

BAB V

KESIMPULAN DAN SARAN

A. Kesimpulan

Pertama, mutu fisik yang dihasilkan semua memenuhi syarat kecuali uji daya proteksi, stabilitas *creambath* baik.

Kedua, sediaan *creambath* ekstrak daun waru (*Hibiscus tiliaceus L.*) konsentrasi 12,5%, 25% dan 37,5% mempunyai aktivitas dalam mempercepat pertumbuhan rambut kelinci *New Zealand White*.

Ketiga, belum ada konsentrasi efektif dari sediaan *creambath* ekstrak daun waru (*Hibiscus tiliaceus L.*) yang mempunyai efek pertumbuhan rambut yang sama dengan kontrol positif, tetapi untuk perkembangan bobot rambut pada kelinci sudah efektif, yaitu konsentrasi 37,5%.

B. Saran

Pertama, perlu dilakukan penelitian selanjutnya untuk mengoptimalkan formula *creambath* yang diteliti agar mampu memberikan sifat fisik *creambath* yang lebih baik sehingga lebih menarik dan nyaman diaplikasikan pada kulit kepala.

Kedua, perlu dilakukan penambahan konsentrasi ekstrak daun waru (*Hibiscus tiliaceus L.*) agar mendapatkan konsentrasi efektif dalam penumbuhan rambut kelinci.

DAFTAR PUSTAKA

- Achmad, A. S., E. H., L. Makmur. 1990. *Flavonoid dan Fitomedika, Kegunaan dan Prospek*. Phyto-Medika. Jakarta.
- Amelia *et al.* 2016. Uji Aktivitas dan Keamanan *Hair Tonic* Ekstrak Daun Kembang sepatu (*Hibiscus rosa sinensis*) Pada pertumbuhan rambut Kelinci. Jurnal Farmasi Indonesia vol. 8.
- Aprilia, Titin. 2017. Uji Picu Pertumbuhan Rambut Kelinci Dengan Ekstrak Etanol Daun Binahong (*Anredera Cordifolia* (Ten.) Steenis) [Skripsi]. Bandar Lampung: Universitas Lampung.
- Burton, J. L., C. Livingstone. 1979. *Essentials of Dermatology*. Interscience Pub. Edinburg.
- Departemen Kesehatan Republik Indonesia. 1995. *Farmakope Indonesia*, Edisi IV. Departemen Kesehatan Republik Indonesia, Jakarta.
- Departemen Kesehatan Republik Indonesia. 2000. *Kebijakan Obat Tradisional Nasional (KONTRANAS)*. Jakarta.
- Departemen Kesehatan Republik Indonesia. 2008. *Farmakope Herbal Indonesia*. Departemen Kesehatan Republik Indonesia, Jakarta.
- Didik, Gunawan., Sri, Mulyani. 2004. *Ilmu Obat Alam*. Bogor. Penebar Swadaya.
- Djuanda, Adhi. 2007. Ilmu Penyakit Kulit dan Kelamin. Edisi kelima. Jakarta: Balai Penerbit FKUI.
- Djuanda, Adhi. 2010. Ilmu Penyakit Kulit dan Kelamin. Jakarta: Fakultas Kedokteran Universitas Indonesia.
- Draize, J. H. 1959. *Dermal Toxicity*. The Association of Food and Drug Officials of the United States. Bureau of Food and Drugs, Austin, TX. Pages 46-49. Available as PDF file.
- Ernawati, D. 2011. Untung Menggiurkan dari Budi Daya Kelinci. CV Andi Offset. Yogyakarta.
- Farnsworth, N. R. 1996. Biological and Phytochemical Screening of Plants. *Journal of Pharmaceutical Science*. 55 (3). Pages 257-259, 63.
- Gasnier, A. 1948. Some modalities if growth study on the abbit. *Anim. Breed. Abstr.* 16: 144-145.

- Harbone JB. 1987. *Metode Fitokimia*. Kokasih Padmawinata dan Iwang Soediro, penerjemah; Bandung: ITB. Terjemahan dari: *Phytochemical Methods*.
- Heyne K. 1987. *Tumbuhan Berguna Indonesia-I-IV*. Badan Litbang Kehutanan.
- Hustamin, R. 2006. *Panduan Pemeliharaan Kelinci Hias*. Agromedia Pustaka. Jakarta.
- Jellinek, J. S. 1970. *Formulation and Function of Cosmetics*. Willey Interscience a Division of John Wiley and Son. Inc. New York.
- Jufri M., Elya B., Febriani A. 2016. Uji Akvitasi dan Keamanan *Hair Tonic* Ekstrak Daun Kembang Sepatu (*Hibiscus rosa-sinensis*) Pada Pertumbuhan Rambut Kelinci. *Jurnal Farmasi Indonesia*. Depok: Universitas Indonesia 1 (8).
- Kartadisastra, H. R. 1997. *Ternak Kelinci Teknologi Pascapanen*. Kanisius, Yogyakarta.
- Kusumadewi. 2001. *Pengetahuan dan Seni Tata Rambut Modern*. Jakarta: Meutia Cipta Sarana dan DPP. Tiara Kusuma, 19-36.
- Lestari Titik, Winarso Agus, Sayuti A Nutrisia. 2015. Formulasi Gel dan Mikroemulsi penumbuh Rambut kombinasi ekstrak Ethanol Daun Waru (*Hibiscus Tiliaceus L.*) dan Buah Asam (*Tamarindus Indica L.*). *Jurnal Terpadu Ilmu Kesehatan* 2 (4): 82-196.
- Martodisiswojo., Rajakwangun. 1995. Tanaman Waru. Fakultas Farmasi, Camcer Chemoprevention Research Center, UGM. Yogyakarta.
- McEvoy, G. K. 1999. *AHFS Drug Information 1999*. American Society of Health-System Pharmacists. Bethesda.
- Mukhti, Suci. 2015. Pengaruh pemanfaatan *Cream Creambath* Lidah Buaya terhadap perawatan Rambut [Skripsi]. Padang: Universitas Negeri Padang.
- Pusponegoro, Erdina H.D. 2002. Kerontokan Rambut Etiopatogenesis. Dalam: Wasitaadmadja, Sjarif M, dkk. *Kesehatan dan Keindahan Rambut*. Jakarta: Kelompok Studi Dermatologi Kosmetik Indonesia, 1-13.
- Putri, Ismayenti M. 2014. Pengaruh pemberian ekstrak Daun Waru (*Hibiscus tiliaceus*) sebagai penumbuh Rambut Kelinci Jantan (*Oryctolagus cuniculus*) dan Implementasinya pada Pembelajaran IPA Biologi SMP Kelas VIII [Skripsi]. Bengkulu: Universitas Bengkulu.
- Raina. 2011. *Ensiklopedi Tumbuhan Berkhasiat Obat*. Jakarta: Salemba Medika.

- Ridwan, Muhammad. 2009. *Keajaiban Rambut Mahkota yang sering Terabaikan*. Semarang: Pustaka Widymara, 4.
- Robinson, T. 1995. Kandungan organik tumbuhan tingkat tinggi. Bandung: Penerbit ITB.
- Rook, A., R, Dawber. 1991. *Disease of The Hair and Scalp* (2nd ed.). London: Blackwell Scientific Pub. Halaman: 41-49.
- Sarwono, B. 2003. Kelinci Potong dan Hias. Penerbit Agro Media Pustaka, Jakarta.
- Schuller, R dan Romanowski, P. 1999. Conditioning Agents for Hair dan Skin. New York: Marcel Dekker Inc.
- Soepadirman, L. *Kelainan pigmen*. 2010. Dalam: Djunda A, Hamzah M, Aisah S. Editor. *Ilmu penyakit Kulit dan Kelamin Edisi ke 5*. Jakarta: Balai Penerbit FKUI. Hal. 289-295.
- Sofia Nabihilla., Indrawati Teti. 2018. Formulasi *Creambath* dengan Variasi Konsentrasi Sari Bonggol Pisang Ambon (*Musa acuminata Colla*). *Jurnal Ilmu Kefarmasian* 1 (16): 56-60.
- Suling, P.L. 2010. Hair Fall. Dalam: *Cosmetic Dermatology Update*. Simposium Nasional, Pameran, dan Pelatihan Dermatologi Kosmetik.
- Syamsuhidayat, S.S., & Hutapea J.R. 1991. *Inventaris Tanaman Obat Indonesia*, Jilid 1, 49-51, Departemen Kesehatan RI, Badan Penelitian dan Pengembangan Kesehatan, Jakarta.
- Voigt, R. 1994. *Buku Pelajaran Teknologi Farmasi*. Terjemahan: S. Noerono. Gadjah Mada University Press. Indonesia.
- Windarwati, S. 2011. Pemanfaatan Fraksi Aktif Ekstrak Tanaman Jarak Pagar Sebagai Zat Antimikroba dan antioksidan Dalam Sediaan Kosmetik. Tesis. Sekolah Pascasarjana Institut Pertanian Bogor.
- Yuswantina R, Yulianta OW, Fitri Z. 2013. Efek ekstrak daun talok (*Muntingia calabura* L.) terhadap daya tumbuh rambut kelinci jantan galur Australia. Semarang. Program Studi Farmasi, STIKES Ngudi Waluyo.

