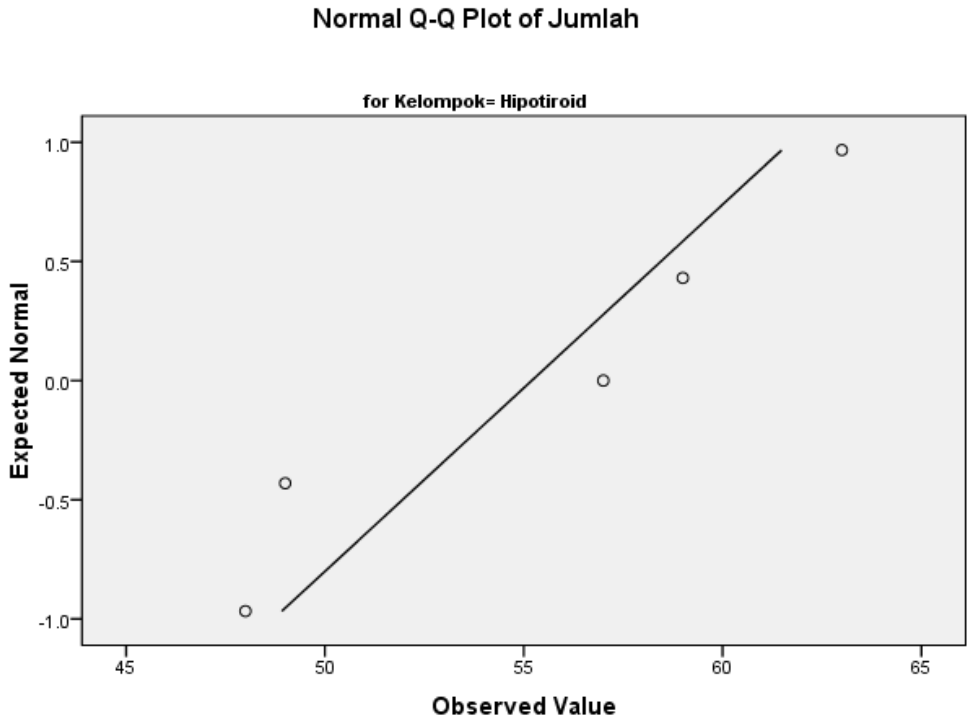

Detrended Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid Tiroksin
Dev from Normal
0.4
0.2
0.0
-0.2
-0.4
78
80
82
84
86
88
Observed Value

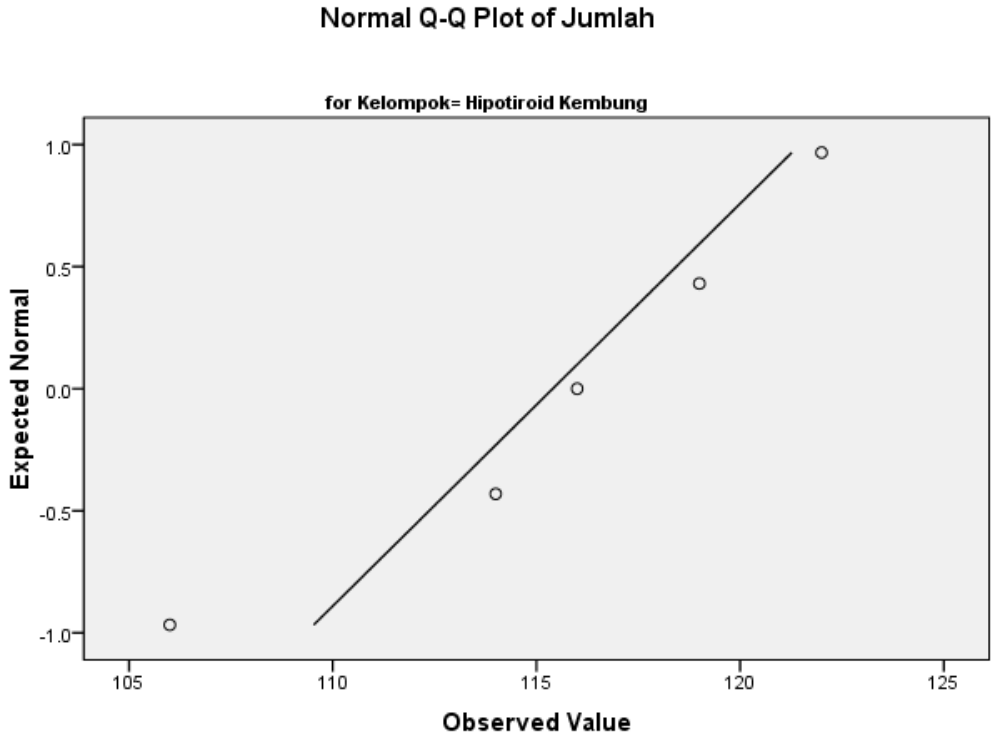

Detrended Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid Kembung Tiroksin
Dev from Normal
0.6
0.4
0.2
0.0
-0.2
-0.4
85
90
95
100
105
110
115
Observed Value

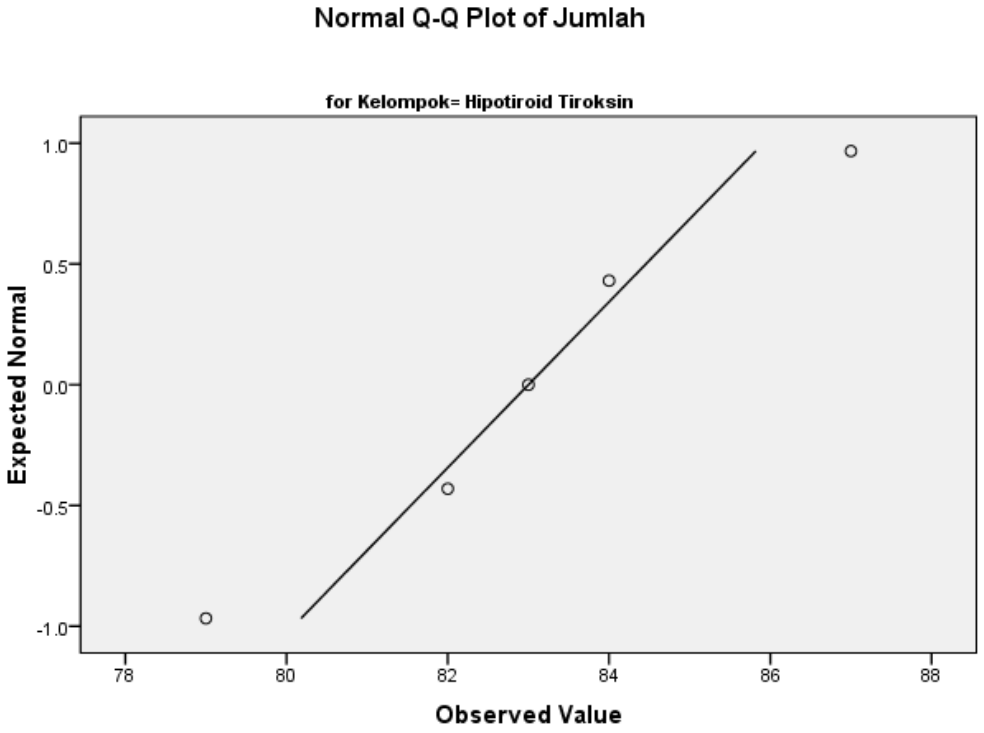
Normal Q-Q Plots

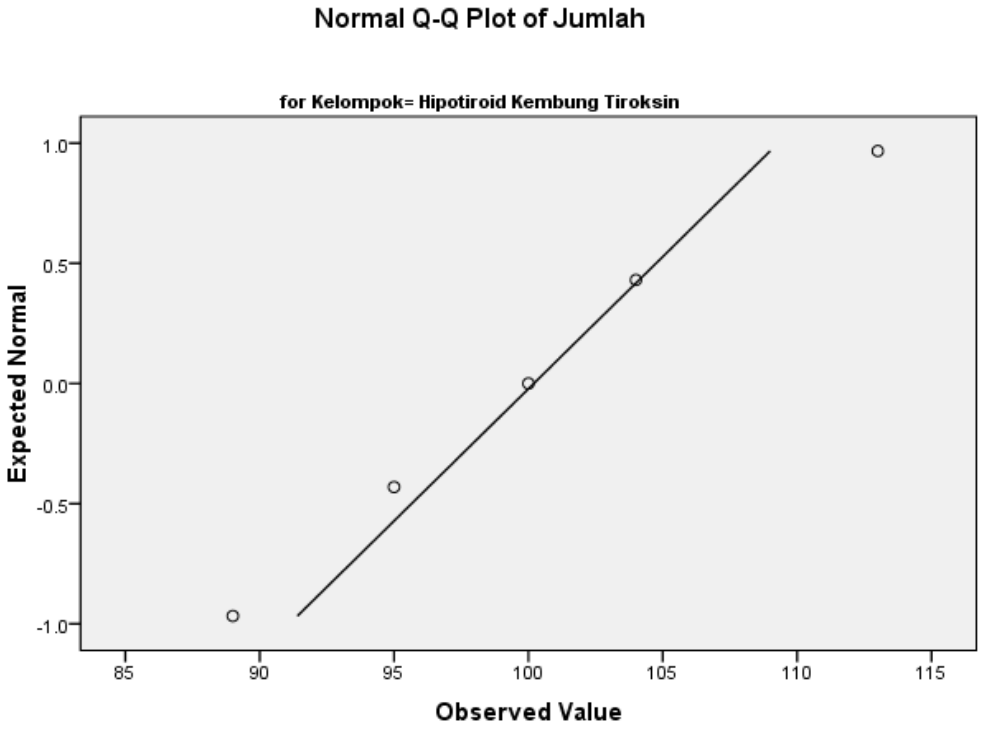





Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid
Expected Normal
1.0
0.5
0.0
-0.5
-1.0
45
50
55
60
65
Observed Value


Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid Kembung
Expected Normal
1.0
0.5
0.0
-0.5
-1.0
105
110
115
120
125
Observed Value


Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid Tiroksin
Expected Normal
1.0
0.5
0.0
-0.5
-1.0
78
80
82
84
86
88
Observed Value

