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LAMPIRAN

A. Dokumentasi Penelitian

Pengencer Tris Lesitin Kedelai

Pengenceran Semen

Pemeriksaan Kualitas Semen

Equilibrasi Suhu 5^0C

Penyimpanan Semen Kedalam Kontainer Nitrogen

B. Hasil Olah Data SPSS

SEBELUM PEMBEKUAN

Motilitas Individu

Descriptives

Dependent Variable: motilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	76,5500	2,96254	1,48127	71,8359	81,2641	73,70	80,50
k2	4	70,2250	4,62772	2,31386	62,8613	77,5887	63,50	73,80
p1	4	72,8250	5,91009	2,95505	63,4207	82,2293	64,50	77,80
p2	4	80,2500	4,96555	2,48277	72,3487	88,1513	73,60	84,90
p3	4	72,1500	5,98247	2,99124	62,6305	81,6695	64,80	78,00
Total	20	74,4000	5,76733	1,28961	71,7008	77,0992	63,50	84,90

ANOVA

motilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	255,275	4	63,819	2,541	,083
Within Groups	376,705	15	25,114		
Total	631,980	19			

motilitas

	perlakuan	N	Subset for alpha = .05	
			1	2
Duncan[a]	k2	4	70,2250	
	p3	4	72,1500	72,1500
	p1	4	72,8250	72,8250
	k1	4	76,5500	76,5500
	p2	4		80,2500
	Sig.		,120	,051

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: Ulangan

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	6,32500	3,54356	,095	-1,2279	13,8779
		P1	3,72500	3,54356	,310	-3,8279	11,2779
		P2	-3,70000	3,54356	,313	-11,2529	3,8529
		P3	4,40000	3,54356	,233	-3,1529	11,9529
	K2	K1	-6,32500	3,54356	,095	-13,8779	1,2279
		P1	-2,60000	3,54356	,474	-10,1529	4,9529
		P2	-10,02500*	3,54356	,013	-17,5779	-2,4721
		P3	-1,92500	3,54356	,595	-9,4779	5,6279
	P1	K1	-3,72500	3,54356	,310	-11,2779	3,8279
		K2	2,60000	3,54356	,474	-4,9529	10,1529
		P2	-7,42500	3,54356	,054	-14,9779	,1279
		P3	,67500	3,54356	,851	-6,8779	8,2279
	P2	K1	3,70000	3,54356	,313	-3,8529	11,2529
		K2	10,02500*	3,54356	,013	2,4721	17,5779
		P1	7,42500	3,54356	,054	-,1279	14,9779
		P3	8,10000*	3,54356	,037	,5471	15,6529
	P3	K1	-4,40000	3,54356	,233	-11,9529	3,1529
		K2	1,92500	3,54356	,595	-5,6279	9,4779
		P1	-,67500	3,54356	,851	-8,2279	6,8779
		P2	-8,10000*	3,54356	,037	-15,6529	-,5471

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

Viabilitas

Descriptives

viabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	76,2500	5,12348	2,56174	68,0974	84,4026	71,00	83,00
k2	4	70,5000	3,10913	1,55456	65,5527	75,4473	68,00	75,00
p1	4	72,7500	4,99166	2,49583	64,8072	80,6928	69,00	80,00
p2	4	78,7500	4,99166	2,49583	70,8072	86,6928	75,00	86,00
p3	4	72,5000	7,85281	3,92641	60,0044	84,9956	63,00	82,00
Total	20	74,1500	5,69649	1,27377	71,4840	76,8160	63,00	86,00

ANOVA

viabilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	174,300	4	43,575	1,478	,258
Within Groups	442,250	15	29,483		
Total	616,550	19			

Multiple Comparisons

Dependent Variable: viabilitas

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	5,75000	3,83949	,155	-2,4337	13,9337
		p1	3,50000	3,83949	,376	-4,6837	11,6837
		p2	-2,50000	3,83949	,525	-10,6837	5,6837
		p3	3,75000	3,83949	,344	-4,4337	11,9337
	k2	k1	-5,75000	3,83949	,155	-13,9337	2,4337
		p1	-2,25000	3,83949	,567	-10,4337	5,9337
		p2	-8,25000*	3,83949	,048	-16,4337	-,0663
		p3	-2,00000	3,83949	,610	-10,1837	6,1837
	p1	k1	-3,50000	3,83949	,376	-11,6837	4,6837
		k2	2,25000	3,83949	,567	-5,9337	10,4337
		p2	-6,00000	3,83949	,139	-14,1837	2,1837
		p3	,25000	3,83949	,949	-7,9337	8,4337
	p2	k1	2,50000	3,83949	,525	-5,6837	10,6837
		k2	8,25000*	3,83949	,048	,0663	16,4337
		p1	6,00000	3,83949	,139	-2,1837	14,1837
		p3	6,25000	3,83949	,124	-1,9337	14,4337
	p3	k1	-3,75000	3,83949	,344	-11,9337	4,4337
		k2	2,00000	3,83949	,610	-6,1837	10,1837
		p1	-,25000	3,83949	,949	-8,4337	7,9337
		p2	-6,25000	3,83949	,124	-14,4337	1,9337

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

viabilitas

	perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	k2	4	70,5000
	p3	4	72,5000
	p1	4	72,7500
	k1	4	76,2500
	p2	4	78,7500
	Sig.		,070

Means for groups in homogeneous subsets are displayed.