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Lampiran 1. Determinasi tumbuhan waru (*Hibiscus tiliaceus* L.)



No : 338/DET/UPT-LAB/20/III/2019

Hal : Surat Keterangan Determinasi Tumbuhan

Menerangkan bahwa :

Nama : Rian Agustinus Rinaldi

NIM : 21154602 A

Fakultas : Farmasi Universitas Setia Budi

Telah mendeterminasikan tumbuhan : **Waru (*Hibiscus tiliaceus* L.)**

Determinasi berdasarkan Steenis : FLORA

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 14a – 15a. golongan 8. 109b – 119b – 120b – 128b – 129b – 135b – 136b – 139b – 140b – 142b – 143b – 146b – 154b – 155b – 156b – 162b – 163b – 167b – 169b – 171a – 172b – 173b – 174b – 176a. 75. familia Malvaceae. 1a – 2b – 3b 5. Hibiscus. 1a. ***Hibiscus tiliaceus* L.**

Deskripsi :

Habitus : Pohon, tinggi 5 – 15 meter.

Akar : Sistem akar tunggang.

Batang : Bentuk bulat, berkayu, bercabang, berwarna coklat.

Daun : **Tunggal, bangun jantung, tulang daun menjari, permukaan atas hijau tua, permukaan bawah berambut abu-abu tua. Daun bertangkai. Daun penumpu bulat telur memanjang, panjang lk 2,5 cm, meninggalkan tanda bekas berbentuk cincin.**

Bunga : Berdiri sendiri atau 2 – 5 dalam tandan. Daun kelopak tambahan sampai lebih dari separohnya melekat, dengan 8 – 11 taju. Kelopak panjang 2,5cm, beraturan, bercangap 5. Daun mahkota bentuk kipas, berkuku pendek dan lebar, panjang 5 – 7,5 cm, kuning dengan noda ungu pada pangkal, oranye dan akhirnya berubah warna menjadi kemerah-merahan. Tabung benang sari keseluruhan ditampati oleh kepala sari, kuning. Bakal buah beruang 5, tiap ruang dibagi dua oleh sekat semu, dengan banyak bakal biji.

Pustaka : Steenis C.G.G.J., Bloembergen S. Eyma P.J. (1978): FLORA, PT Pradnya Paramita.Jl. Kebon Sirih 46.Jakarta Pusat, 1978.



Lampiran 2. Hasil *Ethical Clearance*

3/29/2019

Form A2



HEALTH RESEARCH ETHICS COMMITTEE
KOMISI ETIK PENELITIAN KESEHATAN
Dr. Moewardi General Hospital
RSUD Dr. Moewardi



School of Medicine Sebelas Maret University
Fakultas Kedokteran Universitas sebelas Maret

ETHICAL CLEARANCE KELAIKAN ETIK

Nomor : 387 / III /HREC / 2019

The Health Research Ethics Committee Dr. Moewardi General Hospital / School of Medicine Sebelas Maret
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi / Fakultas Kedokteran Universitas Sebelas Maret

Maret University Of Surakarta, after reviewing the proposal design, herewith to certify
Surakarta, setelah menilai rancangan penelitian yang diusulkan, dengan ini menyatakan

That the research proposal with topic :
Bawa usulan penelitian dengan judul

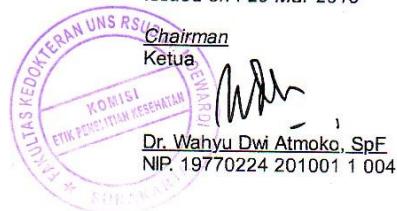
Uji Aktivitas Sediaan Creambath Ekstrak Daun Waru (*Hibiscus tiliaceus L*) terhadap pertumbuhan Rambut Kelinci New Zealand White

Principal investigator : Rian Agustinus Rinaldi
Peneliti Utama : 21154602A

Location of research : Bibis Luhur, Banjarsari Surakarta
Lokasi Tempat Penelitian

Is ethically approved
Dinyatakan layak etik

Issued on : 29 Mar 2019



Lampiran 3. Gambar bahan penelitian

Lampiran 4. Gambar alat uji

Lampiran 5. Perhitungan rendemen simplisia daun waru

Berat basah (gram) = 7300

Berat kering (gram) = 2400

Persentase rendemen (% b/b) = 32,876

Persentase rendemen simplisia daun waru:

$$\text{Persentase rendemen} = \frac{\text{berat kering (gram)}}{\text{berat basah (gram)}} \times 100\%$$

$$= \frac{2400}{7300} \times 100\%$$

$$= 32,876 (\% \text{ b/b})$$

Jadi, rendemen simplisia daun waru adalah 32,876 (% b/b)

Lampiran 6. Perhitungan rendemen serbuk daun waru

Berat kering (gram) = 2400

Berat serbuk (gram) = 2050

Persentase rendemen (% b/b) = 85,416

Persentase rendemen simplisia daun waru:

$$\text{Persentase rendemen} = \frac{\text{berat serbuk (gram)}}{\text{berat kering (gram)}} \times 100\%$$

$$= \frac{2050}{2400} \times 100\%$$

$$= 85,416 (\% \text{ b/b})$$

Jadi, rendemen serbuk daun waru adalah 85,416 (% b/b)

Lampiran 7. Perhitungan kadar lembab serbuk daun waru

| Replikasi | Berat penimbangan (gram) | Persentase kadar lembab (%) |
|---------------|--------------------------|-----------------------------|
| 1 | 2,0 | 6,70 |
| 2 | 2,0 | 6,60 |
| 3 | 2,0 | 8,50 |
| Rata-rata ±SD | 7,26 ± 0,87 | |

Lampiran 8. Perhitungan rendemen ekstrak etanol daun waru

Berat serbuk (gram) = 1000

Berat cawan kosong (gram) = 150,311

Berat cawan + ekstrak (gram) = 263,024

Berat ekstrak (gram) = 112,714

Persentase rendemen (% b/b) = 11,271

Persentase rendemen simplisia daun waru:

$$\text{Persentase rendemen} = \frac{\text{berat ekstrak (gram)}}{\text{berat serbuk (gram)}} \times 100\%$$

$$= \frac{112,714}{1000} \times 100\%$$

$$= 11,271 (\%)$$

Jadi, rendemen ekstrak etanol daun waru adalah 11,271 (%) b/b)

Lampiran 9. Identifikasi kandungan senyawa dengan metode reaksi warna

Flavonoid = (+) Flavonoid, terbentuk warna jingga pada jingga pada lapisan amyil alkohol



Saponin = (+) Saponin, terbentuk buih yang stabil setinggi 1-10 cm, ditambah HCL 2N buih tidak hilang



Fenol = (+) Fenol, terbentuk warna biru kehitaman



Lampiran 10. Uji fisik *creambath*

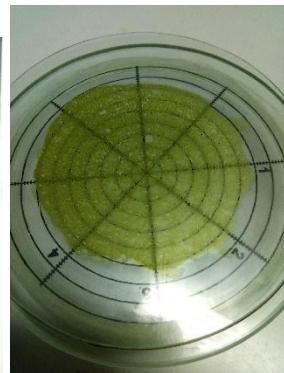
Uji homogenitas



Uji pH



Uji daya sebar



Uji daya lekat



Uji viskositas



Uji Proteksi

Uji *cycling test*

Uji bobot rambut



Uji iritasi kulit



Uji iritasi mata



Uji aktivitas pertumbuhan rambut



Lampiran 11. Hasil data uji pH

| Minggu 1 | | | | | |
|-------------------|------|------|------|------|------|
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 6,12 | 6,09 | 6,10 | 6,10 | 0,01 |
| Konsentrasi 25% | 5,65 | 5,63 | 5,63 | 5,63 | 0,00 |
| Konsentrasi 37,5% | 5,14 | 5,13 | 5,11 | 5,12 | 0,01 |
| Kontrol - | 4,00 | 4,00 | 4,00 | 4,00 | 0,00 |
| Minggu 2 | | | | | |
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 6,14 | 6,11 | 6,11 | 6,12 | 0,01 |
| Konsentrasi 25% | 5,60 | 5,62 | 5,64 | 5,62 | 0,01 |
| Konsentrasi 37,5% | 5,12 | 5,10 | 5,11 | 5,11 | 0,00 |
| Kontrol - | 4,00 | 4,00 | 4,00 | 4,00 | 0,00 |
| Minggu 3 | | | | | |
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 6,10 | 6,12 | 6,13 | 6,11 | 0,01 |
| Konsentrasi 25% | 5,63 | 5,64 | 5,64 | 5,63 | 0,00 |
| Konsentrasi 37,5% | 5,09 | 5,11 | 5,11 | 5,10 | 0,00 |
| Kontrol - | 4,00 | 4,00 | 4,00 | 4,00 | 0,00 |
| Minggu 4 | | | | | |
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 6,14 | 6,10 | 6,12 | 6,12 | 0,01 |
| Konsentrasi 25% | 5,63 | 5,63 | 5,66 | 5,64 | 0,01 |
| Konsentrasi 37,5% | 5,12 | 5,10 | 5,09 | 5,10 | 0,01 |
| Kontrol - | 4,00 | 4,00 | 4,00 | 4,00 | 0,00 |

NPar Tests

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|---------|----|--------|----------------|---------|---------|
| Formula | 48 | 2,5000 | 1,12987 | 1,00 | 4,00 |
| Nilaiph | 49 | 5,1900 | ,80517 | 4,00 | 6,14 |

One-Sample Kolmogorov-Smirnov Test

| | formula | nilaiph |
|----------------------------------|---------|---------|
| N | 48 | 49 |
| Normal Parameters ^{a,b} | | |
| Mean | 2,5000 | 5,1900 |
| Std. Deviation | 1,12987 | ,80517 |
| Absolute | ,171 | ,196 |
| Most Extreme Differences | | |
| Positive | ,171 | ,196 |
| Negative | -,171 | -,185 |
| Kolmogorov-Smirnov Z | 1,184 | 1,369 |
| Asymp. Sig. (2-tailed) | ,121 | ,047 |

a. Test distribution is Normal.

b. Calculated from data.

