

Lampiran 1

Perhitungan Dosis

Dosis Aloksan

Dosis 100mg/kgBB

$$\text{Mencit } 25\text{g} = 0,026 \times 100 = 2,6\text{mg}/0,5\text{cc}$$

Yang diberikan secara intravena pada vena ekor.

Dosis Glibenklamid

Dosis manusia 10mg

Konversi dosis manusia \rightarrow mencit $20\text{g} = 0.0026$

Maka dosis untuk mencit 20g adalah : $10\text{mg} \times 0,0026 = 0,026\text{g}$

Berat mencit yang dipakai $\pm 25\text{g}$

Maka dosis untuk mencit 25g adalah : $\frac{25}{20} \times 0,026 = 0,0325\text{g}$ (Dosis Mencit)

Maka dosis 1kg glibenklamid : $\frac{1000}{25} \times 0,0325 = 1,3\text{ g}/\text{kgBB}$

Yang diberikan secara per-oral.

Dosis Aquades

$0,5\text{ml}/25\text{g}$ berat mencit yang diberikan secara per-oral.

Dosis Daun dewa

Dosis tikus $200\text{mg}/200\text{gBB}$

Konversi dosis tikus \rightarrow mencit $0,14$

$$200\text{mg} \times 0,14 = 28\text{mg}/\text{mencit } 20\text{g}$$

$$1\text{DM } 25\text{gr} = \frac{25}{20} \times 28$$

$$= 35\text{mg}/25\text{gBB mencit}$$

Variasi Dosis : I, II, IV

Dosis I

$$\text{Dosis untuk mencit } 25\text{g} : 35\text{mg}/0,5\text{ml} = 70\text{mg}/\text{ml} = 7\text{g}/100\text{ml}$$

$$\text{Dosis untuk } 1\text{kgBB mencit} : \frac{1000}{25} \times 35\text{mg} = 1,4\text{g}/\text{kgBB}$$

Yang diberikan secara per-oral.

Dosis II

$$\text{Dosis untuk mencit } 25\text{g} : 70\text{mg}/0,5\text{ml} = 140\text{mg}/\text{ml} = 14\text{g}/100\text{ml}$$

$$\text{Dosis untuk } 1\text{kgBB mencit} : \frac{1000}{25} \times 70\text{mg} = 2,8\text{g}/\text{kgBB}$$

Yang diberikan secara per-oral.

Dosis IV

$$\text{Dosis untuk mencit } 25\text{g} : 140\text{mg}/0,5\text{ml} = 280\text{mg}/\text{ml} = 28\text{g}/100\text{ml}$$

$$\text{Dosis untuk } 1\text{kgBB mencit} : \frac{1000}{25} \times 140\text{mg} = 5,6\text{g}/\text{kgBB}$$

Yang diberikan secara per-oral.

Lampiran 2

Hasil Pengukuran kadar glukosa darah mencit :

Hasil pengukuran kadar glukosa darah mencit Kelompok 1 dengan pemberian infusa Daun Dewa (*Gynura segetum (Lour.) Merr*) Dosis Mencit IV (5,6g/kgBB)

| | Mencit 1 | Mencit 2 | Mencit 3 | Mencit 4 | Mencit 5 |
|--|----------|----------|----------|----------|----------|
| Kadar Glukosa darah awal (mg/dl) | 153 | 132 | 140 | 177 | 165 |
| Kadar Glukosa darah akhir (mg/dl) | 80 | 67 | 75 | 96 | 82 |
| Penurunan kadar glukosa darah (mg/dl) | 202 | 65 | 65 | 81 | 83 |
| Presentase penurunan kadar glukosa darah (%) | 42.8 | 49.2 | 46.4 | 45.8 | 50.3 |

Hasil pengukuran kadar glukosa darah mencit Kelompok 2 dengan pemberian infusa Daun Dewa (*Gynura segetum (Lour.) Merr*) Dosis Mencit II (2,8g/kgBB)

| | Mencit 1 | Mencit 2 | Mencit 3 | Mencit 4 | Mencit 5 |
|--|----------|----------|----------|----------|----------|
| Kadar Glukosa darah awal (mg/dl) | 193 | 139 | 159 | 147 | 144 |
| Kadar Glukosa darah akhir (mg/dl) | 99 | 75 | 95 | 71 | 83 |
| Penurunan kadar glukosa darah (mg/dl) | 94 | 64 | 64 | 76 | 61 |
| Presentase penurunan kadar glukosa darah (%) | 48.7 | 46 | 40.3 | 51.7 | 42.4 |