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

MPU (MEMBRAN PLASMA UTUH)

Descriptives

MPU

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	82,5000	1,29099	,64550	80,4457	84,5543	81,00	84,00
k2	4	79,7500	1,25831	,62915	77,7478	81,7522	78,00	81,00
p1	4	82,5000	,57735	,28868	81,5813	83,4187	82,00	83,00
p2	4	84,2500	,95743	,47871	82,7265	85,7735	83,00	85,00
p3	4	79,5000	1,29099	,64550	77,4457	81,5543	78,00	81,00
Total	20	81,7000	2,10513	,47072	80,7148	82,6852	78,00	85,00

ANOVA

MPU

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	65,700	4	16,425	13,318	,000
Within Groups	18,500	15	1,233		
Total	84,200	19			

Multiple Comparisons

Dependent Variable: MPU

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	2,75000*	,78528	,003	1,0762	4,4238
		p1	,00000	,78528	1,000	-1,6738	1,6738
		p2	-1,75000*	,78528	,042	-3,4238	-,0762
		p3	3,00000*	,78528	,002	1,3262	4,6738
	k2	k1	-2,75000*	,78528	,003	-4,4238	-1,0762
		p1	-2,75000*	,78528	,003	-4,4238	-1,0762
		p2	-4,50000*	,78528	,000	-6,1738	-2,8262
		p3	,25000	,78528	,755	-1,4238	1,9238
	p1	k1	,00000	,78528	1,000	-1,6738	1,6738
		k2	2,75000*	,78528	,003	1,0762	4,4238
		p2	-1,75000*	,78528	,042	-3,4238	-,0762
		p3	3,00000*	,78528	,002	1,3262	4,6738
	p2	k1	1,75000*	,78528	,042	,0762	3,4238
		k2	4,50000*	,78528	,000	2,8262	6,1738
		p1	1,75000*	,78528	,042	,0762	3,4238
		p3	4,75000*	,78528	,000	3,0762	6,4238
	p3	k1	-3,00000*	,78528	,002	-4,6738	-1,3262
		k2	-,25000	,78528	,755	-1,9238	1,4238
		p1	-3,00000*	,78528	,002	-4,6738	-1,3262
		p2	-4,75000*	,78528	,000	-6,4238	-3,0762

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

MPU

	perlakuan	N	Subset for alpha = .05	
			1	2
Duncan[a]	p3	4	79,5000	
	k2	4	79,7500	
	k1	4		82,5000
	p1	4		82,5000
	p2	4		84,2500
	Sig.		,755	,051

Means for groups in homogeneous subsets are displayed.

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

TAU (TUDUNG AKROSOM UTUH)

Descriptives

TAU

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	84,7500	1,70783	,85391	82,0325	87,4675	83,00	87,00
k2	4	81,0000	1,82574	,91287	78,0948	83,9052	79,00	83,00
p1	4	83,7500	1,25831	,62915	81,7478	85,7522	82,00	85,00
p2	4	84,5000	1,29099	,64550	82,4457	86,5543	83,00	86,00
p3	4	81,2500	2,21736	1,10868	77,7217	84,7783	79,00	84,00
Total	20	83,0500	2,23548	,49987	82,0038	84,0962	79,00	87,00

ANOVA

TAU

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	51,700	4	12,925	4,483	,014
Within Groups	43,250	15	2,883		
Total	94,950	19			

TAU

	perlakuan	N	Subset for alpha = .05		
			1	2	3
Duncan[a]	k2	4	81,0000		
	p3	4	81,2500	81,2500	
	p1	4		83,7500	83,7500
	p2	4			84,5000
	k1	4			84,7500
	Sig.		,838	,055	,442