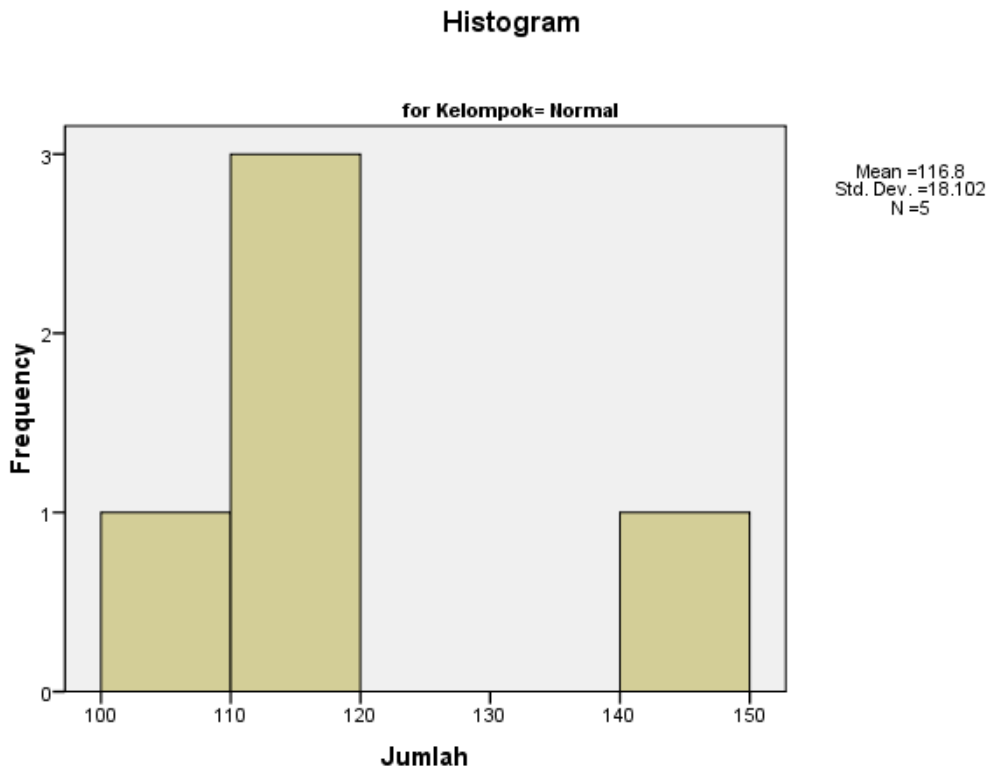

Normal Q-Q Plot of Jumlah
for Kelompok= Hipotiroid Kembung Tiroksin
Expected Normal
1.0
0.5
0.0
-0.5
-1.0
85
90
95
100
105
110
115
Observed Value

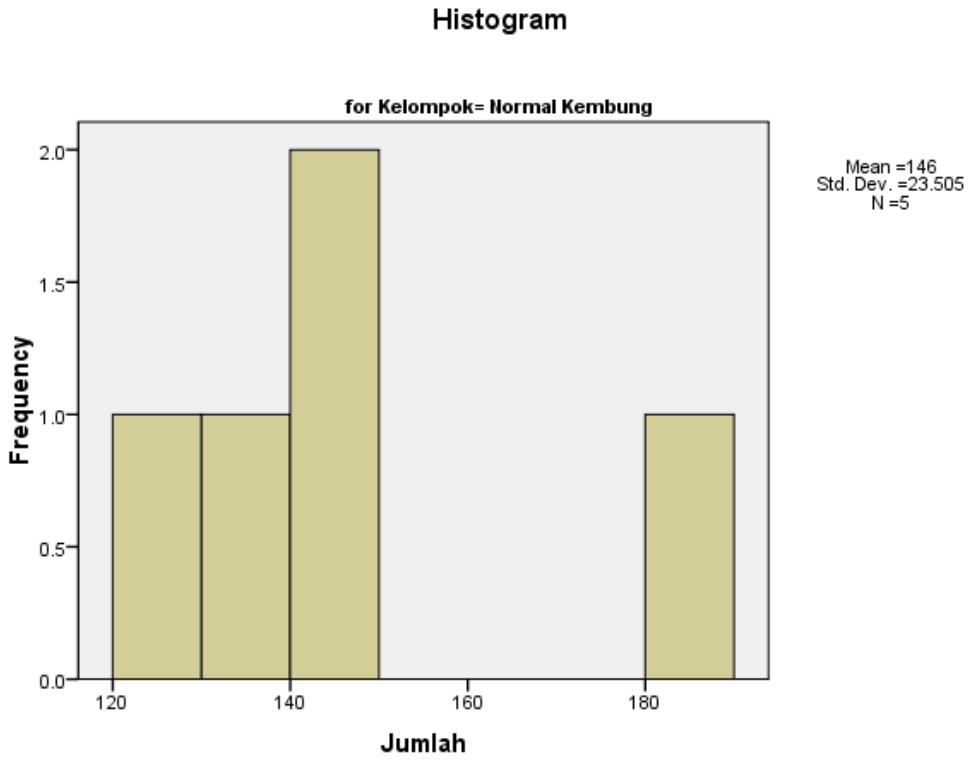
Stem-and-Leaf Plots

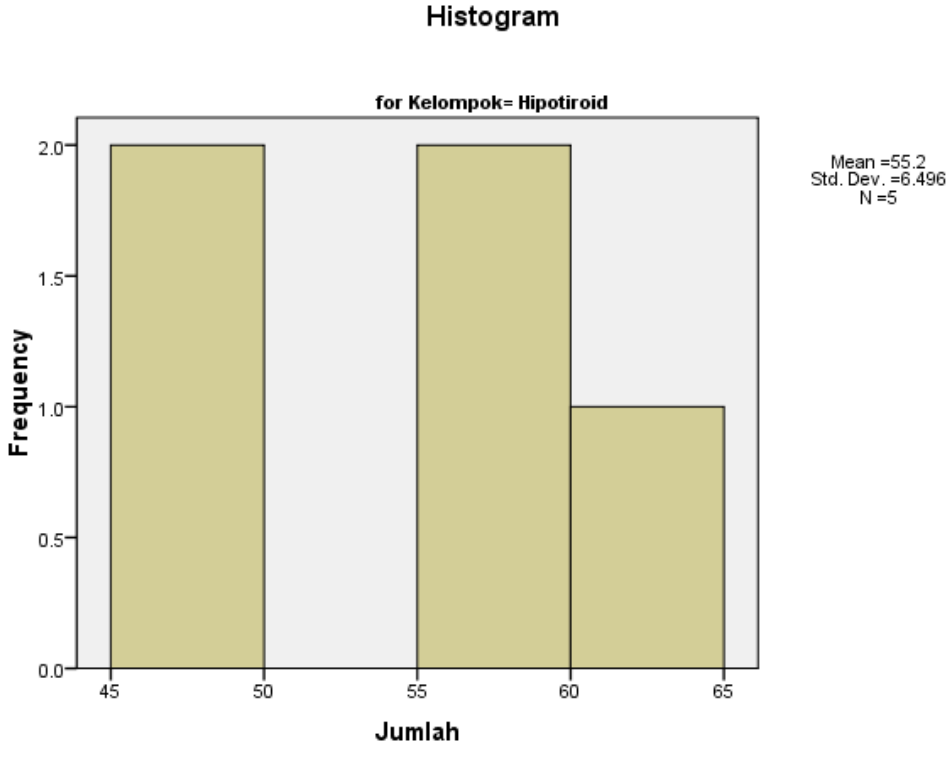
```
Jumlah Stem-and-Leaf Plot for
Kelompok= Normal

 Frequency    Stem &  Leaf

     1.00 Extremes    (=<101)
     3.00       11 .  014
     1.00 Extremes    (>=148)

 Stem width:        10
 Each leaf:       1 case(s)


Jumlah Stem-and-Leaf Plot for
Kelompok= Normal Kembung

 Frequency    Stem &  Leaf

     1.00       12 .  5
     1.00       13 .  4
     2.00       14 .  23
     1.00 Extremes    (>=186)

 Stem width:        10
 Each leaf:       1 case(s)

Jumlah Stem-and-Leaf Plot for
Kelompok= Hipotiroid

 Frequency    Stem &  Leaf

     2.00        4 .  89
     2.00        5 .  79