Hasil pengukuran kadar glukosa darah mencit Kelompok 3 dengan pemberian infusa Daun Dewa (*Gynura segetum (Lour.) Merr*) Dosis Mencit I (1,4g/kgBB)

| | Mencit 1 | Mencit 2 | Mencit 3 | Mencit 4 | Mencit 5 |
|--|----------|----------|----------|----------|----------|
| Kadar Glukosa darah awal (mg/dl) | 125 | 129 | 128 | 133 | 125 |
| Kadar Glukosa darah akhir (mg/dl) | 72 | 74 | 73 | 72 | 74 |
| Penurunan kadar glukosa darah (mg/dl) | 53 | 55 | 55 | 61 | 51 |
| Presentase penurunan kadar glukosa darah (%) | 42.4 | 42.6 | 42.9 | 45.8 | 40.8 |

Hasil pengukuran kadar glukosa darah mencit Kelompok 4 dengan pemberian Glibenklamid 1,3g/kgBB (Kontrol positif)

| | Mencit 1 | Mencit 2 | Mencit 3 | Mencit 4 | Mencit 5 |
|--|-------------|-------------|-------------|-------------|-------------|
| Kadar Glukosa darah awal (mg/dl) | 139 | 141 | 210 | 138 | 157 |
| Kadar Glukosa darah akhir (mg/dl) | 57 | 62 | 74 | 56 | 75 |
| Penurunan kadar glukosa darah (mg/dl) | 82 | 79 | 136 | 82 | 390 |
| Presentase penurunan kadar glukosa darah (%) | 59 | 44 | 64.8 | 59.4 | 83.9 |

Hasil pengukuran kadar glukosa darah mencit Kelompok 5 dengan pemberian aquadest (Kontrol negatif)

| | Mencit 1 | Mencit 2 | Mencit 3 | Mencit 4 | Mencit 5 |
|--|-------------|-------------|-------------|-------------|-------------|
| Kadar Glukosa darah awal (mg/dl) | 178 | 145 | 127 | 152 | 142 |
| Kadar Glukosa darah akhir (mg/dl) | 164 | 139 | 113 | 134 | 121 |
| Penurunan kadar glukosa darah (mg/dl) | 14 | 6 | 14 | 18 | 21 |
| Presentase penurunan kadar glukosa darah (%) | 7.8 | 4.1 | 11 | 11.8 | 14.8 |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Kadar Glukosa Sesudah Induksi Aloksan

Tukey HSD

| (I) Kelompok Perlakuan | (J) Kelompok Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|------------------------|------------------------|-----------------------------|---------------|-------|----------------------------|----------------|
| | | | | | Lower Bound | Upper Bound |
| Infus Daun Dewa 4 DMct | Infus Daun Dewa 2 DMct | -3.00 | 12.972 | .999 | -41.82 | 35.82 |
| | Infus Daun Dewa 1 DMct | 25.40 | 12.972 | .321 | -13.42 | 64.22 |
| | Kontrol Positif | -3.60 | 12.972 | .999 | -42.42 | 35.22 |
| | Kontrol Negatif | 4.60 | 12.972 | .996 | -34.22 | 43.42 |
| Infus Daun Dewa 2 DMct | Infus Daun Dewa 4 DMct | 3.00 | 12.972 | .999 | -35.82 | 41.82 |
| | Infus Daun Dewa 1 DMct | 28.40 | 12.972 | .224 | -10.42 | 67.22 |
| | Kontrol Positif | -.60 | 12.972 | 1.000 | -39.42 | 38.22 |
| | Kontrol Negatif | 7.60 | 12.972 | .976 | -31.22 | 46.42 |
| Infus Daun Dewa 1 DMct | Infus Daun Dewa 4 DMct | -25.40 | 12.972 | .321 | -64.22 | 13.42 |
| | Infus Daun Dewa 2 DMct | -28.40 | 12.972 | .224 | -67.22 | 10.42 |
| | Kontrol Positif | -29.00 | 12.972 | .207 | -67.82 | 9.82 |
| | Kontrol Negatif | -20.80 | 12.972 | .512 | -59.62 | 18.02 |
| Kontrol Positif | Infus Daun Dewa 4 DMct | 3.60 | 12.972 | .999 | -35.22 | 42.42 |
| | Infus Daun Dewa 2 DMct | .60 | 12.972 | 1.000 | -38.22 | 39.42 |
| | Infus Daun Dewa 1 DMct | 29.00 | 12.972 | .207 | -9.82 | 67.82 |
| | Kontrol Negatif | 8.20 | 12.972 | .968 | -30.62 | 47.02 |
| Kontrol Negatif | Infus Daun Dewa 4 DMct | -4.60 | 12.972 | .996 | -43.42 | 34.22 |
| | Infus Daun Dewa 2 DMct | -7.60 | 12.972 | .976 | -46.42 | 31.22 |
| | Infus Daun Dewa 1 DMct | 20.80 | 12.972 | .512 | -18.02 | 59.62 |
| | Kontrol Positif | -8.20 | 12.972 | .968 | -47.02 | 30.62 |

