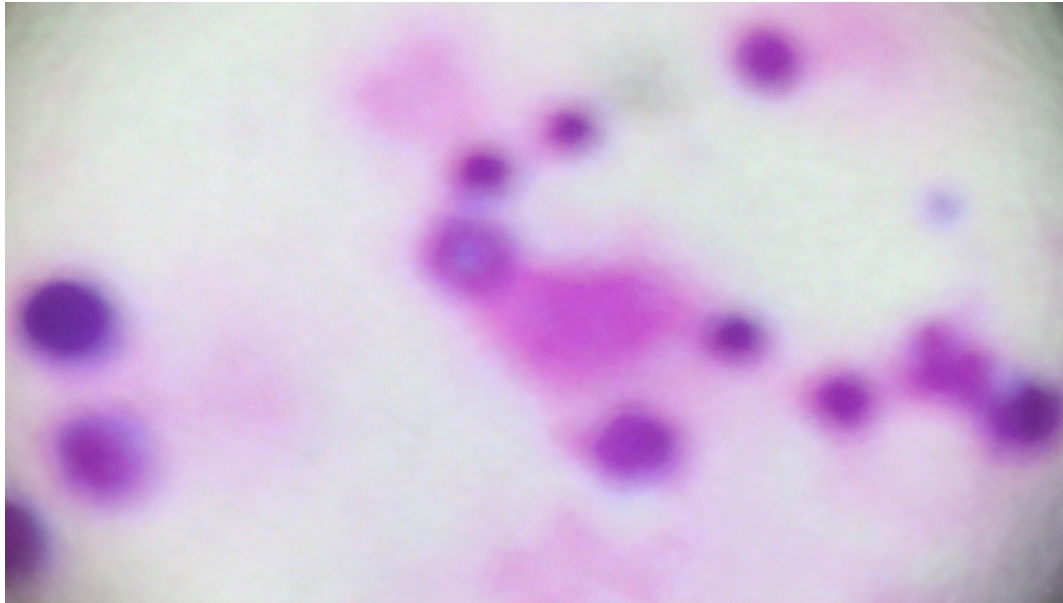
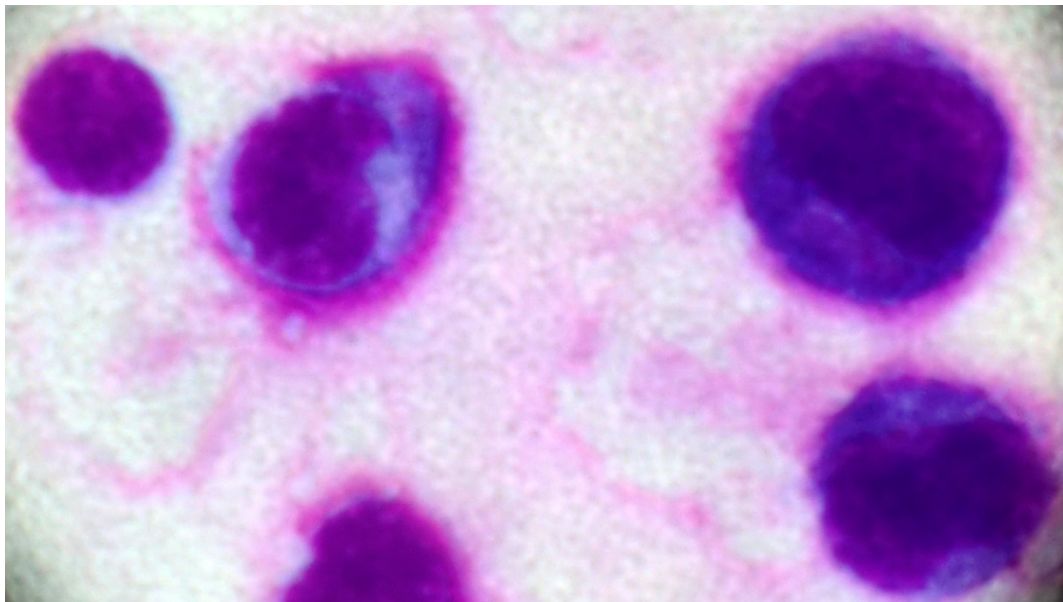


