

LAMPIRAN

A. Hasil olah data SPSS VITAMIN D

a. Serial waktu 6 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	13.3183	.53979	.22037	12.7519	13.8848	12.47	13.80
1 med	6	16.1950	.40253	.16433	15.7726	16.6174	15.73	16.70
2 med	6	16.9800	.35327	.14422	16.6093	17.3507	16.58	17.54
3 med	6	17.9867	.34110	.13925	17.6287	18.3446	17.54	18.39
Total	24	16.1200	1.81715	.37092	15.3527	16.8873	12.47	18.39

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.078	3	20	.381

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.249	6	.200*	.882	6	.277
	1 med	.212	6	.200*	.916	6	.474
	2 med	.175	6	.200*	.958	6	.804
	3 med	.184	6	.200*	.939	6	.648

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	72.474	3	24.158	139.128	.000
Within Groups	3.473	20	.174		
Total	75.947	23			

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	1 med	-2.87667*	.24058	.000	-3.3785	-2.3748
	2 med	-3.66167*	.24058	.000	-4.1635	-3.1598
	3 med	-4.66833*	.24058	.000	-5.1702	-4.1665
1 med	kontrol	2.87667*	.24058	.000	2.3748	3.3785
	2 med	-.78500*	.24058	.004	-1.2868	-.2832
	3 med	-1.79167*	.24058	.000	-2.2935	-1.2898
2 med	kontrol	3.66167*	.24058	.000	3.1598	4.1635
	1 med	.78500*	.24058	.004	.2832	1.2868
	3 med	-1.00667*	.24058	.000	-1.5085	-.5048
3 med	kontrol	4.66833*	.24058	.000	4.1665	5.1702
	1 med	1.79167*	.24058	.000	1.2898	2.2935
	2 med	1.00667*	.24058	.000	.5048	1.5085

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

b. Serial waktu 12 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimu m	Maximu m
					Lower Bound	Upper Bound		
kontrol	6	13.1967	.41975	.17136	12.7562	13.6372	12.71	13.80
1 med	6	15.0100	.37181	.15179	14.6198	15.4002	14.65	15.49
2 med	6	15.5900	.31673	.12931	15.2576	15.9224	15.25	16.09
3 med	6	17.6017	.22719	.09275	17.3632	17.8401	17.30	17.91
Total	24	15.3496	1.63670	.33409	14.6585	16.0407	12.71	17.91

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.059	3	20	.389

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.163	6	.200 [*]	.953	6	.766
	1 med	.241	6	.200 [*]	.867	6	.213
	2 med	.291	6	.124	.908	6	.423
	3 med	.121	6	.200 [*]	.984	6	.968

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	59.280	3	19.760	169.482	.000
Within Groups	2.332	20	.117		
Total	61.612	23			

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	1 med	-1.81333 [*]	.19714	.000	-2.2246	-1.4021
	2 med	-2.39333 [*]	.19714	.000	-2.8046	-1.9821
	3 med	-4.40500 [*]	.19714	.000	-4.8162	-3.9938
1 med	kontrol	1.81333 [*]	.19714	.000	1.4021	2.2246
	2 med	-.58000 [*]	.19714	.008	-.9912	-.1688
	3 med	-2.59167 [*]	.19714	.000	-3.0029	-2.1804
2 med	kontrol	2.39333 [*]	.19714	.000	1.9821	2.8046
	1 med	.58000 [*]	.19714	.008	.1688	.9912
	3 med	-2.01167 [*]	.19714	.000	-2.4229	-1.6004
3 med	kontrol	4.40500 [*]	.19714	.000	3.9938	4.8162
	1 med	2.59167 [*]	.19714	.000	2.1804	3.0029
	2 med	2.01167 [*]	.19714	.000	1.6004	2.4229

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

c. Serial waktu 24 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimu m	Maximum
					Lower Bound	Upper Bound		
kontrol	6	13.0767	.48451	.19780	12.5682	13.5851	12.47	13.68
1 med	6	13.9600	.33657	.13740	13.6068	14.3132	13.56	14.40
2 med	6	15.2300	.39739	.16223	14.8130	15.6470	14.77	15.85
3 med	6	17.1600	.36726	.14993	16.7746	17.5454	16.70	17.66
Total	24	14.8567	1.61120	.32888	14.1763	15.5370	12.47	17.66

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.550	3	20	.654

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.192	6	.200*	.936	6	.630
	1 med	.183	6	.200*	.940	6	.660
	2 med	.147	6	.200*	.966	6	.866
	3 med	.274	6	.179	.915	6	.472

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	56.503	3	18.834	117.562	.000
Within Groups	3.204	20	.160		
Total	59.707	23			

Multiple Comparisons

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	1 med	-.88333*	.23109	.001	-1.3654	-.4013
	2 med	-2.15333*	.23109	.000	-2.6354	-1.6713
	3 med	-4.08333*	.23109	.000	-4.5654	-3.6013
1 med	kontrol	.88333*	.23109	.001	.4013	1.3654
	2 med	-1.27000*	.23109	.000	-1.7520	-.7880
	3 med	-3.20000*	.23109	.000	-3.6820	-2.7180
2 med	kontrol	2.15333*	.23109	.000	1.6713	2.6354
	1 med	1.27000*	.23109	.000	.7880	1.7520
	3 med	-1.93000*	.23109	.000	-2.4120	-1.4480
3 med	kontrol	4.08333*	.23109	.000	3.6013	4.5654
	1 med	3.20000*	.23109	.000	2.7180	3.6820
	2 med	1.93000*	.23109	.000	1.4480	2.4120

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

d. Serial waktu 48 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					kontrol	6		
1 med	6	13.2583	.37215	.15193	12.8678	13.6489	12.83	13.80
2 med	6	14.7867	.42222	.17237	14.3436	15.2298	14.28	15.49
3 med	6	17.0600	.37947	.15492	16.6618	17.4582	16.58	17.66
Total	24	14.5704	1.65231	.33728	13.8727	15.2681	12.71	17.66

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.225	3	20	.878

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	59.453	3	19.818	118.671	.000
Within Groups	3.340	20	.167		
Total	62.793	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.251	6	.200*	.871	6	.231
	1 med	.184	6	.200*	.955	6	.782
	2 med	.182	6	.200*	.962	6	.837
	3 med	.167	6	.200*	.979	6	.949

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-.08167	.23594	.733	-.5738	.4105
		2 med	-1.61000*	.23594	.000	-2.1022	-1.1178
		3 med	-3.88333*	.23594	.000	-4.3755	-3.3912
	1 med	kontrol	.08167	.23594	.733	-.4105	.5738
		2 med	-1.52833*	.23594	.000	-2.0205	-1.0362
		3 med	-3.80167*	.23594	.000	-4.2938	-3.3095
	2 med	kontrol	1.61000*	.23594	.000	1.1178	2.1022
		1 med	1.52833*	.23594	.000	1.0362	2.0205
		3 med	-2.27333*	.23594	.000	-2.7655	-1.7812
3 med	kontrol	3.88333*	.23594	.000	3.3912	4.3755	
	1 med	3.80167*	.23594	.000	3.3095	4.2938	
	2 med	2.27333*	.23594	.000	1.7812	2.7655	

B. Hasil olah data SPSS TNF- α

a. Serial waktu 6 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	42.8917	1.16772	.47672	41.6662	44.1171	41.08	44.62
1 med	6	41.6300	2.08925	.85293	39.4375	43.8225	39.57	44.87
2 med	6	32.1683	1.62581	.66373	30.4622	33.8745	30.74	35.03
3 med	6	30.4433	.97519	.39812	29.4199	31.4667	28.72	31.24
Total	24	36.7833	5.82494	1.18901	34.3237	39.2430	28.72	44.87

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.573	3	20	.227

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.181	6	.200*	.975	6	.927
	1 med	.233	6	.200*	.903	6	.393
	2 med	.216	6	.200*	.871	6	.229
	3 med	.212	6	.200*	.857	6	.178

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	733.774	3	244.591	104.944	.000
Within Groups	46.614	20	2.331		
Total	780.388	23			

Multiple Comparisons

Dependent Variable: hasil

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	1 med	1.26167	.88142	.168	-.5769	3.1003
	2 med	10.72333*	.88142	.000	8.8847	12.5619
	3 med	12.44833*	.88142	.000	10.6097	14.2869
1 med	kontrol	-1.26167	.88142	.168	-3.1003	.5769
	2 med	9.46167*	.88142	.000	7.6231	11.3003
	3 med	11.18667*	.88142	.000	9.3481	13.0253
2 med	kontrol	-10.72333*	.88142	.000	-12.5619	-8.8847
	1 med	-9.46167*	.88142	.000	-11.3003	-7.6231
	3 med	1.72500	.88142	.064	-.1136	3.5636
3 med	kontrol	-12.44833*	.88142	.000	-14.2869	-10.6097
	1 med	-11.18667*	.88142	.000	-13.0253	-9.3481
	2 med	-1.72500	.88142	.064	-3.5636	.1136