Homogeneous Subsets

Kadar Glukosa Sesudah Induksi Aloksan

Tukey HSD^a

| Kelompok Perlakuan | N | Subset for alpha = .05 |
|------------------------|---|---------------------------|
| | | 1 |
| Infus Daun Dewa 1 DMct | 5 | 128.00 |
| Kontrol Negatif | 5 | 148.80 |
| Infus Daun Dewa 4 DMct | 5 | 153.40 |
| Infus Daun Dewa 2 DMct | 5 | 156.40 |
| Kontrol Positif | 5 | 157.00 |
| Sig. | | .207 |

Means for groups in homogeneous subsets are displayed.

^a. Uses Harmonic Mean Sample Size = 5.000.

Oneway

B. Kadar Glukosa Sesudah Perlakuan

Descriptives

| Kadar glukosa Sesudah Perlakuan | | | | | | | | |
|---------------------------------|----|--------|----------------|------------|----------------------------------|-------------|-----|-----|
| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
| | | | | | Lower Bound | Upper Bound | | |
| Infus Daun Dewa 4 DMct | 5 | 80.00 | 10.654 | 4.764 | 66.77 | 93.23 | 67 | 96 |
| Infus Daun Dewa 2 DMct | 5 | 84.60 | 12.198 | 5.455 | 69.45 | 99.75 | 71 | 99 |
| Infus Daun Dewa 1 DMct | 5 | 73.00 | 1.000 | .447 | 71.76 | 74.24 | 72 | 74 |
| Kontrol Positif | 5 | 64.80 | 9.149 | 4.091 | 53.44 | 76.16 | 56 | 75 |
| Kontrol Negatif | 5 | 134.20 | 19.588 | 8.760 | 109.88 | 158.52 | 113 | 164 |
| Total | 25 | 87.32 | 27.216 | 5.443 | 76.09 | 98.55 | 56 | 164 |

Test of Homogeneity of Variances

| Kadar glukosa Sesudah Perlakuan | | | |
|---------------------------------|-----|-----|------|
| Levene Statistic | df1 | df2 | Sig. |
| 2.482 | 4 | 20 | .077 |

ANOVA

| Kadar glukosa Sesudah Perlakuan | | | | | |
|---------------------------------|----------------|----|-------------|--------|------|
| | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 14854.640 | 4 | 3713.660 | 25.412 | .000 |
| Within Groups | 2922.800 | 20 | 146.140 | | |
| Total | 17777.440 | 24 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Kadar glukosa Sesudah Perlakuan

