

L

A

M

P


I

R

A

N

Lampiran 1. Determinasi tanaman daun saliera


**UNIVERSITAS
SETIA BUDI**

UPT-LABORATORIUM
Jl. Letjen Sutoyo, Mojisongo-Solo 57127 Telp. 0271-852518, Fax. 0271-853275

Nomor : 194/DET/UPT-LAB/21.03.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Mega Suryaningrum
NIM : 23175124A
Prodi : S1 Farmasi, Universitas Setia Budi, Surakarta
Nama Sampel : Tembelakan/ *Lantana camara* L.

HASIL DETERMINASI TUMBUHAN

Klasifikasi
Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida/Dicotyledonae
Ordo : Lamiales
Famili : Verbenaceae
Genus : *Lantana*
Species : *Lantana camara* L.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :
1b - 2b - 3b - 4b - 6b - 7b - 9b - 10b - 11b - 12b - 13b - 14b - 16a - 239b - 243b - 244b
- 248b - 249b - 250a - 251b - 253b, familia 109. Verbenaceae. 1b - 2b - 3b - 4b - 5b.
Lantana. 1a. *Lantana camara* L.

Deskripsi:

- Habitus : Perak bercabang banyak, tinggi 0,5 – 5 m.
Akar : Sistem akar tunggang.
Batang : Segiempat, yang muda penuh dengan rambut, kelenjar kecil dan selalu dengan duri tempel (kadang-kadang kecil).
Daun : Daun bertangkai sangat panjang, bulat telur dengan pangkal yang tumpul dan ujung yang runcing, bergigi bergerigi, dari sisi atas berbulu kasar, dari sisi bawah berbulu panjang, panjang 5,1 – 5,3 cm, lebar 2,6 – 3,4 cm.
Bunga : Bulir pendek, di ketiak, tunggal, bertangkai. Daun pelindung bulat telur jorong, panjang lk 0,5 cm. Kelopak berbentuk tabung lonceng, berlekuk tak dalam, tinggi lk 2 mm. Tabung mahkota membengkok, panjang lk 1 cm; tepian bertaji 4 – 5, taji tidak sama besarnya, oranye, merah muda, merah atau putih, sering bergantian warna. Benang sari 4, panjang 2.
Buah : Buah batu saling berdekatan, bentuk bulat telur.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 21 Maret 2021
Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati, M.Sc.

Lampiran 2. Surat keterangan Ethical Clearance

4/6/2021

KEPK-RJSDM

HEALTH RESEARCH ETHICS COMMITTEE
KOMISI ETIK PENELITIAN KESEHATAN

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 357 / III / HREC / 2021

The Health Research Ethics Committee Dr. Moewardi
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

after reviewing the proposal design, herewith to certify
setelah meneliti rancangan penelitian yang diusulkan, dengan ini menyatakan

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

UJI EFEK ANTIINFLAMASI SALEP EKSTRAK DAUN SALIARA (Lantana camara L.) TERHADAP TIKUS PUTIH (Rattus novergicus)

Principal investigator
Peneliti Utama : Mega Suryaningrum
23175124A

Location of research
Lokasi Tempat Penelitian : Laboratorium fitokimia, Laboratorium Formulasi dan
Teknologi dan Laboratorium Farmakologi Fakultas
: Farmasi Universitas Setia Budi Surakarta

Is ethically approved
Dinyatakan layak etik

Issued on : 06 April 2021

Chairman
Ketua

Dr. Wahyu Dwi Atmoko, Sp.F
19770224 201001 1 004

<https://komisi-etika.rsudmoewardi.com/kank/ethicalclearance/23175124A-046A>

1/1

Lampiran 3. Foto daun saliara, serbuk, dan ekstrak



Lampiran 4. Perhitungan rendemen serbuk daun saliera

Bobot kering (gram)	Bobot serbuk (gram)	Rendemen (% b/b)
1400	1200	85,7

Perhitungan rendemen :

$$\text{Rendemen \%} = \frac{\text{bobot serbuk}}{\text{bobot kering}} \times 100\%$$

$$\text{Rendemen \%} = \frac{1200}{1400} \times 100 = 85,7\%$$

Lampiran 5. Perhitungan rendemen ekstrak daun saliera

Bobot serbuk daun saliera (gram)	Bobot botol kaca kosong (gram)	Bobot botol kaca + ekstrak (gram)	Bobot ekstrak (gram)	Rendemen (%)
500	225,57	296,15	70,58	14,116

Perhitungan rendemen :

$$\text{Rendemen \%} = \frac{\text{Bobot ekstrak}}{\text{Bobot serbuk}} \times 100\%$$

$$\text{Rendemen \%} = \frac{70,58}{500} \times 100\% = 14,116\%$$

Lampiran 6. Hasil identifikasi kandungan kimia ekstrak daun saliera

Flavonoid



Saponin



Tanin



Lampiran 7. Foto alat



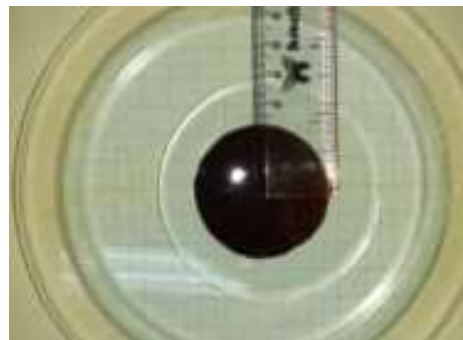
Evaporator



Moisture Balance



Alat uji pH



Alat uji daya sebar



Alat uji viskositas



Alat uji daya lekat

Lampiran 8. Kelompok tikus 6 jam setelah diinduksi karagenan 1%



Kontrol Negatif



Kontrol Positif



Formula 1



Formula 2



Formula 3

Lampiran 9. Kelompok tikus 6 jam setelah diberi perlakuan



Lampiran 10. Volume udem kaki tikus

Formula	Replikasi	Sebelum	Setelah	t30	t60	t120	t180	t240	t300	t360
Kontrol (-)	1	0,010	0,012	0,012	0,014	0,016	0,017	0,018	0,017	0,016
	2	0,010	0,012	0,012	0,014	0,016	0,017	0,018	0,017	0,016
	3	0,011	0,012	0,013	0,015	0,017	0,017	0,018	0,017	0,015
	Rata-rata	0,010	0,012	0,012	0,014	0,016	0,017	0,018	0,017	0,015
F I 15%	1	0,010	0,012	0,012	0,014	0,016	0,018	0,018	0,018	0,016
	2	0,011	0,012	0,013	0,014	0,016	0,018	0,018	0,016	0,015
	3	0,010	0,013	0,015	0,015	0,017	0,017	0,018	0,016	0,015
	Rata-rata	0,010	0,012	0,013	0,014	0,016	0,017	0,018	0,016	0,015
F II 30%	1	0,010	0,012	0,015	0,016	0,017	0,017	0,018	0,018	0,017
	2	0,010	0,012	0,015	0,017	0,017	0,018	0,018	0,018	0,017
	3	0,011	0,013	0,014	0,016	0,017	0,018	0,018	0,017	0,016
	Rata-rata	0,010	0,012	0,014	0,016	0,017	0,017	0,018	0,017	0,016
F III 60%	1	0,010	0,012	0,013	0,014	0,016	0,018	0,017	0,016	0,015
	2	0,010	0,013	0,014	0,014	0,017	0,017	0,016	0,015	0,014
	3	0,011	0,013	0,014	0,014	0,016	0,017	0,016	0,015	0,015
	Rata-rata	0,010	0,012	0,013	0,014	0,016	0,017	0,016	0,015	0,014
Kontrol (+)	1	0,010	0,013	0,013	0,015	0,016	0,018	0,017	0,018	0,017
	2	0,010	0,012	0,013	0,015	0,016	0,018	0,017	0,017	0,016
	3	0,011	0,012	0,013	0,014	0,017	0,017	0,016	0,016	0,016
	Rata-rata	0,010	0,012	0,013	0,014	0,016	0,017	0,016	0,017	0,016