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

b. Serial waktu 12 jam

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	43.6900	1.03075	.42080	42.6083	44.7717	42.09	44.87
1 med	6	42.8500	.71277	.29099	42.1020	43.5980	42.09	44.11
2 med	6	35.4483	.65273	.26648	34.7633	36.1333	34.52	36.29
3 med	6	29.9817	.91545	.37373	29.0210	30.9424	28.47	30.99
Total	24	37.9925	5.80252	1.18443	35.5423	40.4427	28.47	44.87

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.232	6	.200*	.939	6	.651
	1 med	.196	6	.200*	.923	6	.529
	2 med	.151	6	.200*	.978	6	.943
	3 med	.166	6	.200*	.951	6	.747

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.601	3	20	.622

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	760.218	3	253.406	357.591	.000
Within Groups	14.173	20	.709		
Total	774.391	23			

Multiple Comparisons

Dependent Variable: hasil

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	1 med	.84000	.48602	.099	-.1738	1.8538
	2 med	8.24167*	.48602	.000	7.2278	9.2555
	3 med	13.70833*	.48602	.000	12.6945	14.7222
1 med	kontrol	-.84000	.48602	.099	-1.8538	.1738
	2 med	7.40167*	.48602	.000	6.3878	8.4155
	3 med	12.86833*	.48602	.000	11.8545	13.8822
2 med	kontrol	-8.24167*	.48602	.000	-9.2555	-7.2278
	1 med	-7.40167*	.48602	.000	-8.4155	-6.3878
	3 med	5.46667*	.48602	.000	4.4528	6.4805

3 med	kontrol	-13.70833*	.48602	.000	-14.7222	-12.6945
	1 med	-12.86833*	.48602	.000	-13.8822	-11.8545
	2 med	-5.46667*	.48602	.000	-6.4805	-4.4528

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

c. Serial waktu 24 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	44.4900	.69233	.28264	43.7634	45.2166	43.35	45.37
1 med	6	47.1383	1.12966	.46118	45.9528	48.3238	45.37	48.40
2 med	6	34.8183	1.42088	.58007	33.3272	36.3095	32.76	36.54
3 med	6	31.0333	.93451	.38151	30.0526	32.0140	29.48	32.00
Total	24	39.3700	6.86488	1.40129	36.4712	42.2688	29.48	48.40

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.247	3	20	.319

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.241	6	.200*	.954	6	.773
	1 med	.167	6	.200*	.954	6	.772
	2 med	.138	6	.200*	.973	6	.915
	3 med	.187	6	.200*	.933	6	.601

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean	Std. Error	Sig.	95% Confidence Interval	
			Difference (I-J)			Lower Bound	Upper Bound
LSD	kontrol	1 med	-2.64833*	.62234	.000	-3.9465	-1.3502
		2 med	9.67167*	.62234	.000	8.3735	10.9698
		3 med	13.45667*	.62234	.000	12.1585	14.7548
	1 med	kontrol	2.64833*	.62234	.000	1.3502	3.9465
		2 med	12.32000*	.62234	.000	11.0218	13.6182
		3 med	16.10500*	.62234	.000	14.8068	17.4032
	2 med	kontrol	-9.67167*	.62234	.000	-10.9698	-8.3735
		1 med	-12.32000*	.62234	.000	-13.6182	-11.0218
		3 med	3.78500*	.62234	.000	2.4868	5.0832
3 med	kontrol	-13.45667*	.62234	.000	-14.7548	-12.1585	
	1 med	-16.10500*	.62234	.000	-17.4032	-14.8068	
	2 med	-3.78500*	.62234	.000	-5.0832	-2.4868	

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

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1060.674	3	353.558	304.289	.000
Within Groups	23.238	20	1.162		
Total	1083.913	23			

d. Serial waktu 48 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	45.2050	.69021	.28178	44.4807	45.9293	44.11	46.13
1 med	6	43.3967	1.12342	.45863	42.2177	44.5756	42.09	44.87
2 med	6	36.6267	1.02862	.41993	35.5472	37.7061	35.03	37.80
3 med	6	31.7033	2.20505	.90021	29.3893	34.0174	29.48	34.77
Total	24	39.2329	5.66159	1.15567	36.8422	41.6236	29.48	46.13

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.147	6	.200*	.988	6	.984
	1 med	.195	6	.200*	.912	6	.448
	2 med	.244	6	.200*	.935	6	.618
	3 med	.248	6	.200*	.894	6	.341

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
6.839	3	20	.002

Kruskal-Wallis Test

Ranks

	kelompok	N	Mean Rank
hasil	kontrol	6	21.08
	1 med	6	15.92
	2 med	6	9.50
	3 med	6	3.50
	Total	24	

Test Statistics^{a,b}

	hasil
Chi-Square	21.060
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable:
kelompok

Mann-Whitney Test

Ranks

	kelompok	N	Mean Rank	Sum of Ranks
hasil	kontrol	6	9.08	54.50
	1 med	6	3.92	23.50
	Total	12		

Test Statistics^a

	hasil
Mann-Whitney U	2.500
Wilcoxon W	23.500
Z	-2.486
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.009 ^b

	kelompok	N	Mean Rank	Sum of Ranks
hasil	kontrol	6	9.50	57.00
	2 med	6	3.50	21.00
	Total	12		

	kelompok	N	Mean Rank	Sum of Ranks
hasil	1 med	6	9.50	57.00
	2 med	6	3.50	21.00
	Total	12		

Ranks

	kelompok	N	Mean Rank	Sum of Ranks
hasil	kontrol	6	9.50	57.00
	3 med	6	3.50	21.00
	Total	12		

Ranks

	kelompok	N	Mean Rank	Sum of Ranks
hasil	2 med	6	9.50	57.00
	3 med	6	3.50	21.00
	Total	12		

Ranks

	kelompok	N	Mean Rank	Sum of Ranks
hasil	1 med	6	9.50	57.00
	3 med	6	3.50	21.00
	Total	12		

Test Statistics^a

	hasil
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-2.882
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^b

Test Statistics^a

	hasil
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-2.882
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^b

Test Statistics^a

	hasil
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-2.887
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^b

Test Statistics^a

	hasil
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-2.887
Asymp. Sig. (2-tailed)	.004
Exact Sig. [2*(1-tailed Sig.)]	.002 ^b

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	209.317	3	69.772	105.025	.000
Within Groups	13.287	20	.664		
Total	222.603	23			

C. Hasil olah data SPSS VEGF

a. Serial waktu 6 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	19.5350	1.07178	.43755	18.4102	20.6598	17.93	20.78
1 med	6	24.3733	.80733	.32959	23.5261	25.2206	23.20	25.18
2 med	6	25.4683	.80243	.32759	24.6262	26.3104	24.30	26.27
3 med	6	27.5900	.46148	.18840	27.1057	28.0743	26.93	28.03
Total	24	24.2417	3.11101	.63503	22.9280	25.5553	17.93	28.03

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.189	3	20	.339

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.164	6	.200*	.958	6	.806
	1 med	.266	6	.200*	.889	6	.312
	2 med	.266	6	.200*	.889	6	.313
	3 med	.183	6	.200*	.890	6	.320

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-4.83833*	.47058	.000	-5.8199	-3.8567
		2 med	-5.93333*	.47058	.000	-6.9149	-4.9517
		3 med	-8.05500*	.47058	.000	-9.0366	-7.0734
	1 med	kontrol	4.83833*	.47058	.000	3.8567	5.8199
		2 med	-1.09500*	.47058	.031	-2.0766	-.1134
		3 med	-3.21667*	.47058	.000	-4.1983	-2.2351
	2 med	kontrol	5.93333*	.47058	.000	4.9517	6.9149
		1 med	1.09500*	.47058	.031	.1134	2.0766
		3 med	-2.12167*	.47058	.000	-3.1033	-1.1401
	3 med	kontrol	8.05500*	.47058	.000	7.0734	9.0366
		1 med	3.21667*	.47058	.000	2.2351	4.1983
		2 med	2.12167*	.47058	.000	1.1401	3.1033

b. Serial waktu 12 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	19.6450	1.01398	.41395	18.5809	20.7091	18.15	20.78
1 med	6	22.1733	.81924	.33445	21.3136	23.0331	21.22	23.20
2 med	6	23.3100	.77157	.31499	22.5003	24.1197	22.32	24.30
3 med	6	27.2600	.63381	.25875	26.5949	27.9251	26.49	28.03
Total	24	23.0971	2.90692	.59337	21.8696	24.3246	18.15	28.03