Tukey HSD

| (I) Kelompok Perlakuan | (J) Kelompok Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|------------------------|------------------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Infus Daun Dewa 4 DMct | Infus Daun Dewa 2 DMct | -4.60 | 7.646 | .973 | -27.48 | 18.28 |
| | Infus Daun Dewa 1 DMct | 7.00 | 7.646 | .888 | -15.88 | 29.88 |
| | Kontrol Positif | 15.20 | 7.646 | .307 | -7.68 | 38.08 |
| | Kontrol Negatif | -54.20* | 7.646 | .000 | -77.08 | -31.32 |
| Infus Daun Dewa 2 DMct | Infus Daun Dewa 4 DMct | 4.60 | 7.646 | .973 | -18.28 | 27.48 |
| | Infus Daun Dewa 1 DMct | 11.60 | 7.646 | .564 | -11.28 | 34.48 |
| | Kontrol Positif | 19.80 | 7.646 | .110 | -3.08 | 42.68 |
| | Kontrol Negatif | -49.60* | 7.646 | .000 | -72.48 | -26.72 |
| Infus Daun Dewa 1 DMct | Infus Daun Dewa 4 DMct | -7.00 | 7.646 | .888 | -29.88 | 15.88 |
| | Infus Daun Dewa 2 DMct | -11.60 | 7.646 | .564 | -34.48 | 11.28 |
| | Kontrol Positif | 8.20 | 7.646 | .818 | -14.68 | 31.08 |
| | Kontrol Negatif | -61.20* | 7.646 | .000 | -84.08 | -38.32 |
| Kontrol Positif | Infus Daun Dewa 4 DMct | -15.20 | 7.646 | .307 | -38.08 | 7.68 |
| | Infus Daun Dewa 2 DMct | -19.80 | 7.646 | .110 | -42.68 | 3.08 |
| | Infus Daun Dewa 1 DMct | -8.20 | 7.646 | .818 | -31.08 | 14.68 |
| | Kontrol Negatif | -69.40* | 7.646 | .000 | -92.28 | -46.52 |
| Kontrol Negatif | Infus Daun Dewa 4 DMct | 54.20* | 7.646 | .000 | 31.32 | 77.08 |
| | Infus Daun Dewa 2 DMct | 49.60* | 7.646 | .000 | 26.72 | 72.48 |
| | Infus Daun Dewa 1 DMct | 61.20* | 7.646 | .000 | 38.32 | 84.08 |
| | Kontrol Positif | 69.40* | 7.646 | .000 | 46.52 | 92.28 |

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

Homogeneous Subsets

Kadar glukosa Sesudah Perlakuan

Tukey HSD^a

| Kelompok Perlakuan | N | Subset for alpha = .05 | |
|------------------------|---|------------------------|--------|
| | | 1 | 2 |
| Kontrol Positif | 5 | 64.80 | |
| Infus Daun Dewa 1 DMct | 5 | 73.00 | |
| Infus Daun Dewa 4 DMct | 5 | 80.00 | |
| Infus Daun Dewa 2 DMct | 5 | 84.60 | |
| Kontrol Negatif | 5 | | 134.20 |
| Sig. | | .110 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Lampiran 3

Perhitungan Statistik ANOVA dan Uji Tukey HSD Kadar Glukosa Darah Mencit

HASIL PENGUKURAN KADAR GLUKOSA DARAH DENGAN BAHAN UJI INFUS DAUN DEWA

Oneway

A. Kadar glukosa sesudah Induksi Aloksan

Descriptives

| Kadar Glukosa Sesudah Induksi Aloksan | | | | | | | | |
|---------------------------------------|----|--------|----------------|------------|----------------------------------|-------------|-----|-----|
| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
| | | | | | Lower Bound | Upper Bound | | |
| Infus Daun Dewa 4 DMct | 5 | 153.40 | 18.229 | 8.152 | 130.77 | 176.03 | 132 | 177 |
| Infus Daun Dewa 2 DMct | 5 | 156.40 | 21.744 | 9.724 | 129.40 | 183.40 | 139 | 193 |
| Infus Daun Dewa 1 DMct | 5 | 128.00 | 3.317 | 1.483 | 123.88 | 132.12 | 125 | 133 |
| Kontrol Positif | 5 | 157.00 | 30.619 | 13.693 | 118.98 | 195.02 | 138 | 210 |
| Kontrol Negatif | 5 | 148.80 | 18.700 | 8.363 | 125.58 | 172.02 | 127 | 178 |
| Total | 25 | 148.72 | 21.705 | 4.341 | 139.76 | 157.68 | 125 | 210 |

Test of Homogeneity of Variances

| Kadar Glukosa Sesudah Induksi Aloksan | | | |
|---------------------------------------|-----|-----|------|
| Levene Statistic | df1 | df2 | Sig. |
| 1.524 | 4 | 20 | .233 |

ANOVA

| Kadar Glukosa Sesudah Induksi Aloksan | | | | | |
|---------------------------------------|----------------|----|-------------|-------|------|
| | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 2893.840 | 4 | 723.460 | 1.720 | .185 |
| Within Groups | 8413.200 | 20 | 420.660 | | |
| Total | 11307.040 | 24 | | | |

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SMP Aloysius, Bandung, 1998

SMU Aloysius, Bandung, 2001