Lampiran 11. Persen radang telapak kaki tikus

Perhitungan persentase udem kaki tikus

$$\text{Rumus : \% kenaikan Volume Udem (KVU)} = \frac{V_t - V_0}{V_0} \times 100\%$$

Formula	No	Sebelum	Setelah	t30	t60	t120	t180	t240	t300	t360
Kontrol (-)	1	0	20	60	80	80	80	80	80	70
	2	0	20	60	70	80	80	80	80	70
	3	0	27,27	45,45	54,54	63,63	63,63	63,63	54,54	54,54
		Rata-rata		22,42	55,15	68,18	74,54	74,54	74,54	71,51
F.I 15%	1	0	20	20	40	60	80	80	80	60
	2	0	9,09	18,18	27,27	45,45	63,63	63,63	45,45	36,36
	3	0	30	50	50	70	70	80	60	50
		Rata-rata		19,69	29,39	37,42	58,48	71,21	74,54	61,81
F.II 30%	1	0	20	50	60	70	70	80	80	70
	2	0	20	50	70	70	80	80	80	70
	3	0	18,18	27,27	45,45	54,54	63,63	63,63	54,54	45,45
		Rata-rata		19,39	42,42	58,48	64,84	71,21	74,54	71,51
F.III 60%	1	0	20	30	40	60	80	70	60	50
	2	0	30	40	40	70	70	60	50	40
	3	0	18,18	27,27	27,27	45,45	54,54	45,45	36,36	36,36
		Rata-rata		22,72	32,42	35,75	58,48	68,18	58,48	48,78
Kontrol (+)	1	0	30	30	50	60	80	70	80	70
	2	0	20	30	50	60	80	70	70	60
	3	0	9,09	18,18	27,27	54,54	54,54	45,45	45,45	45,45
		Rata-rata		19,69	26,06	42,42	58,18	71,51	61,81	65,15

Lampiran 12. Rata-rata AUC dan % daya antiinflamasi

Formula	Replikasi	Total AUC(ml/jam)	%DAI
Kontrol (-)	1	0,0445	-
	2	0,0437	-
	3	0,0369	-
	Rata-rata	0,0417	-
Kontrol (+)	1	0,0377	15,28%
	2	0,0362	17,16%
	3	0,0277	24,93%
	Rata-rata	0,0338	18,94%
FI 15%	1	0,037	16,85%
	2	0,0292	33,18%
	3	0,0367	0,54%
	Rata-rata	0,0343	17,74%
FII 30%	1	0,0405	8,98%
	2	0,0422	3,43%
	3	0,0337	8,67%
	Rata-rata	0,0388	6,95%
FIII 60%	1	0,034	23,59%
	2	0,032	26,77%
	3	0,0257	30,35%
	Rata-rata	0,0305	26,85%

Lampiran 13. Perhitungan rata-rata AUC

Perhitungan rata-rata AUC

$$AUC_{n-1}^n = \frac{V_{tn-1} + V_{tn}}{2} (tn - tn-1)$$

Keterangan :

V_{tn-1} = Rata-rata volume udem pada $tn-1$

V_{tn} = Rata-rata volume udem pada tn

Kontrol Negatif

➤ Tikus 1

$$AUC_{0,5}^0 = \frac{0,006 + 0}{2} (0,5 - 0) = 0,0015$$

$$AUC_{0,5}^1 = \frac{0,008 + 0,006}{2} (1 - 0,5) = 0,0035$$

$$AUC_{1}^2 = \frac{0,008 + 0,008}{2} (2 - 1) = 0,008$$

$$AUC_{2}^3 = \frac{0,008 + 0,008}{2} (3 - 2) = 0,008$$

$$AUC_{3}^4 = \frac{0,008 + 0,008}{2} (4 - 3) = 0,008$$

$$AUC_{4}^5 = \frac{0,008 + 0,008}{2} (5 - 4) = 0,008$$

$$AUC_{5}^6 = \frac{0,007 + 0,008}{2} (6 - 5) = 0,0075$$

TOTAL AUC = 0,0445

➤ Tikus 2

$$AUC_{0,5}^0 = \frac{0,006 + 0}{2} (0,5 - 0) = 0,0015$$

$$AUC_{0,5}^1 = \frac{0,007 + 0,006}{2} (1 - 0,5) = 0,0032$$

$$AUC_{1}^2 = \frac{0,008 + 0,007}{2} (2 - 1) = 0,0075$$

$$AUC_{2}^3 = \frac{0,008 + 0,008}{2} (3 - 2) = 0,008$$

$$AUC_{3}^4 = \frac{0,008 + 0,008}{2} (4 - 3) = 0,008$$

$$AUC_{4}^5 = \frac{0,008 + 0,008}{2} (5 - 4) = 0,008$$

$$AUC_{5}^6 = \frac{0,007 + 0,008}{2} (6 - 5) = 0,0075$$

TOTAL AUC = 0,0437

➤ Tikus 3

$$\begin{aligned}AUC_{0}^{0,5} &= \frac{0,005 + 0}{2} (0,5 - 0) = 0,0012 \\AUC_{0,5}^1 &= \frac{0,006 + 0,005}{2} (1 - 0,5) = 0,0027 \\AUC_{1}^2 &= \frac{0,007 + 0,006}{2} (2 - 1) = 0,0065 \\AUC_{2}^3 &= \frac{0,007 + 0,007}{2} (3 - 2) = 0,007 \\AUC_{3}^4 &= \frac{0,007 + 0,007}{2} (4 - 3) = 0,007 \\AUC_{4}^5 &= \frac{0,006 + 0,007}{2} (5 - 4) = 0,0065 \\AUC_{5}^6 &= \frac{0,006 + 0,006}{2} (6 - 5) = 0,006\end{aligned}$$

TOTAL AUC = 0,0369

Formula 1

➤ Tikus 1

$$\begin{aligned}AUC_{0}^{0,5} &= \frac{0,002 + 0}{2} (0,5 - 0) = 0,0005 \\AUC_{0,5}^1 &= \frac{0,004 + 0,002}{2} (1 - 0,5) = 0,0015 \\AUC_{1}^2 &= \frac{0,006 + 0,004}{2} (2 - 1) = 0,005 \\AUC_{2}^3 &= \frac{0,008 + 0,006}{2} (3 - 2) = 0,007 \\AUC_{3}^4 &= \frac{0,008 + 0,008}{2} (4 - 3) = 0,008 \\AUC_{4}^5 &= \frac{0,008 + 0,008}{2} (5 - 4) = 0,008 \\AUC_{5}^6 &= \frac{0,006 + 0,008}{2} (6 - 5) = 0,007\end{aligned}$$