Lampiran 1. Foto Respon Proliferasi Limfosit di Limpa

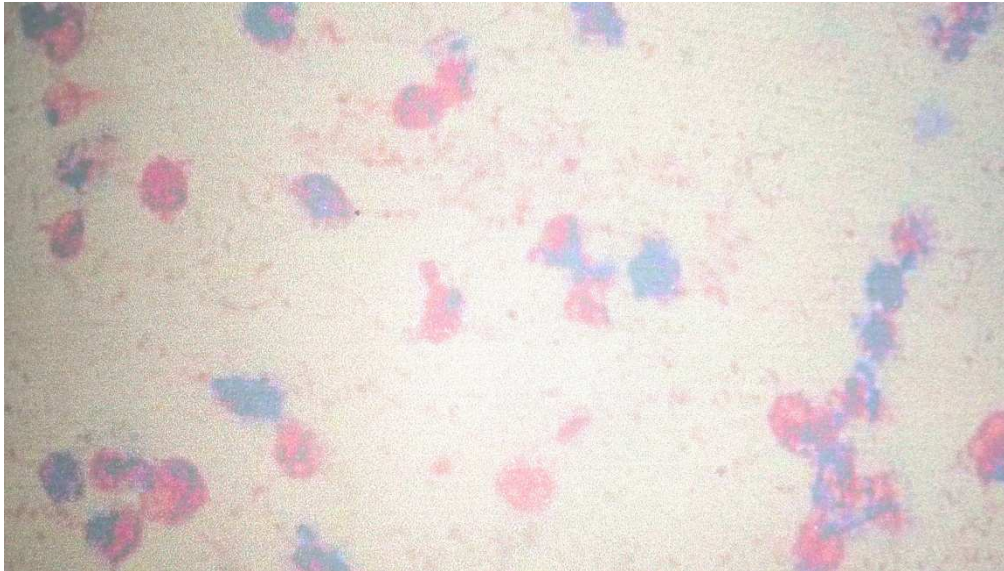


a. Perbesaran 400X



b. Perbesaran 1000X

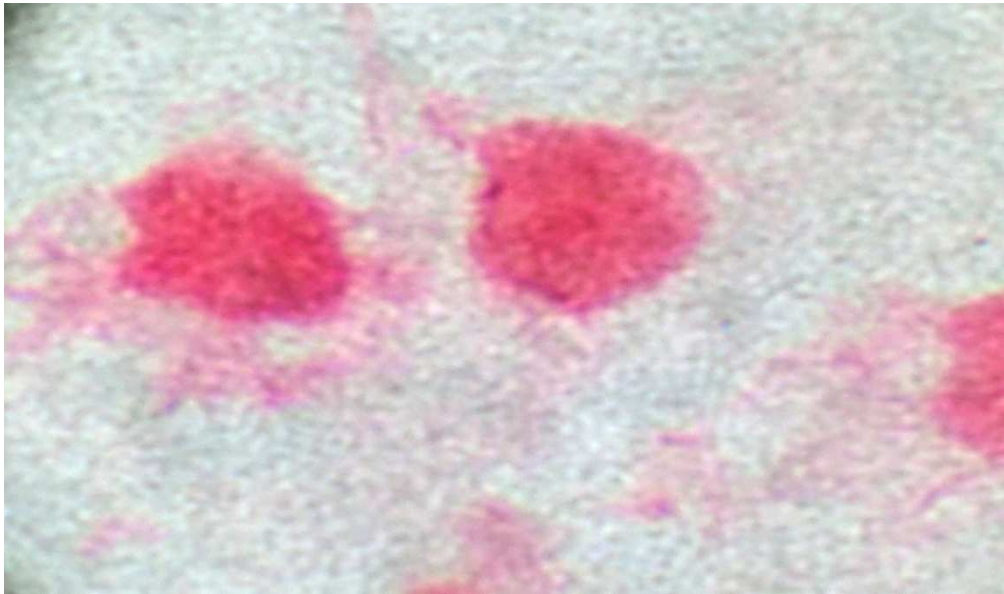
Lampiran 2. Foto Produksi ROI Makrofag



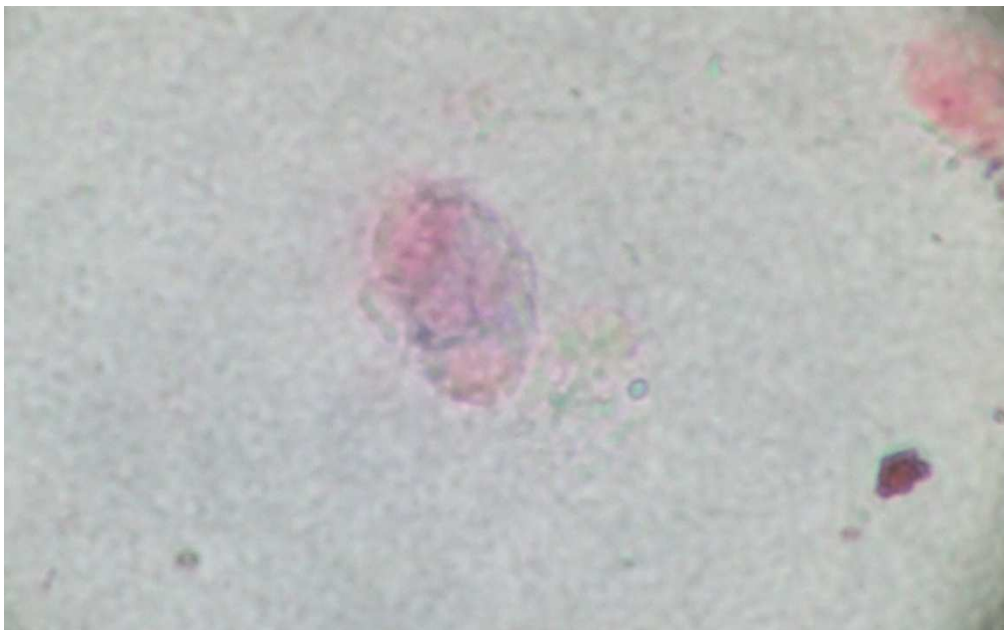
a. Derajat 1 – 4 (400X)