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.360	3	20	.782

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	180.872	3	60.291	89.441	.000
Within Groups	13.482	20	.674		
Total	194.354	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.180	6	.200*	.945	6	.702
	1 med	.211	6	.200*	.907	6	.414
	2 med	.174	6	.200*	.951	6	.748
	3 med	.199	6	.200*	.917	6	.484

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-2.52833*	.47402	.000	-3.5171	-1.5395
		2 med	-3.66500*	.47402	.000	-4.6538	-2.6762
		3 med	-7.61500*	.47402	.000	-8.6038	-6.6262
	1 med	kontrol	2.52833*	.47402	.000	1.5395	3.5171
		2 med	-1.13667*	.47402	.026	-2.1255	-.1479
		3 med	-5.08667*	.47402	.000	-6.0755	-4.0979
	2 med	kontrol	3.66500*	.47402	.000	2.6762	4.6538
		1 med	1.13667*	.47402	.026	.1479	2.1255
		3 med	-3.95000*	.47402	.000	-4.9388	-2.9612
3 med	kontrol	7.61500*	.47402	.000	6.6262	8.6038	
	1 med	5.08667*	.47402	.000	4.0979	6.0755	
	2 med	3.95000*	.47402	.000	2.9612	4.9388	

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

c. Serial waktu 24 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	19.7550	1.05440	.43046	18.6485	20.8615	18.59	21.44
1 med	6	21.1100	.92033	.37572	20.1442	22.0758	19.90	22.32
2 med	6	21.9533	.96064	.39218	20.9452	22.9615	21.22	23.86
3 med	6	27.0400	.41158	.16803	26.6081	27.4719	26.49	27.59
Total	24	22.4646	2.93028	.59814	21.2272	23.7019	18.59	27.59

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.185	3	20	.341

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	182.235	3	60.745	79.640	.000
Within Groups	15.255	20	.763		
Total	197.490	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.151	6	.200*	.955	6	.778
	1 med	.225	6	.200*	.948	6	.728
	2 med	.364	6	.130*	.719	6	.100
	3 med	.122	6	.200*	.982	6	.961

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-1.35500*	.50423	.014	-2.4068	-.3032
		2 med	-2.19833*	.50423	.000	-3.2501	-1.1465
		3 med	-7.28500*	.50423	.000	-8.3368	-6.2332
	1 med	kontrol	1.35500*	.50423	.014	.3032	2.4068
		2 med	-.84333	.50423	.110	-1.8951	.2085
		3 med	-5.93000*	.50423	.000	-6.9818	-4.8782
	2 med	kontrol	2.19833*	.50423	.000	1.1465	3.2501
		1 med	.84333	.50423	.110	-.2085	1.8951
		3 med	-5.08667*	.50423	.000	-6.1385	-4.0349
3 med	kontrol	7.28500*	.50423	.000	6.2332	8.3368	
	1 med	5.93000*	.50423	.000	4.8782	6.9818	
	2 med	5.08667*	.50423	.000	4.0349	6.1385	

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

d. Serial waktu 48 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	18.6233	1.30408	.53239	17.2548	19.9919	16.83	20.56
1 med	6	20.2667	.96064	.39218	19.2585	21.2748	19.02	21.44
2 med	6	22.2100	.92033	.37572	21.2442	23.1758	21.00	23.42
3 med	6	26.7833	.47525	.19402	26.2846	27.2821	26.05	27.37
Total	24	21.9708	3.24671	.66273	20.5999	23.3418	16.83	27.37

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.224	3	20	.327

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	223.964	3	74.655	80.788	.000
Within Groups	18.482	20	.924		
Total	242.445	23			

D. Hasil olah data SPSS PDGF

a. Serial waktu 6 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	32.8483	.74413	.30379	32.0674	33.6293	31.80	33.77
1 med	6	37.4700	.65226	.26628	36.7855	38.1545	36.52	38.29
2 med	6	41.5383	1.25665	.51303	40.2196	42.8571	40.06	43.41
3 med	6	44.8517	.72032	.29407	44.0957	45.6076	44.00	45.77
Total	24	39.1771	4.66181	.95159	37.2086	41.1456	31.80	45.77

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.123	3	20	.364

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	484.462	3	161.487	209.914	.000
Within Groups	15.386	20	.769		
Total	499.848	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.172	6	.200 [*]	.963	6	.845
	1 med	.185	6	.200 [*]	.966	6	.866
	2 med	.179	6	.200 [*]	.952	6	.755
	3 med	.174	6	.200 [*]	.935	6	.615

Multiple Comparisons

Dependent Variable: hasil

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	1 med	-4.62167*	.50639	.000	-5.6780	-3.5653
	2 med	-8.69000*	.50639	.000	-9.7463	-7.6337
	3 med	-12.00333*	.50639	.000	-13.0597	-10.9470
1 med	kontrol	4.62167*	.50639	.000	3.5653	5.6780
	2 med	-4.06833*	.50639	.000	-5.1247	-3.0120
	3 med	-7.38167*	.50639	.000	-8.4380	-6.3253
2 med	kontrol	8.69000*	.50639	.000	7.6337	9.7463
	1 med	4.06833*	.50639	.000	3.0120	5.1247
	3 med	-3.31333*	.50639	.000	-4.3697	-2.2570
3 med	kontrol	12.00333*	.50639	.000	10.9470	13.0597
	1 med	7.38167*	.50639	.000	6.3253	8.4380
	2 med	3.31333*	.50639	.000	2.2570	4.3697

b. Serial waktu 12 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	32.2900	.75482	.30816	31.4979	33.0821	31.40	33.37
1 med	6	37.0450	.68925	.28139	36.3217	37.7683	36.13	37.90
2 med	6	41.7017	1.12455	.45910	40.5215	42.8818	40.06	43.21
3 med	6	44.2283	.54985	.22448	43.6513	44.8054	43.60	44.98
Total	24	38.8163	4.72336	.96415	36.8218	40.8107	31.40	44.98

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.074	3	20	.383

E.

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.154	6	.200 [*]	.956	6	.785
	1 med	.204	6	.200 [*]	.931	6	.586
	2 med	.126	6	.200 [*]	.989	6	.986
	3 med	.187	6	.200 [*]	.926	6	.546

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	500.073	3	166.691	255.291	.000
Within Groups	13.059	20	.653		
Total	513.132	23			

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-4.75500 [*]	.46653	.000	-5.7282	-3.7818
		2 med	-9.41167 [*]	.46653	.000	-10.3848	-8.4385
		3 med	-11.93833 [*]	.46653	.000	-12.9115	-10.9652
	1 med	kontrol	4.75500 [*]	.46653	.000	3.7818	5.7282
		2 med	-4.65667 [*]	.46653	.000	-5.6298	-3.6835
		3 med	-7.18333 [*]	.46653	.000	-8.1565	-6.2102
	2 med	kontrol	9.41167 [*]	.46653	.000	8.4385	10.3848
		1 med	4.65667 [*]	.46653	.000	3.6835	5.6298
		3 med	-2.52667 [*]	.46653	.000	-3.4998	-1.5535
3 med	kontrol	11.93833 [*]	.46653	.000	10.9652	12.9115	
	1 med	7.18333 [*]	.46653	.000	6.2102	8.1565	
	2 med	2.52667 [*]	.46653	.000	1.5535	3.4998	

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

c. Serial waktu 24 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	32.0600	.86898	.35476	31.1481	32.9719	30.81	32.98
1 med	6	36.8483	.55098	.22494	36.2701	37.4265	36.13	37.50
2 med	6	41.2433	.98806	.40337	40.2064	42.2802	40.06	42.82
3 med	6	44.3267	.72232	.29489	43.5686	45.0847	43.41	45.18
Total	24	38.6196	4.78451	.97663	36.5993	40.6399	30.81	45.18

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.517	3	20	.675

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	513.722	3	171.241	267.908	.000
Within Groups	12.784	20	.639		
Total	526.505	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kontrol	.226	6	.200*	.910	6	.437
	1 med	.183	6	.200*	.938	6	.643
	2 med	.168	6	.200*	.970	6	.892
	3 med	.176	6	.200*	.933	6	.601

d. Serial waktu 48 jam

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	6	31.8650	.80540	.32880	31.0198	32.7102	30.81	32.78
1 med	6	36.7183	.44906	.18333	36.2471	37.1896	36.13	37.31
2 med	6	41.0800	1.18227	.48266	39.8393	42.3207	39.87	43.21
3 med	6	43.8017	.83722	.34179	42.9231	44.6803	42.42	44.59
Total	24	38.3663	4.69081	.95751	36.3855	40.3470	30.81	44.59

