

LAMPIRAN 1



KEMENTERIAN PERTANIAN  
DIREKTORAT JENDERAL PETERNAKAN DAN KESEHATAN HEWAN  
**PUSAT VETERINER FARMA**

JALAN JENDERAL A.YANI 68 - 70, SURABAYA 60231  
TELEPON (031) 8291124 - 8291125, FAKSIMILI (031) 8291183  
Website : pusvetma.ditjennak.pertanian.go.id E-mail : pusvetma@pertanian.go.id



No : 08014 /HM. 240/F4.H/03.17  
Sifat : Segera  
Hal : Pemberian Ijin Penelitian

08 Maret 2017

Yth. Dekan  
Fakultas Ilmu Kesehatan  
Universitas Muhammadiyah Surabaya  
Jl. Sutorejo No. 59  
Surabaya 60113

Berdasarkan surat Saudara No. 070.8/II.3.AU/F/FIK/2017 perihal Permohonan ijin penelitian, maka kami menerima permohonan tersebut dari mahasiswi Saudara :

Nama : Pebri Filandhika Rananda  
Nim : 20140662118  
Judul KTI : "Pengaruh Pemberian Yoghurt Susu Kedelai terhadap Kadar Glukosa Mencit (*Mus musculus*)."

Demi kelancaran kegiatan, yang bersangkutan diharap menemui petugas laboratorium terlebih dahulu untuk melakukan diskusi awal dan pengaturan jadwal. Adapun tarif yang akan dikenakan sesuai dengan Peraturan Menteri Keuangan Republik Indonesia No. 101/PMK.05/2015.

Atas perhatian dan kerjasamanya kami sampaikan terima kasih.



Kepala,

  
Drs. Enuh Rahardjo Djusa, Ph.D.  
NIP. 19590513 198603 1 013

Hewan Sehat, Rakyat Selamat, Negara Kuat

LAMPIRAN 2



KEMENTERIAN PERTANIAN  
DIREKTORAT JENDERAL PETERNAKAN DAN KESEHATAN HEWAN  
**PUSAT VETERINER FARMA**

JALAN JENDERAL A.YANI 68 - 70, SURABAYA 60231  
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Website : pusvetma.ditjenak.pertanian.go.id E-mail : pusvetma@pertanian.go.id



**SURAT KETERANGAN**

Nomor: 07.009 /HM.240/F4.H/07/2017

Bersama ini kami menerangkan bahwa:

Nama : Pebri Filandhika Rananda.  
NIM : 20140662118  
Instansi : Universitas Muhammadiyah Surabaya

Benar-benar telah melakukan Penelitian "Pengaruh Pemberian Yoghurt Susu Kedelai terhadap Kadar Glukosa Darah pada Mencit (*Mus musculus*)" di Laboratorium Pusat Veteriner Farma Surabaya pada tanggal 20 Mei - 2 Juni 2017.

Demikian surat keterangan ini dibuat agar dapat dipergunakan sebagaimana mestinya. Atas kerjasamanya kami sampaikan terima kasih.

Surabaya, 07 Juli 2017

Kepala,  
Bidang Pelayanan Mutu dan Pengembangan Produk



Drs. Sarto Rini Budi Prasetyowati, M.Imun.  
NIP. 196812281994032001

## LAMPIRAN 3

### SURAT PERMOHONAN IZIN

Hal : Permohonan Penggunaan Laboratorium

Lampiran : 1 Lembar

Yth.

Kepala Urusan Laboratorium Mikrobiologi

Prodi D3 Analisis Kesehatan Universitas Muhammadiyah Surabaya

Di tempat.

Dengan hormat

*Assalamualaikum Wr. Wb.*

Sehubungan dengan dilaksanakannya penelitian untuk penyusunan karya tulis ilmiah TA. 2016/2017 saya yang bertanda tangan dibawah ini:

Nama : Pebri Filandhika Rananda

NIM : 20140662118

Judul : Pengaruh Pemberian Yoghurt Susu Kedelai terhadap Kadar Glukosa Mencit  
(*Mus musculus*).

Mengajukan permohonan izin menggunakan laboratorium Mikrobiologi dan peminjaman alat sebagaimana terlampir.

Demikian permohonan ini saya buat, atas izin Bapak/Ibu penanggung jawab saya sampaikan terima kasih.

*Wassalamualaikum Wr. Wb.*

Surabaya, 21 Mei 2017

Pemohon



Pebri Filandhika Rananda

Mengetahui

Dosen Pembimbing I



Siti Mardiyah, S.Si,M.Kes

Dosen Pembimbing II



Rahma W,S.Si,M.Kes



Lampiran 1

Alat Penelitian

| Nomer | NAMA                | JUMLAH |
|-------|---------------------|--------|
| 1.    | Hot plate           | 1      |
| 2.    | Neraca Analitik     | 1      |
| 3.    | Batang pengaduk     | 1      |
| 4.    | Gelas ukur 100 ml   | 1      |
| 5.    | Beaker glass 250 ml | 1      |
| 6.    | Termometer          | 1      |
| 7.    | Aquadest            | 500 ml |

Surabaya, 22 Mei 2017

Pemohon



Pebri Filandhika Rananda

#### LAMPIRAN 4 HASIL PENELITIAN

##### Hasil Pemeriksaan Pengaruh Pemberian Yoghurt Susu Kedelai Terhadap Kadar Glukosa Darah pada Mencit

| <b>Kontrol</b>     |   |   |   | <b>Perlakuan</b>   |   |   |   |
|--------------------|---|---|---|--------------------|---|---|---|
| <b>Kode Sampel</b> | <b>Kadar Gula Darah Sebelum (mg/dl)</b> | <b>Kadar Gula Darah Sesudah (mg/dl)</b> | <b>Selisih Kadar Gula Darah (mg/dl)</b> | <b>Kode Sampel</b> | <b>Kadar Gula Darah Sebelum (mg/dl)</b> | <b>Kadar Gula Darah Sesudah (mg/dl)</b> | <b>Selisih Kadar Gula Darah (mg/dl)</b> |
| <b>P.1.1</b>       | 143                                     | 137                                     | 6                                       | <b>P.2.1</b>       | 89                                      | 81                                      | 8                                       |
| <b>P.1.2</b>       | 110                                     | 107                                     | 3                                       | <b>P.2.2</b>       | 132                                     | 126                                     | 6                                       |
| <b>P.1.3</b>       | 103                                     | 99                                      | 4                                       | <b>P.2.3</b>       | 140                                     | 135                                     | 5                                       |
| <b>P.1.4</b>       | 117                                     | 115                                     | 2                                       | <b>P.2.4</b>       | 149                                     | 141                                     | 8                                       |
| <b>P.1.5</b>       | 103                                     | 95                                      | 8                                       | <b>P.2.5</b>       | 115                                     | 102                                     | 13                                      |
| <b>P.1.6</b>       | 105                                     | 106                                     | -1                                      | <b>P.2.6</b>       | 89                                      | 80                                      | 9                                       |
| <b>P.1.7</b>       | 93                                      | 89                                      | 4                                       | <b>P.2.7</b>       | 120                                     | 116                                     | 4                                       |
| <b>P.1.8</b>       | 104                                     | 97                                      | 7                                       | <b>P.2.8</b>       | 118                                     | 107                                     | 11                                      |
| <b>P.1.9</b>       | 132                                     | 127                                     | 5                                       | <b>P.2.9</b>       | 118                                     | 112                                     | 6                                       |
| <b>P.1.10</b>      | 131                                     | 126                                     | 5                                       | <b>P.2.10</b>      | 137                                     | 127                                     | 10                                      |
| <b>P.1.11</b>      | 124                                     | 123                                     | 1                                       | <b>P.2.11</b>      | 101                                     | 89                                      | 12                                      |
| <b>P.1.12</b>      | 112                                     | 115                                     | -3                                      | <b>P.2.12</b>      | 113                                     | 103                                     | 10                                      |
| <b>P.1.13</b>      | 119                                     | 113                                     | 6                                       | <b>P.2.13</b>      | 130                                     | 122                                     | 8                                       |
| <b>P.1.14</b>      | 113                                     | 105                                     | 8                                       | <b>P.2.14</b>      | 93                                      | 86                                      | 7                                       |
| <b>P.1.15</b>      | 114                                     | 109                                     | 5                                       | <b>P.2.15</b>      | 110                                     | 105                                     | 5                                       |
| <b>P.1.16</b>      | 119                                     | 116                                     | 3                                       | <b>P.2.16</b>      | 94                                      | 86                                      | 8                                       |
| <b>Jumlah</b>      | 1842                                    | 1779                                    | 63                                      | <b>Jumlah</b>      | 1848                                    | 1718                                    | 130                                     |
| <b>Rata-rata</b>   | 115,1                                   | 111,2                                   | 3,9                                     | <b>Rata-rata</b>   | 115,5                                   | 107,4                                   | 8,1                                     |
| <b>sd</b>          | 12,85                                   | 12,97                                   | 3,07                                    | <b>sd</b>          | 18,83                                   | 19,47                                   | 2,60                                    |

EXAMINE VARIABLES=KADARGLUKOSADARAH BY KELOMPOK

/PLOT BOXPLOT STEMLEAF NPLOT  
/COMPARE GROUP  
/STATISTICS DESCRIPTIVES  
/CINTERVAL 95  
/MISSING LISTWISE  
/NOTOTAL.

## Explore

### Notes

|                  |                                |  |
|------------------|--------------------------------|--|
| Output Created   |                                | 10-Jun-2017 22:25:41   |
| Comments         |                                |  |
| Input            | Active Dataset                 | DataSet0   |
|                  | Filter                         | <none>   |
|                  | Weight                         | <none>   |
|                  | Split File                     | <none>   |
|                  | N of Rows in Working Data File | 33   |
| Missing Handling | Value 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<br>VARIABLES=KADARGLUKOSA<br>DARAH BY KELOMPOK<br>/PLOT BOXPLOT STEMLEAF<br>NPLOT<br>/COMPARE GROUP<br>/STATISTICS DESCRIPTIVES<br>/CINTERVAL 95<br>/MISSING LISTWISE<br>/NOTOTAL. |
| Resources        | Processor Time                 | 00:00:01.139   |

## Notes

|                  |                                |  |
|------------------|--------------------------------|--|
| Output Created   |                                | 10-Jun-2017 22:25:41   |
| Comments         |                                |  |
| Input            | Active Dataset                 | DataSet0   |
|                  | Filter                         | <none>   |
|                  | Weight                         | <none>   |
|                  | Split File                     | <none>   |
|                  | N of Rows in Working Data File | 33   |
| Missing Handling | Value 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<br>VARIABLES=KADARGLUKOSA<br>DARAH BY KELOMPOK<br>/PLOT BOXPLOT STEMLEAF<br>NPLOT<br>/COMPARE GROUP<br>/STATISTICS DESCRIPTIVES<br>/CINTERVAL 95<br>/MISSING LISTWISE<br>/NOTOTAL. |
| Resources        | Processor Time                 | 00:00:01.139   |
|                  | Elapsed Time                   | 00:00:01.069   |

[DataSet0]



## KELOMPOK

### Case Processing Summary

|                    |           | Cases |         |         |         |       |         |
|--------------------|-----------|-------|---------|---------|---------|-------|---------|
|                    |           | Valid |         | Missing |         | Total |         |
|                    |           | N     | Percent | N       | Percent | N     | Percent |
| KADARGLUKOSA DARAH | KONTROL   | 16    | 100.0%  | 0       | .0%     | 16    | 100.0%  |
|                    | PERLAKUAN | 16    | 100.0%  | 0       | .0%     | 16    | 100.0%  |

### Descriptives

| KELOMPOK           | Statistic                               | Std. Error |
|--------------------|---|------------|
| KADARGLUKOSA DARAH | Mean                                    | .766       |
|                    | 95% Confidence Interval for Lower Bound | 2.30       |
|                    | Upper Bound                             | 5.57       |
|                    | 5% Trimmed Mean                         | 4.10       |
|                    | Median                                  | 4.50       |
|                    | Variance                                | 9.396      |
|                    | Std. Deviation                          | 3.065      |
|                    | Minimum                                 | -3         |
|                    | Maximum                                 | 8          |
|                    | Range                                   | 11         |

|            |   |       |       |
|------------|---|-------|-------|
|            | Interquartile Range                     | 4     |       |
|            | Skewness                                | -.806 | .564  |
|            | Kurtosis                                | .437  | 1.091 |
| PERLAKU AN | Mean                                    | 8.12  | .651  |
|            | 95% Confidence Interval for Lower Bound | 6.74  |       |
|            | Upper Bound                             | 9.51  |       |
|            | 5% Trimmed Mean                         | 8.08  |       |
|            | Median                                  | 8.00  |       |
|            | Variance                                | 6.783 |       |
|            | Std. Deviation                          | 2.604 |       |
|            | Minimum                                 | 4     |       |
|            | Maximum                                 | 13    |       |
|            | Range                                   | 9     |       |
|            | Interquartile Range                     | 4     |       |
|            | Skewness                                | .258  | .564  |
|            | Kurtosis                                | -.663 | 1.091 |

## Tests of Normality

| KELOMPOK                      | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-------------------------------|---------------------------------|----|-------|--------------|----|------|
|                               | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| KADARGLUKOSADAR KONTROL<br>AH | .136                            | 16 | .200* | .943         | 16 | .381 |
| PERLAKUAN                     | .144                            | 16 | .200* | .967         | 16 | .795 |

a. Lilliefors Significance Correction

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

## KADARGLUKOSADARAH

### Stem-and-Leaf Plots

KADARGLUKOSADARAH Stem-and-Leaf Plot for  
KELOMPOK= KONTROL

Frequency Stem & Leaf

1,00 Extremes (= < -3)

1,00 -0 . 1

6,00 0 . 123344

8,00 0 . 55566788

Stem width: 10

Each leaf: 1 case(s)

KADARGLUKOSADARAH Stem-and-Leaf Plot for  
KELOMPOK= PERLAKUAN

Frequency Stem & Leaf

1,00 0 . 4

10,00 0 . 5566788889

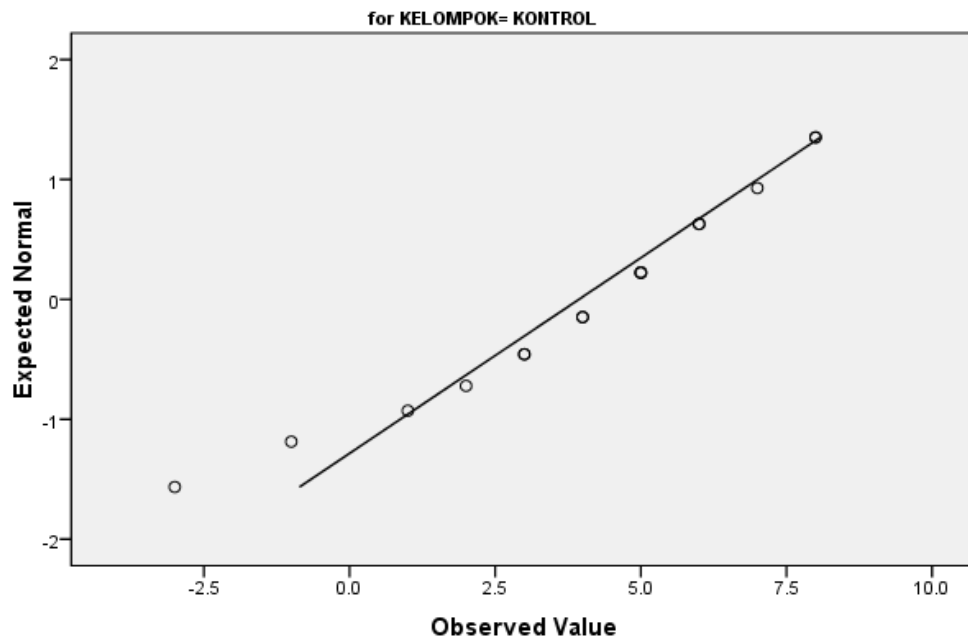
5,00 1 . 00123

Stem width: 10

Each leaf: 1 case(s)

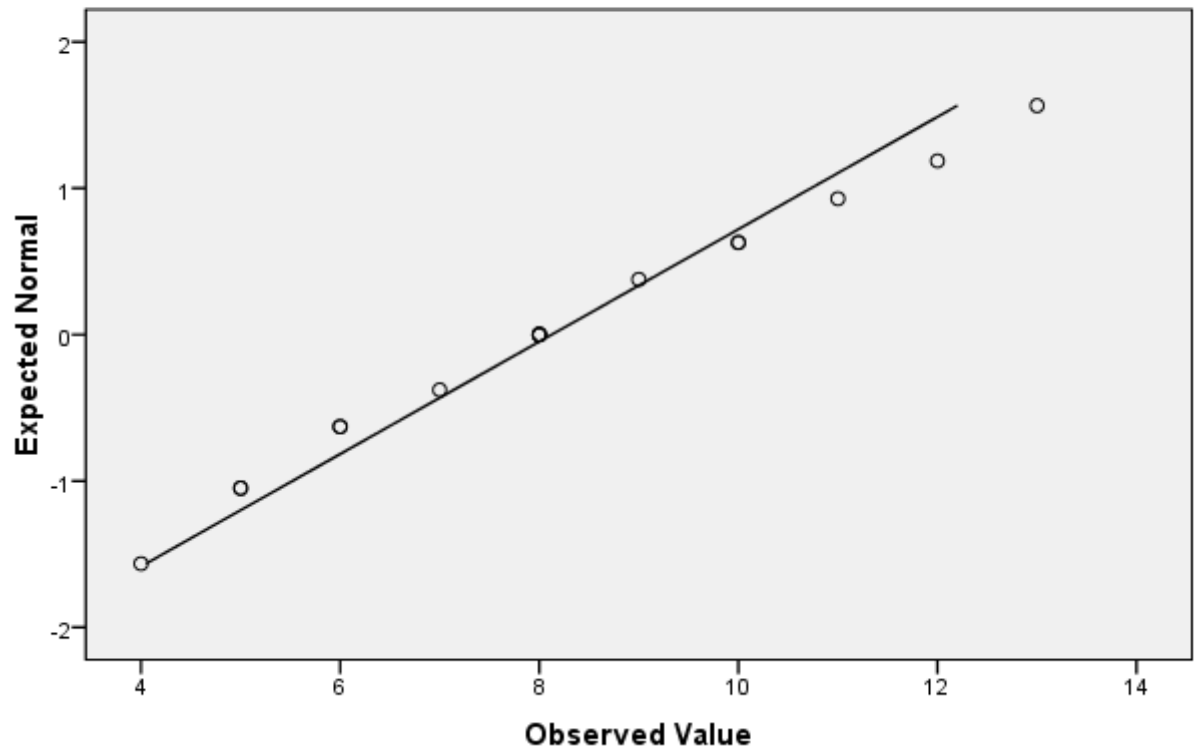
## Normal Q-Q Plots

Normal Q-Q Plot of KADARGLUKOSADARAH



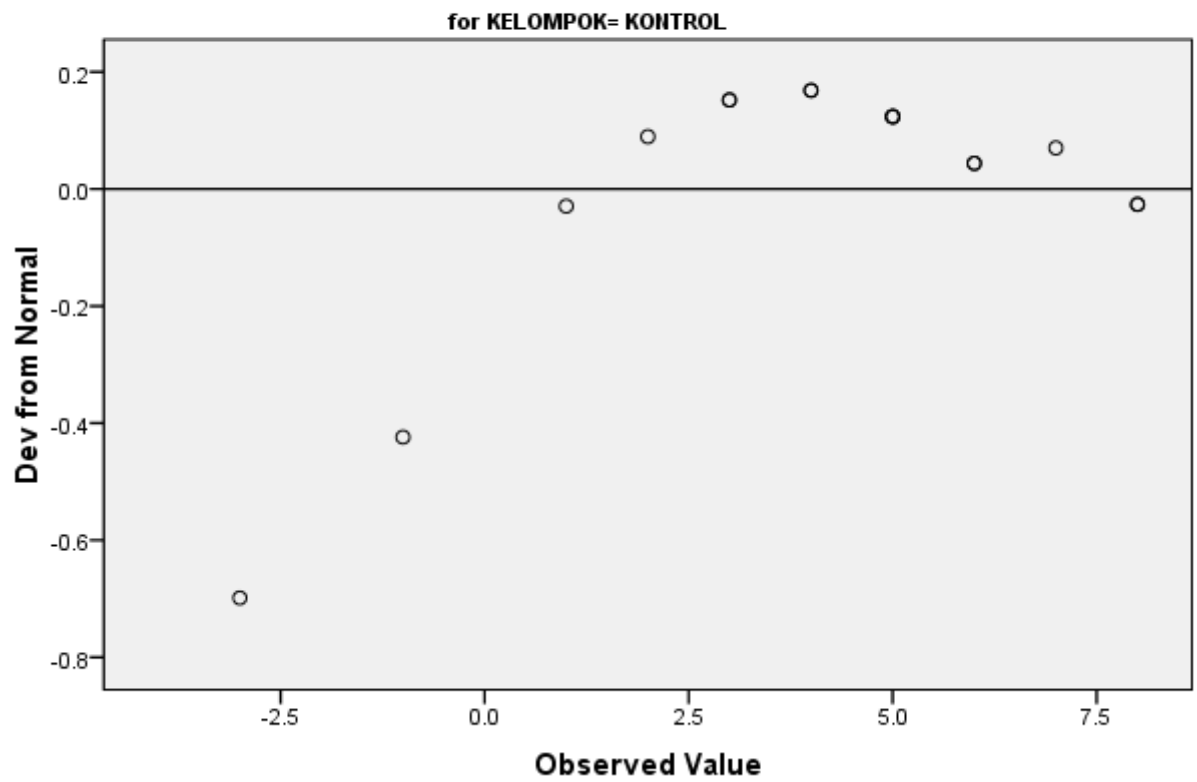
## Normal Q-Q Plot of KADARGLUKOSADARAH

for KELOMPOK= PERLAKUAN

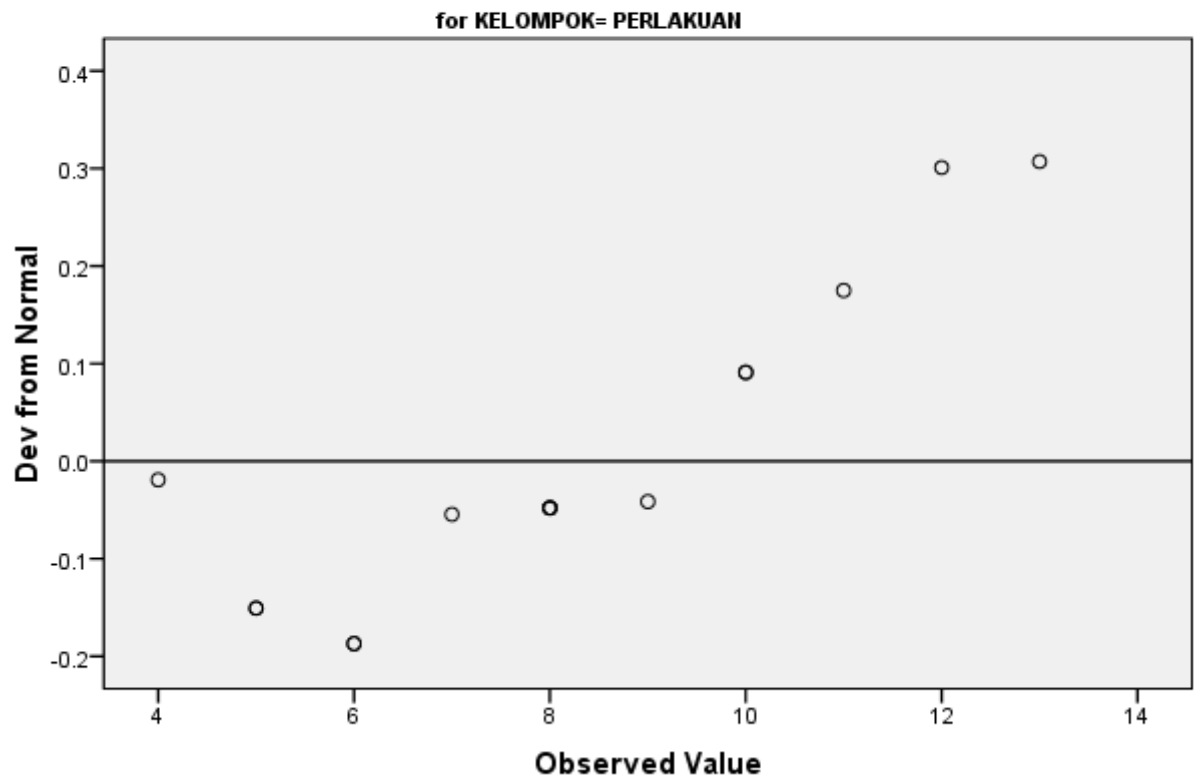


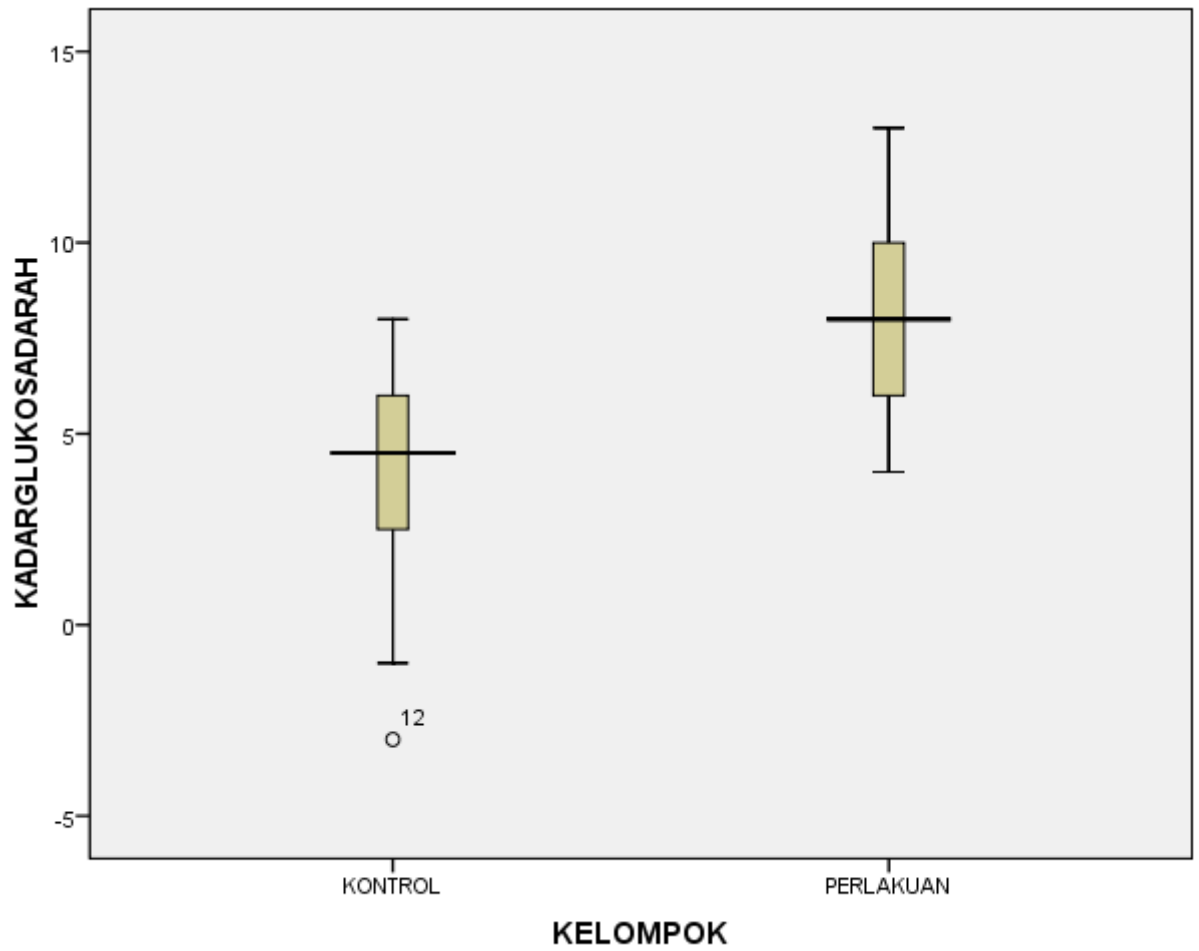
## Detrended Normal Q-Q Plots

### Detrended Normal Q-Q Plot of KADARGLUKOSADARAH



### Detrended Normal Q-Q Plot of KADARGLUKOSADARAH





```
T-TEST GROUPS=KELOMPOK(2 1)  
/MISSING=ANALYSIS  
/VARIABLES=KADARGLUKOSADARAH  
/CRITERIA=CI(.950)
```



## T-Test

### Notes

|                  |                                |  |
|------------------|--------------------------------|--|
| Output Created   |                                | 10-Jun-2017 22:25:53   |
| Comments         |                                |  |
| Input            | Active Dataset                 | DataSet0   |
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|                  | Weight                         | <none>   |
|                  | Split File                     | <none>   |
|                  | N of Rows in Working Data File | 33   |
| Missing Handling | Value 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           |                                | <pre>T-TEST GROUPS=KELOMPOK(2 1) /MISSING=ANALYSIS  /VARIABLES=KADARGLUKOSA DARAH /CRITERIA=CI(.9500).</pre>               |
| Resources        | Processor Time                 | 00:00:00.094   |
|                  | Elapsed Time                   | 00:00:00.083   |

[DataSet0]

### Group Statistics

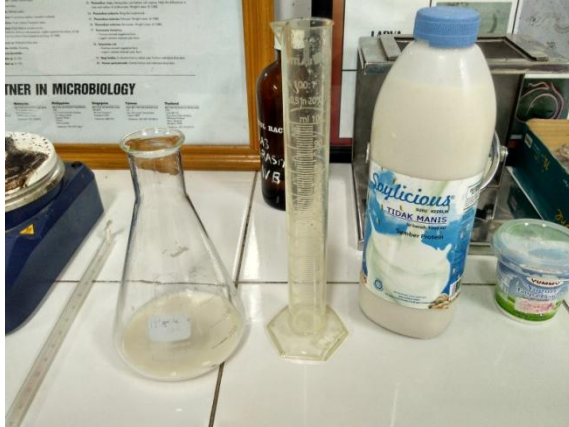
|  | KELOMPOK | N | Mean | Std. Deviation | Std. Error Mean |
|--|----------|---|------|----------------|-----------------|
|  |          |   |      |                |                 |

|                          |    |      |       |      |
|--------------------------|----|------|-------|------|
| KADARGLUKOSADA PERLAKUAN | 16 | 8.12 | 2.604 | .651 |
| RAH KONTROL              | 16 | 3.94 | 3.065 | .766 |

### Independent Samples Test

|                    | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |       |  |
|--------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-------|--|
|                    | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |       |  |
|                    |   |      |                              |        |                 |                 |                       | Lower                                     | Upper |  |
| KADARGLUKOSADA RAH | .235                                    | .631 | 4.164                        | 30     | .000            | 4.188           | 1.006                 | 2.134                                     | 6.241 |  |
|                    |   |      | 4.164                        | 29.238 | .000            | 4.188           | 1.006                 | 2.132                                     | 6.243 |  |

## LAMPIRAN



Persiapan alat



Komposisi Susu Kedelai



Bahan Starter Yoghurt



Rebus Susu Kedelai





Kandang Mencit



Menginduksi mencit



Stik Glukosa



memotong ekor mencit



**LAMPIRAN 7 KARTU BIMBINGAN**



AKADEMI ANALIS KESEHATAN  
UNIVERSITAS MUHAMMADIYAH SURABAYA  
Jl. Sutorejo No. 59 Surabaya Telp. 031-3890175

**KARTU BIMBINGAN KTI**

NAMA : PEBRI FILANDHIKA RANANDA  
NIM/NPM : 20140662118  
JUDUL KTI : Pengaruh Pemberian Yoghurt Susu Kedelai Terhadap Kadar Glukosa Darah Mencit (*Mus musculus*)  
I. Siti Mardiyah S.Si, M.Kes  
DOSEN PEMBIMBING: II. Rahma Widayastuti S.Si, M.Kes



| NO  | Tgl/Bln/Thn | MATERI BIMBINGAN             | PARAF |            |    |
|-----|-------------|------------------------------|-------|------------|----|
|     |             |                              | Mhs   | PEMBIMBING |    |
|     |             |                              |       | I          | II |
| 1.  | 21/12/16    | ACC JUDUL                    | Pebri | A          | RP |
| 2.  | 21/12/16    | MATRIKS                      | Pebri | A          | RP |
| 3.  | 04/01/17    | Revisi BAB 1                 | Pebri | A          | RP |
| 4.  | 11/01/17    | Revisi BAB 1                 | Pebri | A          | RP |
| 5.  | 6/02/17     | Revisi BAB 2 & Revisi BAB 3  | Pebri | A          | RP |
| 6.  | 27/02/17    | Revisi BAB 3 & 4 ; ACC BAB 1 | Pebri | A          | RP |
| 7.  | 10/03/17    | Revisi BAB 4 & 5 ; ACC BAB 3 | Pebri | A          | RP |
| 8.  | 28/05/17    | Revisi BAB 4 & 5             | Pebri | A          | RP |
| 9.  | 12/06/17    | Revisi BAB 2                 | Pebri | A          | RP |
| 10. | 07/07/17    | Revisi BAB 4 ; ACC BAB 2     | Pebri | A          | RP |
| 11. | 10/07/17    | ACC Draft                    | Pebri | A          | RP |

Ketua Program Study


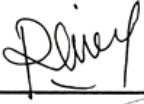
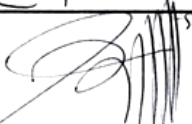
Fitrotin Azizah, S.ST., M.Si

**LAMPIRAN 8 LEMBAR PENGESAHAN HASIL REVISI**

PANITIA UJIAN KARYA TULIS ILMIAH (KTI)  
PRODI D-III ANALIS KESEHATAN  
FAKULTAS ILMU KESEHATAN UMSURABAYA  
Jl. Sutorejo 59 Tlp. (031) 3890175

## LEMBAR PENGESAHAN HASIL REVISI

NAMA : PEBRI FILANDHIKA RANANDA  
NIM : 20140662119  
JUDUL KTI : **PENGARUH PEMBERIAN YOGHURT SUSU KEDELAI  
TERHADAP KADAR GLUKOSA DARAH MENCIT (*Mus musculus*)**  
TANGGAL SIDANG: 20 Juli 2017

| PENGUJI | NAMA PENGUJI                   | TANDA TANGAN  |
|---------|--------------------------------|---|
| I       | Siti Mardiyah S.Si., M.Kes     |  |
| II      | Rahma Widyastuti, S.Si., M.Kes |   |
| III     | Rinza Rahmawati S, S.Pd., M.Si |  |

Surabaya, 31 Agustus 2017  
KaProdi



Fitrotin Azizah, S.ST., M.Si.

### LAMPIRAN 9 SURAT PUSAT BAHASA



**UNIVERSITAS MUHAMMADIYAH SURABAYA**  
**PUSAT BAHASA**

Jl. Sutorejo 59 Surabaya 60113 Telp. 031-3811966, 3811967 Ext (130) Gd. A Lt 2  
Email: [pusba.umsby@gmail.com](mailto:pusba.umsby@gmail.com)

---

**ENDORSEMENT LETTER**


531/PB-UMS/EL/IX/2017

This letter is to certify that the abstract of the thesis below

Title : The Influence of Giving Soybean Milk Yoghurt to Blood Glucose Levels  
of Mice (*Mus Musculus*)  
Student's name : Pebri Filandhika Rananda  
Reg. Number : 20140662118  
Department : D3 Analisis Kesehatan

has been endorsed by Pusat Bahasa *UMSurabaya* for further approval by the examining  
committee of the faculty.

Surabaya, 5 September 2017

Chair  
  
Waode Hamsia, M.Pd.





## Lampiran

### HALAMAN PERNYATAAN PERSETUJUAN PUBLIKASI TUGAS AKHIR UNTUK KEPENTINGAN AKADEMIS

Sebagai civitas akademika Universitas Muhammadiyah Surabaya, Saya yang bertanda tangan di bawah ini :

Nama : Pebri Filandhika Rananda  
Nim : 20140662118  
Fakultas : Ilmu Kesehatan  
Program Studi : D3 Analis Kesehatan

Demi pengembangan ilmu pengetahuan, menyetujui untuk memberikan kepada Program Studi D3 Analis Kesehatan Fakultas Ilmu Kesehatan Universitas Muhammadiyah Surabaya Hak Bebas Royalti Non-Eksklusif (Non – exclusive Royalti free right) atas karya ilmiah saya yang berjudul : **PENGARUH PEMBERIAN YOGHURT SUSU KEDELAI TERHADAP KADAR GLUKOSA DARAH MENCIT (*Mus musculus*)**. Dengan hak bebas royalti non-eksklusif ini, program Studi D3 Analis Kesehatan Fakultas Ilmu Kesehatan Universitas Muhammadiyah Surabaya berhak menyimpan, mengalih media/formatkan, mengolah dalam bentuk pangkalan data (database), merawat dan mempublikasikan tugas akhir saya selama tetap mencantumkan nama saya sebagai penulis/pencipta dan atau dengan pembimbing saya sebagai pemilik Hak Cipta.

Demikian pernyataan ini saya buat dengan sebenarnya.

Surabaya 20 Juli 2017

Yang menyatakan,

(Pebri Filandhika Rananda)