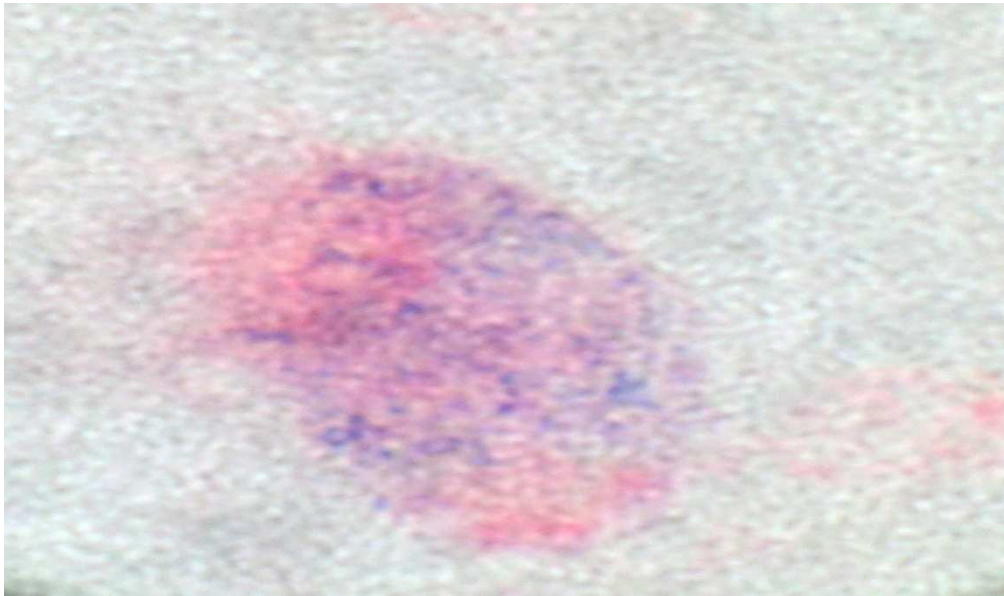
b. Derajat 1 (400X)



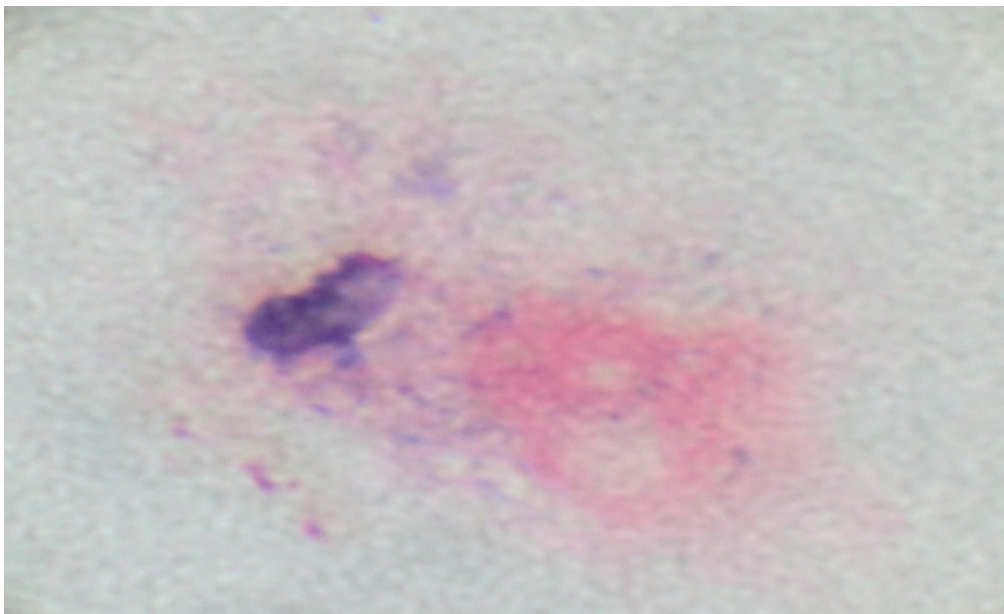
c. Derajat 1 (1000X)



d. Derajat 2 (1000X)



e. Derajat 3 (1000X)

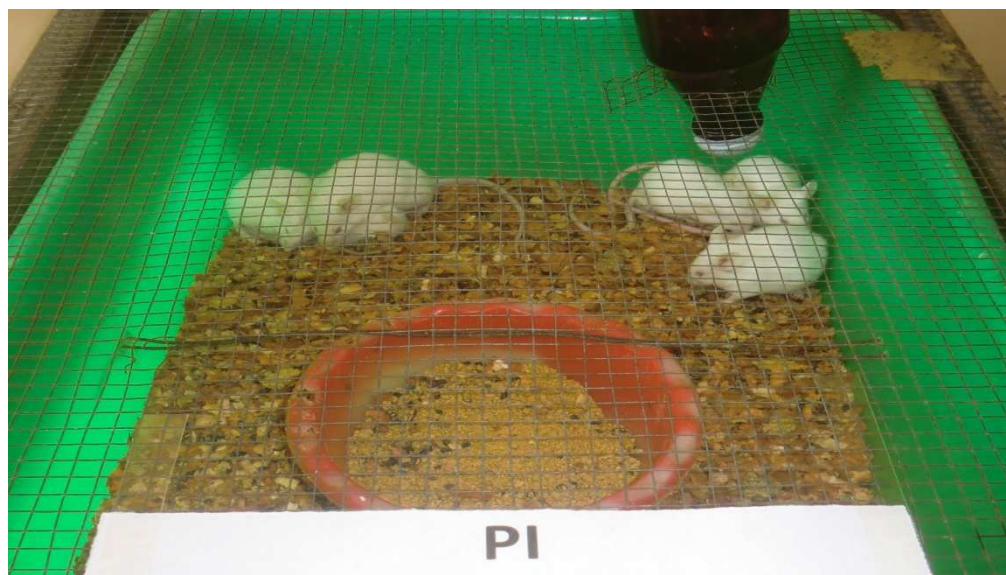


f. Derajat 4 (1000X)

