

a. Pemeliharaan hewan coba

Mencit yang dipilih adalah mencit yang berumur 2-3 bulan dengan berat rata-rata 20-30 g dan dipelihara di Laboratorium Biokimia Fakultas Kedokteran Universitas Diponegoro. Kandang mencit dipilih yang besar untuk memperluas ruang gerak mencit dan menghindari stress. Mencit diberi makan dan minum yang sama.

b. Cara memegang mencit

Pengambilan mencit dari kandang pada saat pemberian ekstrak harus pelan-pelan karena mencit akan menggigit apabila ditarik keras-keras. Pengambilan mencit dari kandang dipegang ekornya kemudian diletakkan di kawat kasa dan ekornya ditarik sedikit. Cubit kulit bagian belakang kepala dan jepit ekornya.

c. Cara penyuntikan

Cubit kulit bagian belakang kepala, kemudian penyuntikan dilakukan pada bagian lateral ekor yang sebelumnya diusap dengan kapas yang dibasahi alkohol.

d. Euthanasea

Mencit dibunuh dengan melakukan dislokasi pada tulang leher dengan cara menaruh mencit pada permukaan rata, kemudian sebuah benda keras dan tumpul diletakkan di kuduk mencit. Ekor ditarik kuat-kuat sambil menekan benda tersebut di kuduk mencit hingga mati.

Explore

Fagositosis makrofag

Descriptives

Kelompok				Statistic	Std. Error
Fagositosis makrofag	Kontrol	Mean		.1423	.03910
		95% Confidence Interval for Mean	Lower Bound	.0337	
			Upper Bound	.2508	
		5% Trimmed Mean		.1441	
		Median		.1667	
		Variance		.008	
		Std. Deviation		.08742	
		Minimum		.03	
		Maximum		.22	
		Range		.19	
		Interquartile Range		.17	
		Skewness		-.487	.913
		Kurtosis		-2.338	2.000
		P1	P1	Mean	
95% Confidence Interval for Mean	Lower Bound			.4813	
	Upper Bound			.8939	
5% Trimmed Mean				.6892	
Median				.6799	
Variance				.039	
Std. Deviation				.19663	
Minimum				.44	
Maximum				.91	
Range				.47	
Interquartile Range				.39	
Skewness				-.025	.845
Kurtosis				-2.098	1.741
P2	P2			Mean	
		95% Confidence Interval for Mean	Lower Bound	.4349	
			Upper Bound	1.4703	
		5% Trimmed Mean		.9351	
		Median		.7909	
		Variance		.243	
		Std. Deviation		.49331	
		Minimum		.50	
		Maximum		1.72	
		Range		1.22	
		Interquartile Range		.87	
		Skewness		.780	.845
		Kurtosis		-.957	1.741
		P3	P3	Mean	
95% Confidence Interval for Mean	Lower Bound			-.4025	
	Upper Bound			2.9044	
5% Trimmed Mean				.	
Median				1.0256	
Variance				.443	
Std. Deviation				.66561	
Minimum				.73	
Maximum				2.00	
Range				1.27	
Interquartile Range				.	
Skewness				1.349	1.225
Kurtosis				.	.

Oneway

Test of Homogeneity of Variances

transform.makrofag

Levene Statistic	df1	df2	Sig.
2.793	3	16	.074

ANOVA

transform.makrofag

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.367	3	.456	11.865	.000
Within Groups	.615	16	.038		
Total	1.982	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: transform.makrofag

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	P1	-.46386*	.11868	.006	-.8034	-.1243
	P2	-.59164*	.11868	.001	-.9312	-.2521
	P3	-.73521*	.14314	.001	-1.1447	-.3257
P1	Kontrol	.46386*	.11868	.006	.1243	.8034
	P2	-.12777	.11316	.678	-.4515	.1960
	P3	-.27135	.13859	.244	-.6679	.1252
P2	Kontrol	.59164*	.11868	.001	.2521	.9312
	P1	.12777	.11316	.678	-.1960	.4515
	P3	-.14357	.13859	.731	-.5401	.2529
P3	Kontrol	.73521*	.14314	.001	.3257	1.1447
	P1	.27135	.13859	.244	-.1252	.6679
	P2	.14357	.13859	.731	-.2529	.5401

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

Homogeneous Subsets

transform.makrofag

Tukey HSD^{a,b}

Kelompok	N	Subset for alpha = .05	
		1	2
Kontrol	5	.3580	
P1	6		.8219
P2	6		.9497
P3	3		1.0933
Sig.		1.000	.194

Means for groups in homogeneous subsets are displayed.