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-4.78833*	.46158	.000	-5.7512	-3.8255
		2 med	-9.18333*	.46158	.000	-10.1462	-8.2205
		3 med	-12.26667*	.46158	.000	-13.2295	-11.3038
	1 med	kontrol	4.78833*	.46158	.000	3.8255	5.7512
		2 med	-4.39500*	.46158	.000	-5.3578	-3.4322
		3 med	-7.47833*	.46158	.000	-8.4412	-6.5155
	2 med	kontrol	9.18333*	.46158	.000	8.2205	10.1462
		1 med	4.39500*	.46158	.000	3.4322	5.3578
		3 med	-3.08333*	.46158	.000	-4.0462	-2.1205
	3 med	kontrol	12.26667*	.46158	.000	11.3038	13.2295
		1 med	7.47833*	.46158	.000	6.5155	8.4412
		2 med	3.08333*	.46158	.000	2.1205	4.0462

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.058	3	20	.389

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	491.340	3	163.780	222.148	.000
Within Groups	14.745	20	.737		
Total	506.086	23			

Multiple Comparisons

Dependent Variable: hasil

	(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	kontrol	1 med	-4.85333*	.49573	.000	-5.8874	-3.8193
		2 med	-9.21500*	.49573	.000	-10.2491	-8.1809
		3 med	-11.93667*	.49573	.000	-12.9707	-10.9026
	1 med	kontrol	4.85333*	.49573	.000	3.8193	5.8874
		2 med	-4.36167*	.49573	.000	-5.3957	-3.3276
		3 med	-7.08333*	.49573	.000	-8.1174	-6.0493
	2 med	kontrol	9.21500*	.49573	.000	8.1809	10.2491
		1 med	4.36167*	.49573	.000	3.3276	5.3957
		3 med	-2.72167*	.49573	.000	-3.7557	-1.6876
3 med	kontrol	11.93667*	.49573	.000	10.9026	12.9707	
	1 med	7.08333*	.49573	.000	6.0493	8.1174	
	2 med	2.72167*	.49573	.000	1.6876	3.7557	

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

A. Hasil olah data SPSS antar serial waktu VITAMIN D

a. Kelompok kontrol

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	13.3183	.53979	.22037	12.7519	13.8848	12.47	13.80
12 jam	6	13.1967	.41975	.17136	12.7562	13.6372	12.71	13.80
24 jam	6	13.0767	.48451	.19780	12.5682	13.5851	12.47	13.68
48 jam	6	13.1767	.45522	.18584	12.6989	13.6544	12.71	13.80
Total	24	13.1921	.45324	.09252	13.0007	13.3835	12.47	13.80

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.321	3	20	.810

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.177	3	.059	.260	.854
Within Groups	4.548	20	.227		
Total	4.725	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.249	6	.200 ⁺	.882	6	.277
	12 jam	.163	6	.200 ⁺	.953	6	.766
	24 jam	.192	6	.200 ⁺	.936	6	.630
	48 jam	.251	6	.200 ⁺	.871	6	.231

b. Kelompok 1 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	16.1950	.40253	.16433	15.7726	16.6174	15.73	16.70
12 jam	6	15.0100	.37181	.15179	14.6198	15.4002	14.65	15.49
24 jam	6	13.9600	.33657	.13740	13.6068	14.3132	13.56	14.40
48 jam	6	13.2583	.37215	.15193	12.8678	13.6489	12.83	13.80
Total	24	14.6058	1.18487	.24186	14.1055	15.1062	12.83	16.70

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.220	3	20	.881

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	29.530	3	9.843	71.322	.000
Within Groups	2.760	20	.138		
Total	32.290	23			

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.212	6	.200 [*]	.916	6	.474
	12 jam	.241	6	.200 [*]	.867	6	.213
	24 jam	.183	6	.200 [*]	.940	6	.660
	48 jam	.184	6	.200 [*]	.955	6	.782

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	1.18500 [*]	.21449	.000	.7376	1.6324
	24 jam	2.23500 [*]	.21449	.000	1.7876	2.6824
	48 jam	2.93667 [*]	.21449	.000	2.4893	3.3841
12 jam	6 jam	-1.18500 [*]	.21449	.000	-1.6324	-.7376
	24 jam	1.05000 [*]	.21449	.000	.6026	1.4974
	48 jam	1.75167 [*]	.21449	.000	1.3043	2.1991
24 jam	6 jam	-2.23500 [*]	.21449	.000	-2.6824	-1.7876
	12 jam	-1.05000 [*]	.21449	.000	-1.4974	-.6026
	48 jam	.70167 [*]	.21449	.004	.2543	1.1491
48 jam	6 jam	-2.93667 [*]	.21449	.000	-3.3841	-2.4893
	12 jam	-1.75167 [*]	.21449	.000	-2.1991	-1.3043
	24 jam	-.70167 [*]	.21449	.004	-1.1491	-.2543

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

c. Kelompok 2 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	16.9800	.35327	.14422	16.6093	17.3507	16.58	17.54
12 jam	6	15.5900	.31673	.12931	15.2576	15.9224	15.25	16.09
24 jam	6	15.2300	.39739	.16223	14.8130	15.6470	14.77	15.85
48 jam	6	14.7867	.42222	.17237	14.3436	15.2298	14.28	15.49
Total	24	15.6467	.90822	.18539	15.2632	16.0302	14.28	17.54

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16.165	3	5.388	38.399	.000
Within Groups	2.807	20	.140		
Total	18.972	23			

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.087	3	20	.966

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.175	6	.200 [*]	.958	6	.804
	12 jam	.291	6	.124	.908	6	.423
	24 jam	.147	6	.200 [*]	.966	6	.866
	48 jam	.182	6	.200 [*]	.962	6	.837

LSD Multiple Comparisons

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	1.39000*	.21628	.000	.9389	1.8411
	24 jam	1.75000*	.21628	.000	1.2989	2.2011
	48 jam	2.19333*	.21628	.000	1.7422	2.6445
12 jam	6 jam	-1.39000*	.21628	.000	-1.8411	-.9389
	24 jam	.36000	.21628	.112	-.0911	.8111
	48 jam	.80333*	.21628	.001	.3522	1.2545
24 jam	6 jam	-1.75000*	.21628	.000	-2.2011	-1.2989
	12 jam	-.36000	.21628	.112	-.8111	.0911
	48 jam	.44333	.21628	.054	-.0078	.8945
48 jam	6 jam	-2.19333*	.21628	.000	-2.6445	-1.7422
	12 jam	-.80333*	.21628	.001	-1.2545	-.3522
	24 jam	-.44333	.21628	.054	-.8945	.0078

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

d. Kelompok 3 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	17.9867	.34110	.13925	17.6287	18.3446	17.54	18.39
12 jam	6	17.6017	.22719	.09275	17.3632	17.8401	17.30	17.91
24 jam	6	17.1600	.36726	.14993	16.7746	17.5454	16.70	17.66
48 jam	6	17.0600	.37947	.15492	16.6618	17.4582	16.58	17.66
Total	24	17.4521	.48978	.09998	17.2453	17.6589	16.58	18.39

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.577	3	20	.637

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.283	3	1.094	9.797	.000
Within Groups	2.234	20	.112		
Total	5.517	23			

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	.38500	.19297	.060	-.0175	.7875
	24 jam	.82667*	.19297	.000	.4241	1.2292
	48 jam	.92667*	.19297	.000	.5241	1.3292
12 jam	6 jam	-.38500	.19297	.060	-.7875	.0175
	24 jam	.44167*	.19297	.033	.0391	.8442
	48 jam	.54167*	.19297	.011	.1391	.9442
24 jam	6 jam	-.82667*	.19297	.000	-1.2292	-.4241
	12 jam	-.44167*	.19297	.033	-.8442	-.0391
	48 jam	.10000	.19297	.610	-.3025	.5025
48 jam	6 jam	-.92667*	.19297	.000	-1.3292	-.5241
	12 jam	-.54167*	.19297	.011	-.9442	-.1391
	24 jam	-.10000	.19297	.610	-.5025	.3025