TOTAL AUC = 0,037

➤ Tikus 2

$$\begin{aligned}AUC_{0}^{0,5} &= \frac{0,002 + 0}{2} (0,5 - 0) = 0,0005 \\AUC_{0,5}^1 &= \frac{0,003 + 0,002}{2} (1 - 0,5) = 0,00125 \\AUC_{1}^2 &= \frac{0,005 + 0,003}{2} (2 - 1) = 0,004 \\AUC_{2}^3 &= \frac{0,007 + 0,005}{2} (3 - 2) = 0,006 \\AUC_{3}^4 &= \frac{0,007 + 0,007}{2} (4 - 3) = 0,007 \\AUC_{4}^5 &= \frac{0,005 + 0,007}{2} (5 - 4) = 0,006\end{aligned}$$

$$AUC \frac{6}{5} = \frac{0,004 + 0,005}{2} (6 - 5) = 0,0045$$

TOTAL AUC = 0,0292

➤ Tikus 3

$$AUC \frac{0,5}{0} = \frac{0,005 + 0}{2} (0,5 - 0) = 0,00125$$

$$AUC \frac{1}{0,5} = \frac{0,005 + 0,005}{2} (1 - 0,5) = 0,0025$$

$$AUC \frac{2}{1} = \frac{0,007 + 0,005}{2} (2 - 1) = 0,006$$

$$AUC \frac{3}{2} = \frac{0,007 + 0,007}{2} (3 - 2) = 0,007$$

$$AUC \frac{4}{3} = \frac{0,008 + 0,007}{2} (4 - 3) = 0,0075$$

$$AUC \frac{5}{4} = \frac{0,006 + 0,008}{2} (5 - 4) = 0,007$$

$$AUC \frac{6}{5} = \frac{0,005 + 0,006}{2} (6 - 5) = 0,0055$$

TOTAL AUC = 0,0367

Formula 2

➤ Tikus 1

$$AUC \frac{0,5}{0} = \frac{0,005 + 0}{2} (0,5 - 0) = 0,00125$$

$$AUC \frac{1}{0,5} = \frac{0,006 + 0,005}{2} (1 - 0,5) = 0,00275$$

$$AUC \frac{2}{1} = \frac{0,007 + 0,006}{2} (2 - 1) = 0,0065$$

$$AUC \frac{3}{2} = \frac{0,007 + 0,007}{2} (3 - 2) = 0,007$$

$$AUC \frac{4}{3} = \frac{0,008 + 0,007}{2} (4 - 3) = 0,0075$$

$$AUC \frac{5}{4} = \frac{0,008 + 0,008}{2} (5 - 4) = 0,008$$

$$AUC \frac{6}{5} = \frac{0,007 + 0,008}{2} (6 - 5) = 0,0075$$

TOTAL AUC = 0,0405

➤ Tikus 2

$$AUC \frac{0,5}{0} = \frac{0,005 + 0}{2} (0,5 - 0) = 0,00125$$

$$AUC \frac{1}{0,5} = \frac{0,007 + 0,005}{2} (1 - 0,5) = 0,003$$

$$AUC \frac{2}{1} = \frac{0,007 + 0,007}{2} (2 - 1) = 0,007$$

$$AUC \frac{3}{2} = \frac{0,008 + 0,007}{2} (3 - 2) = 0,0075$$

$$AUC \frac{4}{3} = \frac{0,008 + 0,008}{2} (4 - 3) = 0,008$$

$$AUC \frac{5}{4} = \frac{0,008 + 0,008}{2} (5 - 4) = 0,008$$

$$AUC \frac{6}{5} = \frac{0,007 + 0,008}{2} (6 - 5) = 0,0075$$

TOTAL AUC = 0,0422

➤ Tikus 3

$$AUC \frac{0,5}{0} = \frac{0,003 + 0}{2} (0,5 - 0) = 0,00075$$

$$AUC \frac{1}{0,5} = \frac{0,005 + 0,003}{2} (1 - 0,5) = 0,002$$

$$AUC \frac{2}{1} = \frac{0,006 + 0,005}{2} (2 - 1) = 0,0055$$

$$AUC \frac{3}{2} = \frac{0,007 + 0,006}{2} (3 - 2) = 0,0065$$

$$AUC \frac{4}{3} = \frac{0,007 + 0,007}{2} (4 - 3) = 0,007$$

$$AUC \frac{5}{4} = \frac{0,006 + 0,007}{2} (5 - 4) = 0,0065$$

$$AUC \frac{6}{5} = \frac{0,005 + 0,006}{2} (6 - 5) = 0,0055$$

TOTAL AUC = 0,0337

Formula 3

Tikus 1

$$AUC \frac{0,5}{0} = \frac{0,003 + 0}{2} (0,5 - 0) = 0,00075$$

$$AUC \frac{1}{0,5} = \frac{0,004 + 0,003}{2} (1 - 0,5) = 0,00175$$

$$AUC \frac{2}{1} = \frac{0,006 + 0,004}{2} (2 - 1) = 0,005$$

$$AUC \frac{3}{2} = \frac{0,008 + 0,006}{2} (3 - 2) = 0,007$$

$$AUC \frac{4}{3} = \frac{0,007 + 0,008}{2} (4 - 3) = 0,0075$$

$$AUC \frac{5}{4} = \frac{0,006 + 0,007}{2} (5 - 4) = 0,0065$$

$$AUC \frac{6}{5} = \frac{0,005 + 0,006}{2} (6 - 5) = 0,0055$$

TOTAL AUC = 0,034

➤ Tikus 2

$$AUC_{0}^{0,5} = \frac{0,004 + 0}{2} (0,5 - 0) = 0,001$$

$$AUC_{0,5}^1 = \frac{0,004 + 0,004}{2} (1 - 0,5) = 0,002$$

$$AUC_{1}^2 = \frac{0,007 + 0,004}{2} (2 - 1) = 0,0055$$

$$AUC_{2}^3 = \frac{0,007 + 0,007}{2} (3 - 2) = 0,007$$

$$AUC_{3}^4 = \frac{0,006 + 0,007}{2} (4 - 3) = 0,0065$$

$$AUC_{4}^5 = \frac{0,005 + 0,006}{2} (5 - 4) = 0,0055$$

$$AUC_{5}^6 = \frac{0,004 + 0,005}{2} (6 - 5) = 0,0045$$

TOTAL AUC = 0,032

➤ Tikus 3

$$AUC_{0}^{0,5} = \frac{0,003 + 0}{2} (0,5 - 0) = 0,00075$$

$$AUC_{0,5}^1 = \frac{0,003 + 0,003}{2} (1 - 0,5) = 0,0015$$

$$AUC_{1}^2 = \frac{0,005 + 0,003}{2} (2 - 1) = 0,004$$

$$AUC_{2}^3 = \frac{0,006 + 0,005}{2} (3 - 2) = 0,0055$$

$$AUC_{3}^4 = \frac{0,005 + 0,006}{2} (4 - 3) = 0,0055$$

$$AUC_{4}^5 = \frac{0,004 + 0,005}{2} (5 - 4) = 0,0045$$

$$AUC_{5}^6 = \frac{0,004 + 0,004}{2} (6 - 5) = 0,004$$

TOTAL AUC = 0,0257

Kontrol Positif

➤ Tikus 1

$$AUC_{0}^{0,5} = \frac{0,003 + 0}{2} (0,5 - 0) = 0,00075$$

$$AUC_{0,5}^1 = \frac{0,005 + 0,003}{2} (1 - 0,5) = 0,002$$

$$AUC_{1}^2 = \frac{0,006 + 0,005}{2} (2 - 1) = 0,0055$$

$$AUC_{2}^3 = \frac{0,008 + 0,006}{2} (3 - 2) = 0,007$$

$$AUC_{3}^4 = \frac{0,007 + 0,008}{2} (4 - 3) = 0,0075$$

$$AUC_{4}^5 = \frac{0,008 + 0,007}{2} (5 - 4) = 0,0075$$

$$AUC \frac{6}{5} = \frac{0,007 + 0,008}{2} (6 - 5) = 0,0075$$

TOTAL AUC = 0,0377

➤ Tikus 2

$$AUC \frac{0,5}{0} = \frac{0,003 + 0}{2} (0,5 - 0) = 0,00075$$

$$AUC \frac{1}{0,5} = \frac{0,005 + 0,003}{2} (1 - 0,5) = 0,002$$

$$AUC \frac{2}{1} = \frac{0,006 + 0,005}{2} (2 - 1) = 0,0055$$

$$AUC \frac{3}{2} = \frac{0,008 + 0,006}{2} (3 - 2) = 0,007$$

$$AUC \frac{4}{3} = \frac{0,007 + 0,008}{2} (4 - 3) = 0,0075$$

$$AUC \frac{5}{4} = \frac{0,007 + 0,007}{2} (5 - 4) = 0,007$$

$$AUC \frac{6}{5} = \frac{0,006 + 0,007}{2} (6 - 5) = 0,0065$$

TOTAL AUC = 0,0362

➤ Tikus 3

$$AUC \frac{0,5}{0} = \frac{0,002 + 0}{2} (0,5 - 0) = 0,0005$$

$$AUC \frac{1}{0,5} = \frac{0,003 + 0,002}{2} (1 - 0,5) = 0,00125$$