Lampiran 3. Foto Hasil Penelitian



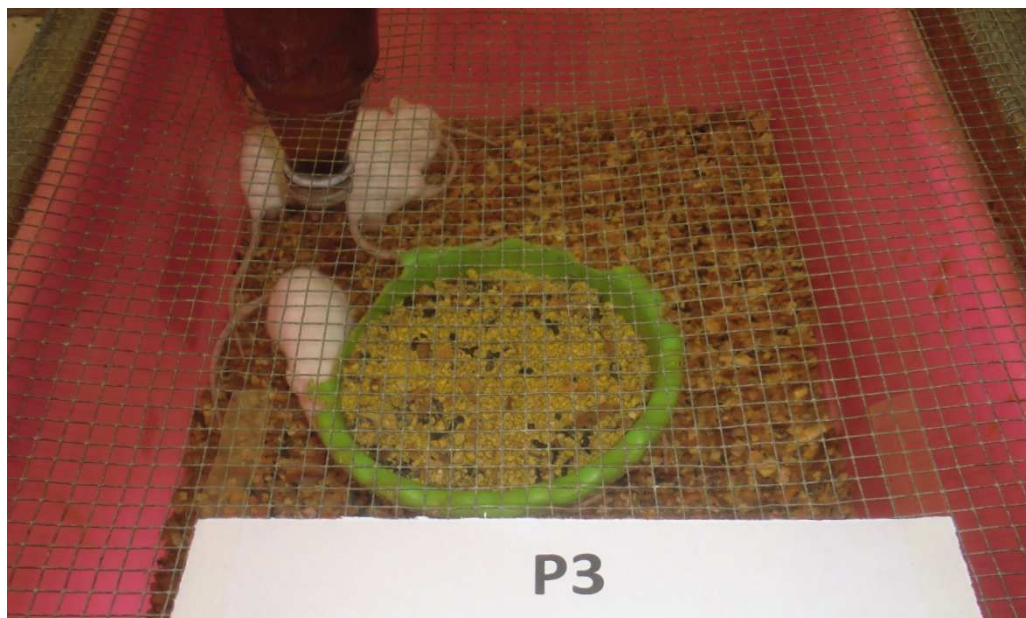
Gambar 1. Kandang Mencit Kelompok Kontrol



Gambar 2. Kandang Mencit Kelompok P1



Gambar 3. Kandang Mencit Kelompok P2



Gambar 4. Kandang Mencit Kelompok P3



Gambar 5. Injeksi *Salmonella typhimurium* Secara Intraperitoneal



Gambar 6. Pemberian Ekstrak *Merremia mammosa* Secara Oral



Gambar 7 . Pengambilan Sampel Organ Limpa Mencit



Gambar 8. Pengambilan Sampel *Peritoneal exudates cells* (PEC) Mencit

Lampiran 4. Data Hasil Pemeriksaan Laboratorium

Kelompok	Berat Limpa (mg)	Jumlah Limfosit ($\times 10^5$)	Jumlah Relatif Limfoblas	Produksi ROI Makrofag (Derajat Superoksid)
Kontrol	350	400	81	1,4
Kontrol	330	1200	74	1,8
Kontrol	310	700	90	1,5
Kontrol	370	300	60	1,7
Kontrol	450	900	64	1,8
P1	300	3000	100	3,0
P1	250	2950	96	3,3
P1	200	2500	81	3,2
P1	180	2175	80	3,2
P1	250	2000	98	3,3
P1	300	2500	103	3,3
P2	180	3000	108	3,3
P2	190	4800	112	3,3
P2	190	3400	108	3,0
P2	140	4400	102	3,6
P2	250	3000	100	3,2
P2	250	2600	101	3,2
P3	200	2800	112	3,3
P3	150	4300	104	3,6
P3	130	4000	109	3,3

Lampiran 5. Hasil Analisis Statistik

Berat limpa

Descriptives				Statistic	Std. Error
Kelompok					
Berat limpa	K	Mean		362.00	24.166
		95% Confidence Interval for Mean	Lower Bound	294.90	
			Upper Bound	429.10	
		5% Trimmed Mean		360.00	
		Median		350.00	
		Variance		2920.000	
		Std. Deviation		54.037	
		Minimum		310	
		Maximum		450	
		Range		140	
		Interquartile Range		90	
		Skewness		1.339	.913
		Kurtosis		2.021	2.000
	P1	Mean		246.67	20.276
		95% Confidence Interval for Mean	Lower Bound	194.55	
			Upper Bound	298.79	
		5% Trimmed Mean		247.41	
		Median		250.00	
		Variance		2466.667	
		Std. Deviation		49.666	
		Minimum		180	
		Maximum		300	
		Range		120	
		Interquartile Range		105	
		Skewness		-.231	.845
		Kurtosis		-1.570	1.741
	P2	Mean		200.00	17.512
		95% Confidence Interval for Mean	Lower Bound	154.98	
			Upper Bound	245.02	
		5% Trimmed Mean		200.56	
		Median		190.00	
		Variance		1840.000	
		Std. Deviation		42.895	
		Minimum		140	
		Maximum		250	
		Range		110	
		Interquartile Range		80	
		Skewness		.091	.845
		Kurtosis		-.949	1.741
	P3	Mean		160.00	20.817
		95% Confidence Interval for Mean	Lower Bound	70.43	
			Upper Bound	249.57	
		5% Trimmed Mean		.	
		Median		150.00	
		Variance		1300.000	
		Std. Deviation		36.056	
		Minimum		130	
		Maximum		200	
		Range		70	
		Interquartile Range		.	
		Skewness		1.152	1.225
		Kurtosis		.	.