A. Hasil olah data SPSS antar serial waktu TNF- α

a. Kelompok kontrol

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	42.8917	1.16772	.47672	41.6662	44.1171	41.08	44.62
12 jam	6	43.6900	1.03075	.42080	42.6083	44.7717	42.09	44.87
24 jam	6	44.4900	.69233	.28264	43.7634	45.2166	43.35	45.37
48 jam	6	45.2050	.69021	.28178	44.4807	45.9293	44.11	46.13
Total	24	44.0692	1.23171	.25142	43.5491	44.5893	41.08	46.13

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.596	3	20	.625

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17.985	3	5.995	7.091	.002
Within Groups	16.909	20	.845		
Total	34.894	23			

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	-.79833	.53086	.148	-1.9057	.3090
	24 jam	-1.59833*	.53086	.007	-2.7057	-.4910
	48 jam	-2.31333*	.53086	.000	-3.4207	-1.2060
12 jam	6 jam	.79833	.53086	.148	-.3090	1.9057
	24 jam	-.80000	.53086	.147	-1.9074	.3074
	48 jam	-1.51500*	.53086	.010	-2.6224	-.4076
24 jam	6 jam	1.59833*	.53086	.007	.4910	2.7057
	12 jam	.80000	.53086	.147	-.3074	1.9074
	48 jam	-.71500	.53086	.193	-1.8224	.3924
48 jam	6 jam	2.31333*	.53086	.000	1.2060	3.4207
	12 jam	1.51500*	.53086	.010	.4076	2.6224
	24 jam	.71500	.53086	.193	-.3924	1.8224

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

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.181	6	.200*	.975	6	.927
	12 jam	.232	6	.200*	.939	6	.651
	24 jam	.241	6	.200*	.954	6	.773
	48 jam	.147	6	.200*	.988	6	.984

b. Kelompok 1 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	41.6300	2.08925	.85293	39.4375	43.8225	39.57	44.87
12 jam	6	42.8500	.71277	.29099	42.1020	43.5980	42.09	44.11
24 jam	6	47.1383	1.12966	.46118	45.9528	48.3238	45.37	48.40
48 jam	6	43.3967	1.12342	.45863	42.2177	44.5756	42.09	44.87
Total	24	43.7538	2.45406	.50093	42.7175	44.7900	39.57	48.40

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
2.815	3	20	.065

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.233	6	.200 [*]	.903	6	.393
	12 jam	.196	6	.200 [*]	.923	6	.529
	24 jam	.167	6	.200 [*]	.954	6	.772
	48 jam	.195	6	.200 [*]	.912	6	.448

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	101.460	3	33.820	18.253	.000
Within Groups	37.056	20	1.853		
Total	138.516	23			

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	-1.22000	.78588	.136	-2.8593	.4193
	24 jam	-5.50833*	.78588	.000	-7.1476	-3.8690
	48 jam	-1.76667*	.78588	.036	-3.4060	-.1274
12 jam	6 jam	1.22000	.78588	.136	-.4193	2.8593
	24 jam	-4.28833*	.78588	.000	-5.9276	-2.6490
	48 jam	-.54667	.78588	.495	-2.1860	1.0926
24 jam	6 jam	5.50833*	.78588	.000	3.8690	7.1476
	12 jam	4.28833*	.78588	.000	2.6490	5.9276
	48 jam	3.74167*	.78588	.000	2.1024	5.3810
48 jam	6 jam	1.76667*	.78588	.036	.1274	3.4060
	12 jam	.54667	.78588	.495	-1.0926	2.1860
	24 jam	-3.74167*	.78588	.000	-5.3810	-2.1024

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

c. Kelompok 2 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	32.1683	1.62581	.66373	30.4622	33.8745	30.74	35.03
12 jam	6	35.4483	.65273	.26648	34.7633	36.1333	34.52	36.29
24 jam	6	34.8183	1.42088	.58007	33.3272	36.3095	32.76	36.54
48 jam	6	36.6267	1.02862	.41993	35.5472	37.7061	35.03	37.80
Total	24	34.7654	2.03022	.41442	33.9081	35.6227	30.74	37.80

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.598	3	20	.221

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.216	6	.200*	.871	6	.229
	12 jam	.151	6	.200*	.978	6	.943
	24 jam	.138	6	.200*	.973	6	.915
	48 jam	.244	6	.200*	.935	6	.618

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	64.070	3	21.357	13.899	.000
Within Groups	30.731	20	1.537		
Total	94.801	23			

Multiple Comparisons

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	-3.28000 [*]	.71567	.000	-4.7729	-1.7871
	24 jam	-2.65000 [*]	.71567	.001	-4.1429	-1.1571
	48 jam	-4.45833 [*]	.71567	.000	-5.9512	-2.9655
12 jam	6 jam	3.28000 [*]	.71567	.000	1.7871	4.7729
	24 jam	.63000	.71567	.389	-.8629	2.1229
	48 jam	-1.17833	.71567	.115	-2.6712	.3145
24 jam	6 jam	2.65000 [*]	.71567	.001	1.1571	4.1429
	12 jam	-.63000	.71567	.389	-2.1229	.8629
	48 jam	-1.80833 [*]	.71567	.020	-3.3012	-.3155
48 jam	6 jam	4.45833 [*]	.71567	.000	2.9655	5.9512
	12 jam	1.17833	.71567	.115	-.3145	2.6712
	24 jam	1.80833 [*]	.71567	.020	.3155	3.3012

d. Kelompok 3 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	30.4433	.97519	.39812	29.4199	31.4667	28.72	31.24
12 jam	6	29.9817	.91545	.37373	29.0210	30.9424	28.47	30.99
24 jam	6	31.0333	.93451	.38151	30.0526	32.0140	29.48	32.00
48 jam	6	31.7033	2.20505	.90021	29.3893	34.0174	29.48	34.77
Total	24	30.7904	1.43897	.29373	30.1828	31.3980	28.47	34.77

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
5.830	3	20	.005

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.212	6	.200*	.857	6	.178
	12 jam	.166	6	.200*	.951	6	.747
	24 jam	.187	6	.200*	.933	6	.601
	48 jam	.248	6	.200*	.894	6	.341

Kruskal-Wallis Test

Ranks			
	kelompok	N	Mean Rank
hasil	6 jam	6	11.83
	12 jam	6	8.33
	24 jam	6	15.08
	48 jam	6	14.75
	Total	24	

Test Statistics ^{a,b}	
	hasil
Chi-Square	3.564
df	3
Asymp. Sig.	.313

a. Kruskal Wallis Test

b. Grouping Variable:
kelompok

B. Hasil olah data SPSS antar serial waktu VEGF

a. Kelompok Kontrol

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	19.5350	1.07178	.43755	18.4102	20.6598	17.93	20.78
12 jam	6	19.6450	1.01398	.41395	18.5809	20.7091	18.15	20.78
24 jam	6	19.7550	1.05440	.43046	18.6485	20.8615	18.59	21.44
48 jam	6	18.6233	1.30408	.53239	17.2548	19.9919	16.83	20.56
Total	24	19.3896	1.13805	.23230	18.9090	19.8701	16.83	21.44

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.060	3	20	.980

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.842	3	1.614	1.294	.304
Within Groups	24.946	20	1.247		
Total	29.788	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.164	6	.200*	.958	6	.806
	12 jam	.180	6	.200*	.945	6	.702
	24 jam	.151	6	.200*	.955	6	.778
	48 jam	.177	6	.200*	.982	6	.961

b. Kelompok 1 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	24.3733	.80733	.32959	23.5261	25.2206	23.20	25.18
12 jam	6	22.1733	.81924	.33445	21.3136	23.0331	21.22	23.20
24 jam	6	21.1100	.92033	.37572	20.1442	22.0758	19.90	22.32
48 jam	6	20.2667	.96064	.39218	19.2585	21.2748	19.02	21.44
Total	24	21.9808	1.77189	.36169	21.2326	22.7290	19.02	25.18

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.134	3	20	.938

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	56.747	3	18.916	24.464	.000
Within Groups	15.464	20	.773		
Total	72.211	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.266	6	.200*	.889	6	.312
	12 jam	.211	6	.200*	.907	6	.414
	24 jam	.225	6	.200*	.948	6	.728
	48 jam	.197	6	.200*	.928	6	.566

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	2.20000*	.50767	.000	1.1410	3.2590
	24 jam	3.26333*	.50767	.000	2.2043	4.3223
	48 jam	4.10667*	.50767	.000	3.0477	5.1657
12 jam	6 jam	-2.20000*	.50767	.000	-3.2590	-1.1410
	24 jam	1.06333*	.50767	.049	.0043	2.1223
	48 jam	1.90667*	.50767	.001	.8477	2.9657
24 jam	6 jam	-3.26333*	.50767	.000	-4.3223	-2.2043
	12 jam	-1.06333*	.50767	.049	-2.1223	-.0043
	48 jam	.84333	.50767	.112	-.2157	1.9023
48 jam	6 jam	-4.10667*	.50767	.000	-5.1657	-3.0477
	12 jam	-1.90667*	.50767	.001	-2.9657	-.8477
	24 jam	-.84333	.50767	.112	-1.9023	.2157

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

c. Kelompok 2 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	25.4683	.80243	.32759	24.6262	26.3104	24.30	26.27
12 jam	6	23.3100	.77157	.31499	22.5003	24.1197	22.32	24.30
24 jam	6	21.9533	.96064	.39218	20.9452	22.9615	21.22	23.86
48 jam	6	22.2100	.92033	.37572	21.2442	23.1758	21.00	23.42
Total	24	23.2354	1.63076	.33288	22.5468	23.9240	21.00	26.27

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.131	3	20	.941

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	46.120	3	15.373	20.436	.000
Within Groups	15.045	20	.752		
Total	61.165	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.266	6	.200 [*]	.889	6	.313
	12 jam	.174	6	.200 [*]	.951	6	.748
	24 jam	.364	6	.130 [*]	.719	6	.100
	48 jam	.225	6	.200 [*]	.948	6	.728

Multiple Comparisons

Dependent Variable: hasil

LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
6 jam	12 jam	2.15833*	.50075	.000	1.1138	3.2029
	24 jam	3.51500*	.50075	.000	2.4704	4.5596
	48 jam	3.25833*	.50075	.000	2.2138	4.3029
12 jam	6 jam	-2.15833*	.50075	.000	-3.2029	-1.1138
	24 jam	1.35667*	.50075	.014	.3121	2.4012
	48 jam	1.10000*	.50075	.040	.0554	2.1446
24 jam	6 jam	-3.51500*	.50075	.000	-4.5596	-2.4704
	12 jam	-1.35667*	.50075	.014	-2.4012	-.3121
	48 jam	-.25667	.50075	.614	-1.3012	.7879
48 jam	6 jam	-3.25833*	.50075	.000	-4.3029	-2.2138
	12 jam	-1.10000*	.50075	.040	-2.1446	-.0554
	24 jam	.25667	.50075	.614	-.7879	1.3012

d. Kelompok 3 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	27.5900	.46148	.18840	27.1057	28.0743	26.93	28.03
12 jam	6	27.2600	.63381	.25875	26.5949	27.9251	26.49	28.03
24 jam	6	27.0400	.41158	.16803	26.6081	27.4719	26.49	27.59
48 jam	6	26.7833	.47525	.19402	26.2846	27.2821	26.05	27.37
Total	24	27.1683	.55776	.11385	26.9328	27.4039	26.05	28.03

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.222	3	20	.328

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.105	3	.702	2.780	.068
Within Groups	5.050	20	.252		
Total	7.155	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.183	6	.200*	.890	6	.320
	12 jam	.199	6	.200*	.917	6	.484
	24 jam	.122	6	.200*	.982	6	.961
	48 jam	.121	6	.200*	.983	6	.964

e. Hasil olah data SPSS antar serial waktu PDGF

a. Kelompok Kontrol

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	32.8483	.74413	.30379	32.0674	33.6293	31.80	33.77
12 jam	6	32.2900	.75482	.30816	31.4979	33.0821	31.40	33.37
24 jam	6	32.0600	.86898	.35476	31.1481	32.9719	30.81	32.98
48 jam	6	31.8650	.80540	.32880	31.0198	32.7102	30.81	32.78
Total	24	32.2658	.83129	.16969	31.9148	32.6169	30.81	33.77

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.088	3	20	.966

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.258	3	1.086	1.719	.195
Within Groups	12.636	20	.632		
Total	15.894	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.172	6	.200 [*]	.963	6	.845
	12 jam	.154	6	.200 [*]	.956	6	.785
	24 jam	.226	6	.200 [*]	.910	6	.437
	48 jam	.233	6	.200 [*]	.902	6	.384

b. Kelompok 1 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	37.4700	.65226	.26628	36.7855	38.1545	36.52	38.29
12 jam	6	37.0450	.68925	.28139	36.3217	37.7683	36.13	37.90
24 jam	6	36.8483	.55098	.22494	36.2701	37.4265	36.13	37.50
48 jam	6	36.7183	.44906	.18333	36.2471	37.1896	36.13	37.31
Total	24	37.0204	.62451	.12748	36.7567	37.2841	36.13	38.29

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.589	3	20	.630

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.942	3	.647	1.842	.172
Within Groups	7.029	20	.351		
Total	8.970	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.185	6	.200 [*]	.966	6	.866
	12 jam	.204	6	.200 [*]	.931	6	.586
	24 jam	.183	6	.200 [*]	.938	6	.643
	48 jam	.168	6	.200 [*]	.953	6	.768

c. Kelompok 2 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	41.5383	1.25665	.51303	40.2196	42.8571	40.06	43.41
12 jam	6	41.7017	1.12455	.45910	40.5215	42.8818	40.06	43.21
24 jam	6	41.2433	.98806	.40337	40.2064	42.2802	40.06	42.82
48 jam	6	41.0800	1.18227	.48266	39.8393	42.3207	39.87	43.21
Total	24	41.3908	1.09365	.22324	40.9290	41.8526	39.87	43.41

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.119	3	20	.948

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.420	3	.473	.363	.780
Within Groups	26.089	20	1.304		
Total	27.510	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.179	6	.200 [*]	.952	6	.755
	12 jam	.126	6	.200 [*]	.989	6	.986
	24 jam	.168	6	.200 [*]	.970	6	.892
	48 jam	.214	6	.200 [*]	.904	6	.400

d. Kelompok 3 MED

Descriptives

hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
6 jam	6	44.8517	.72032	.29407	44.0957	45.6076	44.00	45.77
12 jam	6	44.2283	.54985	.22448	43.6513	44.8054	43.60	44.98
24 jam	6	44.3267	.72232	.29489	43.5686	45.0847	43.41	45.18
48 jam	6	43.8017	.83722	.34179	42.9231	44.6803	42.42	44.59
Total	24	44.3021	.76813	.15679	43.9777	44.6264	42.42	45.77

Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.452	3	20	.719

ANOVA

hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.351	3	1.117	2.186	.121
Within Groups	10.219	20	.511		
Total	13.570	23			

Tests of Normality

	kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	6 jam	.174	6	.200*	.935	6	.615
	12 jam	.187	6	.200*	.926	6	.546
	24 jam	.176	6	.200*	.933	6	.601
	48 jam	.183	6	.200*	.903	6	.395

DATA PENELITIAN

No	Kode	14-Dec-18	21-Dec-18
		BB gram	BB gram
1	K.1	180	186
2	K.2	183	190
3	K.3	189	194
4	K.4	178	183
5	K.5	176	182
6	K.6	177	184
7	I MED.1	182	188
8	I MED.2	181	189
9	I MED.3	180	184
10	I MED.4	195	200
11	I MED.5	192	198
12	I MED.6	187	192
13	II MED.1	184	191
14	II MED.2	186	194
15	II MED.3	187	193
16	II MED.4	193	198
17	II MED.5	180	187
18	II MED.6	193	198
19	III MED.1	178	184
20	III MED.2	189	196
21	III MED.3	184	190
22	III MED.4	188	193
23	III MED.5	182	189
24	III MED.6	186	191