     1.00        6 .  3

 Stem width:        10
 Each leaf:       1 case(s)

Jumlah Stem-and-Leaf Plot for
Kelompok= Hipotiroid Kembung

 Frequency    Stem &  Leaf

     1.00 Extremes    (=<106)
     1.00       11 .  4
     2.00       11 .  69
     1.00       12 .  2

 Stem width:        10
 Each leaf:       1 case(s)

Jumlah Stem-and-Leaf Plot for
Kelompok= Hipotiroid Tiroksin

 Frequency    Stem &  Leaf

     1.00        7 .  9
     3.00        8 .  234
```

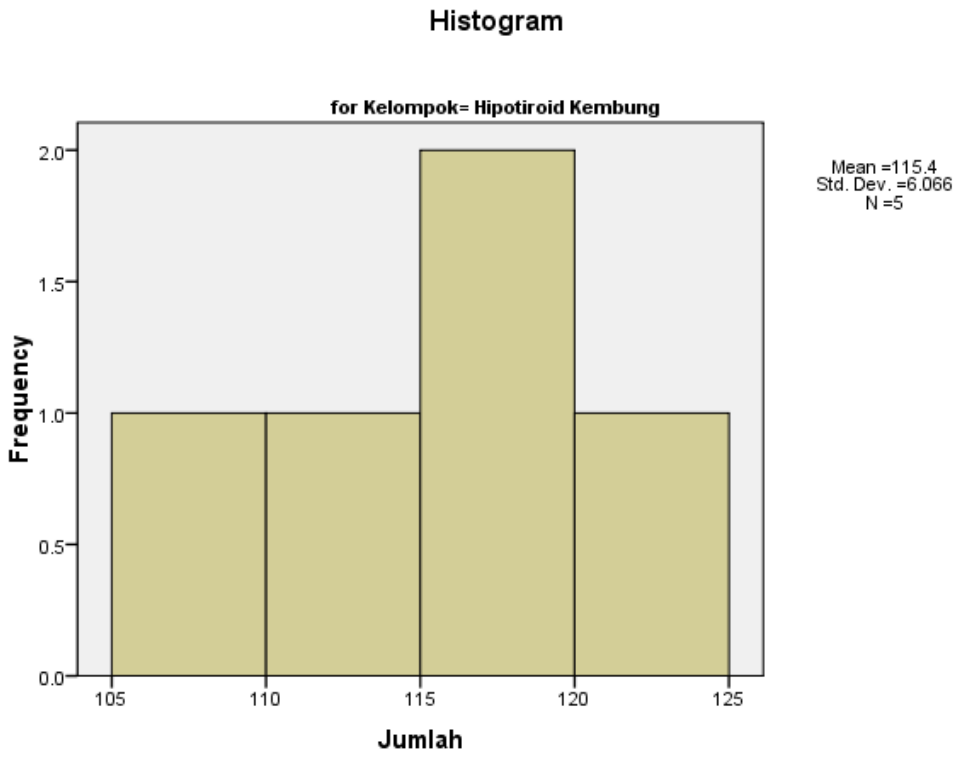
```
     1.00        8 .  7

 Stem width:        10
 Each leaf:       1 case(s)

Jumlah Stem-and-Leaf Plot for
Kelompok= Hipotiroid Kembung Tiroksin

 Frequency    Stem &  Leaf

     1.00        8 .  9
     1.00        9 .  5
     2.00       10 .  04
     1.00       11 .  3

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

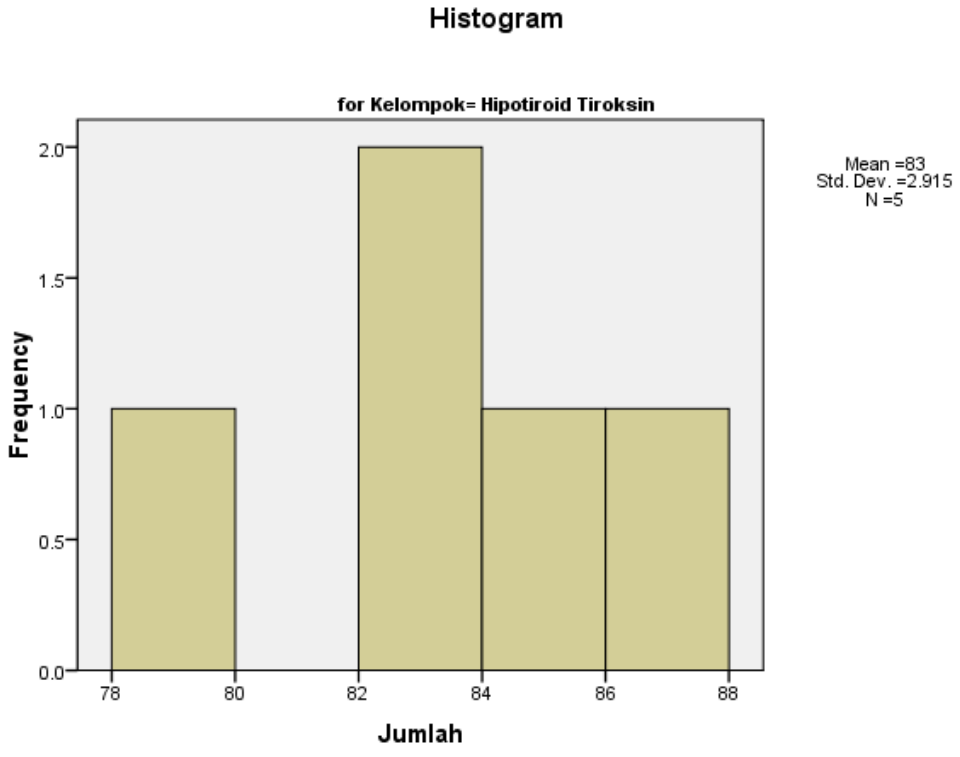
Histograms

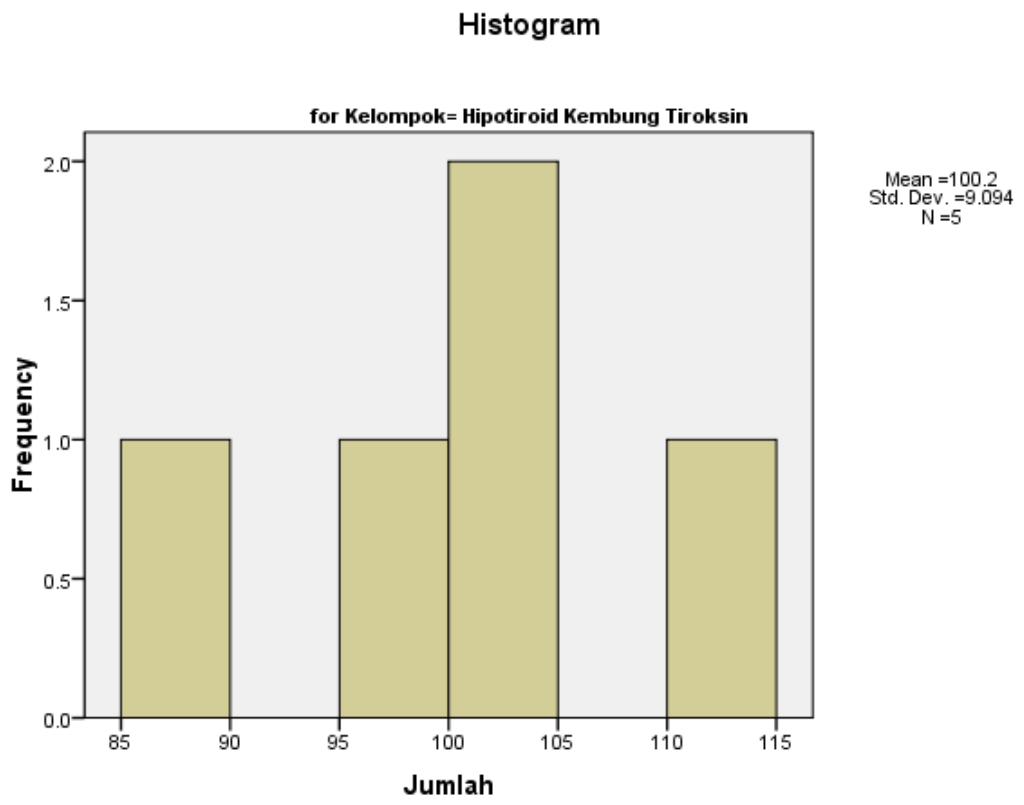



Histogram
for Kelompok= Normal Kembung
Mean =146
Std. Dev. =23.505
N =5
Frequency
2.0
1.5
1.0
0.5
0.0
120
140
160
180
Jumlah


Histogram
for Kelompok= Hipotiroid
Mean =55.2
Std. Dev. =6.496
N =5
Frequency
2.0
1.5
1.0
0.5
0.0
45
50
55
60
65
Jumlah


Histogram
for Kelompok= Hipotiroid Kembung
Mean =115.4
Std. Dev. =6.066
N =5
Frequency
2.0
1.5
1.0
0.5
0.0
105
110
115
120
125
Jumlah


Histogram
for Kelompok= Hipotiroid Tiroksin
Mean =83
Std. Dev. =2.915
N =5
Frequency
2.0
1.5
1.0
0.5
0.0
78
80
82
84
86
88
Jumlah



Oneway

ANOVA

Jumlah

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	24427.767	5	4885.553	27.907	.000
Within Groups	4201.600	24	175.067		
Total	28629.367	29			

Post Hoc Tests

Multiple Comparisons

Dependent Variable:Jumlah

	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	Normal	Normal Kembung	-29.200*	8.368	.021	-55.07	-3.33
		Hipotiroid	61.600*	8.368	.000	35.73	87.47
		Hipotiroid Kembung	1.400	8.368	1.000	-24.47	27.27
		Hipotiroid Tiroksin	33.800*	8.368	.006	7.93	59.67
		Hipotiroid Kembung Tiroksin	16.600	8.368	.380	-9.27	42.47
	Normal Kembung	Normal	29.200*	8.368	.021	3.33	55.07
		Hipotiroid	90.800*	8.368	.000	64.93	116.67
		Hipotiroid Kembung	30.600*	8.368	.014	4.73	56.47
		Hipotiroid Tiroksin	63.000*	8.368	.000	37.13	88.87
		Hipotiroid Kembung Tiroksin	45.800*	8.368	.000	19.93	71.67
	Hipotiroid	Normal	-61.600*	8.368	.000	-87.47	-35.73
		Normal Kembung	-90.800*	8.368	.000	-116.67	-64.93
		Hipotiroid Kembung	-60.200*	8.368	.000	-86.07	-34.33
		Hipotiroid Tiroksin	-27.800*	8.368	.030	-53.67	-1.93

		Hipotiroid Kembung Tiroksin	-45.000*	8.368	.000	-70.87	-19.13
	Hipotiroid Kembung	Normal	-1.400	8.368	1.000	-27.27	24.47
		Normal Kembung	-30.600*	8.368	.014	-56.47	-4.73
		Hipotiroid	60.200*	8.368	.000	34.33	86.07
		Hipotiroid Tiroksin	32.400*	8.368	.008	6.53	58.27
		Hipotiroid Kembung Tiroksin	15.200	8.368	.475	-10.67	41.07
	Hipotiroid Tiroksin	Normal	-33.800*	8.368	.006	-59.67	-7.93
		Normal Kembung	-63.000*	8.368	.000	-88.87	-37.13
		Hipotiroid	27.800*	8.368	.030	1.93	53.67
		Hipotiroid Kembung	-32.400*	8.368	.008	-58.27	-6.53
		Hipotiroid Kembung Tiroksin	-17.200	8.368	.343	-43.07	8.67
	Hipotiroid Kembung Tiroksin	Normal	-16.600	8.368	.380	-42.47	9.27
		Normal Kembung	-45.800*	8.368	.000	-71.67	-19.93
		Hipotiroid	45.000*	8.368	.000	19.13	70.87
		Hipotiroid Kembung	-15.200	8.368	.475	-41.07	10.67
		Hipotiroid Tiroksin	17.200	8.368	.343	-8.67	43.07
LSD	Normal	Normal Kembung	-29.200*	8.368	.002	-46.47	-11.93
		Hipotiroid	61.600*	8.368	.000	44.33	78.87

		Hipotiroid Kembung	1.400	8.368	.869	-15.87	18.67
		Hipotiroid Tiroksin	33.800*	8.368	.000	16.53	51.07