$$AUC \frac{2}{1} = \frac{0,006 + 0,003}{2} (2 - 1) = 0,0045$$

$$AUC \frac{3}{2} = \frac{0,006 + 0,006}{2} (3 - 2) = 0,006$$

$$AUC \frac{4}{3} = \frac{0,005 + 0,006}{2} (4 - 3) = 0,0055$$

$$AUC \frac{5}{4} = \frac{0,005 + 0,005}{2} (5 - 4) = 0,005$$

$$AUC \frac{6}{5} = \frac{0,005 + 0,005}{2} (6 - 5) = 0,005$$

TOTAL AUC = 0,0277

Lampiran 14. Perhitungan % daya antiinflamasi

Perhitungan daya antiinflamasi

$$\%DAI = \frac{AUCk - AUCp}{AUCk} \times 100\%$$

Keterangan :

AUCk = Kurva volume edema rata-rata terhadap waktu untuk kontrol negatif

AUCp = kurva volume edema rata-rata terhadap waktu untuk kelompok perlakuan tiap tikus

Contoh perhitungan :

$$\% \text{ daya antiinflamasi kontrol positif tikus 1} = \frac{0,0445 - 0,0377}{0,0445} \times 100 \% = 15,28 \%$$

$$\% \text{ daya antiinflamasi kontrol positif tikus 2} = \frac{0,0437 - 0,0362}{0,0437} \times 100 \% = 17,16 \%$$

$$\% \text{ daya antiinflamasi kontrol positif tikus 3} = \frac{0,0369 - 0,0277}{0,0369} \times 100 \% = 24,93 \%$$

$$\% \text{ daya antiinflamasi formula 1 15\% tikus 1} = \frac{0,0445 - 0,037}{0,0445} \times 100 \% = 16,85 \%$$

$$\% \text{ daya antiinflamasi formula 1 15\% tikus 2} = \frac{0,0437 - 0,0292}{0,0437} \times 100 \% = 33,18 \%$$

$$\% \text{ daya antiinflamasi formula 1 15\% tikus 3} = \frac{0,0369 - 0,0367}{0,0369} \times 100 \% = 0,54 \%$$

$$\% \text{ daya antiinflamasi formula 2 30\% tikus 1} = \frac{0,0445 - 0,0405}{0,0445} \times 100 \% = 8,98 \%$$

$$\% \text{ daya antiinflamasi formula 2 30\% tikus 2} = \frac{0,0437 - 0,0422}{0,0437} \times 100 \% = 3,43 \%$$

$$\% \text{ daya antiinflamasi formula 2 30\% tikus 3} = \frac{0,0369 - 0,0337}{0,0369} \times 100 \% = 8,67 \%$$

$$\% \text{ daya antiinflamasi formula 3 60\% tikus 1} = \frac{0,0445 - 0,034}{0,0445} \times 100 \% = 23,59 \%$$

$$\% \text{ daya antiinflamasi formula 3 60\% tikus 2} = \frac{0,0437 - 0,032}{0,0437} \times 100 \% = 26,77 \%$$

$$\% \text{ daya antiinflamasi formula 3 60\% tikus 3} = \frac{0,0369 - 0,0257}{0,0369} \times 100 \% = 30,35 \%$$

Perhitungan rata-rata per kelompok perlakuan tikus :

$$\% \text{ daya antiinflamasi rata-rata kontrol positif} = \frac{0,0417 - 0,0338}{0,0417} \times 100 \% = 18,94 \%$$

$$\% \text{ daya antiinflamasi rata-rata formula 1 15\%} = \frac{0,0417 - 0,0343}{0,0417} \times 100 \% = 17,74 \%$$

$$\% \text{ daya antiinflamasi rata-rata formula 2 30\%} = \frac{0,0417 - 0,0388}{0,0417} \times 100 \% = 6,95 \%$$

$$\% \text{ daya antiinflamasi rata-rata formula 3 60\%} = \frac{0,0417 - 0,0305}{0,0417} \times 100 \% = 26,85 \%$$

Lampiran 15. Hasil statistik uji viskositas

Shapiro-Wilk

Case Processing Summary

Formula	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Viskositas						
Kontrol negatif	12	100,0%	0	0,0%	12	100,0%
Formula 1	12	100,0%	0	0,0%	12	100,0%
Formula 2	12	100,0%	0	0,0%	12	100,0%
Formula 3	12	100,0%	0	0,0%	12	100,0%

Descriptives

Formula	Statistic	Std. Error	
Viskositas	Mean	245,8333	
	95% Confidence Interval for Mean		
	Lower Bound	236,6626	
	Upper Bound	255,0041	
	5% Trimmed Mean	245,9259	
	Median	250,0000	
	Variance	208,333	
	Std. Deviation	14,43376	
	Minimum	220,00	
	Maximum	270,00	
	Range	50,00	
	Interquartile Range	25,00	
	Skewness	-,199	,637
	Kurtosis	-,416	1,232
Formula 1	Mean	266,6667	
	95% Confidence Interval for Mean		
	Lower Bound	257,9577	
	Upper Bound	275,3756	
	5% Trimmed Mean	266,8519	
	Median	270,0000	
	Variance	187,879	
	Std. Deviation	13,70689	
	Minimum	240,00	
	Maximum	290,00	
	Range	50,00	

	Interquartile Range		17,50	
	Skewness		-,292	,637
	Kurtosis		,203	1,232
Formula 2	Mean		272,5000	3,91675
	95% Confidence Interval for	Lower Bound	263,8793	
	Mean	Upper Bound	281,1207	
	5% Trimmed Mean		272,2222	
	Median		270,0000	
	Variance		184,091	
	Std. Deviation		13,56801	
	Minimum		250,00	
	Maximum		300,00	
	Range		50,00	
	Interquartile Range		17,50	
	Skewness		,508	,637
	Kurtosis		,511	1,232
Formula 3	Mean		288,3333	4,89795
	95% Confidence Interval for	Lower Bound	277,5530	
	Mean	Upper Bound	299,1136	
	5% Trimmed Mean		288,1481	
	Median		285,0000	
	Variance		287,879	
	Std. Deviation		16,96699	
	Minimum		260,00	
	Maximum		320,00	
	Range		60,00	
	Interquartile Range		20,00	
	Skewness		,310	,637
	Kurtosis		-,155	1,232

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Viskositas	Kontrol negatif	,197	12	,200 [*]	,960	12	,780
	Formula 1	,179	12	,200 [*]	,960	12	,790
	Formula 2	,240	12	,055	,940	12	,498
	Formula 3	,188	12	,200 [*]	,964	12	,836

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

a. Lilliefors Significance Correction

Waktu

Case Processing Summary

	Waktu	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
Viskositas	Hari ke - 1	12	100,0%	0	0,0%	12	100,0%
	Hari ke - 7	12	100,0%	0	0,0%	12	100,0%
	Hari ke - 14	12	100,0%	0	0,0%	12	100,0%
	Hari ke - 21	12	100,0%	0	0,0%	12	100,0%

