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LAMPIRAN 1. Ethical Clearance

	<p>KOMISI ETIK PENELITIAN KESEHATAN (KEPK) FAKULTAS KEDOKTERAN UNIVERSITAS DIPONEGORO DAN RSUP dr KARIADI SEMARANG Sekretariat : Kantor Dekanat FK Undip Lt.3 Jl. Dr. Soelomo 18. Semarang Telp/Fax. 024-8318350</p>	
<p>ETHICAL CLEARANCE No. 437/EC/FK-RSDK/2016</p>		
<p>Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Universitas Diponegoro-RSUP. Dr. Kariadi Semarang, setelah membaca dan menelaah Usulan Penelitian dengan judul :</p>		
<p>"PENGARUH EKSTRAK DAUN DEWA (GYNURA DIVARICATA) TERHADAP KADAR UREUM DAN KREATININ"</p>		
<p>Peneliti Utama : <i>Indi Swastyastika</i></p>		
<p>Pembimbing : -dr. Amalia N. Setyawati, MSi.Med -dr. Dwi Ngestiningsih, M.Kes, Sp.PD</p>		
<p>Penelitian : Dilaksanakan di Lab. Penelitian dan Pengembangan Terpadu-Layanan Penelitian Pra Klinik Pengembangan Hewan Percobaan (LPPT-LP3HP) Universitas Gajah Mada Yogyakarta</p>		
<p>Setuju untuk dilaksanakan, dengan memperhatikan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki 1975, yang diamended di Seoul 2008 dan Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI 2011</p>		
<p>Pada laporan akhir peneliti harus melampirkan cara pemeliharaan & dekapitasi hewan coba dan melaporkan ke KEPK bahwa penelitian sudah selesai dilampiri Abstrak Penelitian.</p>		
<p style="text-align: right;">Semarang, 11 APR 2016</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>Prof. Dr. dr. Suprihati, M.Sc., Sp.THT-KL(K) NIP. 19500621 197703 2 001</p> </div> </div>		

LAMPIRAN 2. Metode perawatan dan terminasi hewan coba



UNIVERSITAS GADJAH MADA
LABORATORIUM PENELITIAN DAN PENGUJIAN TERPADU
(LPPT – UGM)
 Bidang Layanan Penelitian Pra – Klinik dan Pengembangan Hewan Percobaan
 Jl. Agro Karang Malang Kampus UGM

Telp. (0274) 7497705, FAX. (0274) 546868, e-mail: lppt_info@mail.ugm.ac.id

SURAT KETERANGAN

CARA PEMELIHARAAN HEWAN COBA
DI UNIT PRAKLINIK LPPT UGM YOGYAKARTA


A. CARA MEMELIHARA HEWAN COBA

Hewan coba (Tikus / Mencit) dipelihara di dalam ruang laboratorium praklinik tempat pemeliharaan hewan coba. Sebelum digunakan untuk penelitian semua tikus diadaptasikan selama seminggu. Tikus dikandangkan secara berkelompok dalam ruangan tertutup dengan ventilasi yang cukup dan pencahayaan memadai. Suhu ruangan berkisar 27-32⁰C. Penerangan diatur sesuai siklus 12 jam terang- 12 jam gelap. Semua hewan coba mendapat makanan berupa pakan AD II dan minum air RO yang diberikan secara *ad libitum* . Setiap hari kandang dibersihkan dan kesehatan hewan dimonitor.


B. CARA EUTHANASI HEWAN COBA

Teknik euthanasi yang akan digunakan adalah teknik anestesi overdosis dengan menggunakan Ether (AVMA, 2000; Inglis 1980). Awalnya, 10 -20 ml ether dituang ke dalam kapas yang telah diletakkan di dalam stoples. Tikus yang akan dikorbankan selanjutnya dimasukkan ke dalam stoples, kemudian ditutup rapat. Dilakukan pengamatan terhadap nafas dan denyut jantung. Apabila tikus sudah tidak bernafas, tutup stoples dibuka, hewan diletakkan di tempat nekropsi. Sebelum dilakukan pembedahan, dilakukan pengamatan kembali denyut jantung dan nafas untuk memastikan hewan telah benar-benar mati.

Yogyakarta, 5 April 2016
 Kabid Unit Pra – Klinik, LPPT UGM


Dr. drh. Claude Mona Airin, M. P
 NIP : 19760708200801 2 012

LAMPIRAN 3. Pelarutan ekstrak daun dewa menggunakan PEG

	LEMBAR KERJA KOMPILASI DATA LABORATORIUM PENGUJIAN "LPPT-UGM"		RDP/5.10.2/LPPT Rev.01
Nama sampel	Ekstrak Daun Dewa	No. Pengujian	
Kode sampel	16010100052	Tanggal Diterima	2016
Tanggal Pengujian	2016	Tanggal Selesai	2016
Suhu Ruangan		Kelembaban	
Metode Uji	1. Volumetri	2.	
	3.	4.	

Prosedur Pengenceran Ekstrak Daun Dewa

Pembuatan pertama:

Dosis : 750mg/kgBB
 Jumlah hewan uji 5 ekor
 Berat rata-rata tikus 150 gram
 Lama pemberian 14 hari
 Volume oral 2 mL

Timbang 11,25 gram Ekstrak Daun Dewa
 Tambahkan dengan 2,5 mL PEG , aduk hingga homogen
 Tambahkan Aquadest sampai volume 200 mL, aduk hingga homogen.

Kontrol PEG 1,25%, sebanyak 200 mL
 2,5 mL PEG larutkan dengan Aquadest sampai volume 200 mL.

Pembuatan kedua:

Dosis : 750mg/kgBB
 Jumlah hewan uji 2 ekor
 Berat rata-rata tikus 150 gram
 Lama pemberian 14 hari
 Volume oral 2 mL

Timbang 3,375 gram Ekstrak Daun Dewa
 Tambahkan dengan 0,75 mL PEG , aduk hingga homogen
 Tambahkan Aquadest sampai volume 60 mL, aduk hingga homogen.

Diperiksa/Disetujui Oleh :




Anom Irawan, ST

Dikerjakan Oleh :

Dani Sapdani

LAMPIRAN 4. Surat hasil uji determinasi daun



RISET TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS DIPONEGORO
FAKULTAS SAINS DAN MATEMATIKA
LAB EKOLOGI & BIOSISTEMATIKA JURUSAN BOLOGI
Jl. Prof H Soedarto SH Tembalang Semarang, 024 7474754, 024 76480923

SURAT KETERANGAN

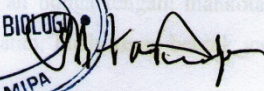
Yang bertanda tangan dibawah ini, menyatakan bahwa mahasiswa sbb :

	Nama	: Indi Swastyastika
	NIM	: 22010112140169
	Fakultas	: Kedokteran
	Perguruan Tinggi	: UNIVERSITAS DIPONEGORO
	Judul KTI	: Pengaruh Ekstrak Daun Dewa (<i>Gynura divaricata</i>) Terhadap Kadar Ureum dan Kreatinin Studi Eksperierntal Pada Tikus Model Kanker Payudara
	Pembimbing	: dr. Amalia N. Setyawati, M.Si, Med dr. Dwi Ngestiningsih, M.Kes, Sp.PD

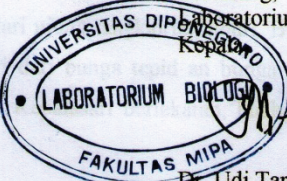
Telah mendeterminasikan/mengidentifikasi sampel tumbuhan (satu jenis) di Laboratorium Ekologi dan Biosistemika Jurusan Biologi FSM UNDIP. Hasil determinasi/identifikasi terlampir.