Tests of Normality

Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Berat limpa K	.241	5	.200*	.903	5	.427
P1	.193	6	.200*	.898	6	.361
P2	.259	6	.200*	.888	6	.307
P3	.276	3	.	.942	3	.537

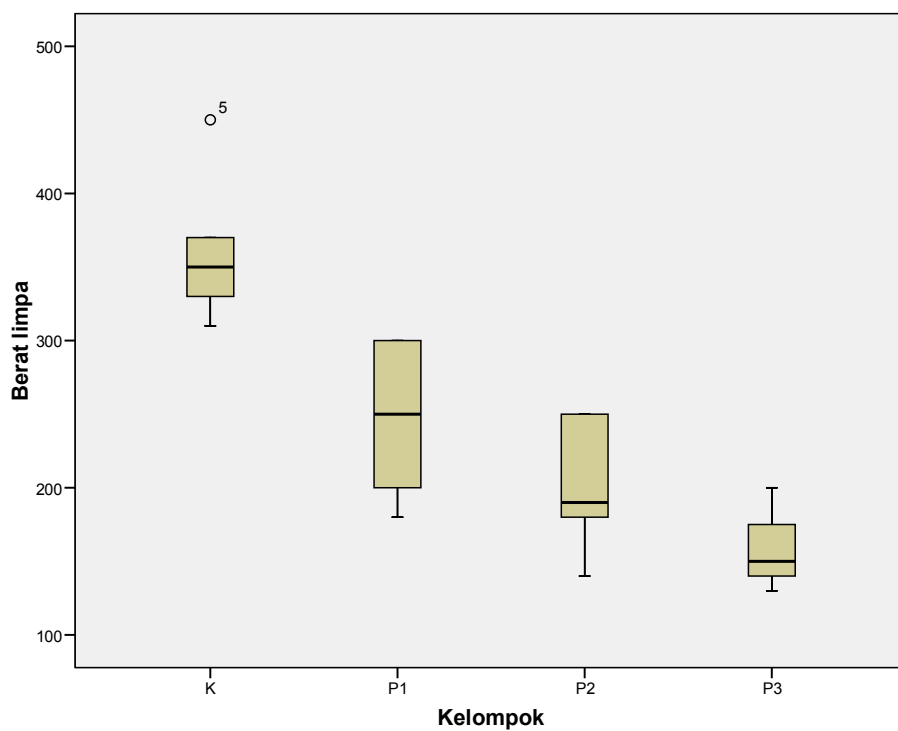
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Berat limpa

Levene Statistic	df1	df2	Sig.
.158	3	16	.923



Oneway

ANOVA

Berat limpa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	102041.7	3	34013.889	15.196	.000
Within Groups	35813.333	16	2238.333		
Total	137855.0	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Berat limpa

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K	P1	115.333*	28.648	.005	33.37	197.30
	P2	162.000*	28.648	.000	80.04	243.96
	P3	202.000*	34.551	.000	103.15	300.85
P1	K	-115.333*	28.648	.005	-197.30	-33.37
	P2	46.667	27.315	.352	-31.48	124.82
	P3	86.667	33.454	.083	-9.05	182.38
P2	K	-162.000*	28.648	.000	-243.96	-80.04
	P1	-46.667	27.315	.352	-124.82	31.48
	P3	40.000	33.454	.638	-55.71	135.71
P3	K	-202.000*	34.551	.000	-300.85	-103.15
	P1	-86.667	33.454	.083	-182.38	9.05
	P2	-40.000	33.454	.638	-135.71	55.71

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

Homogeneous Subsets

Berat limpa

Tukey HSD^{a,b}

Kelompok	N	Subset for alpha = .05	
		1	2
P3	3	160.00	
P2	6	200.00	
P1	6	246.67	
K	5		362.00
Sig.		.058	1.000

Means for groups in homogeneous subsets are displayed.

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

Explore

Jumlah limfosit

Descriptives

Kelompok				Statistic	Std. Error
Jumlah limfosit	K	Mean		700.00	164.317
		95% Confidence Interval for Mean	Lower Bound	243.78	
			Upper Bound	1156.22	
		5% Trimmed Mean		694.44	
		Median		700.00	
		Variance		135000.0	
		Std. Deviation		367.423	
		Minimum		300	
		Maximum		1200	
		Range		900	
		Interquartile Range		700	
		Skewness		.353	.913
		Kurtosis		-1.292	2.000
	P1	Mean		2520.83	163.862
		95% Confidence Interval for Mean	Lower Bound	2099.61	
			Upper Bound	2942.05	
		5% Trimmed Mean		2523.15	
		Median		2500.00	
		Variance		161104.2	
		Std. Deviation		401.378	
		Minimum		2000	
		Maximum		3000	
		Range		1000	
		Interquartile Range		831	
		Skewness		.030	.845
		Kurtosis		-1.543	1.741
	P2	Mean		3533.33	356.526
		95% Confidence Interval for Mean	Lower Bound	2616.85	
			Upper Bound	4449.81	
		5% Trimmed Mean		3514.81	
		Median		3200.00	
		Variance		762666.7	
		Std. Deviation		873.308	
		Minimum		2600	
		Maximum		4800	
		Range		2200	
		Interquartile Range		1600	
		Skewness		.705	.845
		Kurtosis		-1.365	1.741
	P3	Mean		3700.00	458.258
		95% Confidence Interval for Mean	Lower Bound	1728.28	
			Upper Bound	5671.72	
		5% Trimmed Mean		.	
		Median		4000.00	
		Variance		630000.0	
		Std. Deviation		793.725	
		Minimum		2800	
		Maximum		4300	
		Range		1500	
		Interquartile Range		.	
		Skewness		-1.458	1.225
		Kurtosis		.	.