Descriptives

	Waktu	Statistic	Std. Error		
Viskositas	Hari ke - 1	Mean	280,8333	5,56754	
		95% Confidence Interval for Mean	Lower Bound	268,5793	
			Upper Bound	293,0874	
		5% Trimmed Mean		280,3704	
		Median		280,0000	
		Variance		371,970	
		Std. Deviation		19,28652	
		Minimum		250,00	
		Maximum		320,00	
		Range		70,00	
		Interquartile Range		27,50	
		Skewness		,498	,637
		Kurtosis		,253	1,232
		Viskositas	Hari ke - 7	Mean	274,1667
95% Confidence Interval for Mean	Lower Bound			263,1756	
	Upper Bound			285,1577	
5% Trimmed Mean				273,5185	
Median				270,0000	
Variance				299,242	
Std. Deviation				17,29862	

	Minimum	250,00	
	Maximum	310,00	
	Range	60,00	
	Interquartile Range	25,00	
	Skewness	,484	,637
	Kurtosis	,367	1,232
Hari ke - 14	Mean	265,0000	5,57320
	95% Confidence Interval for Mean	Lower Bound	252,7335
		Upper Bound	277,2665
	5% Trimmed Mean	265,0000	
	Median	265,0000	
	Variance	372,727	
	Std. Deviation	19,30615	
	Minimum	230,00	
	Maximum	300,00	
	Range	70,00	
	Interquartile Range	27,50	
	Skewness	-,136	,637
	Kurtosis	,047	1,232
Hari ke - 21	Mean	253,3333	5,55050
	95% Confidence Interval for Mean	Lower Bound	241,1168
		Upper Bound	265,5499
	5% Trimmed Mean	253,1481	
	Median	255,0000	
	Variance	369,697	
	Std. Deviation	19,22751	
	Minimum	220,00	
	Maximum	290,00	
	Range	70,00	
	Interquartile Range	27,50	
	Skewness	,075	,637
	Kurtosis	,074	1,232

Tests of Normality

Waktu

Kolmogorov-Smirnov^a

Shapiro-Wilk

		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	Hari ke - 1	,184	12	,200*	,963	12	,821
	Hari ke - 7	,179	12	,200*	,942	12	,531
	Hari ke - 14	,148	12	,200*	,970	12	,911
	Hari ke - 21	,136	12	,200*	,978	12	,974

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

a. Lilliefors Significance Correction

One-Way ANOVA

Descriptives

Viskositas						
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
Kontrol negatif	12	245,8333	14,43376	4,16667	236,6626	255,0041
Formula 1	12	266,6667	13,70689	3,95684	257,9577	275,3756
Formula 2	12	272,5000	13,56801	3,91675	263,8793	281,1207
Formula 3	12	288,3333	16,96699	4,89795	277,5530	299,1136
Total	48	268,3333	20,96941	3,02667	262,2445	274,4222

Descriptives

Viskositas		
	Minimum	Maximum
Kontrol negatif	220,00	270,00
Formula 1	240,00	290,00
Formula 2	250,00	300,00
Formula 3	260,00	320,00
Total	220,00	320,00

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas	Based on Mean	,344	3	44	,794
	Based on Median	,393	3	44	,758
	Based on Median and with adjusted df	,393	3	43,871	,758
	Based on trimmed mean	,356	3	44	,785

ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11116,667	3	3705,556	17,073	,000
Within Groups	9550,000	44	217,045		
Total	20666,667	47			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Viskositas

Tukey HSD

(I) Formula	(J) Formula	Mean Difference	Std. Error	Sig.	95% Confidence Interval	
		(I-J)			Lower Bound	Upper Bound
Kontrol negatif	Formula 1	-20,83333*	6,01450	,006	-36,8921	-4,7746
	Formula 2	-26,66667*	6,01450	,000	-42,7254	-10,6079
	Formula 3	-42,50000*	6,01450	,000	-58,5588	-26,4412
Formula 1	Kontrol negatif	20,83333*	6,01450	,006	4,7746	36,8921
	Formula 2	-5,83333	6,01450	,767	-21,8921	10,2254
	Formula 3	-21,66667*	6,01450	,004	-37,7254	-5,6079
Formula 2	Kontrol negatif	26,66667*	6,01450	,000	10,6079	42,7254
	Formula 1	5,83333	6,01450	,767	-10,2254	21,8921
	Formula 3	-15,83333	6,01450	,055	-31,8921	,2254
Formula 3	Kontrol negatif	42,50000*	6,01450	,000	26,4412	58,5588
	Formula 1	21,66667*	6,01450	,004	5,6079	37,7254
	Formula 2	15,83333	6,01450	,055	-,2254	31,8921

*. 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
Kontrol negatif	12	245,8333		
Formula 1	12		266,6667	
Formula 2	12		272,5000	272,5000
Formula 3	12			288,3333
Sig.		1,000	,767	,055

Means for groups in homogeneous subsets are displayed.

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

**Lampiran 16. Hasil statistik uji daya lekat
Formula**

Shapiro-Wilk

Case Processing Summary

Formula	Valid		Cases Missing		Total		
	N	Percent	N	Percent	N	Percent	
DayaLekat	Kontrol negatif	4	100,0%	0	0,0%	4	100,0%
	Formula 1	4	100,0%	0	0,0%	4	100,0%
	Formula 2	4	100,0%	0	0,0%	4	100,0%
	Formula 3	4	100,0%	0	0,0%	4	100,0%

Descriptives

Formula	Statistic	Std. Error	
DayaLekat	Mean	3,1375	
	95% Confidence Interval for Mean	Lower Bound 2,8828	
		Upper Bound 3,3922	
	5% Trimmed Mean	3,1361	
	Median	3,1250	
	Variance	,026	
	Std. Deviation	,16008	
	Minimum	3,00	
	Maximum	3,30	
	Range	,30	
	Interquartile Range	,29	
	Skewness	,084	1,014
	Kurtosis	-5,518	2,619
	Formula 1	Mean	4,3625
95% Confidence Interval for Mean		Lower Bound 3,8734	
		Upper Bound 4,8516	
5% Trimmed Mean		4,3672	
Median		4,4050	
Variance		,094	
Std. Deviation		,30739	

	Minimum		3,97	
	Maximum		4,67	
	Range		,70	
	Interquartile Range		,59	
	Skewness		-,626	1,014
	Kurtosis		-,991	2,619
Formula 2	Mean		3,9650	,12744
	95% Confidence Interval for	Lower Bound	3,5594	
	Mean	Upper Bound	4,3706	
	5% Trimmed Mean		3,9583	
	Median		3,9050	
	Variance		,065	
	Std. Deviation		,25489	
	Minimum		3,74	
	Maximum		4,31	
	Range		,57	
	Interquartile Range		,47	
	Skewness		1,046	1,014
	Kurtosis		,170	2,619
Formula 3	Mean		3,8025	,09877
	95% Confidence Interval for	Lower Bound	3,4882	
	Mean	Upper Bound	4,1168	
	5% Trimmed Mean		3,8056	
	Median		3,8300	
	Variance		,039	
	Std. Deviation		,19755	
	Minimum		3,55	
	Maximum		4,00	
	Range		,45	
	Interquartile Range		,38	
	Skewness		-,631	1,014
	Kurtosis		-,964	2,619

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.

DayaLekat	Kontrol negatif	,305	4	.	,799	4	,100
	Formula 1	,207	4	.	,964	4	,802
	Formula 2	,228	4	.	,920	4	,534
	Formula 3	,207	4	.	,964	4	,802

a. Lilliefors Significance Correction

One-Way ANOVA

Descriptives

DayaLekat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
Kontrol negatif	4	3,1375	,16008	,08004	2,8828	3,3922
Formula 1	4	4,3625	,30739	,15370	3,8734	4,8516
Formula 2	4	3,9650	,25489	,12744	3,5594	4,3706
Formula 3	4	3,8025	,19755	,09877	3,4882	4,1168
Total	16	3,8169	,50319	,12580	3,5487	4,0850

Descriptives

DayaLekat

	Minimum	Maximum
Formula 1	3,97	4,67
Formula 2	3,74	4,31
Formula 3	3,55	4,00
Total	3,00	4,67

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
DayaLekat	Based on Mean	,714	3	12	,562
	Based on Median	,601	3	12	,627
	Based on Median and with adjusted df	,601	3	8,251	,632
	Based on trimmed mean	,713	3	12	,563

ANOVA

DayaLekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3,126	3	1,042	18,596	,000
Within Groups	,672	12	,056		
Total	3,798	15			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DayaLekat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference			95% Confidence Interval	
		(I-J)	Std. Error	Sig.	Lower Bound	Upper Bound
Kontrol negatif	Formula 1	-1,22500*	,16737	,000	-1,7219	-,7281
	Formula 2	-,82750*	,16737	,002	-1,3244	-,3306
	Formula 3	-,66500*	,16737	,009	-1,1619	-,1681
Formula 1	Kontrol negatif	1,22500*	,16737	,000	,7281	1,7219
	Formula 2	,39750	,16737	,135	-,0994	,8944
	Formula 3	,56000*	,16737	,026	,0631	1,0569
Formula 2	Kontrol negatif	,82750*	,16737	,002	,3306	1,3244
	Formula 1	-,39750	,16737	,135	-,8944	,0994
	Formula 3	,16250	,16737	,768	-,3344	,6594
Formula 3	Kontrol negatif	,66500*	,16737	,009	,1681	1,1619
	Formula 1	-,56000*	,16737	,026	-1,0569	-,0631
	Formula 2	-,16250	,16737	,768	-,6594	,3344

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

Homogeneous Subsets

DayaLekat

Tukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
Kontrol negatif	4	3,1375		
Formula 3	4		3,8025	
Formula 2	4		3,9650	3,9650
Formula 1	4			4,3625
Sig.		1,000	,768	,135

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4,000.

Lampiran 17. Hasil statistik uji daya sebar

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
DayaSebar	80	5,2675	,84130	3,20	7,40

One-Sample Kolmogorov-Smirnov Test

		DayaSebar
N		80
Normal Parameters ^{a,b}	Mean	5,2675
	Std. Deviation	,84130
Most Extreme Differences	Absolute	,062
	Positive	,062
	Negative	-,058
Test Statistic		,062
Asymp. Sig. (2-tailed)		,200 ^{c,d}

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.
- d. This is a lower bound of the true significance.

One-Way ANOVA

Descriptives

DayaSebar

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
Kontrol negatif	20	5,4700	1,04685	,23408	4,9801	5,9599
Formula 1	20	5,1800	,68947	,15417	4,8573	5,5027
Formula 2	20	4,9800	,75645	,16915	4,6260	5,3340
Formula 3	20	5,4400	,79366	,17747	5,0686	5,8114
Total	80	5,2675	,84130	,09406	5,0803	5,4547

Descriptives

DayaSebar

Minimum

Maximum

Kontrol negatif	3,80	7,40
Formula 1	3,60	6,20
Formula 2	3,20	6,20
Formula 3	3,80	6,80
Total	3,20	7,40

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
DayaSebar	Based on Mean	1,284	3	76	,286
	Based on Median	1,133	3	76	,341
	Based on Median and with adjusted df	1,133	3	64,414	,343
	Based on trimmed mean	1,262	3	76	,294

ANOVA

DayaSebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3,222	3	1,074	1,549	,209
Within Groups	52,694	76	,693		
Total	55,915	79			

Lampiran 18. Hasil statistik uji stabilitas daya sebar

Case Processing Summary

Formula	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
DayaSebar	20	100,0%	0	0,0%	20	100,0%
Formula 1	20	100,0%	0	0,0%	20	100,0%

Descriptives

Formula	Statistic	Std. Error	
DayaSebar	Mean	5,3500	
	95% Confidence Interval for Mean		
	Lower Bound	5,0189	
	Upper Bound	5,6811	
	5% Trimmed Mean	5,3333	
	Median	5,3000	
	Variance	,501	
	Std. Deviation	,70748	
	Minimum	4,00	
	Maximum	7,00	
	Range	3,00	
	Interquartile Range	1,10	
	Skewness	,269	,512
	Kurtosis	,328	,992
Formula 1	Mean	5,4700	
	95% Confidence Interval for Mean		
	Lower Bound	5,1328	
	Upper Bound	5,8072	
	5% Trimmed Mean	5,4611	
	Median	5,4000	
	Variance	,519	
	Std. Deviation	,72045	
	Minimum	4,20	
	Maximum	6,90	
	Range	2,70	
	Interquartile Range	1,07	

	Skewness	,274	,512
	Kurtosis	-,443	,992

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
DayaSebar	Kontrol negatif	,084	20	,200*	,984	20	,973
	Formula 1	,128	20	,200*	,977	20	,885

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

a. Lilliefors Significance Correction

Waktu

Case Processing Summary

Waktu	Valid		Cases Missing		Total		
	N	Percent	N	Percent	N	Percent	
DayaSebar							
	Hari ke - 1	10	100,0%	0	0,0%	10	100,0%
	hari ke - 21	10	100,0%	0	0,0%	10	100,0%
	3,00	10	100,0%	0	0,0%	10	100,0%
	4,00	10	100,0%	0	0,0%	10	100,0%

Descriptives

Waktu	Statistic	Std. Error	
DayaSebar			
	Hari ke - 1		
	Mean	5,4200	,26068
	95% Confidence Interval for		
	Mean	Lower Bound	4,8303
		Upper Bound	6,0097
	5% Trimmed Mean	5,3889	
	Median	5,3000	
	Variance	,680	
	Std. Deviation	,82435	

	Minimum		4,40	
	Maximum		7,00	
	Range		2,60	
	Interquartile Range		1,10	
	Skewness		,923	,687
	Kurtosis		,320	1,334
hari ke - 21	Mean		5,2100	,21932
	95% Confidence Interval for	Lower Bound	4,7139	
	Mean	Upper Bound	5,7061	
	5% Trimmed Mean		5,2278	
	Median		5,3000	
	Variance		,481	
	Std. Deviation		,69354	
	Minimum		4,00	
	Maximum		6,10	
	Range		2,10	
	Interquartile Range		,90	
	Skewness		-,623	,687
	Kurtosis		-,328	1,334
3,00	Mean		5,2300	,18502
	95% Confidence Interval for	Lower Bound	4,8114	
	Mean	Upper Bound	5,6486	
	5% Trimmed Mean		5,2222	
	Median		5,1500	
	Variance		,342	
	Std. Deviation		,58509	
	Minimum		4,40	
	Maximum		6,20	
	Range		1,80	
	Interquartile Range		,95	
	Skewness		,346	,687
	Kurtosis		-,748	1,334
4,00	Mean		5,7800	,20806
	95% Confidence Interval for	Lower Bound	5,3093	
	Mean	Upper Bound	6,2507	
	5% Trimmed Mean		5,7722	
	Median		5,9000	

Variance	,433	
Std. Deviation	,65794	
Minimum	4,80	
Maximum	6,90	
Range	2,10	
Interquartile Range	1,10	
Skewness	,052	,687
Kurtosis	-,648	1,334

Tests of Normality

Waktu	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DayaSebar Hari ke - 1	,214	10	,200*	,906	10	,253
hari ke - 21	,181	10	,200*	,931	10	,455
3,00	,153	10	,200*	,967	10	,859
4,00	,131	10	,200*	,975	10	,934

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

a. Lilliefors Significance Correction

One-Way ANOVA

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
Kontrol negatif	10	5,4200	,82435	,26068	4,8303	6,0097
Formula 1	10	5,2100	,69354	,21932	4,7139	5,7061
Formula 2	10	5,2300	,58509	,18502	4,8114	5,6486
Formula 3	10	5,7800	,65794	,20806	5,3093	6,2507
Total	40	5,4100	,70740	,11185	5,1838	5,6362

Descriptives

DayaSebar

	Minimum	Maximum
Kontrol negatif	4,40	7,00
Formula 1	4,00	6,10
Formula 2	4,40	6,20
Formula 3	4,80	6,90
Total	4,00	7,00

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
DayaSebar	Based on Mean	,135	3	36	,938
	Based on Median	,108	3	36	,955
	Based on Median and with adjusted df	,108	3	30,297	,955
	Based on trimmed mean	,116	3	36	,950

ANOVA

DayaSebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2,094	3	,698	1,442	,247
Within Groups	17,422	36	,484		
Total	19,516	39			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DayaSebar

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	Formula 1	,21000	,31111	,906	-,6279	1,0479
	Formula 2	,19000	,31111	,928	-,6479	1,0279
	Formula 3	-,36000	,31111	,657	-1,1979	,4779
Formula 1	Kontrol negatif	-,21000	,31111	,906	-1,0479	,6279
	Formula 2	-,02000	,31111	1,000	-,8579	,8179
	Formula 3	-,57000	,31111	,275	-1,4079	,2679

Formula 2	Kontrol negatif	-,19000	,31111	,928	-1,0279	,6479
	Formula 1	,02000	,31111	1,000	-,8179	,8579
	Formula 3	-,55000	,31111	,305	-1,3879	,2879
Formula 3	Kontrol negatif	,36000	,31111	,657	-,4779	1,1979
	Formula 1	,57000	,31111	,275	-,2679	1,4079
	Formula 2	,55000	,31111	,305	-,2879	1,3879

Homogeneous Subsets

DayaSebar

Tukey HSD^a

Formula	N	Subset for alpha
		= 0.05
Formula 1	10	1 5,2100
Formula 2	10	1 5,2300
Kontrol negatif	10	1 5,4200
Formula 3	10	1 5,7800
Sig.		,275

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10,000.

Lampiran 19. Hasil statistik rata-rata AUC

Case Processing Summary

	Formula	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
RatarataAUC	Kontrol negatif	3	100,0%	0	0,0%	3	100,0%
	Kontrol positif	3	100,0%	0	0,0%	3	100,0%
	Formula 1	3	100,0%	0	0,0%	3	100,0%
	Formula 2	3	100,0%	0	0,0%	3	100,0%
	Formula 3	3	100,0%	0	0,0%	3	100,0%

Descriptives

	Formula		Statistic	Std. Error
RatarataAUC	Kontrol negatif	Mean	,0417	,00241
		95% Confidence Interval for Mean	Lower Bound	,0313
		Upper Bound	,0521	
		5% Trimmed Mean	.	
		Median	,0437	
		Variance	,000	
		Std. Deviation	,00418	
		Minimum	,04	
		Maximum	,04	
		Range	,01	
		Interquartile Range	.	
		Skewness	-1,661	1,225
		Kurtosis	.	.
		RatarataAUC	Kontrol positif	Mean
95% Confidence Interval for Mean	Lower Bound			,0205
Upper Bound	,0473			
5% Trimmed Mean	.			
Median	,0362			
Variance	,000			
Std. Deviation	,00539			

	Minimum		,03	
	Maximum		,04	
	Range		,01	
	Interquartile Range		.	
	Skewness		-1,583	1,225
	Kurtosis		.	.
Formula 1	Mean		,0343	,00255
	95% Confidence Interval for	Lower Bound	,0233	
	Mean	Upper Bound	,0453	
	5% Trimmed Mean		.	
	Median		,0367	
	Variance		,000	
	Std. Deviation		,00442	
	Minimum		,03	
	Maximum		,04	
	Range		,01	
	Interquartile Range		.	
	Skewness		-1,723	1,225
	Kurtosis		.	.
Formula 2	Mean		,0388	,00260
	95% Confidence Interval for	Lower Bound	,0276	
	Mean	Upper Bound	,0500	
	5% Trimmed Mean		.	
	Median		,0405	
	Variance		,000	
	Std. Deviation		,00450	
	Minimum		,03	
	Maximum		,04	
	Range		,01	
	Interquartile Range		.	
	Skewness		-1,458	1,225
	Kurtosis		.	.
Formula 3	Mean		,0306	,00250
	95% Confidence Interval for	Lower Bound	,0198	
	Mean	Upper Bound	,0413	
	5% Trimmed Mean		.	
	Median		,0320	

Variance	,000	
Std. Deviation	,00433	
Minimum	,03	
Maximum	,03	
Range	,01	
Interquartile Range	.	
Skewness	-1,326	1,225
Kurtosis	.	.

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
RatarataAUC Kontrol negatif	,351	3	.	,828	3	,183
Kontrol positif	,334	3	.	,860	3	,266
Formula 1	,373	3	.	,779	3	,065
Formula 2	,314	3	.	,893	3	,363
Formula 3	,296	3	.	,918	3	,445

a. Lilliefors Significance Correction

One-Way ANOVA

Descriptives

RatarataAUC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
Kontrol negatif	3	,0417	,00418	,00241	,0313	,0521
Kontrol positif	3	,0339	,00539	,00311	,0205	,0473
Formula 1	3	,0343	,00442	,00255	,0233	,0453
Formula 2	3	,0388	,00450	,00260	,0276	,0500
Formula 3	3	,0306	,00433	,00250	,0198	,0413
Total	15	,0358	,00562	,00145	,0327	,0390

Descriptives

RatarataAUC

	Minimum	Maximum
Kontrol negatif	,04	,04
Kontrol positif	,03	,04
Formula 1	,03	,04
Formula 2	,03	,04
Formula 3	,03	,03
Total	,03	,04

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
RatarataAUC	Based on Mean	,147	4	10	,960
	Based on Median	,020	4	10	,999
	Based on Median and with adjusted df	,020	4	9,424	,999
	Based on trimmed mean	,126	4	10	,970

ANOVA

RatarataAUC

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,000	4	,000	2,755	,088
Within Groups	,000	10	,000		
Total	,000	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: RatarataAUC

Tukey HSD

(I) Formula	(J) Formula	Mean Difference			95% Confidence Interval	
		(I-J)	Std. Error	Sig.	Lower Bound	Upper Bound
Kontrol negatif	Kontrol positif	,00783	,00374	,294	-,0045	,0202
	Formula 1	,00740	,00374	,341	-,0049	,0197
	Formula 2	,00290	,00374	,932	-,0094	,0152

	Formula 3	,01113	,00374	,082	-,0012	,0235
Kontrol positif	Kontrol negatif	-,00783	,00374	,294	-,0202	,0045
	Formula 1	-,00043	,00374	1,000	-,0128	,0119
	Formula 2	-,00493	,00374	,687	-,0173	,0074
	Formula 3	,00330	,00374	,897	-,0090	,0156
Formula 1	Kontrol negatif	-,00740	,00374	,341	-,0197	,0049
	Kontrol positif	,00043	,00374	1,000	-,0119	,0128
	Formula 2	-,00450	,00374	,750	-,0168	,0078
	Formula 3	,00373	,00374	,851	-,0086	,0161
Formula 2	Kontrol negatif	-,00290	,00374	,932	-,0152	,0094
	Kontrol positif	,00493	,00374	,687	-,0074	,0173
	Formula 1	,00450	,00374	,750	-,0078	,0168
	Formula 3	,00823	,00374	,254	-,0041	,0206
Formula 3	Kontrol negatif	-,01113	,00374	,082	-,0235	,0012
	Kontrol positif	-,00330	,00374	,897	-,0156	,0090
	Formula 1	-,00373	,00374	,851	-,0161	,0086
	Formula 2	-,00823	,00374	,254	-,0206	,0041