- a. Uses Harmonic Mean Sample Size = 4.615.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Produksi Nitric Oxide (NO)

Descriptives

Kelompok				Statistic	Std. Error		
Produksi Nitric Oxide (NO)	Kontrol	Mean		26.420	6.6134		
		95% Confidence Interval for Mean	Lower Bound	8.058			
			Upper Bound	44.782			
		5% Trimmed Mean		27.461			
		Median		33.000			
		Variance		218.682			
		Std. Deviation		14.7879			
		Minimum		.0			
		Maximum		34.1			
		Range		34.1			
		Interquartile Range		17.6			
		Skewness		-2.222	.913		
		Kurtosis		4.950	2.000		
		P1		Mean		36.333	.8480
				95% Confidence Interval for Mean	Lower Bound	34.153	
	Upper Bound			38.513			
5% Trimmed Mean				36.293			
Median				36.100			
Variance				4.315			
Std. Deviation				2.0772			
Minimum				34.3			
Maximum				39.1			
Range				4.8			
Interquartile Range				4.1			
Skewness				.273	.845		
Kurtosis				-2.255	1.741		
P2				Mean		37.383	1.0489
				95% Confidence Interval for Mean	Lower Bound	34.687	
			Upper Bound	40.080			
		5% Trimmed Mean		37.409			
		Median		37.500			
		Variance		6.602			
		Std. Deviation		2.5694			
		Minimum		34.0			
		Maximum		40.3			
		Range		6.3			
		Interquartile Range		5.3			
		Skewness		-.166	.845		
		Kurtosis		-1.709	1.741		
		P3		Mean		39.000	.5774
				95% Confidence Interval for Mean	Lower Bound	36.516	
	Upper Bound			41.484			
5% Trimmed Mean				.			
Median				39.000			
Variance				1.000			
Std. Deviation				1.0000			
Minimum				38.0			
Maximum				40.0			
Range				2.0			
Interquartile Range				.			
Skewness				.000	1.225		
Kurtosis				.	.		

Tests of Normality

Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Produksi Nitric Oxide (NO) Kontrol	.447	5	.001	.600	5	.001
P1	.240	6	.200*	.876	6	.251
P2	.179	6	.200*	.931	6	.585
P3	.175	3	.	1.000	3	1.000

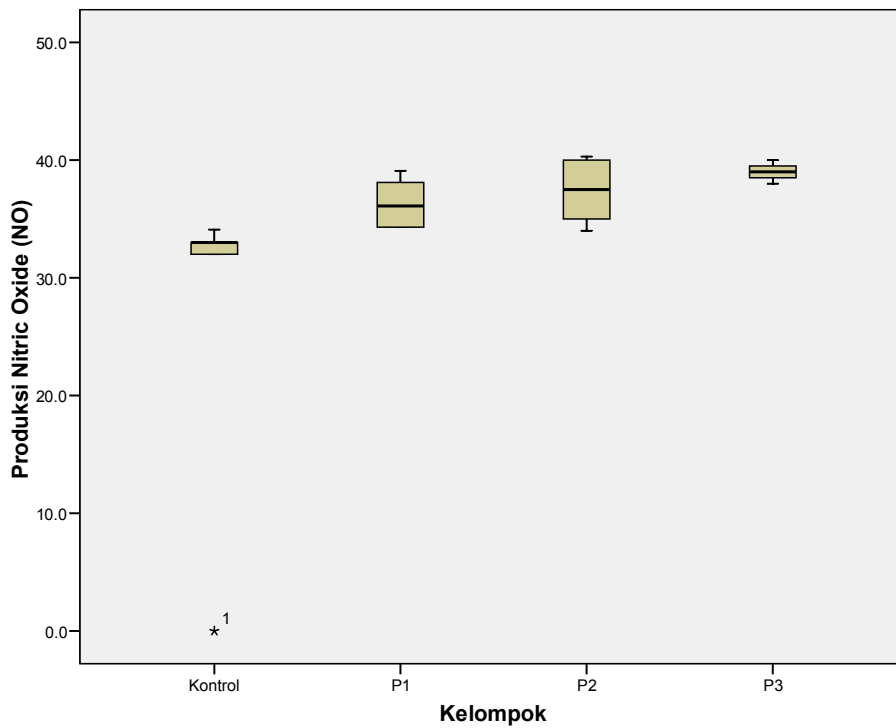
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Produksi Nitric Oxide (NO)

Levene Statistic	df1	df2	Sig.
4.905	3	16	.013



NPar Tests

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
Produksi Nitric Oxide (NO)	Kontrol	5	3.20
	P1	6	11.42
	P2	6	12.92
	P3	3	16.00
	Total	20	