Tests of Normality

Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Jumlah limfosit K	.193	5	.200*	.957	5	.787
P1	.191	6	.200*	.919	6	.500
P2	.229	6	.200*	.891	6	.321
P3	.314	3	.	.893	3	.363

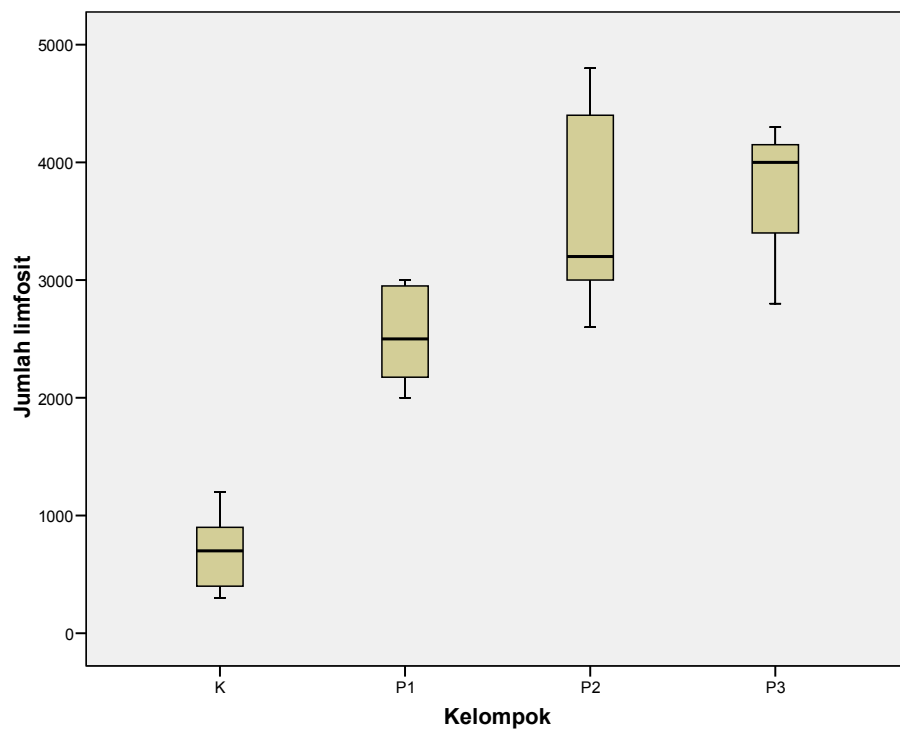
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Jumlah limfosit

Levene Statistic	df1	df2	Sig.
2.924	3	16	.066



Oneway

ANOVA

Jumlah limfosit

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	26886490	3	8962163.194	22.340	.000
Within Groups	6418854	16	401178.385		
Total	33305344	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Jumlah limfosit

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K	P1	-1820.833*	383.535	.001	-2918.13	-723.53
	P2	-2833.333*	383.535	.000	-3930.63	-1736.03
	P3	-3000.000*	462.560	.000	-4323.39	-1676.61
P1	K	1820.833*	383.535	.001	723.53	2918.13
	P2	-1012.500	365.686	.060	-2058.73	33.73
	P3	-1179.167	447.872	.077	-2460.54	102.20
P2	K	2833.333*	383.535	.000	1736.03	3930.63
	P1	1012.500	365.686	.060	-33.73	2058.73
	P3	-166.667	447.872	.982	-1448.04	1114.70
P3	K	3000.000*	462.560	.000	1676.61	4323.39
	P1	1179.167	447.872	.077	-102.20	2460.54
	P2	166.667	447.872	.982	-1114.70	1448.04

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

Homogeneous Subsets

Jumlah limfosit

Tukey HSD^{a,b}

Kelompok	N	Subset for alpha = .05	
		1	2
K	5	700.00	
P1	6		2520.83
P2	6		3533.33
P3	3		3700.00
Sig.		1.000	.053

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.