Homogeneous Subsets

RatarataAUC

Tukey HSD^a

Formula	N	Subset for alpha = 0.05 1
Formula 3	3	,0306
Kontrol positif	3	,0339
Formula 1	3	,0343
Formula 2	3	,0388
Kontrol negatif	3	,0417
Sig.		,082

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 20. Hasil statistik % daya antiinflamasi

Formula

Case Processing Summary

Formula	N	Valid		Cases Missing		Total N
		N	Percent	N	Percent	
Persendayaantiinflamasi						
Kontrol negatif	3	3	100,0%	0	0,0%	3
Kontrol positif	3	3	100,0%	0	0,0%	3
Formula 1	3	3	100,0%	0	0,0%	3
Formula 2	3	3	100,0%	0	0,0%	3
Formula 3	3	3	100,0%	0	0,0%	3

Case Processing Summary

Formula	Cases Total	
	Percent	Percent
Persendayaantiinflamasi		
Kontrol negatif	100,0%	
Kontrol positif	100,0%	
Formula 1	100,0%	
Formula 2	100,0%	
Formula 3	100,0%	

Descriptives

Formula	Statistic	Std. Error
Persendayaantiinflamasi		
Kontrol negatif	Mean	,0000
	95% Confidence Interval for Mean	
	Lower Bound	,0000
	Upper Bound	,0000
	5% Trimmed Mean	,0000
	Median	,0000
	Variance	,000
	Std. Deviation	,00000
	Minimum	,00
	Maximum	,00
	Range	,00
	Interquartile Range	,00

	Skewness		.	.
	Kurtosis		.	.
Kontrol positif	Mean		19,1233	2,95362
	95% Confidence Interval for Mean	Lower Bound	6,4149	
		Upper Bound	31,8317	
	5% Trimmed Mean		.	
	Median		17,1600	
	Variance		26,172	
	Std. Deviation		5,11582	
	Minimum		15,28	
	Maximum		24,93	
	Range		9,65	
	Interquartile Range		.	
	Skewness		1,473	1,225
	Kurtosis		.	.
	Formula 1	Mean		16,8567
95% Confidence Interval for Mean		Lower Bound	-23,6845	
		Upper Bound	57,3978	
5% Trimmed Mean			.	
Median			16,8500	
Variance			266,342	
Std. Deviation			16,32000	
Minimum			,54	
Maximum			33,18	
Range			32,64	
Interquartile Range			.	
Skewness			,002	1,225
Kurtosis			.	.
Formula 2		Mean		7,0267
	95% Confidence Interval for Mean	Lower Bound	-,7205	
		Upper Bound	14,7738	
	5% Trimmed Mean		.	
	Median		8,6700	
	Variance		9,726	
	Std. Deviation		3,11866	
	Minimum		3,43	
	Maximum		8,98	

	Range	5,55	
	Interquartile Range	.	
	Skewness	-1,713	1,225
	Kurtosis	.	.
Formula 3	Mean	26,9033	1,95258
	95% Confidence Interval for Mean	Lower Bound 18,5020 Upper Bound 35,3046	
	5% Trimmed Mean	.	
	Median	26,7700	
	Variance	11,438	
	Std. Deviation	3,38197	
	Minimum	23,59	
	Maximum	30,35	
	Range	6,76	
	Interquartile Range	.	
	Skewness	,177	1,225
	Kurtosis	.	.

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk	
	Statistic	df	Sig.	Statistic	df
Persendayaantiinflamasi					
Kontrol negatif	.	3	.	.	3
Kontrol positif	,316	3	.	,890	3
Formula 1	,175	3	.	1,000	3
Formula 2	,368	3	.	,792	3
Formula 3	,182	3	.	,999	3

Tests of Normality

Formula	Shapiro-Wilk ^a Sig.
Persendayaantiinflamasi	
Kontrol negatif	.
Kontrol positif	,353
Formula 1	,999
Formula 2	,095
Formula 3	,935

a. Lilliefors Significance Correction

One-Way ANOVA

Descriptives

Persendayaantiinflamasi

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
Kontrol negatif	3	,0000	,00000	,00000	,0000	,0000
Kontrol positif	3	19,1233	5,11582	2,95362	6,4149	31,8317
Formula 1	3	16,8567	16,32000	9,42236	-23,6845	57,3978
Formula 2	3	7,0267	3,11866	1,80056	-,7205	14,7738
Formula 3	3	26,9033	3,38197	1,95258	18,5020	35,3046
Total	15	13,9820	11,84407	3,05813	7,4230	20,5410

Descriptives

Persendayaantiinflamasi

	Minimum	Maximum
Kontrol negatif	,00	,00
Kontrol positif	15,28	24,93
Formula 1	,54	33,18
Formula 2	3,43	8,98
Formula 3	23,59	30,35
Total	,00	33,18

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Persendayaantiinflamasi	Based on Mean	2,659	4	10	,096
	Based on Median	2,261	4	10	,135
	Based on Median and with adjusted df	2,261	4	3,362	,248
	Based on trimmed mean	2,644	4	10	,097

ANOVA

Persendayaantiinflamasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1336,593	4	334,148	5,326	,015
Within Groups	627,356	10	62,736		
Total	1963,948	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Persendayaantiinflamasi

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	Kontrol positif	-19,12333	6,46713	,084	-40,4072	2,1605
	Formula 1	-16,85667	6,46713	,142	-38,1405	4,4272
	Formula 2	-7,02667	6,46713	,810	-28,3105	14,2572
	Formula 3	-26,90333*	6,46713	,013	-48,1872	-5,6195
Kontrol positif	Kontrol negatif	19,12333	6,46713	,084	-2,1605	40,4072
	Formula 1	2,26667	6,46713	,996	-19,0172	23,5505
	Formula 2	12,09667	6,46713	,390	-9,1872	33,3805
	Formula 3	-7,78000	6,46713	,750	-29,0638	13,5038
Formula 1	Kontrol negatif	16,85667	6,46713	,142	-4,4272	38,1405
	Kontrol positif	-2,26667	6,46713	,996	-23,5505	19,0172
	Formula 2	9,83000	6,46713	,573	-11,4538	31,1138
	Formula 3	-10,04667	6,46713	,555	-31,3305	11,2372
Formula 2	Kontrol negatif	7,02667	6,46713	,810	-14,2572	28,3105
	Kontrol positif	-12,09667	6,46713	,390	-33,3805	9,1872
	Formula 1	-9,83000	6,46713	,573	-31,1138	11,4538
	Formula 3	-19,87667	6,46713	,070	-41,1605	1,4072
Formula 3	Kontrol negatif	26,90333*	6,46713	,013	5,6195	48,1872
	Kontrol positif	7,78000	6,46713	,750	-13,5038	29,0638
	Formula 1	10,04667	6,46713	,555	-11,2372	31,3305
	Formula 2	19,87667	6,46713	,070	-1,4072	41,1605

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

Homogeneous Subsets

Persendayaantiinflamasi

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
Kontrol negatif	3	,0000	
Formula 2	3	7,0267	7,0267
Formula 1	3	16,8567	16,8567
Kontrol positif	3	19,1233	19,1233
Formula 3	3		26,9033
Sig.		,084	,070

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.