Test Statistics^{a,b}

	Produksi Nitric Oxide (NO)
Chi-Square	11.394
df	3
Asymp. Sig.	.010

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi Nitric Oxide (NO)	Kontrol	5	3.00	15.00
	P1	6	8.50	51.00
	Total	11		

Test Statistics^b

	Produksi Nitric Oxide (NO)
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.751
Asymp. Sig. (2-tailed)	.006
Exact Sig. [2*(1-tailed Sig.)]	.004 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi Nitric Oxide (NO)	Kontrol	5	3.20	16.00
	P2	6	8.33	50.00
	Total	11		

Test Statistics^b

	Produksi Nitric Oxide (NO)
Mann-Whitney U	1.000
Wilcoxon W	16.000
Z	-2.562
Asymp. Sig. (2-tailed)	.010
Exact Sig. [2*(1-tailed Sig.)]	.009 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi Nitric Oxide (NO)	Kontrol	5	3.00	15.00
	P3	3	7.00	21.00
	Total	8		

Test Statistics^b

	Produksi Nitric Oxide (NO)
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.249
Asymp. Sig. (2-tailed)	.024
Exact Sig. [2*(1-tailed Sig.)]	.036 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi Nitric Oxide (NO)	P1	6	5.92	35.50
	P2	6	7.08	42.50
	Total	12		

Test Statistics^b

	Produksi Nitric Oxide (NO)
Mann-Whitney U	14.500
Wilcoxon W	35.500
Z	-.562
Asymp. Sig. (2-tailed)	.574
Exact Sig. [2*(1-tailed Sig.)]	.589 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi Nitric Oxide (NO)	P1	6	4.00	24.00
	P3	3	7.00	21.00
	Total	9		

Test Statistics^b

	Produksi Nitric Oxide (NO)
Mann-Whitney U	3.000
Wilcoxon W	24.000
Z	-1.556
Asymp. Sig. (2-tailed)	.120
Exact Sig. [2*(1-tailed Sig.)]	.167 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

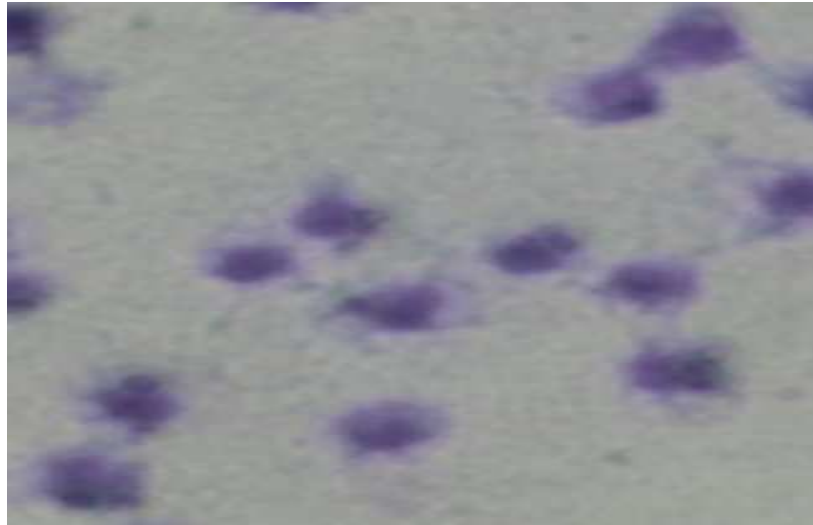
	Kelompok	N	Mean Rank	Sum of Ranks
Produksi Nitric Oxide (NO)	P2	6	4.50	27.00
	P3	3	6.00	18.00
	Total	9		

Test Statistics^b

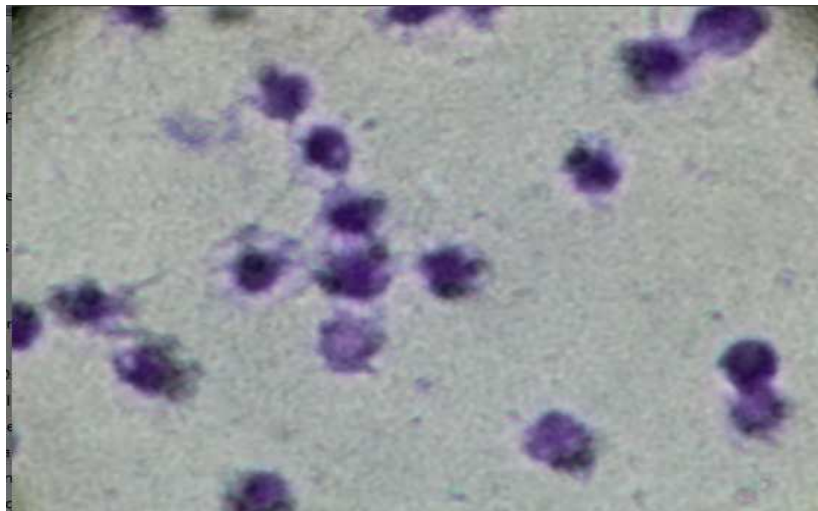
	Produksi Nitric Oxide (NO)
Mann-Whitney U	6.000
Wilcoxon W	27.000
Z	-.781
Asymp. Sig. (2-tailed)	.435
Exact Sig. [2*(1-tailed Sig.)]	.548 ^a