No	Kode	OD	6		12		24		48		No	Kode	OD	6		12		24		48		No
			TNF α	pg/ml	TNF α	pg/ml	TNF α	pg/ml	TNF α	pg/ml				PDGF	pg/ml	PDGF	pg/ml	PDGF	pg/ml	PDGF	pg/ml	
1	K.1	0.172	43.35	0.175	44.11	0.177	44.62	0.18	45.12	1	K.1	0.317	31.80	0.315	31.40	0.312	30.81	0.312	30.81	1		
2	K.2	0.168	42.35	0.170	42.85	0.175	44.11	0.180	45.37	2	K.2	0.322	32.78	0.318	32.00	0.319	32.19	0.318	32.00	2		
3	K.3	0.177	44.62	0.178	44.87	0.178	44.87	0.18	45.63	3	K.3	0.319	32.19	0.316	31.60	0.314	31.21	0.313	31.01	3		
4	K.4	0.163	41.08	0.167	42.09	0.172	43.35	0.18	44.11	4	K.4	0.327	33.77	0.325	33.37	0.322	32.78	0.322	32.78	4		
5	K.5	0.171	43.10	0.176	44.36	0.180	45.37	0.18	46.13	5	K.5	0.325	33.37	0.321	32.59	0.323	32.98	0.321	32.59	5		
6	K.6	0.170	42.85	0.174	43.86	0.177	44.62	0.18	44.87	6	K.6	0.324	33.18	0.322	32.78	0.320	32.39	0.318	32.00	6		
7	I MED.1	0.157	39.57	0.169	42.60	0.187	47.14	0.177	44.62	7	MED.	0.346	37.50	0.344	37.11	0.340	36.32	0.345	37.31	7		
8	I MED.2	0.165	41.59	0.167	42.09	0.180	45.37	0.178	44.87	8	MED.	0.341	36.52	0.340	36.32	0.339	36.13	0.339	36.13	8		
9	I MED.3	0.172	43.35	0.175	44.11	0.192	48.40	0.167	42.09	9	MED.	0.350	38.29	0.345	37.31	0.345	37.31	0.342	36.72	9		
10	I MED.4	0.178	44.87	0.171	43.10	0.188	47.39	0.172	43.35	10	MED.	0.343	36.91	0.339	36.13	0.342	36.72	0.340	36.32	10		
11	I MED.5	0.160	40.33	0.170	42.85	0.184	46.38	0.169	42.60	11	MED.	0.347	37.70	0.346	37.50	0.344	37.11	0.342	36.72	11		
12	I MED.6	0.159	40.07	0.168	42.35	0.191	48.15	0.170	42.85	12	MED.	0.348	37.90	0.348	37.90	0.346	37.50	0.344	37.11	12		
13	II MED.1	0.131	33.01	0.140	35.28	0.143	36.04	0.150	37.80	13	MED.	0.376	43.41	0.375	43.21	0.373	42.82	0.375	43.21	13		
14	II MED.2	0.127	32.00	0.144	36.29	0.137	34.52	0.148	37.30	14	MED.	0.368	41.83	0.368	41.83	0.365	41.24	0.360	40.26	14		
15	II MED.3	0.122	30.74	0.139	35.03	0.130	32.76	0.144	36.29	15	MED.	0.370	42.23	0.372	42.62	0.368	41.83	0.366	41.44	15		
16	II MED.4	0.124	31.24	0.137	34.52	0.134	33.77	0.139	35.03	16	MED.	0.366	41.44	0.364	41.05	0.361	40.46	0.362	40.65	16		
17	II MED.5	0.123	30.99	0.143	36.04	0.140	35.28	0.143	36.04	17	MED.	0.359	40.06	0.359	40.06	0.359	40.06	0.358	39.87	17		
18	II MED.6	0.139	35.03	0.141	35.53	0.145	36.54	0.148	37.30	18	MED.	0.360	40.26	0.366	41.44	0.364	41.05	0.364	41.05	18		
19	III MED.1	0.123	30.99	0.122	30.74	0.125	31.49	0.129	32.50	19	I MED.	0.388	45.77	0.380	44.20	0.384	44.98	0.382	44.59	19		
20	III MED.2	0.119	29.98	0.117	29.48	0.121	30.49	0.133	33.51	20	I MED.	0.387	45.57	0.384	44.98	0.380	44.20	0.380	44.20	20		
21	III MED.3	0.114	28.72	0.113	28.47	0.117	29.48	0.138	34.77	21	I MED.	0.379	44.00	0.379	44.00	0.377	43.60	0.371	42.42	21		
22	III MED.4	0.121	30.49	0.120	30.23	0.123	30.99	0.117	29.48	22	I MED.	0.382	44.59	0.383	44.79	0.382	44.59	0.377	43.60	22		
23	III MED.5	0.124	31.24	0.119	29.98	0.126	31.75	0.118	29.73	23	I MED.	0.384	44.98	0.378	43.80	0.385	45.18	0.382	44.59	23		

Kode	OD	6		12		24		48		No	Kode	OD	6		12		24		48	
		VEGF	pg/ml	VEGF	pg/ml	VEGF	pg/ml	VEGF	pg/ml				VIT D	pg/ml	VIT D	pg/ml	VIT D	pg/ml	VIT D	pg/ml
K.1	0.330	20.56	0.331	20.78	0.327	19.90	0.325	19.46	1	K.1	0.104	13.08	0.102	12.83	0.103	12.96	0.104	13.08	1	
K.2	0.326	19.68	0.327	19.90	0.329	20.34	0.321	18.59	2	K.2	0.110	13.80	0.104	13.08	0.099	12.47	0.103	12.96	2	
K.3	0.331	20.78	0.330	20.56	0.334	21.44	0.330	20.56	3	K.3	0.109	13.68	0.110	13.80	0.106	13.32	0.109	13.68	3	
K.4	0.318	17.93	0.319	18.15	0.321	18.59	0.313	16.83	4	K.4	0.105	13.20	0.108	13.56	0.109	13.68	0.110	13.80	4	
K.5	0.322	18.80	0.322	18.80	0.322	18.80	0.317	17.71	5	K.5	0.099	12.47	0.101	12.71	0.107	13.44	0.102	12.83	5	
K.6	0.325	19.46	0.326	19.68	0.325	19.46	0.321	18.59	6	K.6	0.103	12.96	0.105	13.20	0.100	12.59	0.101	12.71	6	
I MED.1	0.350	24.96	0.340	22.76	0.335	21.66	0.330	20.56	7	I MED.1	0.128	15.97	0.117	14.65	0.109	13.68	0.103	12.96	7	
I MED.2	0.351	25.18	0.333	21.22	0.338	22.32	0.334	21.44	8	I MED.2	0.131	16.34	0.121	15.13	0.114	14.28	0.104	13.08	8	
I MED.3	0.342	23.20	0.333	21.22	0.327	19.90	0.323	19.02	9	I MED.3	0.133	16.58	0.123	15.37	0.108	13.56	0.106	13.32	9	
I MED.4	0.350	24.96	0.342	23.20	0.329	20.34	0.332	21.00	10	I MED.4	0.127	15.85	0.118	14.77	0.112	14.04	0.102	12.83	10	
I MED.5	0.347	24.30	0.339	22.54	0.335	21.66	0.329	20.34	11	I MED.5	0.126	15.73	0.117	14.65	0.115	14.40	0.108	13.56	11	
I MED.6	0.344	23.64	0.337	22.10	0.331	20.78	0.324	19.24	12	I MED.6	0.134	16.70	0.124	15.49	0.110	13.80	0.110	13.80	12	
I MED.1	0.355	26.05	0.345	23.86	0.335	21.66	0.340	22.76	13	II MED.1	0.134	16.70	0.124	15.49	0.122	15.25	0.118	14.77	13	
I MED.2	0.356	26.27	0.338	22.32	0.333	21.22	0.343	23.42	14	II MED.2	0.138	17.18	0.123	15.37	0.118	14.77	0.114	14.28	14	
I MED.3	0.347	24.30	0.339	22.54	0.334	21.44	0.332	21.00	15	II MED.3	0.141	17.54	0.129	16.09	0.127	15.85	0.124	15.49	15	
I MED.4	0.355	26.05	0.347	24.30	0.345	23.86	0.334	21.44	16	II MED.4	0.133	16.58	0.124	15.49	0.121	15.13	0.116	14.52	16	
I MED.5	0.352	25.40	0.344	23.64	0.336	21.88	0.340	22.76	17	II MED.5	0.135	16.82	0.127	15.85	0.124	15.49	0.120	15.01	17	
I MED.6	0.349	24.74	0.342	23.20	0.335	21.66	0.336	21.88	18	II MED.6	0.137	17.06	0.122	15.25	0.119	14.89	0.117	14.65	18	
II MED.1	0.364	28.03	0.362	27.59	0.360	27.15	0.358	26.71	19	III MED.1	0.144	17.91	0.141	17.54	0.142	17.66	0.137	17.06	19	
II MED.2	0.360	27.15	0.359	26.93	0.359	26.93	0.360	27.15	20	III MED.2	0.142	17.66	0.139	17.30	0.137	17.06	0.136	16.94	20	
II MED.3	0.359	26.93	0.358	26.71	0.357	26.49	0.355	26.05	21	III MED.3	0.146	18.15	0.142	17.66	0.136	16.94	0.142	17.66	21	
II MED.4	0.363	27.81	0.364	28.03	0.362	27.59	0.359	26.93	22	III MED.4	0.147	18.27	0.144	17.91	0.141	17.54	0.139	17.30	22	
II MED.5	0.362	27.59	0.357	26.49	0.358	26.71	0.357	26.49	23	III MED.5	0.141	17.54	0.140	17.42	0.134	16.70	0.133	16.58	23	

24 III MED.6 0.124 31.24 0.123 30.99 0.127 32.00 0.120 30.23 24 I MED 0.380 44.20 0.377 43.60 0.376 43.41 0.376 43.41 24

Standart	
X	Y
pg/ml	OD
125	0.219
250	0.232
500	0.298
1000	0.386
2000	0.579
4000	0.992
8000	1.710
	0.198144
	0.000191

Standart	
X	Y
pg/ml	OD
0.000	0.011
0.156	0.092
0.312	0.172
0.625	0.413
1.250	0.493
2.5	0.919
5	1.627
10	2.559
	0.254
	0.155



YAYASAN BADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
PROGRAM STUDI MAGISTER BIOMEDIK (S-2)
FAKULTAS KEDOKTERAN

Jl. Raya Kaligawe Km.4 Semarang 50112 Telp. (024) 6583584 Fax. (024) 659 4366 ext. 631 / 632

No : 169 / B.1/SA-K-BIOMED/VII/2019
Lampiran : -
Perihal : Permohonan Ijin Penelitian
Kepada : Yth. Ka.Lab Pusat Studi Pangan dan Gizi FK UGM
di

FORM-SA-K-
BIOMED-014

YOGYAKARTA

Assalamu'alaikum wr. wb.