Explore

Jumlah relatif limfoblas

Descriptives

Kelompok				Statistic	Std. Error
Jumlah relatif limfoblas	K	Mean		73.80	5.481
		95% Confidence Interval for Mean	Lower Bound	58.58	
			Upper Bound	89.02	
		5% Trimmed Mean		73.67	
		Median		74.00	
		Variance		150.200	
		Std. Deviation		12.256	
		Minimum		60	
		Maximum		90	
		Range		30	
		Interquartile Range		24	
		Skewness		.239	.913
		Kurtosis		-1.514	2.000
	P1	Mean		93.00	4.066
		95% Confidence Interval for Mean	Lower Bound	82.55	
			Upper Bound	103.45	
		5% Trimmed Mean		93.17	
		Median		97.00	
		Variance		99.200	
		Std. Deviation		9.960	
		Minimum		80	
		Maximum		103	
		Range		23	
		Interquartile Range		20	
		Skewness		-.738	.845
		Kurtosis		-1.811	1.741
	P2	Mean		105.17	1.973
		95% Confidence Interval for Mean	Lower Bound	100.09	
			Upper Bound	110.24	
		5% Trimmed Mean		105.07	
		Median		105.00	
		Variance		23.367	
		Std. Deviation		4.834	
		Minimum		100	
		Maximum		112	
		Range		12	
		Interquartile Range		8	
		Skewness		.326	.845
		Kurtosis		-1.860	1.741
	P3	Mean		108.33	2.333
		95% Confidence Interval for Mean	Lower Bound	98.29	
			Upper Bound	118.37	
		5% Trimmed Mean		.	
		Median		109.00	
		Variance		16.333	
		Std. Deviation		4.041	
		Minimum		104	
		Maximum		112	
		Range		8	
		Interquartile Range		.	
		Skewness		-.722	1.225
		Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Jumlah relatif limfoblas	K	.188	5	.200*	.962	5	.823
	P1	.285	6	.139	.831	6	.109
	P2	.244	6	.200*	.892	6	.330
	P3	.232	3	.	.980	3	.726

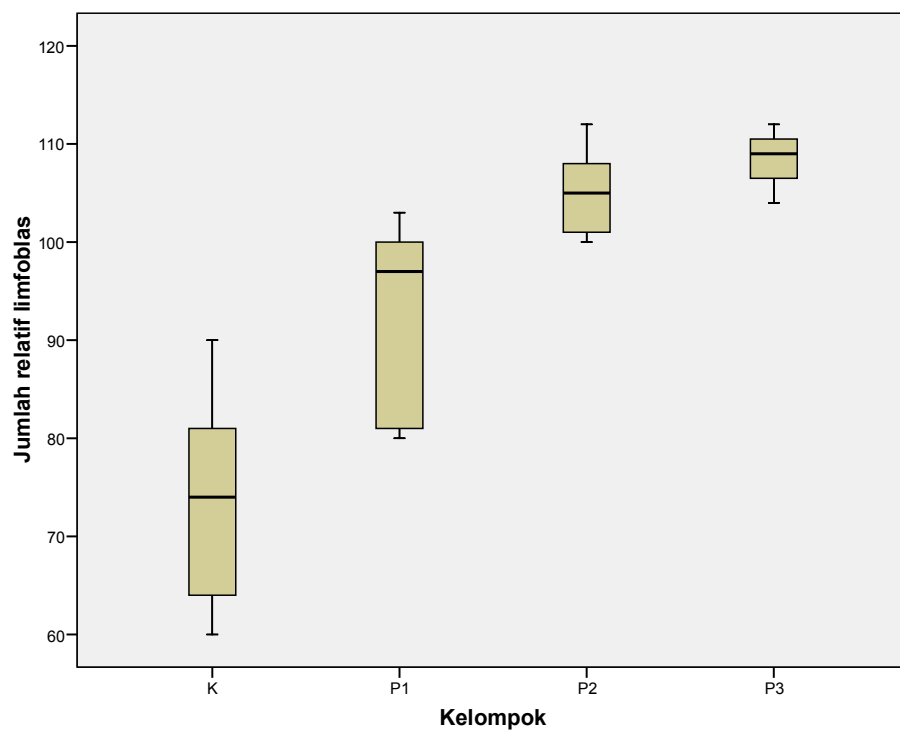
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Jumlah relatif limfoblas

Levene Statistic	df1	df2	Sig.
2.828	3	16	.072



Oneway

ANOVA

Jumlah relatif limfoblas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3410.250	3	1136.750	14.594	.000
Within Groups	1246.300	16	77.894		
Total	4656.550	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Jumlah relatif limfoblas

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K	P1	-19.200*	5.344	.012	-34.49	-3.91
	P2	-31.367*	5.344	.000	-46.66	-16.08
	P3	-34.533*	6.445	.000	-52.97	-16.09
P1	K	19.200*	5.344	.012	3.91	34.49
	P2	-12.167	5.096	.120	-26.75	2.41
	P3	-15.333	6.241	.106	-33.19	2.52
P2	K	31.367*	5.344	.000	16.08	46.66
	P1	12.167	5.096	.120	-2.41	26.75
	P3	-3.167	6.241	.956	-21.02	14.69
P3	K	34.533*	6.445	.000	16.09	52.97
	P1	15.333	6.241	.106	-2.52	33.19
	P2	3.167	6.241	.956	-14.69	21.02

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

Homogeneous Subsets

Jumlah relatif limfoblas

Tukey HSD^{a,b}

Kelompok	N	Subset for alpha = .05	
		1	2
K	5	73.80	
P1	6		93.00
P2	6		105.17
P3	3		108.33
Sig.		1.000	.076

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.