Demikian surat keterangan ini dibuat untuk dapat digunakan seperlunya.

Semarang, 4 Maret 2016
Laboratorium Ekologi & Biosistematik



Dr. Udi Tarwotjo, M.P.
NIP 195707041986031003





KEMENTERIAN RISET TEKNOLOGI DAN PENDIDIKAN TINGGI
 UNIVERSITAS DIPONEGORO
 FAKULTAS SAINS DAN MATEMATIKA
 LAB EKOLOGI & BIOSISTEMATIKA JURUSAN BOLOGI
 Jl. Prof H Soedarto SH Tembalang Semarang, 024 7474754, 024 76480923

HASIL DETERMINASI

Klasifikasi:

Kingdom	: Plantae
Super Divisi	: Spermatophyta (Tumbuhan berbili)
Divisi	: Magnoliophyta (Angiospermae/Tumbuhan Berbunga)
Kelas	: Magnoliopsida (Dicotyledoneae/berkeping dua)
Ordo	: Asterales
Famili	: Asteraceae
Genus	: Gynura
Species	: <i>Gynura divaricata</i> (L.) DC.
Nama Lokal	: Daun Dewa

Kunci Determinasi:

1b-2b-3b-4b-12b-13b-14b-17b-18b-19b-20b-21b-22b-23a-Famili 166. Asteraceae.-1b-3a-4b-5a-6b-15b-16b-19b-20b-21b-22a-Genus 86. Gynura-1b-Species *Gynura divaricata* (L.) DC. (Backer & Bakuizen, 1968)

Deskripsi:

Herba tegak atau merayap, bercabang banyak bila telah tua, tinggi 30-50 cm. Batang lunak berwarna hijau dengan alur memanjang. Daun tunggal, bertangkai, helaian daun ellip memanjang, bulat telur terbalik, pangkal daun menyempit, ujung runcing, tepi daun berlekuk dangkal, pertulangan menyirip, permukaan daun berambut lebat, warna permukaan atas hijau tua, sedangkan permukaan bawah hijau muda, panjang 8-20 cm, lebar 5-10 cm. Bunga majemuk bongkol, keluar dari ujung tangkai (terminal). Bunga bersama dibalut involucrem, berwarna hijau pucat, terdiri dari bunga tepid an bunga tengah; mahkota bunga berwarna kuning, pinggiran bertaju 5. Kepalasan berlekatan, buah keras bentuk garis, warna coklat kehitaman.




Gambar 1. Habitus tanaman daun dewa (*Gynura divaricata* (L.) DC.)

Pustaka:

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LAMPIRAN 5. Surat keterangan telah menyelesaikan penelitian

	UNIVERSITAS GADJAH MADA
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Bidang Layanan Penelitian Pra – Klinik dan Pengembangan Hewan Percobaan
Jl. Agro Karang Malang Kampus UGM
Telp. (0274) 7497705, FAX. (0274) 546868, e-mail: lppt_info@mail.ugm.ac.id

SURAT KETERANGAN
NO : 846/LP3HP/30 - V/2016

Bersama ini kami menerangkan bahwa ;

Nama	:	Indi Swastyastika
NIM	:	22010112140169
Instansi	:	Fakultas Kedokteran UNDIP Semarang
Jenjang Studi	:	S1

Benar – benar telah selesai melakukan Pengujian Penelitian di Unit Layanan Penelitian Pra – Klinik dan pengembangan Hewan Percobaan (LP3HP) LPPT UGM. Pada bulan Mei 2016, sesuai Proposal yang diajukan dengan judul:


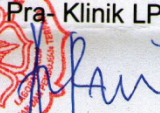
"PENGARUH EKSTRAK DAUN DEWA (*Gynura divaricata*)
TERHADAP KADAR UREUM DAN KREATININ" Studi
Eksperimental Pada Tikus Model Kanker Payudara.

Dan dinyatakan bebas dari segala tanggungan di Laboratorium Penelitian dan Pengujian Terpadu Universitas Gadjah Mada.

Demikian surat keterangan ini dibuat, agar dapat dipergunakan sebagaimana mestinya.

Atas kerjasama yang baik diucapkan banyak terima kasih

Yogyakarta, 30 Mei 2016
Kabid Unit Pra- Klinik LPPT UGM



Dr. drh. Claude Mona Airin, MP.
NIP : 19760708 200801 2 012

LAMPIRAN 6. Analisis SPSS

Analisis SPSS Kadar Ureum

Case Processing Summary

		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Kadar Ureum	Kontrol Negatif	5	100,0%	0	0,0%	5	100,0%
	Kontrol Positif	5	100,0%	0	0,0%	5	100,0%
	Perlakuan	5	100,0%	0	0,0%	5	100,0%

Descriptives

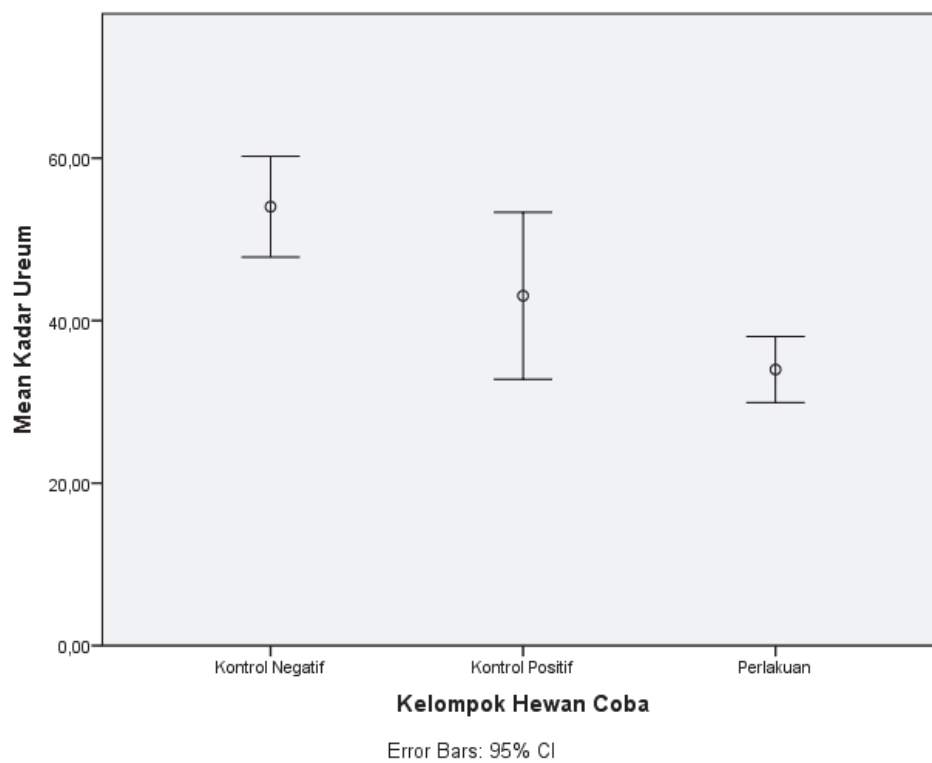
Kelompok Hewan Coba		Statistic	Std. Error	
Kadar ureum	Kontrol Negatif	Mean	54,0200	2,23973
		95% Confidence Interval for Mean	Lower Bound	47,8015
		Upper Bound	60,2385	
		5% Trimmed Mean	54,0111	
		Median	52,9000	
		Variance	25,082	
		Std. Deviation	5,00819	
		Minimum	47,40	
		Maximum	60,80	
		Range	13,40	
		Interquartile Range	8,80	
		Skewness	,110	,913
		Kurtosis	,120	2,000
		Kontrol Positif	Kontrol Positif	Mean
95% Confidence Interval for Mean	Lower Bound			32,7873
Upper Bound	53,3327			
5% Trimmed Mean	42,6778			
Median	40,3000			
Variance	68,448			
Std. Deviation	8,27333			
Minimum	36,00			
Maximum	57,00			
Range	21,00			
Interquartile Range	13,10			
Skewness	1,644			,913
Kurtosis	2,879			2,000
Perlakuan	Perlakuan			Mean
		95% Confidence Interval for Mean	Lower Bound	29,9076
		Upper Bound	38,0524	
		5% Trimmed Mean	33,8722	
		Median	32,4000	
		Variance	10,757	