Dengan ini kami hadapkan mahasiswa Prodi Magister Ilmu Biomedik Fakultas Kedokteran Universitas Islam Sultan Agung (Unissula) Semarang,

Nama : CYNTHIA ARSITA

NIM : MBK.16.7.01.0091

Semester : VII (tujuh)

Mohon diijinkan untuk melakukan Penelitian sebagai bahan penulisan Tesis dengan judul:

EFEK PAPARAN SINAR ULTRAVIOLET B TERHADAP KADAR VITAMIN D,TNF ALFA,VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) DAN PLATELET DERIVED GROWTH FACTOR (PDGF) PADA TIKUS GALUR WISTAR

dengan Pembimbing I :Prof.Dr.dr.H. Taufiqurrachman N,M.Kes,Sp.And

Pembimbing II :Dr.Dra. Hj. Atina Husaana,M.Si.Apt

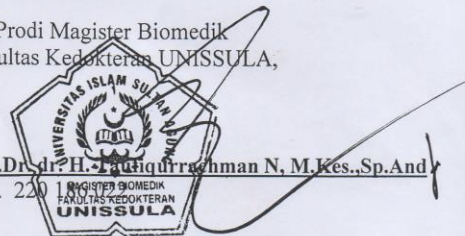
Demikian atas bantuan serta kerjasamanya diucapkan terima kasih.

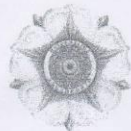
Wassalamu'alaikum wr. wb.

Semarang, 01 Juli 2019

Ka Prodi Magister Biomedik
Fakultas Kedokteran UNISSULA,

Prof.Dr.dr.H. Taufiqurrachman N, M.Kes.,Sp.And
NIK. 230 180 172





UNIVERSITAS GADJAH MADA

Pusat Studi Pangan dan Gizi
Jln. Teknika Utara, Berek, YOGYAKARTA 55281
Telepon : 0274-589242, Web : www.cfns.ugm.ac.id
Email : cfns@ugm.ac.id

FORMULIR PEMAKAIAN FASILITAS LABORATORIUM GIZI (HEWAN COBA)

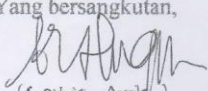
Nama Mahasiswa/Peneliti : Cynthia Arsit
No. Mahasiswa : MBK.167.0100.91
Jurusan/Fakultas/Universitas : Magister Biomedik
Universitas Islam Sultan Agung Semarang

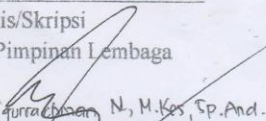
Alamat Rumah & Nomor Telp/HP : Jl. Ngesrep Barat III Komp. PP Perum. Ngesrep
Mas Town House no.1, Smg
081-390-836-456

Topik Penelitian/Judul :
Efek Paparan Sinar UVB terhadap kadar Vitamin D, Vascular Endothelial Growth
Factor (VEGF), TNF- α , dan Platelet Derived Growth Factor (PDGF) pada MUs Balur Wistar

Mulai bekerja pada tanggal : 1 Juli 2019
Rencana penyelesaian tanggal : 31 Juli 2019
Diperpanjang sampai tanggal : -

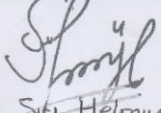
Bekerja di laboratorium : I. Gizi

Mahasiswa/Peneliti
Yang bersangkutan,

(Cynthia Arsit)

Yogyakarta, 1 Juli 2019
Pembimbing Tesis/Skripsi
Dekan Fakultas/Pimpinan Lembaga

Prof. Dr. dr. Taupiqurrahman N, M.Kes, Sp.And.

Mengetahui
Sekretaris,


Wabiyuning Martati

Kepala/Teknisi Laboratorium

Dr. Siti Helmyati, DCC, M.Kes.

KOMISI BIOETIKA PENELITIAN KEDOKTERAN/KESEHATAN

FAKULTAS KEDOKTERAN

UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG

Sekretariat : Gedung C Lantai I Fakultas Kedokteran Unissula
Jl. Raya Kaligawe Km 4 Semarang, Telp. 024-6583584, Fax 024-6594366

Ethical Clearance

No. 185/III/2019/Komisi Bioetik

Komisi Bioetika Penelitian Kedokteran/Kesehatan Fakultas Kedokteran Universitas Islam Sultan Agung Semarang, setelah melakukan pengkajian atas usulan penelitian yang berjudul :

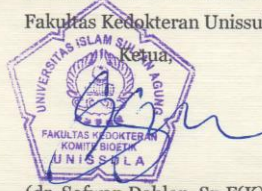
EFEK PAPARAN SINAR ULTRAVIOLET B TERHADAP KADAR VITAMIN D, TNF ALFA, VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) DAN PLATELET DERIVED GROWTH FACTOR (PDGF) PADA TIKUS GALUR WISTAR

Peneliti Utama : Cynthia Arsita
Pembimbing : Prof. Dr. dr. Taufiq R. Nasihun, M.Kes., Sp.And
Dr. Dra. Atina Husaana, M.Si., Apt
Tempat Penelitian : Penelitian Antar Universitas (PAU) Universitas Gajah Mada Yogyakarta

dengan ini menyatakan bahwa usulan penelitian diatas telah memenuhi prasyarat etik penelitian. Oleh karena itu Komisi Bioetika merekomendasikan agar penelitian ini dapat dilaksanakan dengan mempertimbangkan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki dan panduan yang tertuang dalam Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI tahun 2004.

Semarang, 14 Maret 2019

Komisi Bioetika Penelitian Kedokteran/Kesehatan
Fakultas Kedokteran Unissula



(dr. Sofwan Dahlan, Sp.F(K))



Pusat Studi Pangan dan Gizi
Universitas Gadjah Mada

SERTIFIKAT

Nomor : PSPG-UGM/12/PHC/IX/2018

DIBERIKAN KEPADA

dr. Cynthia Arsita

sebagai

Peserta

Pada “Pelatihan Dasar Penanganan Hewan Coba”

yang diselenggarakan oleh:
Pusat Studi Pangan dan Gizi
Universitas Gadjah Mada

Yogyakarta, 10 September 2018

Kepala Pusat Studi Pangan dan Gizi,

Prof. Dr. Ir. Umar Santoso, M.Sc.

Ketua Pelaksana,

Dr. Siti Helmyati, DCN., M.Kes

FOTO PENELITIAN



Lampu UVB



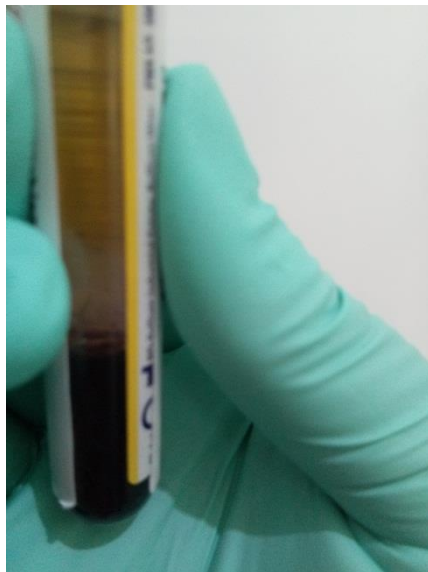
Pengambilan darah melalui area orbita tikus



Tikus setelah dicukur



Memasukkan sample ke mesin centrifuge



Serum setelah dicentrifuge



Analisa serum dengan ELISA reader



Kandang tikus



Kit VEGF