Explore

Produksi ROI

Descriptives

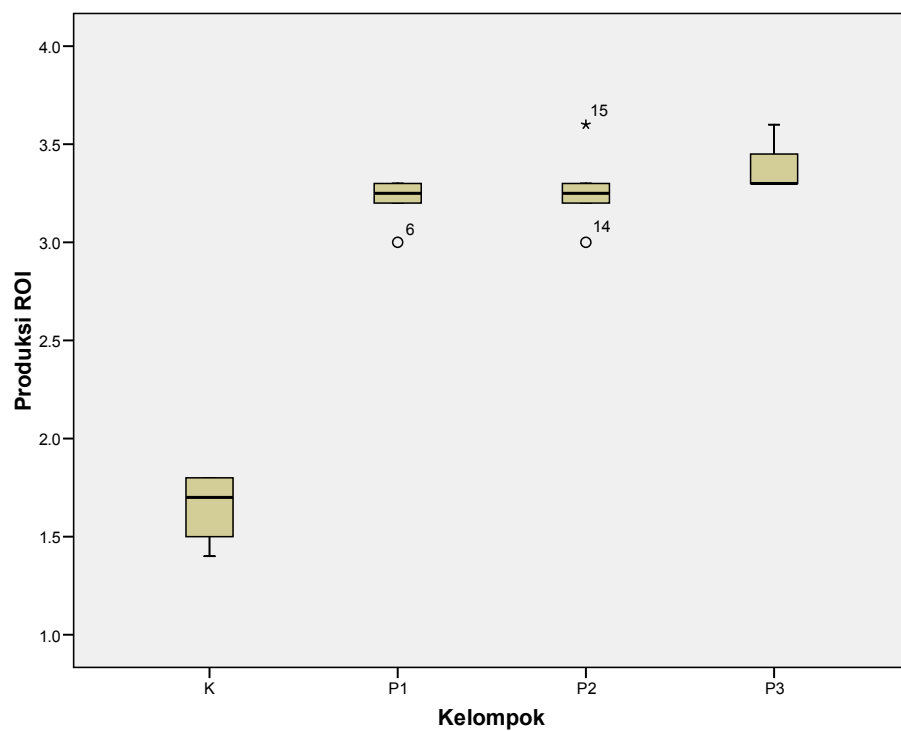
Kelompok				Statistic	Std. Error
Produksi ROI	K	Mean		1.640	.0812
		95% Confidence Interval for Mean	Lower Bound	1.414	
			Upper Bound	1.866	
		5% Trimmed Mean		1.644	
		Median		1.700	
		Variance		.033	
		Std. Deviation		.1817	
		Minimum		1.4	
		Maximum		1.8	
		Range		.4	
		Interquartile Range		.4	
		Skewness		-.567	.913
		Kurtosis		-2.231	2.000
	P1	Mean		3.217	.0477
		95% Confidence Interval for Mean	Lower Bound	3.094	
			Upper Bound	3.339	
		5% Trimmed Mean		3.224	
		Median		3.250	
		Variance		.014	
		Std. Deviation		.1169	
		Minimum		3.0	
		Maximum		3.3	
		Range		.3	
		Interquartile Range		.2	
		Skewness		-1.586	.845
		Kurtosis		2.552	1.741
	P2	Mean		3.267	.0803
		95% Confidence Interval for Mean	Lower Bound	3.060	
			Upper Bound	3.473	
		5% Trimmed Mean		3.263	
		Median		3.250	
		Variance		.039	
		Std. Deviation		.1966	
		Minimum		3.0	
		Maximum		3.6	
		Range		.6	
		Interquartile Range		.2	
		Skewness		.693	.845
		Kurtosis		1.917	1.741
	P3	Mean		3.400	.1000
		95% Confidence Interval for Mean	Lower Bound	2.970	
			Upper Bound	3.830	
		5% Trimmed Mean		.	
		Median		3.300	
		Variance		.030	
		Std. Deviation		.1732	
		Minimum		3.3	
		Maximum		3.6	
		Range		.3	
		Interquartile Range		.	
		Skewness		1.732	1.225
		Kurtosis		.	.

Tests of Normality

Kelompok		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Produksi ROI	K	.229	5	.200*	.867	5	.254
	P1	.277	6	.168	.773	6	.033
	P2	.266	6	.200*	.924	6	.535
	P3	.385	3	.	.750	3	.000

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

a. Lilliefors Significance Correction



NPar Tests

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
Produksi ROI	K	5	3.00
	P1	6	11.75
	P2	6	12.50
	P3	3	16.50
	Total	20	

Test Statistics^{a,b}

	Produksi ROI
Chi-Square	12.736
df	3
Asymp. Sig.	.005

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi ROI	K	5	3.00	15.00
	P1	6	8.50	51.00
	Total	11		

Test Statistics^b

	Produksi ROI
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.777
Asymp. Sig. (2-tailed)	.005
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 ROI	K	5	3.00	15.00
	P2	6	8.50	51.00
	Total	11		

Test Statistics^b

	Produksi ROI
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.757
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 ROI	K	5	3.00	15.00
	P3	3	7.00	21.00
	Total	8		

Test Statistics^b

	Produksi ROI
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.263
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 ROI	P1	6	6.25	37.50
	P2	6	6.75	40.50
	Total	12		

Test Statistics^b

	Produksi ROI
Mann-Whitney U	16.500
Wilcoxon W	37.500
Z	-.254
Asymp. Sig. (2-tailed)	.799
Exact Sig. [2*(1-tailed Sig.)]	.818 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Produksi ROI	P1	6	4.00	24.00
	P3	3	7.00	21.00
	Total	9		

Test Statistics^b

	Produksi ROI
Mann-Whitney U	3.000
Wilcoxon W	24.000
Z	-1.706
Asymp. Sig. (2-tailed)	.088
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 ROI	P2	6	4.25	25.50
	P3	3	6.50	19.50
	Total	9		

Test Statistics^b

	Produksi ROI
Mann-Whitney U	4.500
Wilcoxon W	25.500
Z	-1.225
Asymp. Sig. (2-tailed)	.221
Exact Sig. [2*(1-tailed Sig.)]	.262 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok