

KETERANGAN KELAIKAN ETIK



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI
UNIVERSITAS BRAWIJAYA
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KETERANGAN KELAIKAN ETIK ("ETHICAL CLEARANCE")

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KOMISI ETIK PENELITIAN KESEHATAN FAKULTAS KEDOKTERAN UNIVERSITAS BRAWIJAYA, SETELAH MEMPELAJARI DENGAN SEKSAMA RANCANGAN PENELITIAN YANG DIUSULKAN, DENGAN INI MENYATAKAN BAHWA PENELITIAN DENGAN

JUDUL : Pengembangan Potensi Antidiabetik Ekstrak Daun Kemiri (*Aleurites moluccana*) : Studi pada Tikus Model Diabetes Tipe 2

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TEMPAT PENELITIAN : Laboratorium Farmakologi Fakultas Kedokteran Universitas Brawijaya

DINYATAKAN LAIK ETIK.

Malang, 08 JUN 2016
 Ketua,
 Komisi Etik Penelitian Kesehatan

 Prof. Dr.dr. Moch. Istiadid ES, SpS, SpBS (K), M.Hum
 NIP. 19460516 197111 1 001

Catatan :
 Keterangan Laik Etik Ini Berlaku 1 (Satu) Tahun Sejak Tanggal Dikeluarkan
 Pada Akhir Penelitian, Laporan Pelaksanaan Penelitian Harus Diserahkan Kepada KEPK-FKUB
 Dalam Bentuk Soft Copy. Jika Ada Perubahan Protokol Dan / Atau Perpanjangan Penelitian, Harus
 Mengajukan Kembali Permohonan Kajian Etik Penelitian (Amandemen Protokol)



Lampiran 2

HASIL PENELITIAN

| Dosis (mg/kgBB) | Sampel | Rename Sampel | Chol. Total (mg/dl) |
|-----------------|--------|---------------|---------------------|
| Normal | N4 | N1 | 50.00 |
| | N5 | N2 | 60.00 |
| | N6 | N3 | 66.00 |
| | N7 | N4 | 69.00 |
| DM | DM3 | DM1 | 379.00 |
| | DM6 | DM2 | 376.00 |
| | DM7 | DM3 | 239.00 |
| | DM8 | DM4 | 257.00 |
| 100 | D3.4 | DK1.1 | 178.00 |
| | D3.5 | DK1.2 | 124.00 |
| | D3.6 | DK1.3 | 155.00 |
| | D3.7 | DK1.4 | 201.00 |
| 200 | D2.6 | DK2.1 | 98.00 |
| | D2.8 | DK2.2 | 94.00 |
| | D2.9 | DK2.3 | 112.00 |
| | D2.7 | DK2.4 | 126.00 |
| 400 | D1.2 | DK3.1 | 90.00 |
| | D1.5 | DK3.2 | 61.00 |
| | D1.8 | DK3.3 | 57.00 |
| | D1.3 | DK3.4 | 80.00 |

Lampiran 3

HASIL ANALISIS STATISTIK

Uji Normalitas

Tests of Normality

| | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
|-------------------|---------------------------------|----|-------|--------------|----|------|
| | Statistic | df | Sig. | Statistic | df | Sig. |
| Cholesterol_Total | .139 | 20 | .200* | .956 | 20 | .466 |

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

a. Lilliefors Significance Correction

Oneway

Descriptives

Cholesterol_Total

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|--------|----|--------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| Normal | 4 | 61.25 | 8.382 | 4.191 | 47.91 | 74.59 | 50 | 69 |
| DM | 4 | 312.75 | 75.137 | 37.569 | 193.19 | 432.31 | 239 | 379 |
| 100 mg | 4 | 164.50 | 32.889 | 16.444 | 112.17 | 216.83 | 124 | 201 |
| 200 mg | 4 | 107.50 | 14.549 | 7.274 | 84.35 | 130.65 | 94 | 126 |
| 400 mg | 4 | 72.00 | 15.642 | 7.821 | 47.11 | 96.89 | 57 | 90 |
| Total | 20 | 143.60 | 100.211 | 22.408 | 96.70 | 190.50 | 50 | 379 |

Test of Homogeneity of Variances

Cholesterol_Total

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 1.864 | 4 | 15 | .169 |

ANOVA

Cholesterol_Total

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 169039.3 | 4 | 42259.825 | 29.129 | .000 |
| Within Groups | 21761.500 | 15 | 1450.767 | | |
| Total | 190800.8 | 19 | | | |