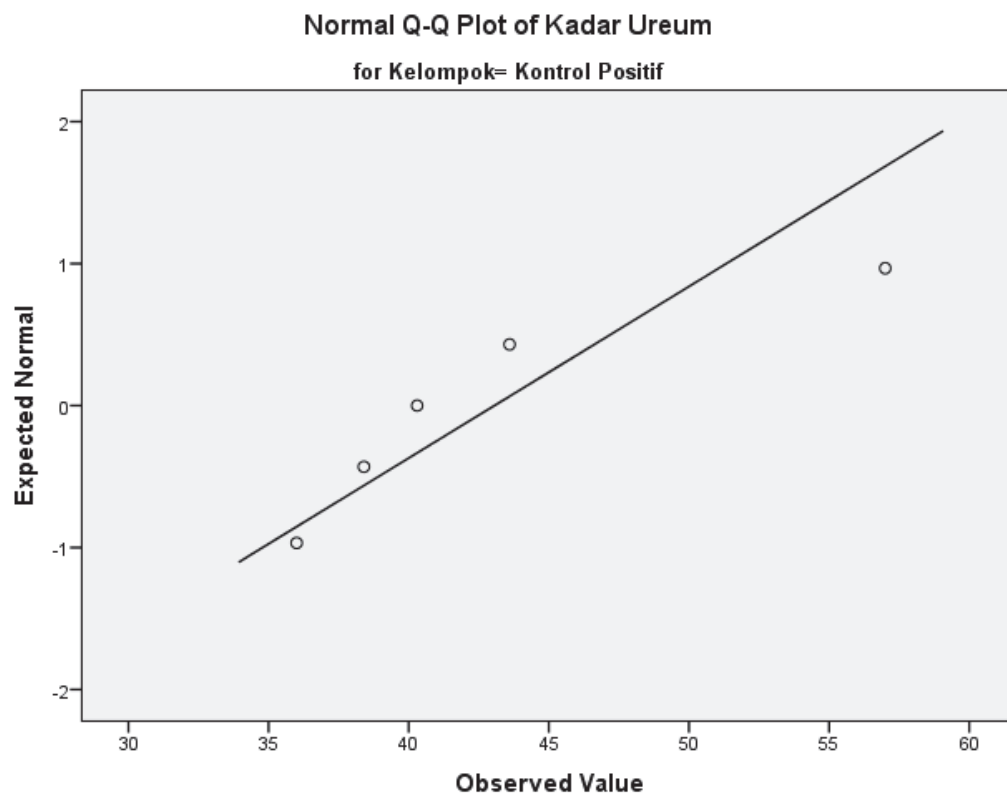
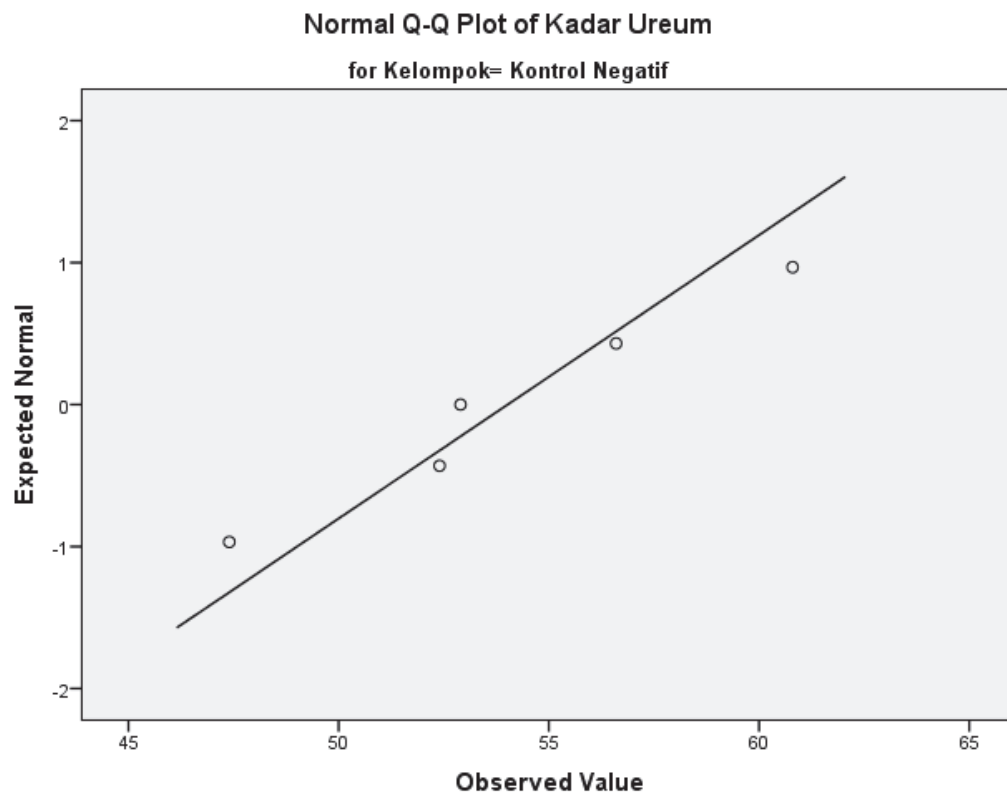
Std. Deviation	3,27979	
Minimum	30,90	
Maximum	39,00	
Range	8,10	
Interquartile Range	5,75	
Skewness	1,065	,913
Kurtosis	,092	2,000

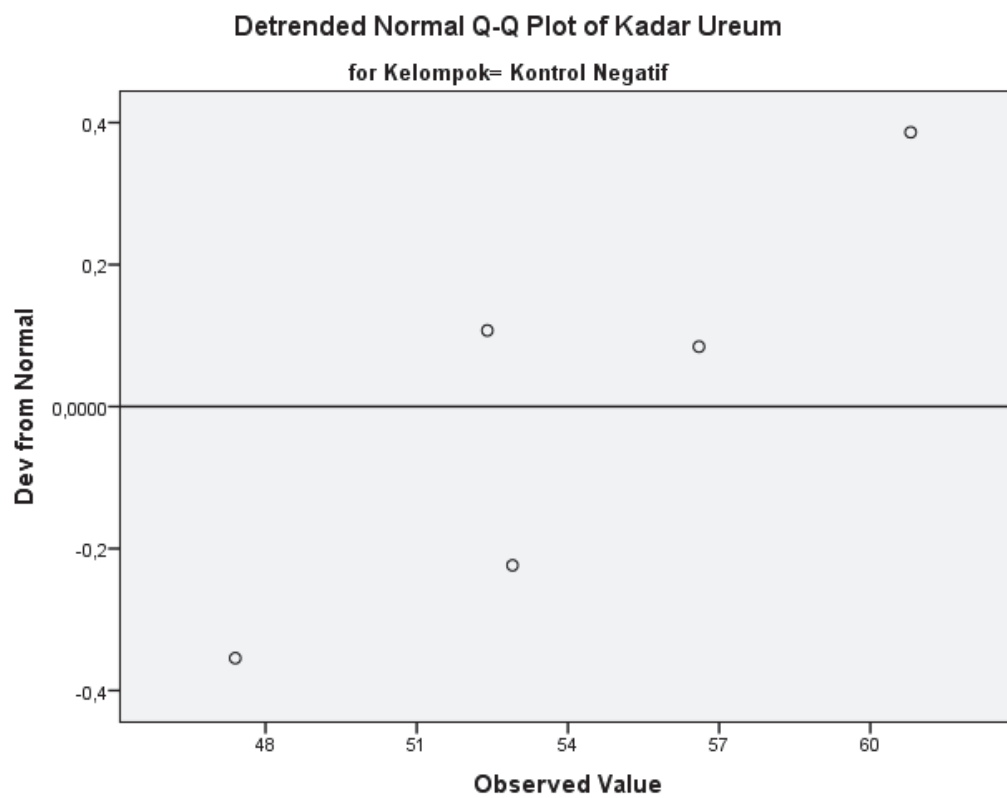
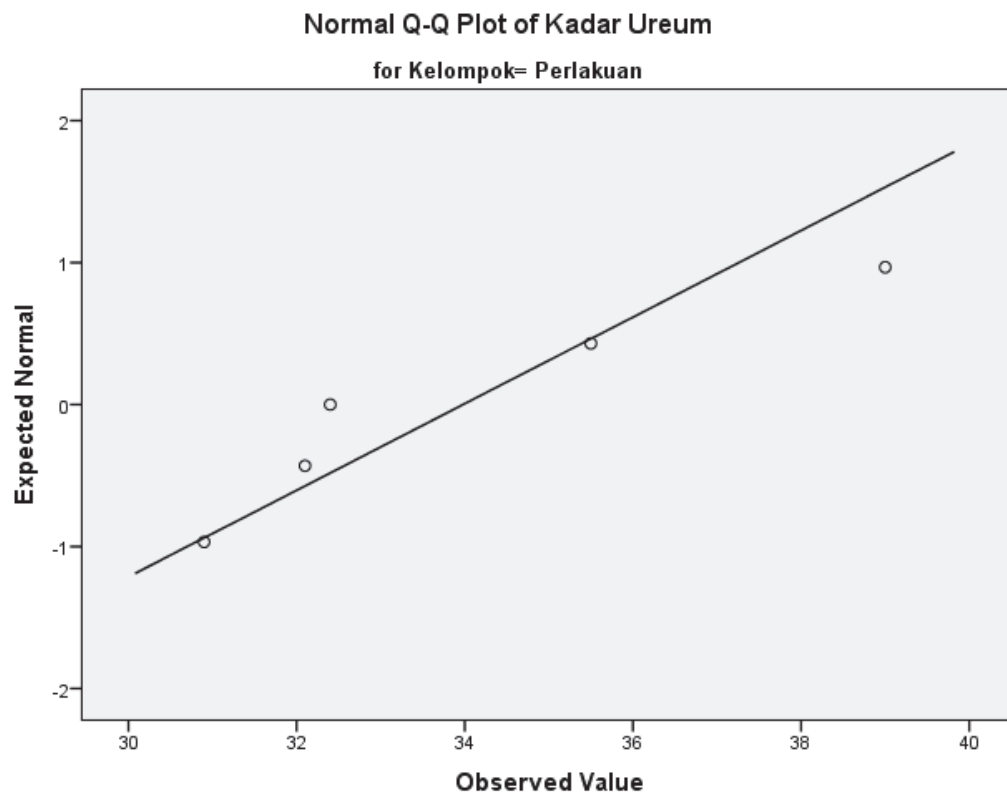
Test of Normality

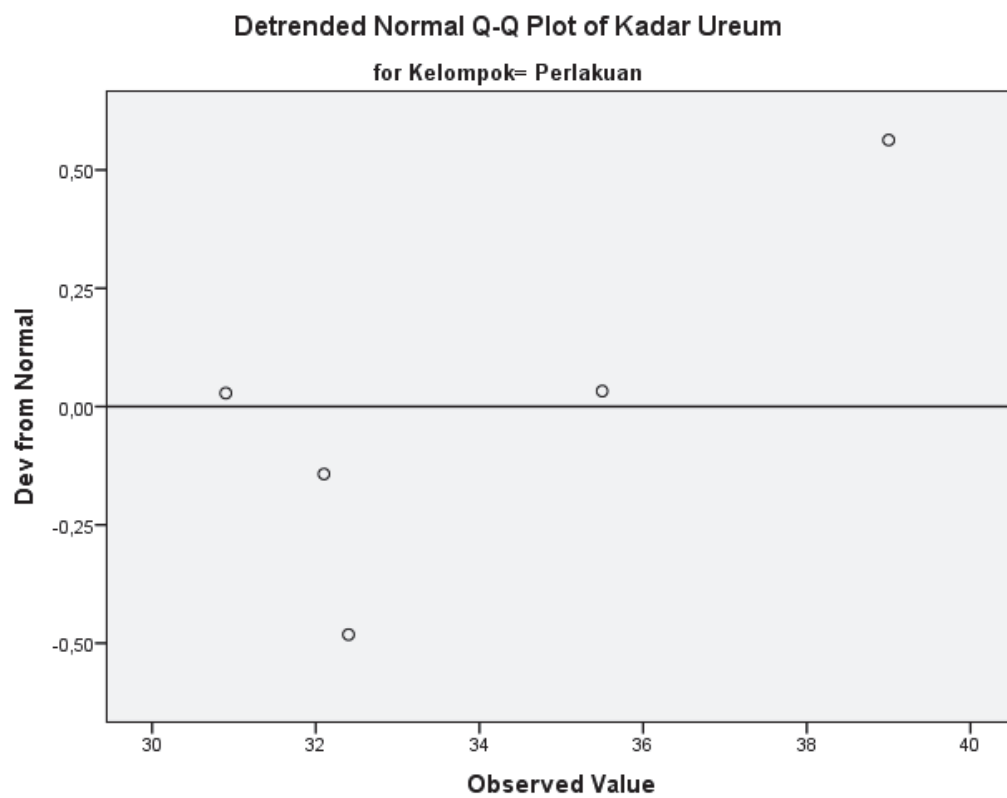
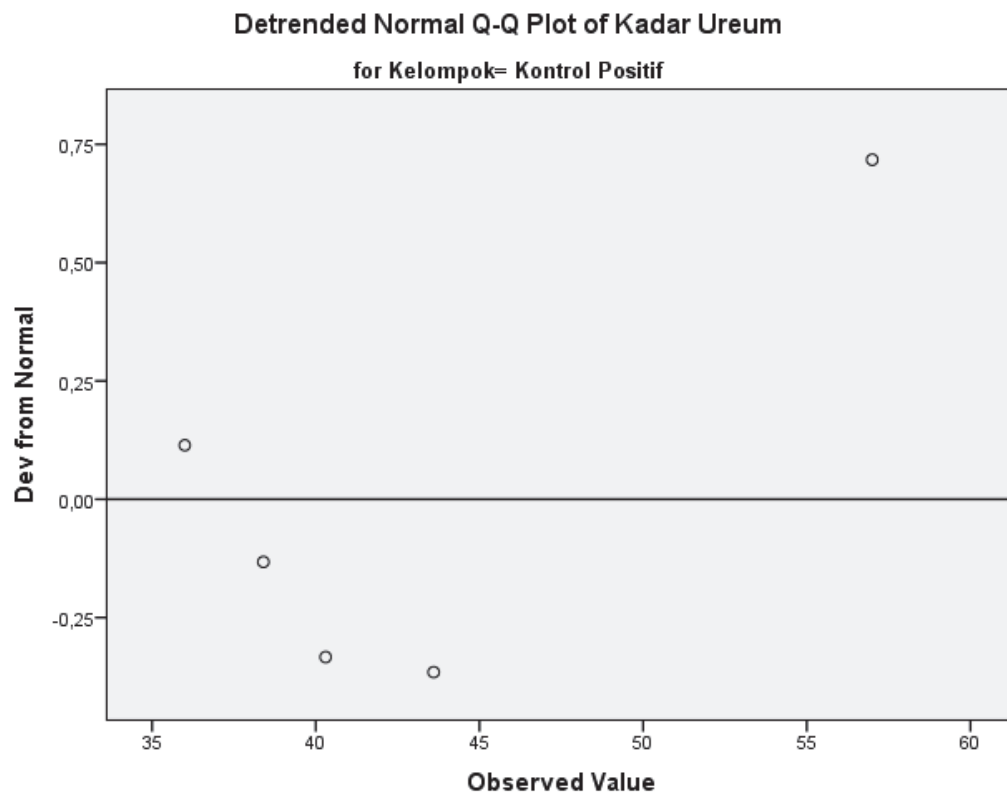
		Kolmogorov-Smirnov			Saphiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Ureum	K1	0,188	5	0,200*	0,981	5	0,939
	K2	0,274	5	0,200*	0,845	5	0,180
	P	0,285	5	0,200*	0,895	5	0,381

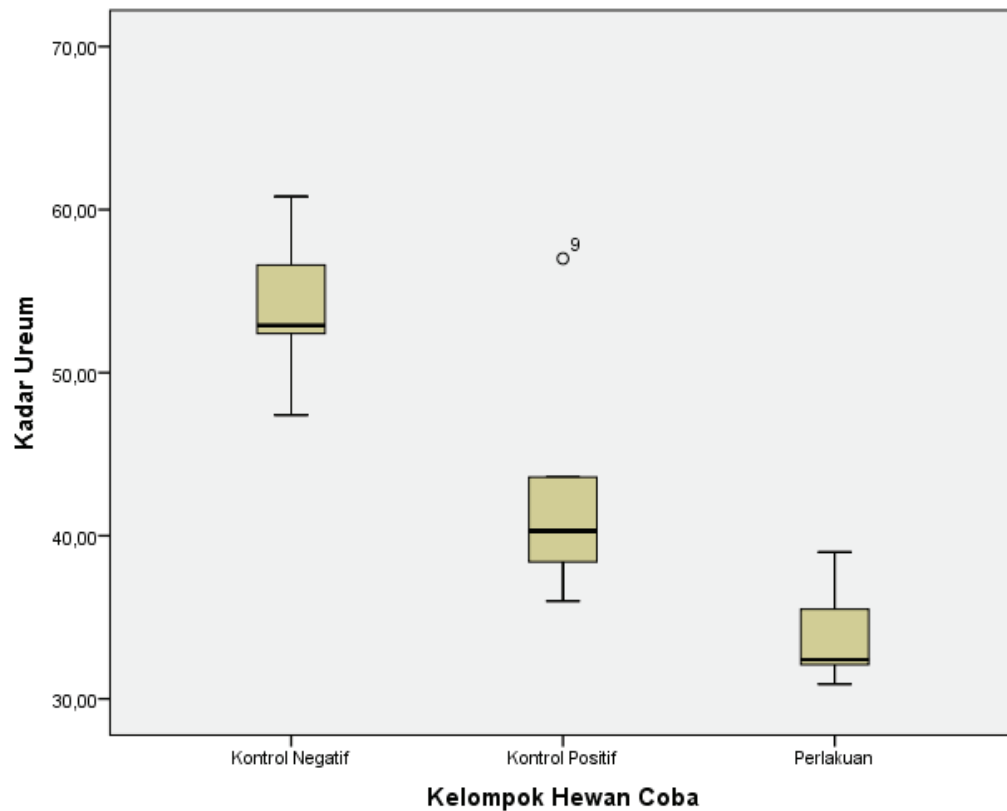
Error bar kadar ureum darah











Test of Homogeneity of Variances

Kadar Ureum

Levene Statistic	df1	df2	df3
1,072	2	12	,373

ANOVA

Kadar Ureum

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1006,949	2	503,475	14,483	,001
Within Grups	417,148	12	34,762		
Total	1424,097	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable : Kadar Ureum

Bonferroni

(I) Kelompok Hewan Coba	(J) Kelompok Hewan Coba	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Negatif	Kontrol Positif	10,96000*	3,72893	,037	,5955	21,3245
	Perlakuan	20,04000*	3,72893	,001	9,6755	30,4045
Kontrol Positif	Kontrol Negatif	-10,96000*	3,72893	,037	-21,3245	-,5955
	Perlakuan	9,08000	3,72893	,094	-1,2845	19,4445
Perlakuan	Kontrol Negatif	-20,04000*	3,72893	,002	-30,4045	-9,6755
	Kontrol Positif	-9,08000	3,72893	,094	-19,4445	1,2845

* The mean difference is significant at the 0.05 level.

Analisis SPSS Kadar Kreatinin

Case Processing Summary

	Kelompok Hewan Coba	Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
		Kadar Kreatinin	Kontrol Negatif	5	100,0%	0	0,0%
	Kontrol Positif	5	100,0%	0	0,0%	5	100,0%
	Perlakuan	5	100,0%	0	0,0%	5	100,0%

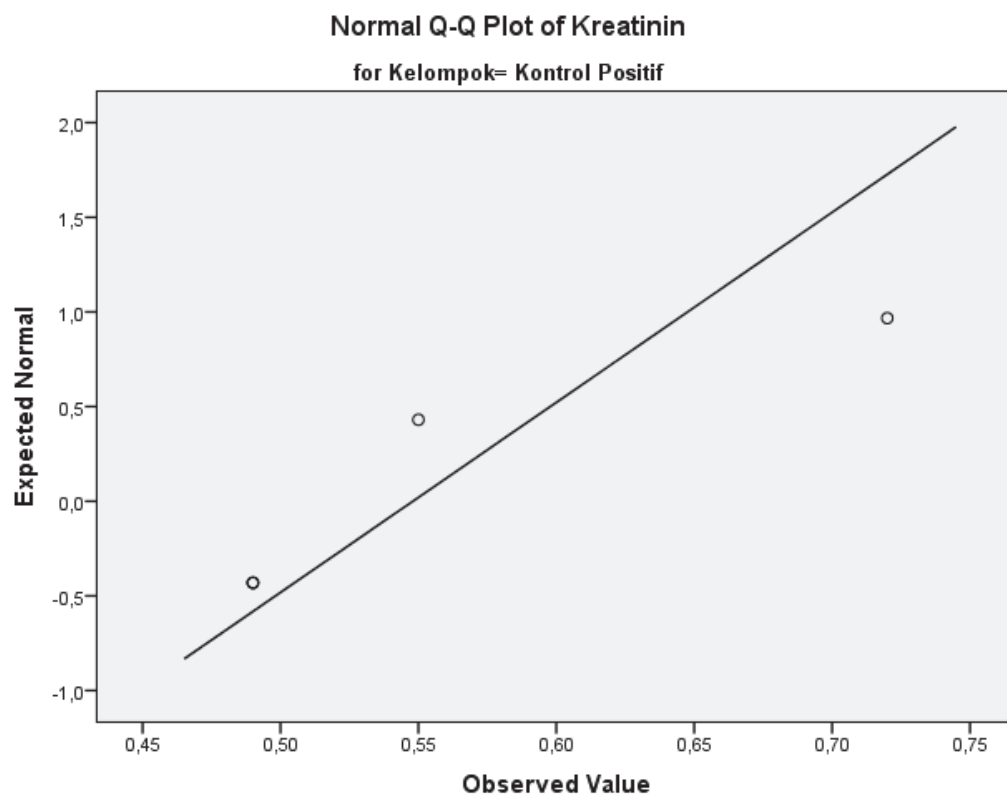
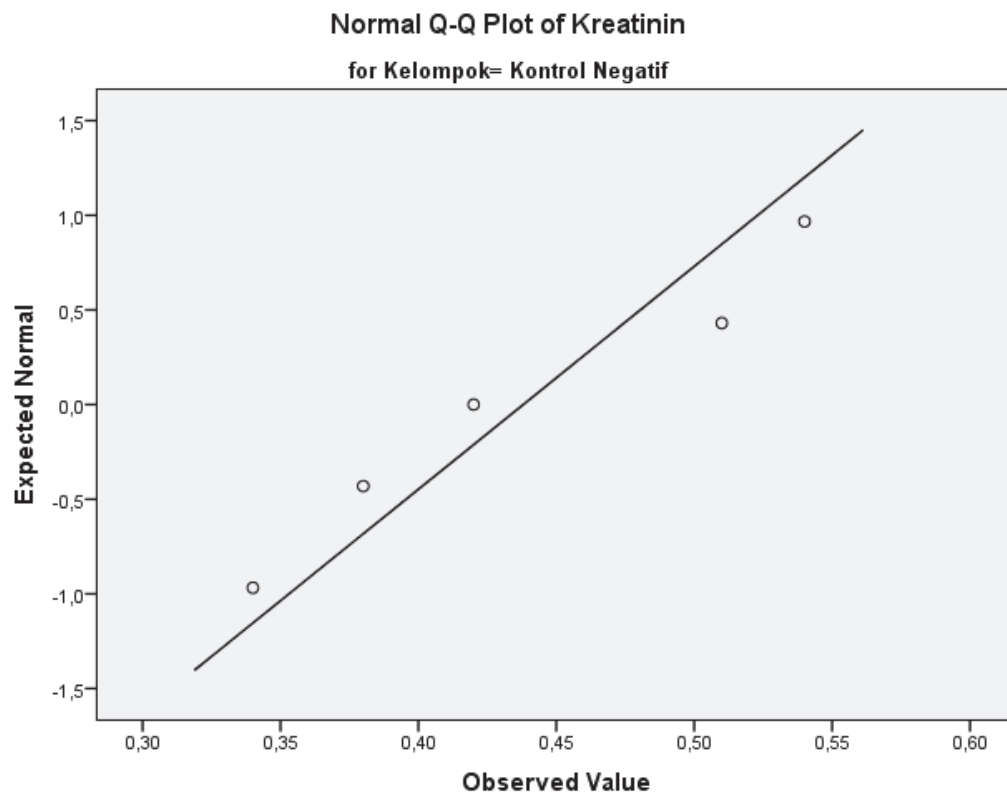
Descriptives

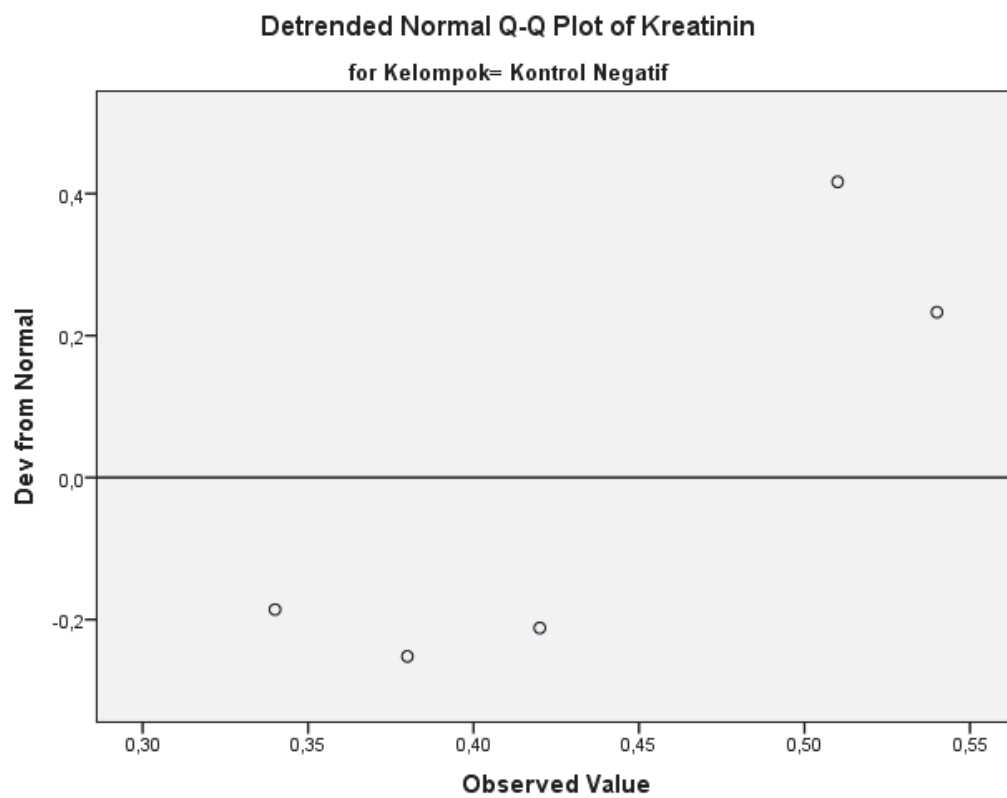
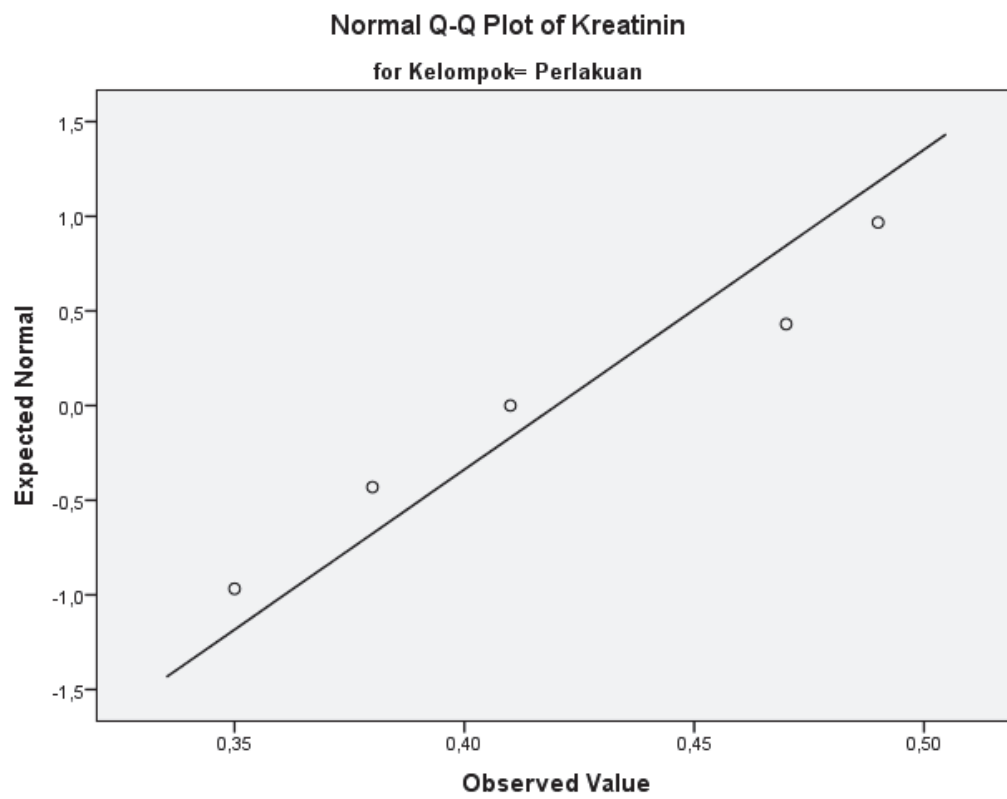
Kadar Kreatinin	Kelompok Hewan Coba Kontrol Negatif	Statistic		Std. Error
		Mean	Std. Error	
		Mean	,4380	,03800
		95% Confidence Interval for Mean	Lower Bound	,3325
			Upper Bound	,5435
		5% Trimmed Mean		,4378
		Median		,4200
		Variance		,007
		Std. Deviation		,08497
		Minimum		,34
		Maximum		,54
		Range		,20

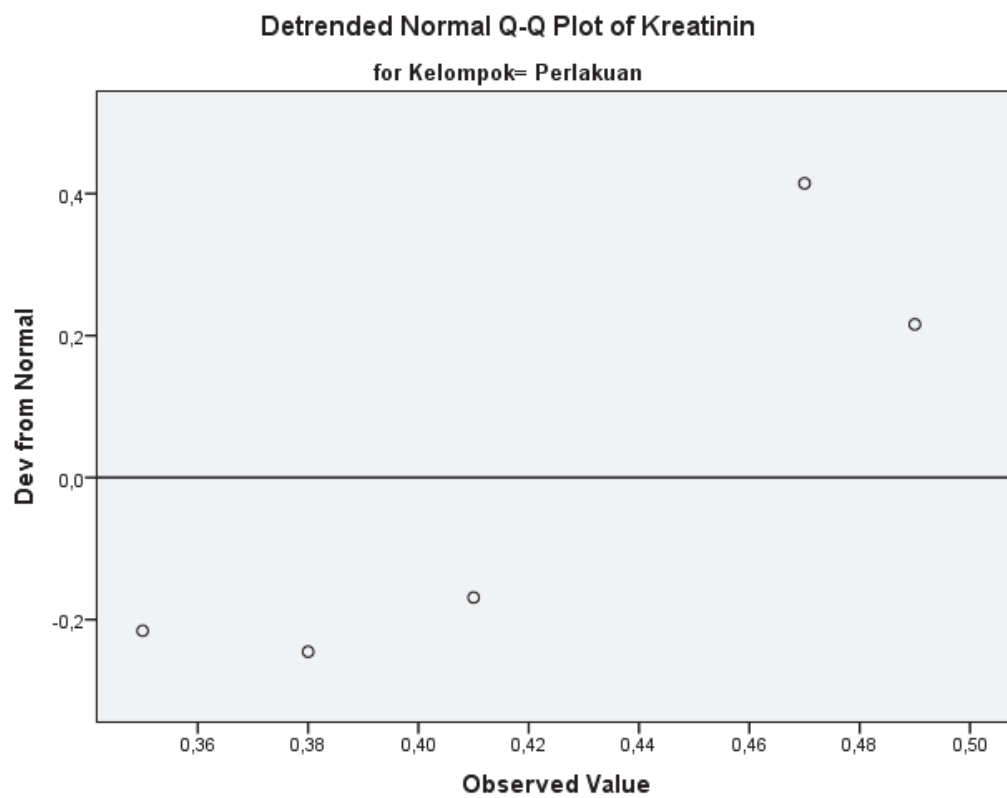
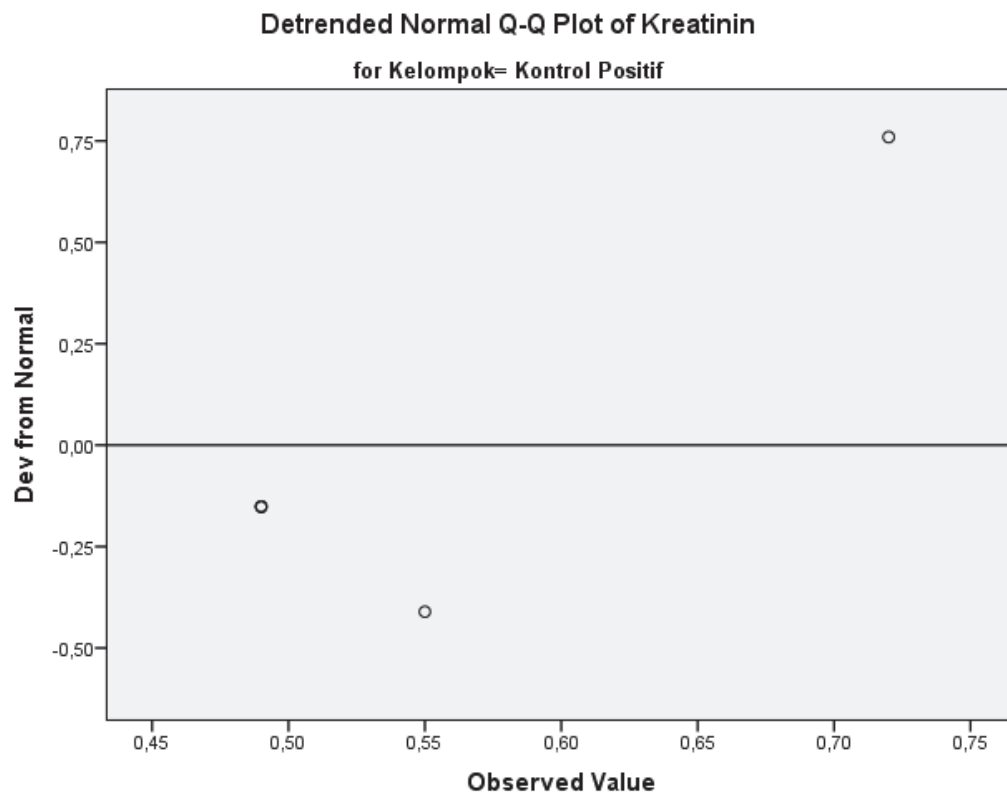
	Interquartile Range		,17	
	Skewness		,199	,913
	Kurtosis		-2,274	2,000
Kontrol Positif	Mean		,5480	,04454
	95% Confidence Interval for Mean	Lower Bound	,4243	
		Upper Bound	,6717	
	5% Trimmed Mean		,5417	
	Median		,4900	
	Variance		,010	
	Std. Deviation		,09960	
	Minimum		,49	
	Maximum		,72	
	Range		,23	
	Interquartile Range		,15	
	Skewness		1,899	,913
	Kurtosis		3,549	2,000
	Perlakuan	Mean		,4200
95% Confidence Interval for Mean		Lower Bound	,3465	
		Upper Bound	,4935	
5% Trimmed Mean			,4200	
Median			,4100	
Variance			,004	
Std. Deviation			,05916	
Minimum			,35	
Maximum			,49	
Range			,14	
Interquartile Range			,12	
Skewness			,121	,913
Kurtosis			-2,200	2,000

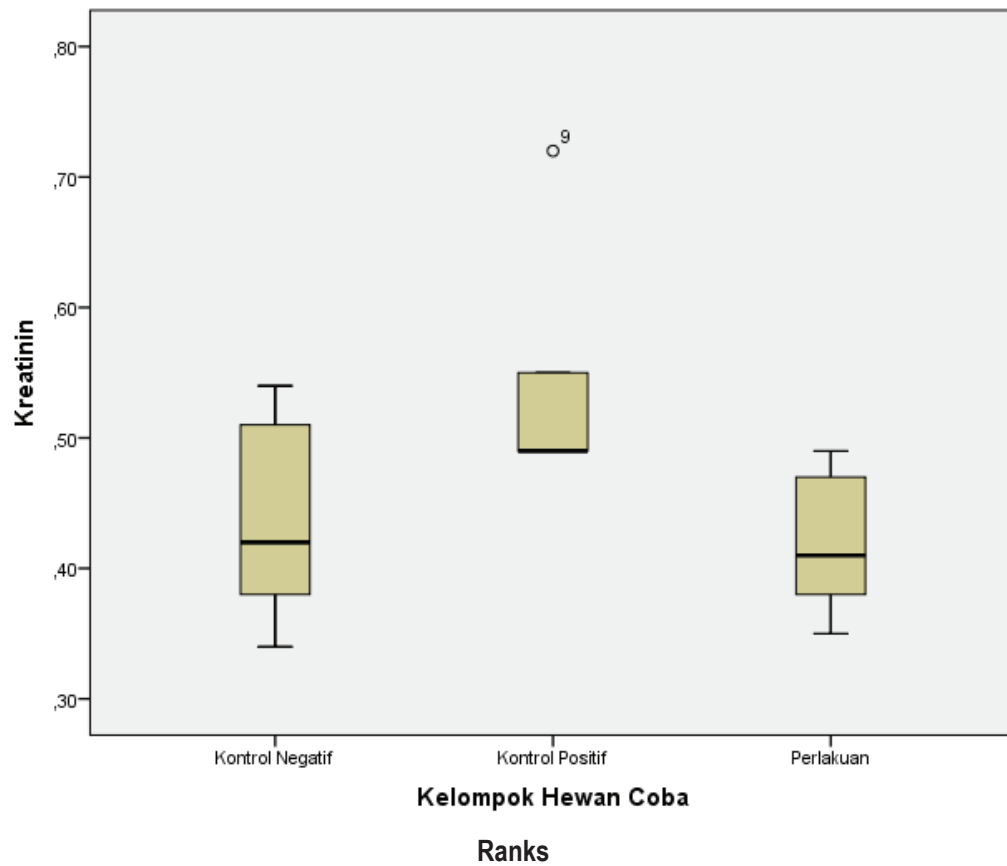
Test of Normality

		Kolmogorov-Smirnov			Saphiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Kreatinin	K1	0,202	5	0,200*	0,935	5	0,629
	K2	0,320	5	0,104	0,706	5	0,011
	P	0,201	5	0,200*	0,941	5	0,672









	Kelompok	N	Mean Rank
Kreatinin	Kontrol Negatif	5	7,10
	Kontrol Positif	5	11,50
	Perlakuan	5	5,40
	Total	15	

Test Statistics^{a,b}

Kreatinin	
df	2
Asymp. Sig.	,080

a. Kruskal Wallis Test

b. Grouping Variable : Kelompok

LAMPIRAN 7. Dokumentasi

Pembuatan Ekstrak Daun Dewa



Daun dewa yang masih basah



Proses penjemuran



Dimasukkan ke erlenmeyer
dan dilakukan Maserasi
Tikus Sprague Dawley Betina

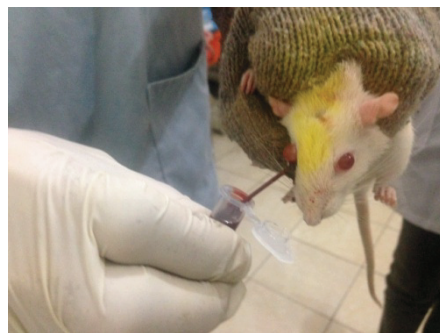


Ekstrak cair



Ekstrak kental

Pengambilan Darah



LAMPIRAN 8.**BIODATA MAHASISWA**

Nama : Indi Swastyastika
 NIM : 22010112140169
 Tempat/Tgl Lahir : Bantul, 24 Juni 1994
 Jenis Kelamin : Perempuan
 Alamat Sekarang : Jl. Gondang Timur II, Griya Al-Barokah 2 Tembalang
 Nomor Telepon : 08175498026
 Alamat Asal : Tanjungan Ngajeg RT 007 RW 026 Tirtomartani Kalasan
 Email : indi.swastyastika@gmail.com

Riwayat Pendidikan Formal

1. SD : SD Angkasa VII Jakarta Timur 2000 – 2006
2. SMP : SMP Negeri 1 Yogyakarta 2006 – 2009
3. SMA : SMA Negeri 9 Yogyakarta 2009 – 2012
4. PT : FK Universitas Diponegoro 2012 – sekarang

Penghargaan dalam 10 tahun terakhir

- a. Juara 1 Lomba Poster Publik Medjonson 2015, Fakultas Kedokteran Universitas Muhammadiyah Yogyakarta
- b. Pendanaan PKM-PE Tahun Anggaran 2016, Kementerian Riset, Teknologi dan Pendidikan Tinggi

Pengalaman organisasi

1. Ketua Komisi Remaja GKJ Gondokusuman Yogyakarta 2012
2. Pengurus Departemen Komunikasi Persekutuan Mahasiswa Kristen Kedokteran FK Undip 2013
3. Asisten Dosen Farmakologi FK Undip 2014 – 2015