a. Not corrected for ties.

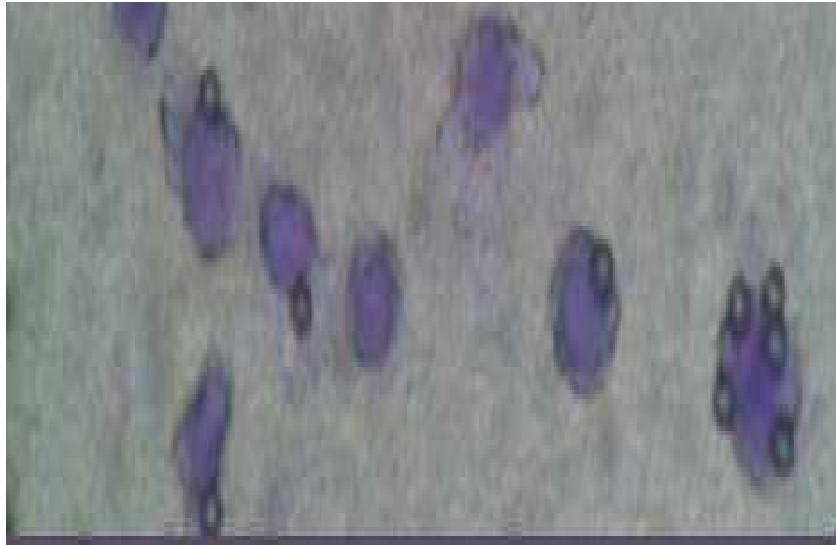
b. Grouping Variable: Kelompok



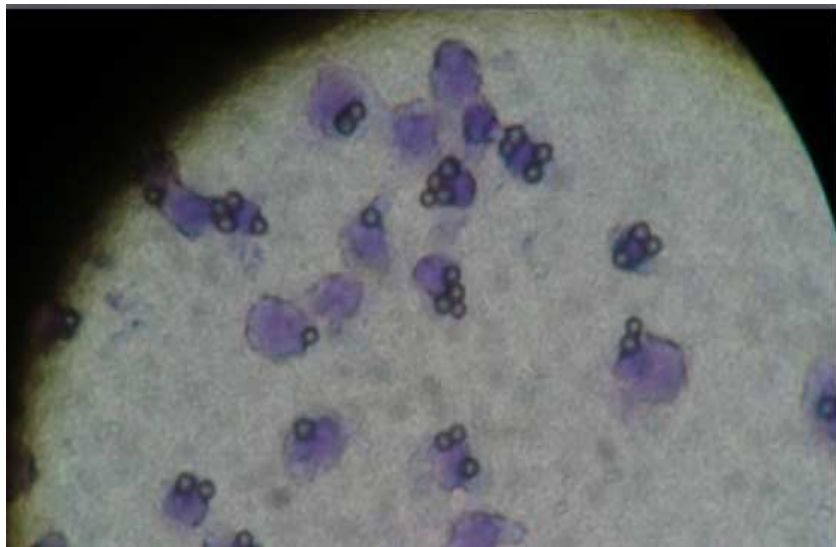
Kelompok Kontrol, aquades/hari, pembesaran objektif 40x



Kelompok perlakuan P1: 80 mg/hari, pembesaran objektif 40x



Kelompok perlakuan P2: 400 mg/hari, pembesaran objektif 40x



Kelompok perlakuan P3: 2000 mg/hari, pembesaran objektif 40x



Mencit yang digunakan dalam penelitian



Ekstrak yang telah diencerkan dengan menggunakan aquades



Perlakuan dengan cara menyonde



Mencit diinfeksi *Salmonella typhimurium*



Mencit didislokasi cervik



Mencit disuntikkan RPMI intraperitoneal



Pengambilan cairan intraperitoneal



Kultur makrofag



Perhitungan jumlah makrofag