Post Hoc Tests

Multiple Comparisons

Dependent Variable: Cholesterol_Total

Tukey HSD

| (I) Kelompok | (J) Kelompok | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|--------------|--------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Normal | DM | -251.500* | 26.933 | .000 | -334.67 | -168.33 |
| | 100 mg | -103.250* | 26.933 | .012 | -186.42 | -20.08 |
| | 200 mg | -46.250 | 26.933 | .453 | -129.42 | 36.92 |
| | 400 mg | -10.750 | 26.933 | .994 | -93.92 | 72.42 |
| DM | Normal | 251.500* | 26.933 | .000 | 168.33 | 334.67 |
| | 100 mg | 148.250* | 26.933 | .000 | 65.08 | 231.42 |
| | 200 mg | 205.250* | 26.933 | .000 | 122.08 | 288.42 |
| | 400 mg | 240.750* | 26.933 | .000 | 157.58 | 323.92 |
| 100 mg | Normal | 103.250* | 26.933 | .012 | 20.08 | 186.42 |
| | DM | -148.250* | 26.933 | .000 | -231.42 | -65.08 |
| | 200 mg | 57.000 | 26.933 | .263 | -26.17 | 140.17 |
| | 400 mg | 92.500* | 26.933 | .026 | 9.33 | 175.67 |
| 200 mg | Normal | 46.250 | 26.933 | .453 | -36.92 | 129.42 |
| | DM | -205.250* | 26.933 | .000 | -288.42 | -122.08 |
| | 100 mg | -57.000 | 26.933 | .263 | -140.17 | 26.17 |
| | 400 mg | 35.500 | 26.933 | .685 | -47.67 | 118.67 |
| 400 mg | Normal | 10.750 | 26.933 | .994 | -72.42 | 93.92 |
| | DM | -240.750* | 26.933 | .000 | -323.92 | -157.58 |
| | 100 mg | -92.500* | 26.933 | .026 | -175.67 | -9.33 |
| | 200 mg | -35.500 | 26.933 | .685 | -118.67 | 47.67 |

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

Cholesterol_Total

Tukey HSD^a

| Kelompok | N | Subset for alpha = .05 | | |
|----------|---|------------------------|--------|--------|
| | | 1 | 2 | 3 |
| Normal | 4 | 61.25 | | |
| 400 mg | 4 | 72.00 | | |
| 200 mg | 4 | 107.50 | 107.50 | |
| 100 mg | 4 | | 164.50 | |
| DM | 4 | | | 312.75 |
| Sig. | | .453 | .263 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

Correlations

Correlations

| | | Dosis | Cholesterol_ Total |
|--------------------|---------------------|---------|--------------------|
| Dosis | Pearson Correlation | 1 | -.823** |
| | Sig. (2-tailed) | . | .000 |
| | N | 16 | 16 |
| Cholesterol_ Total | Pearson Correlation | -.823** | 1 |
| | Sig. (2-tailed) | .000 | . |
| | N | 16 | 16 |

** . Correlation is significant at the 0.01 level (2-tailed).

Regression

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .823 ^a | .677 | .654 | 60.095 |

a. Predictors: (Constant), Dosis

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|--------|-------------------|
| 1 | Regression | 106122.6 | 1 | 106122.645 | 29.385 | .000 ^a |
| | Residual | 50559.793 | 14 | 3611.414 | | |
| | Total | 156682.4 | 15 | | | |

a. Predictors: (Constant), Dosis

b. Dependent Variable: Cholesterol_ Total

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 260.550 | 23.275 | | 11.195 | .000 |
| | Dosis | -.551 | .102 | -.823 | -5.421 | .000 |

a. Dependent Variable: Cholesterol_ Total

Lampiran 4

DOKUMENTASI



Tikus dalam kandang berkelompok



Proses pembuatan pakan tikus



Proses penggantian sekam tikus



Tikus dalam kandang individu



Bahan untuk pembuatan larutan STZ



Proses injeksi STZ



Pengukuran kadar glukosa darah dengan glukometer



Proses ekstraksi daun kemiri



Pemberian ekstrak menggunakan sonde



Proses pengambilan sampel



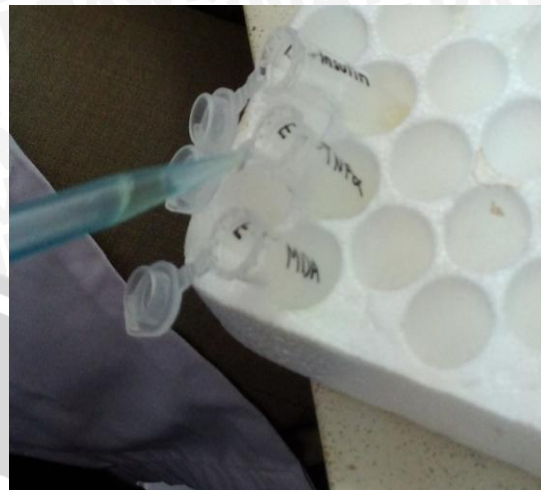
Proses sentrifugasi



Hasil sentrifugasi



Pengambilan serum



Sampel diletakkan dalam wadah



Proses pengukuran sampel menggunakan spektrofotometer



Hasil pengukuran sampel