Oneway

Descriptives

nilaiph

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|--------|----------------|------------|----------------------------------|-------------|------|------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 12 | 6,1150 | ,01624 | ,00469 | 6,1047 | 6,1253 | 6,09 | 6,14 |
| konsentrasi 25,5% | 12 | 5,6333 | ,01497 | ,00432 | 5,6238 | 5,6428 | 5,60 | 5,66 |
| konsentrasi 37,5% | 12 | 5,1108 | ,01505 | ,00434 | 5,1013 | 5,1204 | 5,09 | 5,14 |
| kontrol - | 12 | 4,0000 | ,00000 | ,00000 | 4,0000 | 4,0000 | 4,00 | 4,00 |
| Total | 48 | 5,2148 | ,79457 | ,11469 | 4,9841 | 5,4455 | 4,00 | 6,14 |

Test of Homogeneity of Variances

nilaiph

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 6,443 | 3 | 44 | ,001 |

ANOVA

nilaiph

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-----------|------|
| Between Groups | 29,665 | 3 | 9,888 | 55366,165 | ,000 |
| Within Groups | ,008 | 44 | ,000 | | |
| Total | 29,673 | 47 | | | |

Oneway

Descriptives

nilaiph

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|--------|----------------|------------|----------------------------------|-------------|------|------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 12 | 6,1150 | ,01624 | ,00469 | 6,1047 | 6,1253 | 6,09 | 6,14 |
| konsentrasi 25,5% | 12 | 5,6333 | ,01497 | ,00432 | 5,6238 | 5,6428 | 5,60 | 5,66 |
| konsentrasi 37,5% | 12 | 5,1108 | ,01505 | ,00434 | 5,1013 | 5,1204 | 5,09 | 5,14 |
| kontrol - | 12 | 4,0000 | ,00000 | ,00000 | 4,0000 | 4,0000 | 4,00 | 4,00 |
| Total | 48 | 5,2148 | ,79457 | ,11469 | 4,9841 | 5,4455 | 4,00 | 6,14 |

Test of Homogeneity of Variances

nilaiph

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 6,443 | 3 | 44 | ,001 |

ANOVA

nilaiph

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-----------|------|
| Between Groups | 29,665 | 3 | 9,888 | 55366,165 | ,000 |
| Within Groups | ,008 | 44 | ,000 | | |
| Total | 29,673 | 47 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: nilaiph

Dunnett T3

| (I) formula | (J) formula | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-------------------|-------------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| konsentrasi 12,5% | konsentrasi 25,5% | ,48167* | ,00638 | ,000 | ,4633 | ,5000 |
| | konsentrasi 37,5% | 1,00417* | ,00639 | ,000 | ,9858 | 1,0225 |
| | kontrol - | 2,11500* | ,00469 | ,000 | 2,1003 | 2,1297 |
| | konsentrasi 12,5% | -,48167* | ,00638 | ,000 | -,5000 | -,4633 |
| | konsentrasi 37,5% | ,52250* | ,00613 | ,000 | ,5049 | ,5401 |
| | kontrol - | 1,63333* | ,00432 | ,000 | 1,6198 | 1,6469 |
| konsentrasi 37,5% | konsentrasi 12,5% | -1,00417* | ,00639 | ,000 | -1,0225 | -,9858 |
| | konsentrasi 25,5% | -,52250* | ,00613 | ,000 | -,5401 | -,5049 |
| | kontrol - | 1,11083* | ,00434 | ,000 | 1,0972 | 1,1245 |
| | konsentrasi 12,5% | -2,11500* | ,00469 | ,000 | -2,1297 | -2,1003 |
| kontrol - | konsentrasi 25,5% | -1,63333* | ,00432 | ,000 | -1,6469 | -1,6198 |
| | konsentrasi 37,5% | -1,11083* | ,00434 | ,000 | -1,1245 | -1,0972 |

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

Lampiran 12. Hasil uji daya sebar krim ekstrak daun waru

| Minggu 1 | | | | | | |
|-------------------|--------------|------|------|------|------|------|
| Formula | Beban (gram) | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 0 | 4,47 | 4,47 | 4,62 | 4,52 | 0,07 |
| | 50 | 4,92 | 4,67 | 5,05 | 4,88 | 0,15 |
| | 100 | 5,32 | 5,10 | 5,35 | 5,25 | 0,11 |
| | 150 | 5,77 | 5,47 | 5,77 | 5,67 | 0,14 |
| | 200 | 6,00 | 5,95 | 5,97 | 5,97 | 0,02 |
| Konsentrasi 25% | 0 | 4,25 | 4,35 | 4,30 | 4,30 | 0,04 |
| | 50 | 4,47 | 4,62 | 4,60 | 4,56 | 0,06 |
| | 100 | 4,75 | 5,10 | 4,87 | 4,90 | 0,14 |
| | 150 | 4,97 | 5,20 | 5,32 | 5,16 | 0,14 |
| | 200 | 5,47 | 5,40 | 5,50 | 5,45 | 0,04 |
| Konsentrasi 37,5% | 0 | 4,20 | 4,17 | 4,20 | 4,19 | 0,01 |
| | 50 | 4,32 | 4,35 | 4,32 | 4,33 | 0,01 |
| | 100 | 4,62 | 4,52 | 4,47 | 4,53 | 0,06 |
| | 150 | 4,85 | 4,82 | 4,67 | 4,78 | 0,07 |
| | 200 | 5,35 | 5,10 | 5,10 | 5,18 | 0,11 |
| Kontrol - | 0 | 4,92 | 4,85 | 4,75 | 4,84 | 0,06 |
| | 50 | 5,22 | 5,40 | 5,12 | 5,24 | 0,11 |
| | 100 | 5,50 | 5,55 | 5,52 | 5,52 | 0,02 |
| | 150 | 5,97 | 6,60 | 6,02 | 6,19 | 0,28 |
| | 200 | 6,42 | 6,72 | 6,55 | 6,56 | 0,12 |

| Minggu 2 | | | | | | |
|-------------------|--------------|------|------|------|------|------|
| Formula | Beban (gram) | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 0 | 4,32 | 4,30 | 4,22 | 4,28 | 0,04 |
| | 50 | 4,50 | 4,55 | 4,55 | 4,53 | 0,02 |
| | 100 | 4,75 | 5,27 | 4,87 | 4,96 | 0,22 |
| | 150 | 4,97 | 5,40 | 5,10 | 5,15 | 0,18 |
| | 200 | 5,55 | 5,50 | 5,50 | 5,51 | 0,02 |
| Konsentrasi 25% | 0 | 4,30 | 4,25 | 4,35 | 4,30 | 0,04 |
| | 50 | 4,65 | 4,45 | 4,70 | 4,60 | 0,10 |
| | 100 | 4,92 | 4,75 | 4,97 | 4,88 | 0,09 |
| | 150 | 5,10 | 5,02 | 5,17 | 5,09 | 0,06 |
| | 200 | 5,22 | 5,22 | 5,32 | 5,25 | 0,04 |
| Konsentrasi 37,5% | 0 | 4,15 | 4,25 | 4,27 | 4,22 | 0,05 |
| | 50 | 4,42 | 4,40 | 4,32 | 4,38 | 0,04 |
| | 100 | 4,65 | 4,60 | 4,52 | 4,59 | 0,05 |
| | 150 | 4,87 | 5,00 | 4,82 | 4,89 | 0,07 |
| | 200 | 4,97 | 5,10 | 5,00 | 5,02 | 0,05 |
| Kontrol - | 0 | 4,82 | 4,85 | 4,82 | 4,83 | 0,01 |
| | 50 | 5,12 | 5,27 | 5,12 | 5,17 | 0,07 |
| | 100 | 5,40 | 5,47 | 5,60 | 5,49 | 0,08 |
| | 150 | 6,15 | 6,45 | 5,97 | 6,19 | 0,19 |
| | 200 | 6,22 | 6,60 | 6,35 | 6,39 | 0,15 |

| Minggu 3 | | | | | | |
|-------------------|--------------|------|------|------|------|------|
| Formula | Beban (gram) | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 0 | 4,37 | 4,57 | 4,25 | 4,39 | 0,13 |
| | 50 | 4,90 | 5,10 | 4,62 | 4,87 | 0,19 |
| | 100 | 5,15 | 5,30 | 4,97 | 5,14 | 0,13 |
| | 150 | 5,32 | 5,52 | 5,35 | 5,39 | 0,08 |
| | 200 | 5,50 | 5,55 | 5,55 | 5,53 | 0,02 |
| Konsentrasi 25% | 0 | 4,22 | 4,27 | 4,30 | 4,26 | 0,03 |
| | 50 | 4,42 | 4,62 | 4,50 | 4,51 | 0,08 |
| | 100 | 4,67 | 4,82 | 4,90 | 4,79 | 0,09 |
| | 150 | 5,02 | 5,10 | 5,02 | 5,04 | 0,03 |
| | 200 | 5,15 | 5,25 | 5,15 | 5,18 | 0,04 |
| Konsentrasi 37,5% | 0 | 4,20 | 4,10 | 4,15 | 4,15 | 0,04 |
| | 50 | 4,50 | 4,47 | 4,47 | 4,48 | 0,01 |
| | 100 | 4,65 | 4,67 | 4,65 | 4,56 | 0,08 |
| | 150 | 4,80 | 4,85 | 4,82 | 4,82 | 0,02 |
| | 200 | 5,12 | 5,20 | 5,12 | 5,14 | 0,03 |
| Kontrol - | 0 | 4,95 | 4,90 | 4,85 | 4,90 | 0,04 |
| | 50 | 5,62 | 5,35 | 5,30 | 5,42 | 0,14 |
| | 100 | 5,85 | 5,57 | 5,60 | 5,67 | 0,12 |
| | 150 | 6,15 | 6,30 | 5,97 | 6,14 | 0,13 |
| | 200 | 6,30 | 6,47 | 6,25 | 6,34 | 0,09 |

| Minggu 4 | | | | | | |
|-------------------|--------------|------|------|------|------|------|
| Formula | Beban (gram) | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 0 | 4,20 | 4,40 | 4,32 | 4,30 | 0,08 |
| | 50 | 4,55 | 4,62 | 4,55 | 4,57 | 0,03 |
| | 100 | 4,72 | 5,20 | 4,80 | 4,90 | 0,20 |
| | 150 | 4,85 | 5,40 | 5,25 | 5,16 | 0,23 |
| | 200 | 5,30 | 5,62 | 5,47 | 5,46 | 0,13 |
| Konsentrasi 25% | 0 | 4,25 | 4,32 | 4,27 | 4,28 | 0,02 |
| | 50 | 4,45 | 4,55 | 4,62 | 4,54 | 0,06 |
| | 100 | 4,77 | 4,72 | 4,75 | 4,74 | 0,02 |
| | 150 | 5,00 | 4,92 | 5,00 | 4,97 | 0,03 |
| | 200 | 5,02 | 5,17 | 5,22 | 5,13 | 0,08 |
| Konsentrasi 37,5% | 0 | 4,12 | 4,32 | 4,17 | 4,20 | 0,08 |
| | 50 | 4,15 | 4,50 | 4,40 | 4,35 | 0,14 |
| | 100 | 4,42 | 4,72 | 4,62 | 4,58 | 0,12 |
| | 150 | 4,75 | 4,87 | 4,97 | 4,86 | 0,08 |
| | 200 | 4,92 | 5,12 | 5,20 | 5,08 | 0,11 |
| Kontrol - | 0 | 4,82 | 5,05 | 4,87 | 4,91 | 0,09 |
| | 50 | 5,25 | 5,45 | 5,42 | 5,37 | 0,08 |
| | 100 | 5,52 | 5,90 | 5,82 | 5,74 | 0,16 |
| | 150 | 6,02 | 6,20 | 6,15 | 6,12 | 0,07 |
| | 200 | 6,25 | 6,25 | 6,22 | 6,24 | 0,01 |

NPar Tests

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|-----------|-----|--------|----------------|---------|---------|
| formula | 240 | 2,5000 | 1,12037 | 1,00 | 4,00 |
| dayasebar | 240 | 5,0266 | ,59777 | 4,10 | 6,72 |

One-Sample Kolmogorov-Smirnov Test

| | | formula | dayasebar |
|----------------------------------|----------------|---------|-----------|
| N | | 240 | 240 |
| Normal Parameters ^{a,b} | Mean | 2,5000 | 5,0266 |
| | Std. Deviation | 1,12037 | ,59777 |
| | Absolute | ,172 | ,067 |
| Most Extreme Differences | Positive | ,172 | ,067 |
| | Negative | -,172 | -,063 |
| Kolmogorov-Smirnov Z | | 2,669 | 1,040 |
| Asymp. Sig. (2-tailed) | | ,000 | ,230 |

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Kolmogorov-Smirnov Test 2

| | | formula | dayasebar |
|-----------------------------------|----------|---------|-----------|
| N | | 240 | 240 |
| Uniform Parameters ^{a,b} | Minimum | 1,00 | 4,10 |
| | Maximum | 4,00 | 6,72 |
| | Absolute | ,250 | ,292 |
| Most Extreme Differences | Positive | ,250 | ,292 |
| | Negative | -,250 | -,011 |
| Kolmogorov-Smirnov Z | | 3,873 | 4,530 |
| Asymp. Sig. (2-tailed) | | ,000 | ,000 |

a. Test distribution is Uniform.

b. Calculated from data.

Oneway

Descriptives

dayasebar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|-----|--------|----------------|------------|----------------------------------|-------------|------|------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 60 | 5,0253 | ,49566 | ,06399 | 4,8973 | 5,1534 | 4,20 | 6,00 |
| konsentrasi 25% | 60 | 4,8000 | ,36682 | ,04736 | 4,7052 | 4,8948 | 4,22 | 5,50 |
| konsentrasi 37,5% | 60 | 4,6237 | ,33926 | ,04380 | 4,5360 | 4,7113 | 4,10 | 5,35 |
| kontrol - | 60 | 5,6575 | ,57448 | ,07417 | 5,5091 | 5,8059 | 4,75 | 6,72 |
| Total | 240 | 5,0266 | ,59777 | ,03859 | 4,9506 | 5,1026 | 4,10 | 6,72 |

Test of Homogeneity of Variances

dayasebar

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 11,191 | 3 | 236 | ,000 |

ANOVA

dayasebar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|-----|-------------|--------|------|
| Between Groups | 36,704 | 3 | 12,235 | 59,294 | |
| Within Groups | 48,697 | 236 | ,206 | | |
| Total | 85,401 | 239 | | | |

Oneway

Descriptives

dayasebar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|-----|--------|----------------|------------|----------------------------------|-------------|------|------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 60 | 5,0253 | ,49566 | ,06399 | 4,8973 | 5,1534 | 4,20 | 6,00 |
| konsentrasi 25% | 60 | 4,8000 | ,36682 | ,04736 | 4,7052 | 4,8948 | 4,22 | 5,50 |
| konsentrasi 37,5% | 60 | 4,6237 | ,33926 | ,04380 | 4,5360 | 4,7113 | 4,10 | 5,35 |
| kontrol - | 60 | 5,6575 | ,57448 | ,07417 | 5,5091 | 5,8059 | 4,75 | 6,72 |
| Total | 240 | 5,0266 | ,59777 | ,03859 | 4,9506 | 5,1026 | 4,10 | 6,72 |

Test of Homogeneity of Variances

dayasebar

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 11,191 | 3 | 236 | ,000 |

ANOVA

dayasebar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|-----|-------------|--------|------|
| Between Groups | 36,704 | 3 | 12,235 | 59,294 | ,000 |
| Within Groups | 48,697 | 236 | ,206 | | |
| Total | 85,401 | 239 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: dayasebar

Dunnett T3

| (I) formula | (J) formula | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-------------------|-------------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| konsentrasi 12,5% | konsentrasi 25% | ,22533 | ,07961 | ,033 | ,0122 | ,4385 |
| | konsentrasi 37,5% | ,40167 | ,07754 | ,000 | ,1939 | ,6094 |
| | kontrol - | -,63217 | ,09795 | ,000 | -,8942 | -,3702 |
| | konsentrasi 12,5% | -,22533 | ,07961 | ,033 | -,4385 | -,0122 |
| | konsentrasi 25% | ,17633 | ,06451 | ,042 | ,0038 | ,3488 |
| | konsentrasi 37,5% | -,85750 | ,08800 | ,000 | -1,0935 | -,6215 |
| | kontrol - | -,40167 | ,07754 | ,000 | -,6094 | -,1939 |
| | konsentrasi 12,5% | -,17633 | ,06451 | ,042 | -,3488 | -,0038 |
| | konsentrasi 25% | -,103383 | ,08613 | ,000 | -1,2650 | -,8027 |
| | kontrol - | ,63217 | ,09795 | ,000 | ,3702 | ,8942 |
| kontrol - | konsentrasi 25% | ,85750 | ,08800 | ,000 | ,6215 | 1,0935 |
| | konsentrasi 37,5% | 1,03383 | ,08613 | ,000 | ,8027 | 1,2650 |

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

Lampiran 13. Hasil uji viskositas krim ekstrak etanol daun waru.

| Minggu 1 | | | | | |
|-------------------|-------|-------|-------|-------|------|
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 60,00 | 60,00 | 65,00 | 61,66 | 2,35 |
| Konsentrasi 25% | 70,00 | 70,00 | 70,00 | 70,00 | 0,00 |
| Konsentrasi 37,5% | 80,00 | 80,00 | 80,00 | 80,00 | 0,00 |
| Kontrol - | 47,00 | 45,00 | 45,00 | 45,66 | 0,94 |
| Minggu 2 | | | | | |
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 65,00 | 65,00 | 60,00 | 63,33 | 2,35 |
| Konsentrasi 25% | 70,00 | 75,00 | 70,00 | 71,66 | 2,35 |
| Konsentrasi 37,5% | 80,00 | 85,00 | 80,00 | 81,66 | 2,35 |
| Kontrol - | 50,00 | 48,00 | 48,00 | 48,66 | 0,94 |
| Minggu 3 | | | | | |
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 65,00 | 65,00 | 70,00 | 66,66 | 2,35 |
| Konsentrasi 25% | 75,00 | 75,00 | 70,00 | 73,33 | 2,35 |
| Konsentrasi 37,5% | 80,00 | 85,00 | 85,00 | 83,33 | 2,35 |
| Kontrol - | 50,00 | 50,00 | 50,00 | 50,00 | 0,00 |
| Minggu 4 | | | | | |
| | R1 | R2 | R3 | Mean | SD |
| Konsentrasi 12,5% | 70,00 | 70,00 | 70,00 | 70,00 | 0,00 |
| Konsentrasi 25% | 75,00 | 75,00 | 75,00 | 75,00 | 0,00 |
| Konsentrasi 37,5% | 85,00 | 85,00 | 85,00 | 85,00 | 0,00 |
| Kontrol - | 50,00 | 50,00 | 55,00 | 51,55 | 2,35 |

NPar Tests

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|------------|----|---------|----------------|---------|---------|
| formula | 48 | 2.5000 | 1.12987 | 1.00 | 4.00 |
| viskositas | 48 | 67.2500 | 12.84854 | 45.00 | 85.00 |

One-Sample Kolmogorov-Smirnov Test

| | | formula | viskositas |
|----------------------------------|----------------|---------|------------|
| N | | 48 | 48 |
| Normal Parameters ^{a,b} | Mean | 2.5000 | 67.2500 |
| | Std. Deviation | 1.12987 | 12.84854 |
| Most Extreme Differences | Absolute | .171 | .168 |
| | Positive | .171 | .139 |
| | Negative | -.171 | -.168 |
| Kolmogorov-Smirnov Z | | 1.184 | 1.164 |
| Asymp. Sig. (2-tailed) | | .121 | .133 |

a. Test distribution is Normal.

b. Calculated from data.

Oneway**Descriptives**

Viskositas

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|---------|----------------|------------|----------------------------------|-------------|-------|-------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 12 | 65.4167 | 3.96481 | 1.14454 | 62.8975 | 67.9358 | 60.00 | 70.00 |
| konsentrasi 25% | 12 | 72.5000 | 2.61116 | .75378 | 70.8409 | 74.1591 | 70.00 | 75.00 |
| konsentrasi 37,5% | 12 | 82.5000 | 2.61116 | .75378 | 80.8409 | 84.1591 | 80.00 | 85.00 |
| kontrol - | 12 | 48.5833 | 2.90637 | .83900 | 46.7367 | 50.4300 | 45.00 | 55.00 |
| Total | 48 | 67.2500 | 12.84854 | 1.85453 | 63.5192 | 70.9808 | 45.00 | 85.00 |

Test of Homogeneity of Variances

Viskositas

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| .658 | 3 | 44 | .582 |

ANOVA

Viskositas

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|---------|------|
| Between Groups | 7343.167 | 3 | 2447.722 | 258.997 | .000 |
| Within Groups | 415.833 | 44 | 9.451 | | |
| Total | 7759.000 | 47 | | | |

Oneway**Descriptives**

Viskositas

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|---------|----------------|------------|----------------------------------|-------------|-------|-------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 12 | 65.4167 | 3.96481 | 1.14454 | 62.8975 | 67.9358 | 60.00 | 70.00 |
| konsentrasi 25% | 12 | 72.5000 | 2.61116 | .75378 | 70.8409 | 74.1591 | 70.00 | 75.00 |
| konsentrasi 37,5% | 12 | 82.5000 | 2.61116 | .75378 | 80.8409 | 84.1591 | 80.00 | 85.00 |
| kontrol - | 12 | 48.5833 | 2.90637 | .83900 | 46.7367 | 50.4300 | 45.00 | 55.00 |
| Total | 48 | 67.2500 | 12.84854 | 1.85453 | 63.5192 | 70.9808 | 45.00 | 85.00 |

Test of Homogeneity of Variances

Viskositas

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| .658 | 3 | 44 | .582 |

ANOVA

Viskositas

| | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|---------|------|
| Between Groups | 7343.167 | 3 | 2447.722 | 258.997 | .000 |
| Within Groups | 415.833 | 44 | 9.451 | | |
| Total | 7759.000 | 47 | | | |

Post Hoc Tests

Multiple Comparisons

Viskositas
Tukey HSD

| (I) formula | (J) formula | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-------------------|-------------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| konsentrasi 12,5% | konsentrasi 25% | -7.08333 | 1.25504 | .000 | -10.4343 | -3.7324 |
| | konsentrasi 37,5% | -17.08333 | 1.25504 | .000 | -20.4343 | -13.7324 |
| | kontrol - | 16.83333 | 1.25504 | .000 | 13.4824 | 20.1843 |
| konsentrasi 25% | konsentrasi 12,5% | 7.08333 | 1.25504 | .000 | 3.7324 | 10.4343 |
| | konsentrasi 37,5% | -10.00000 | 1.25504 | .000 | -13.3510 | -6.6490 |
| | kontrol - | 23.91667 | 1.25504 | .000 | 20.5657 | 27.2676 |
| konsentrasi 37,5% | konsentrasi 12,5% | 17.08333 | 1.25504 | .000 | 13.7324 | 20.4343 |
| | konsentrasi 25% | 10.00000 | 1.25504 | .000 | 6.6490 | 13.3510 |
| | kontrol - | 33.91667 | 1.25504 | .000 | 30.5657 | 37.2676 |
| kontrol - | konsentrasi 12,5% | -16.83333 | 1.25504 | .000 | -20.1843 | -13.4824 |
| | konsentrasi 25% | -23.91667 | 1.25504 | .000 | -27.2676 | -20.5657 |
| | konsentrasi 37,5% | -33.91667 | 1.25504 | .000 | -37.2676 | -30.5657 |

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

Homogeneous Subsets

Viskositas

Tukey HSD^a

| Formula | N | Subset for alpha = 0.05 | | | |
|-------------------|----|-------------------------|---------|---------|---------|
| | | 1 | 2 | 3 | 4 |
| kontrol - | 12 | 48.5833 | | | |
| konsentrasi 12,5% | 12 | | 65.4167 | | |
| konsentrasi 25% | 12 | | | 72.5000 | |
| konsentrasi 37,5% | 12 | | | | 82.5000 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12,000.

Lampiran 14. Data hasil uji aktivitas pertumbuhan rambut.

| Ekstrak % | Panjang rambut (mm) | | | | |
|--------------|---------------------|------|------|------|------|
| | K1 | K2 | K3 | K4 | K5 |
| Hari ke-3 | 1,54 | 1,19 | 1,77 | 1,49 | 1,86 |
| | 1,82 | 1,41 | 1,11 | 1,52 | 1,77 |
| | 1,26 | 1,22 | 1,62 | 1,51 | 1,32 |
| | 1,73 | 1,71 | 1,58 | 1,29 | 1,54 |
| | 1,55 | 1,56 | 1,28 | 1,38 | 1,19 |
| | Mean | 1,58 | 1,41 | 1,47 | 1,43 |
| SD | 0,19 | 0,19 | 0,24 | 0,08 | 0,25 |
| Hari ke-6 | 3,35 | 4,01 | 4,32 | 3,97 | 4,10 |
| | 3,88 | 3,54 | 3,90 | 4,22 | 3,72 |
| | 3,29 | 3,62 | 3,33 | 3,59 | 3,76 |
| | 3,91 | 3,10 | 3,52 | 3,26 | 3,20 |
| | 3,26 | 3,70 | 3,30 | 3,61 | 3,55 |
| | Mean | 3,35 | 3,59 | 3,67 | 3,73 |
| SD | 0,29 | 0,29 | 0,38 | 0,33 | 0,29 |
| Hari ke-9 | 4,55 | 5,21 | 5,16 | 4,85 | 4,71 |
| | 4,08 | 4,53 | 4,88 | 4,83 | 4,38 |
| | 4,32 | 4,57 | 4,72 | 4,41 | 4,27 |
| | 4,27 | 4,39 | 4,93 | 4,49 | 4,58 |
| | 4,39 | 4,99 | 4,87 | 4,36 | 5,11 |
| | Mean | 4,32 | 4,73 | 4,91 | 4,58 |
| SD | 0,15 | 0,30 | 0,14 | 0,20 | 0,29 |
| Hari ke-12 | 5,53 | 5,70 | 6,03 | 5,98 | 6,16 |
| | 6,11 | 5,92 | 5,49 | 5,81 | 5,49 |
| | 5,82 | 5,66 | 5,78 | 5,90 | 5,37 |
| | 5,65 | 5,38 | 6,09 | 5,38 | 5,99 |
| | 5,70 | 6,12 | 5,77 | 5,72 | 6,02 |
| | Mean | 5,76 | 5,75 | 5,83 | 5,75 |
| SD | 0,19 | 0,25 | 0,21 | 0,20 | 0,31 |
| Hari ke-15 | 6,94 | 6,57 | 7,02 | 6,18 | 7,14 |
| | 7,09 | 6,18 | 7,11 | 6,28 | 6,38 |
| | 6,90 | 6,48 | 6,59 | 6,75 | 6,39 |
| | 7,01 | 6,39 | 6,27 | 6,01 | 6,55 |
| | 6,89 | 6,90 | 6,65 | 6,90 | 6,73 |
| | Mean | 6,96 | 6,50 | 6,72 | 6,42 |
| SD | 0,07 | 0,23 | 0,30 | 0,34 | 0,28 |

| Ekstrak 25 % | Panjang rambut (mm) | | | | |
|-----------------|---------------------|------|------|------|------|
| | K1 | K2 | K3 | K4 | K5 |
| Hari ke-3 | 1,13 | 1,96 | 1,33 | 1,65 | 1,78 |
| | 1,26 | 1,70 | 1,72 | 1,37 | 1,28 |
| | 1,83 | 1,29 | 1,69 | 1,88 | 1,43 |
| | 1,74 | 1,78 | 1,73 | 1,29 | 1,47 |
| | 1,52 | 1,81 | 1,52 | 1,42 | 1,18 |
| Mean | 1,49 | 1,70 | 1,59 | 1,52 | 1,42 |
| SD | 0,26 | 0,22 | 0,15 | 0,21 | 0,20 |
| Hari ke-6 | 3,56 | 3,99 | 4,43 | 4,51 | 4,59 |
| | 4,28 | 4,11 | 4,18 | 4,06 | 4,01 |
| | 4,12 | 3,90 | 3,47 | 3,68 | 4,28 |
| | 4,16 | 3,68 | 3,44 | 3,59 | 3,88 |
| | 3,80 | 3,79 | 3,76 | 3,66 | 3,90 |
| Mean | 3,98 | 3,89 | 3,85 | 3,90 | 4,13 |
| SD | 0,26 | 0,15 | 0,39 | 0,34 | 0,26 |
| Hari ke-9 | 4,42 | 4,02 | 4,84 | 5,51 | 5,19 |
| | 4,59 | 4,89 | 4,77 | 5,37 | 4,70 |
| | 4,88 | 5,02 | 4,39 | 4,98 | 5,12 |
| | 4,70 | 4,82 | 5,08 | 4,90 | 4,98 |
| | 4,81 | 4,67 | 4,99 | 5,18 | 4,78 |
| Mean | 4,68 | 4,68 | 4,81 | 5,18 | 4,95 |
| SD | 0,16 | 0,35 | 0,23 | 0,22 | 0,18 |
| Hari ke-12 | 6,43 | 5,03 | 6,80 | 6,87 | 7,01 |
| | 6,02 | 5,70 | 6,77 | 6,86 | 6,88 |
| | 6,81 | 5,87 | 6,49 | 6,49 | 6,49 |
| | 6,42 | 5,95 | 6,58 | 6,78 | 6,49 |
| | 6,44 | 6,57 | 6,90 | 6,90 | 6,89 |
| Mean | 6,24 | 5,82 | 6,70 | 6,78 | 6,75 |
| SD | 0,25 | 0,49 | 0,15 | 0,15 | 0,21 |
| Hari ke-15 | 8,33 | 7,57 | 8,95 | 8,58 | 7,90 |
| | 8,50 | 8,19 | 8,50 | 8,19 | 8,09 |
| | 8,49 | 8,33 | 8,88 | 8,69 | 8,22 |
| | 8,44 | 8,40 | 8,40 | 8,58 | 8,37 |
| | 8,90 | 7,89 | 8,49 | 8,40 | 8,37 |
| Mean | 8,53 | 8,07 | 8,64 | 8,48 | 8,19 |
| SD | 0,19 | 0,30 | 0,22 | 0,17 | 0,17 |

| Ekstrak % | 37,5 | Panjang rambut (mm) | | | | |
|--------------|-------|---------------------|-------|-------|-------|----|
| | | K1 | K2 | K3 | K4 | K5 |
| Hari ke-3 | 1,76 | 2,18 | 1,91 | 2,63 | 1,98 | |
| | 1,78 | 2,01 | 1,49 | 2,01 | 1,80 | |
| | 1,70 | 1,88 | 1,86 | 2,11 | 1,90 | |
| | 1,88 | 1,78 | 1,89 | 2,19 | 2,16 | |
| | 1,90 | 1,79 | 1,90 | 1,98 | 2,03 | |
| Mean | 1,80 | 1,92 | 1,81 | 2,18 | 1,97 | |
| SD | 0,07 | 0,15 | 0,16 | 0,23 | 0,12 | |
| Hari ke-6 | 4,81 | 4,43 | 5,08 | 5,19 | 4,96 | |
| | 4,80 | 4,39 | 4,77 | 5,05 | 4,88 | |
| | 4,66 | 4,78 | 4,82 | 5,10 | 4,82 | |
| | 4,59 | 4,55 | 4,71 | 4,90 | 4,90 | |
| | 4,52 | 4,72 | 4,58 | 4,88 | 4,78 | |
| Mean | 4,67 | 4,57 | 4,79 | 5,02 | 4,86 | |
| SD | 0,11 | 0,15 | 0,16 | 0,11 | 0,06 | |
| Hari ke-9 | 7,17 | 7,95 | 8,06 | 7,91 | 7,59 | |
| | 7,55 | 7,60 | 7,69 | 7,78 | 7,90 | |
| | 7,90 | 7,82 | 7,69 | 7,49 | 7,80 | |
| | 7,38 | 7,71 | 7,47 | 7,38 | 7,38 | |
| | 7,40 | 7,44 | 7,71 | 7,60 | 7,59 | |
| Mean | 7,48 | 7,70 | 7,72 | 7,63 | 7,65 | |
| SD | 0,24 | 0,17 | 0,18 | 0,19 | 0,18 | |
| Hari ke-12 | 9,04 | 8,92 | 10,14 | 9,84 | 9,90 | |
| | 9,48 | 9,50 | 9,30 | 9,47 | 9,34 | |
| | 9,62 | 9,88 | 9,48 | 9,90 | 9,69 | |
| | 9,37 | 9,01 | 9,90 | 9,39 | 9,47 | |
| | 9,34 | 9,40 | 9,86 | 9,66 | 9,48 | |
| Mean | 9,37 | 9,34 | 9,73 | 9,65 | 9,57 | |
| SD | 0,19 | 0,34 | 0,30 | 0,19 | 0,19 | |
| Hari ke-15 | 10,16 | 11,04 | 12,17 | 11,33 | 11,52 | |
| | 11,29 | 11,70 | 11,90 | 11,53 | 11,52 | |
| | 11,19 | 11,20 | 11,69 | 11,72 | 11,63 | |
| | 10,99 | 10,88 | 11,75 | 11,39 | 11,72 | |
| | 10,87 | 11,75 | 10,89 | 11,56 | 11,63 | |
| Mean | 10,90 | 11,31 | 11,68 | 11,50 | 11,60 | |
| SD | 0,39 | 0,35 | 0,42 | 0,13 | 0,07 | |

| Kontrol - | Panjang rambut (mm) | | | | |
|------------|---------------------|------|------|------|------|
| | K1 | K2 | K3 | K4 | K5 |
| Hari ke-3 | 1,18 | 1,30 | 1,66 | 1,38 | 1,61 |
| | 1,29 | 1,22 | 1,23 | 1,42 | 1,55 |
| | 1,08 | 1,27 | 1,24 | 1,26 | 1,66 |
| | 1,40 | 1,11 | 1,56 | 1,06 | 1,49 |
| | 1,38 | 1,38 | 1,38 | 1,33 | 1,34 |
| Mean | 1,26 | 1,25 | 1,41 | 1,29 | 1,53 |
| SD | 0,12 | 0,08 | 0,17 | 0,12 | 0,11 |
| Hari ke-6 | 2,26 | 2,51 | 2,80 | 2,21 | 2,56 |
| | 2,30 | 2,18 | 2,48 | 2,33 | 2,43 |
| | 2,50 | 2,31 | 2,67 | 2,60 | 2,34 |
| | 2,44 | 2,11 | 2,74 | 2,45 | 2,77 |
| | 2,45 | 2,43 | 2,33 | 2,43 | 2,11 |
| Mean | 2,39 | 2,30 | 2,60 | 2,40 | 2,44 |
| SD | 0,09 | 0,14 | 0,17 | 0,12 | 0,22 |
| Hari ke-9 | 3,19 | 3,64 | 3,96 | 4,09 | 3,27 |
| | 3,43 | 3,44 | 3,57 | 3,77 | 3,65 |
| | 3,46 | 3,99 | 3,56 | 3,49 | 3,78 |
| | 3,33 | 3,78 | 3,67 | 3,88 | 3,99 |
| | 3,18 | 3,69 | 3,29 | 3,21 | 4,01 |
| Mean | 3,31 | 3,70 | 3,61 | 3,68 | 3,74 |
| SD | 0,11 | 0,17 | 0,21 | 0,30 | 0,27 |
| Hari ke-12 | 4,21 | 4,05 | 4,58 | 4,79 | 4,55 |
| | 4,04 | 4,29 | 4,39 | 4,58 | 4,20 |
| | 4,27 | 4,57 | 4,17 | 4,58 | 4,11 |
| | 4,70 | 4,44 | 4,04 | 4,38 | 4,03 |
| | 4,29 | 4,54 | 3,44 | 4,54 | 4,02 |
| Mean | 4,30 | 4,37 | 4,12 | 4,57 | 4,18 |
| SD | 0,21 | 0,19 | 0,38 | 0,13 | 0,19 |
| Hari ke-15 | 5,17 | 4,49 | 4,91 | 5,24 | 4,85 |
| | 5,04 | 4,99 | 5,20 | 4,88 | 5,02 |
| | 4,89 | 5,21 | 5,03 | 4,78 | 4,95 |
| | 4,84 | 5,34 | 5,11 | 4,93 | 4,56 |
| | 4,67 | 5,12 | 5,28 | 5,09 | 4,59 |
| Mean | 4,92 | 5,03 | 5,10 | 4,98 | 4,79 |
| SD | 0,17 | 0,29 | 0,12 | 0,16 | 0,18 |

| Kontrol + | Panjang rambut (mm) | | | | |
|------------|---------------------|-------|-------|-------|-------|
| | K1 | K2 | K3 | K4 | K5 |
| Hari ke-3 | 1,95 | 1,54 | 2,05 | 1,75 | 1,59 |
| | 1,90 | 1,97 | 1,89 | 1,48 | 1,67 |
| | 1,69 | 1,69 | 1,99 | 2,28 | 2,11 |
| | 2,20 | 1,64 | 1,78 | 1,76 | 1,90 |
| | 1,89 | 2,11 | 1,60 | 1,88 | 1,78 |
| Mean | 1,92 | 1,79 | 1,86 | 1,83 | 1,81 |
| SD | 0,16 | 0,21 | 0,15 | 0,26 | 0,18 |
| Hari ke-6 | 4,73 | 5,91 | 6,19 | 6,53 | 6,01 |
| | 4,90 | 5,44 | 5,89 | 5,88 | 5,77 |
| | 5,03 | 5,73 | 5,74 | 6,11 | 6,21 |
| | 4,99 | 5,34 | 5,90 | 5,99 | 6,07 |
| | 5,12 | 5,23 | 5,92 | 6,02 | 5,89 |
| Mean | 4,95 | 5,53 | 5,92 | 6,10 | 5,99 |
| SD | 0,13 | 0,25 | 0,14 | 0,22 | 0,15 |
| Hari ke-9 | 8,92 | 9,32 | 9,04 | 10,02 | 9,95 |
| | 9,50 | 9,78 | 9,58 | 9,33 | 9,55 |
| | 9,12 | 9,66 | 9,85 | 9,90 | 9,47 |
| | 9,23 | 9,56 | 9,44 | 9,67 | 9,38 |
| | 9,35 | 9,40 | 9,26 | 9,77 | 9,55 |
| Mean | 9,22 | 9,54 | 9,43 | 9,73 | 9,58 |
| SD | 0,19 | 0,16 | 0,27 | 0,23 | 0,19 |
| Hari ke-12 | 11,70 | 11,99 | 11,18 | 11,74 | 11,93 |
| | 11,37 | 11,01 | 10,90 | 11,55 | 11,02 |
| | 11,39 | 11,28 | 10,87 | 11,43 | 11,78 |
| | 11,47 | 11,33 | 11,67 | 11,54 | 11,73 |
| | 11,55 | 11,20 | 11,59 | 11,72 | 11,55 |
| Mean | 11,49 | 11,36 | 11,24 | 11,59 | 11,60 |
| SD | 0,12 | 0,33 | 0,33 | 0,11 | 0,31 |
| Hari ke-15 | 12,08 | 12,24 | 12,75 | 12,02 | 12,49 |
| | 12,67 | 12,38 | 12,59 | 12,89 | 12,29 |
| | 12,52 | 12,90 | 12,52 | 12,77 | 12,37 |
| | 12,82 | 12,55 | 12,65 | 12,55 | 12,56 |
| | 12,48 | 12,88 | 12,88 | 12,39 | 12,88 |
| Mean | 12,51 | 12,59 | 12,67 | 12,52 | 12,51 |
| SD | 0,24 | 0,26 | 0,12 | 0,30 | 0,20 |

NPar Tests

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|---------------|----|--------|----------------|---------|---------|
| Formula | 25 | 3,00 | 1,443 | 1 | 5 |
| Panjangrambut | 25 | 8,7900 | 2,90797 | 4,79 | 12,67 |

One-Sample Kolmogorov-Smirnov Test

| | | formula | panjangrambut |
|----------------------------------|----------------|---------|---------------|
| N | | 25 | 25 |
| Normal Parameters ^{a,b} | Mean | 3,00 | 8,7900 |
| | Std. Deviation | 1,443 | 2,90797 |
| | Absolute | ,156 | ,167 |
| Most Extreme Differences | Positive | ,156 | ,135 |
| | Negative | -,156 | -,167 |
| Kolmogorov-Smirnov Z | | ,779 | ,835 |
| Asymp. Sig. (2-tailed) | | ,579 | ,489 |

a. Test distribution is Normal.

b. Calculated from data.

Oneway**Descriptives**

panjangrambut

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|--------|----------------|------------|----------------------------------|-------------|-------|-------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 5 | 6,6460 | ,21019 | ,09400 | 6,3850 | 6,9070 | 6,42 | 6,96 |
| konsentrasi 25% | 5 | 8,3820 | ,24098 | ,10777 | 8,0828 | 8,6812 | 8,07 | 8,64 |
| konsentrasi 37,5% | 5 | 11,398 | ,31084 | ,13901 | 11,0120 | 11,7840 | 10,90 | 11,68 |
| kontrol - | 5 | 4,9640 | ,11760 | ,05259 | 4,8180 | 5,1100 | 4,79 | 5,10 |
| kontrol + | 5 | 12,560 | ,07000 | ,03130 | 12,4731 | 12,6469 | 12,51 | 12,67 |
| Total | 25 | 8,7900 | 2,90797 | ,58159 | 7,5897 | 9,9903 | 4,79 | 12,67 |

Test of Homogeneity of Variances

panjangrambut

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 2,581 | 4 | 20 | ,069 |

ANOVA

panjangrambut

| | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|----------|------|
| Between Groups | 202,080 | 4 | 50,520 | 1160,847 | ,000 |
| Within Groups | ,870 | 20 | ,044 | | |
| Total | 202,951 | 24 | | | |

Oneway

panjangrambut

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|---------|----------------|------------|----------------------------------|-------------|-------|-------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 5 | 6,6460 | ,21019 | ,09400 | 6,3850 | 6,9070 | 6,42 | 6,96 |
| konsentrasi 25% | 5 | 8,3820 | ,24098 | ,10777 | 8,0828 | 8,6812 | 8,07 | 8,64 |
| konsentrasi 37,5% | 5 | 11,3980 | ,31084 | ,13901 | 11,0120 | 11,7840 | 10,90 | 11,68 |
| kontrol - | 5 | 4,9640 | ,11760 | ,05259 | 4,8180 | 5,1100 | 4,79 | 5,10 |
| kontrol + | 5 | 12,5600 | ,07000 | ,03130 | 12,4731 | 12,6469 | 12,51 | 12,67 |
| Total | 25 | 8,7900 | 2,90797 | ,58159 | 7,5897 | 9,9903 | 4,79 | 12,67 |

Test of Homogeneity of Variances

panjangrambut

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 2,581 | 4 | 20 | ,069 |

ANOVA

panjangrambut

| | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|----------|------|
| Between Groups | 202,080 | 4 | 50,520 | 1160,847 | ,000 |
| Within Groups | ,870 | 20 | ,044 | | |
| Total | 202,951 | 24 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: panjangrambut

Tukey HSD

| (I) formula | (J) formula | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-------------------|-------------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| konsentrasi 12,5% | konsentrasi 25% | -1,73600 | ,13194 | ,000 | -2,1308 | -1,3412 |
| | konsentrasi 37,5% | -4,75200 | ,13194 | ,000 | -5,1468 | -4,3572 |
| | kontrol - | 1,68200 | ,13194 | ,000 | 1,2872 | 2,0768 |
| | kontrol + | -5,91400 | ,13194 | ,000 | -6,3088 | -5,5192 |
| | konsentrasi 12,5% | 1,73600 | ,13194 | ,000 | 1,3412 | 2,1308 |
| | konsentrasi 25% | -3,01600 | ,13194 | ,000 | -3,4108 | -2,6212 |
| | konsentrasi 37,5% | 3,41800 | ,13194 | ,000 | 3,0232 | 3,8128 |
| | kontrol - | 3,41800 | ,13194 | ,000 | -4,5728 | -3,7832 |
| | kontrol + | -4,17800 | ,13194 | ,000 | 4,3572 | 5,1468 |
| | konsentrasi 12,5% | 4,75200 | ,13194 | ,000 | 2,6212 | 3,4108 |
| | konsentrasi 25% | 3,01600 | ,13194 | ,000 | 6,0392 | 6,8288 |
| | konsentrasi 37,5% | 6,43400 | ,13194 | ,000 | -1,5568 | -7672 |
| kontrol - | kontrol - | -1,16200 | ,13194 | ,000 | -2,0768 | -1,2872 |
| | konsentrasi 25% | -1,68200 | ,13194 | ,000 | -3,8128 | -3,0232 |
| | konsentrasi 37,5% | -3,41800 | ,13194 | ,000 | -6,8288 | -6,0392 |
| | kontrol + | -6,43400 | ,13194 | ,000 | -7,9908 | -7,2012 |
| kontrol + | kontrol + | -7,59600 | ,13194 | ,000 | 5,5192 | 6,3088 |
| | konsentrasi 12,5% | 5,91400 | ,13194 | ,000 | 3,7832 | 4,5728 |
| | konsentrasi 25% | 4,17800 | ,13194 | ,000 | ,7672 | 1,5568 |
| | konsentrasi 37,5% | 1,16200 | ,13194 | ,000 | 7,2012 | 7,9908 |
| | kontrol - | 7,59600 | ,13194 | ,000 | | |

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

Homogeneous Subsets

panjangrambut

Tukey HSD^a

| Formula | N | Subset for alpha = 0.05 | | | | |
|-------------------|---|-------------------------|--------|--------|---------|---------|
| | | 1 | 2 | 3 | 4 | 5 |
| kontrol - | 5 | 4,9640 | | | | |
| konsentrasi 12,5% | 5 | | 6,6460 | | | |
| konsentrasi 25% | 5 | | | 8,3820 | | |
| konsentrasi 37,5% | 5 | | | | 11,3980 | |
| kontrol + | 5 | | | | | 12,5600 |
| Sig. | | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

Lampiran 15. Hasil bobot rambut

| Kelinci | Bobot rambut (mg) | | | | |
|---------|-------------------|-------|--------|-------|--------|
| | 12,5% | 25% | 37,5% | - | + |
| 1 | 69 | 88 | 105 | 52 | 111 |
| 2 | 70 | 90 | 99 | 49 | 125 |
| 3 | 62 | 83 | 107 | 43 | 120 |
| 4 | 67 | 79 | 95 | 42 | 144 |
| 5 | 59 | 85 | 101 | 47 | 136 |
| Mean | 65,40 | 85,00 | 101,40 | 46,60 | 127,20 |
| SD | 4,22 | 3,84 | 4,27 | 3,72 | 11,65 |

NPar Tests

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|-------------|----|---------|----------------|---------|---------|
| Formula | 25 | 3,0000 | 1,44338 | 1,00 | 5,00 |
| Bobotrambut | 25 | 85,1200 | 29,25793 | 42,00 | 144,00 |

One-Sample Kolmogorov-Smirnov Test

| | | formula | bobotrambut |
|----------------------------------|----------------|---------|-------------|
| N | | 25 | 25 |
| Normal Parameters ^{a,b} | Mean | 3,0000 | 85,1200 |
| | Std. Deviation | 1,44338 | 29,25793 |
| Most Extreme Differences | Absolute | ,156 | ,097 |
| | Positive | ,156 | ,097 |
| | Negative | -,156 | -,070 |
| Kolmogorov-Smirnov Z | | ,779 | ,487 |
| Asymp. Sig. (2-tailed) | | ,579 | ,972 |

a. Test distribution is Normal.

b. Calculated from data.

Oneway

Descriptives

bobotrambut

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|----------|----------------|------------|----------------------------------|-------------|--------|--------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 5 | 65,4000 | 4,72229 | 2,11187 | 59,5365 | 71,2635 | 59,00 | 70,00 |
| konsentrasi 25% | 5 | 85,0000 | 4,30116 | 1,92354 | 79,6594 | 90,3406 | 79,00 | 90,00 |
| konsentrasi 37,5 | 5 | 101,4000 | 4,77493 | 2,13542 | 95,4711 | 107,3289 | 95,00 | 107,00 |
| kontrol - | 5 | 46,6000 | 4,15933 | 1,86011 | 41,4355 | 51,7645 | 42,00 | 52,00 |
| kontrol + | 5 | 127,2000 | 13,02690 | 5,82580 | 111,0250 | 143,3750 | 111,00 | 144,00 |
| Total | 25 | 85,1200 | 29,25793 | 5,85159 | 73,0429 | 97,1971 | 42,00 | 144,00 |

Test of Homogeneity of Variances

bobotrambut

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 3,989 | 4 | 20 | ,015 |

ANOVA

bobotrambut

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 19542,240 | 4 | 4885,560 | 97,477 | ,000 |
| Within Groups | 1002,400 | 20 | 50,120 | | |
| Total | 20544,640 | 24 | | | |

Oneway**Descriptives**

bobotrambut

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Min | Max |
|-------------------|----|----------|----------------|------------|----------------------------------|-------------|--------|--------|
| | | | | | Lower Bound | Upper Bound | | |
| konsentrasi 12,5% | 5 | 65,4000 | 4,72229 | 2,11187 | 59,5365 | 71,2635 | 59,00 | 70,00 |
| konsentrasi 25% | 5 | 85,0000 | 4,30116 | 1,92354 | 79,6594 | 90,3406 | 79,00 | 90,00 |
| konsentrasi 37,5 | 5 | 101,4000 | 4,77493 | 2,13542 | 95,4711 | 107,3289 | 95,00 | 107,00 |
| kontrol - | 5 | 46,6000 | 4,15933 | 1,86011 | 41,4355 | 51,7645 | 42,00 | 52,00 |
| kontrol + | 5 | 127,2000 | 13,02690 | 5,82580 | 111,0250 | 143,3750 | 111,00 | 144,00 |
| Total | 25 | 85,1200 | 29,25793 | 5,85159 | 73,0429 | 97,1971 | 42,00 | 144,00 |

Test of Homogeneity of Variances

bobotrambut

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 3,989 | 4 | 20 | ,015 |

ANOVA

bobotrambut

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 19542,240 | 4 | 4885,560 | 97,477 | ,000 |
| Within Groups | 1002,400 | 20 | 50,120 | | |
| Total | 20544,640 | 24 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: bobotrambut

Dunnett T3

| (I) formula | (J) formula | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|-------------------|-------------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| konsentrasi 12,5% | konsentrasi 25% | -19,60000 | 2,85657 | ,001 | -30,0799 | -9,1201 |
| | konsentrasi 37,5 | -36,00000 | 3,00333 | ,000 | -46,9929 | -25,0071 |
| | kontrol - | 18,80000 | 2,81425 | ,001 | 8,4550 | 29,1450 |
| | kontrol + | -61,80000 | 6,19677 | ,001 | -88,4402 | -35,1598 |
| | konsentrasi 12,5% | 19,60000 | 2,85657 | ,001 | 9,1201 | 30,0799 |
| | konsentrasi 37,5 | -16,40000 | 2,87402 | ,004 | -26,9502 | -5,8498 |
| | kontrol - | 38,40000 | 2,67582 | ,000 | 28,6033 | 48,1967 |
| | kontrol + | -42,20000 | 6,13514 | ,008 | -68,9858 | -15,4142 |
| | konsentrasi 12,5% | 36,00000 | 3,00333 | ,000 | 25,0071 | 46,9929 |
| | konsentrasi 25% | 16,40000 | 2,87402 | ,004 | 5,8498 | 26,9502 |
| konsentrasi 37,5 | kontrol - | 54,80000 | 2,83196 | ,000 | 44,3818 | 65,2182 |
| | kontrol + | -25,80000 | 6,20484 | ,056 | -52,4233 | ,8233 |
| | konsentrasi 12,5% | -18,80000 | 2,81425 | ,001 | -29,1450 | -8,4550 |
| | konsentrasi 25% | -38,40000 | 2,67582 | ,000 | -48,1967 | -28,6033 |
| kontrol - | konsentrasi 37,5 | -54,80000 | 2,83196 | ,000 | -65,2182 | -44,3818 |
| | kontrol + | -80,60000 | 6,11555 | ,000 | -107,4385 | -53,7615 |
| | konsentrasi 12,5% | 61,80000 | 6,19677 | ,001 | 35,1598 | 88,4402 |
| | konsentrasi 25% | 42,20000 | 6,13514 | ,008 | 15,4142 | 68,9858 |
| | konsentrasi 37,5 | 25,80000 | 6,20484 | ,056 | -,8233 | 52,4233 |
| kontrol + | kontrol - | 80,60000 | 6,11555 | ,000 | 53,7615 | 107,4385 |

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