		Hipotiroid Kembung Tiroksin	16.600	8.368	.059	-.67	33.87
	Normal Kembung	Normal	29.200*	8.368	.002	11.93	46.47
		Hipotiroid	90.800*	8.368	.000	73.53	108.07
		Hipotiroid Kembung	30.600*	8.368	.001	13.33	47.87
		Hipotiroid Tiroksin	63.000*	8.368	.000	45.73	80.27
		Hipotiroid Kembung Tiroksin	45.800*	8.368	.000	28.53	63.07
	Hipotiroid	Normal	-61.600*	8.368	.000	-78.87	-44.33
		Normal Kembung	-90.800*	8.368	.000	-108.07	-73.53
		Hipotiroid Kembung	-60.200*	8.368	.000	-77.47	-42.93
		Hipotiroid Tiroksin	-27.800*	8.368	.003	-45.07	-10.53
		Hipotiroid Kembung Tiroksin	-45.000*	8.368	.000	-62.27	-27.73
	Hipotiroid Kembung	Normal	-1.400	8.368	.869	-18.67	15.87
		Normal Kembung	-30.600*	8.368	.001	-47.87	-13.33
		Hipotiroid	60.200*	8.368	.000	42.93	77.47
		Hipotiroid Tiroksin	32.400*	8.368	.001	15.13	49.67
		Hipotiroid Kembung Tiroksin	15.200	8.368	.082	-2.07	32.47
	Hipotiroid Tiroksin	Normal	-33.800*	8.368	.000	-51.07	-16.53

		Normal Kembung	-63.000*	8.368	.000	-80.27	-45.73
		Hipotiroid	27.800*	8.368	.003	10.53	45.07
		Hipotiroid Kembung	-32.400*	8.368	.001	-49.67	-15.13
		Hipotiroid Kembung Tiroksin	-17.200	8.368	.051	-34.47	.07
	Hipotiroid Kembung Tiroksin	Normal	-16.600	8.368	.059	-33.87	.67
		Normal Kembung	-45.800*	8.368	.000	-63.07	-28.53
		Hipotiroid	45.000*	8.368	.000	27.73	62.27
		Hipotiroid Kembung	-15.200	8.368	.082	-32.47	2.07
		Hipotiroid Tiroksin	17.200	8.368	.051	-.07	34.47

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

Homogeneous Subsets

Jumlah

	Kelompok	N	Subset for alpha = 0.05			
			1	2	3	4
Tukey HSD[a]	Hipotiroid	5	55.20			
	Hipotiroid Tiroksin	5		83.00		
	Hipotiroid Kembung Tiroksin	5		100.20	100.20	
	Hipotiroid Kembung	5			115.40	
	Normal	5			116.80	
	Normal Kembung	5				146.00
	Sig.		1.000	.343	.380	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.