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: TAU

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	3,75000*	1,20069	,007	1,1908	6,3092
		p1	1,00000	1,20069	,418	-1,5592	3,5592
		p2	,25000	1,20069	,838	-2,3092	2,8092
		p3	3,50000*	1,20069	,011	,9408	6,0592
	k2	k1	-3,75000*	1,20069	,007	-6,3092	-1,1908
		p1	-2,75000*	1,20069	,037	-5,3092	-,1908
		p2	-3,50000*	1,20069	,011	-6,0592	-,9408
		p3	-,25000	1,20069	,838	-2,8092	2,3092
	p1	k1	-1,00000	1,20069	,418	-3,5592	1,5592
		k2	2,75000*	1,20069	,037	,1908	5,3092
		p2	-,75000	1,20069	,542	-3,3092	1,8092
		p3	2,50000	1,20069	,055	-,0592	5,0592
	p2	k1	-,25000	1,20069	,838	-2,8092	2,3092
		k2	3,50000*	1,20069	,011	,9408	6,0592
		p1	,75000	1,20069	,542	-1,8092	3,3092
		p3	3,25000*	1,20069	,016	,6908	5,8092
	p3	k1	-3,50000*	1,20069	,011	-6,0592	-,9408
		k2	,25000	1,20069	,838	-2,3092	2,8092
		p1	-2,50000	1,20069	,055	-5,0592	,0592
		p2	-3,25000*	1,20069	,016	-5,8092	-,6908

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

POLA PERGERAKAN SPERMA

VAP

Descriptives

VAP

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	49,7000	4,88039	2,44019	41,9342	57,4658	46,15	56,74
K2	4	52,7125	11,11830	5,55915	35,0208	70,4042	44,29	69,09
P1	4	50,0500	11,04623	5,52312	32,4730	67,6270	42,27	66,43
P2	4	52,0375	6,49043	3,24521	41,7098	62,3652	46,59	61,02
P3	4	48,4550	4,50498	2,25249	41,2866	55,6234	43,50	53,52
Total	20	50,5910	7,41475	1,65799	47,1208	54,0612	42,27	69,09

ANOVA

VAP

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	48,969	4	12,242	,184	,943
Within Groups	995,624	15	66,375		
Total	1044,593	19			

VAP

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	48,4550
	K1	4	49,7000
	P1	4	50,0500
	P2	4	52,0375
	K2	4	52,7125
	Sig.		,513

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: VAP

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-3,01250	5,76086	,609	-15,2915	9,2665
		P1	-,35000	5,76086	,952	-12,6290	11,9290
		P2	-2,33750	5,76086	,691	-14,6165	9,9415
		P3	1,24500	5,76086	,832	-11,0340	13,5240
	K2	K1	3,01250	5,76086	,609	-9,2665	15,2915
		P1	2,66250	5,76086	,651	-9,6165	14,9415
		P2	,67500	5,76086	,908	-11,6040	12,9540
		P3	4,25750	5,76086	,471	-8,0215	16,5365
	P1	K1	,35000	5,76086	,952	-11,9290	12,6290
		K2	-2,66250	5,76086	,651	-14,9415	9,6165
		P2	-1,98750	5,76086	,735	-14,2665	10,2915
		P3	1,59500	5,76086	,786	-10,6840	13,8740
	P2	K1	2,33750	5,76086	,691	-9,9415	14,6165
		K2	-,67500	5,76086	,908	-12,9540	11,6040
		P1	1,98750	5,76086	,735	-10,2915	14,2665
		P3	3,58250	5,76086	,543	-8,6965	15,8615
	P3	K1	-1,24500	5,76086	,832	-13,5240	11,0340
		K2	-4,25750	5,76086	,471	-16,5365	8,0215
		P1	-1,59500	5,76086	,786	-13,8740	10,6840
		P2	-3,58250	5,76086	,543	-15,8615	8,6965

VCL

Descriptives

VCL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	91,9500	17,05799	8,52900	64,8069	119,0931	74,11	113,90
K2	4	94,8175	7,62333	3,81167	82,6871	106,9479	85,70	104,30
P1	4	95,3650	21,86511	10,93255	60,5727	130,1573	73,32	121,70
P2	4	101,5775	12,51240	6,25620	81,6675	121,4875	91,42	117,30
P3	4	86,0250	14,66781	7,33391	62,6852	109,3648	69,36	99,81
Total	20	93,9470	14,70337	3,28777	87,0656	100,8284	69,36	121,70

ANOVA

VCL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	510,956	4	127,739	,533	,714
Within Groups	3596,635	15	239,776		
Total	4107,591	19			

Multiple Comparisons

Dependent Variable: VCL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-2,86750	10,94933	,797	-26,2054	20,4704
		P1	-3,41500	10,94933	,759	-26,7529	19,9229
		P2	-9,62750	10,94933	,393	-32,9654	13,7104
		P3	5,92500	10,94933	,596	-17,4129	29,2629
	K2	K1	2,86750	10,94933	,797	-20,4704	26,2054
		P1	-,54750	10,94933	,961	-23,8854	22,7904
		P2	-6,76000	10,94933	,546	-30,0979	16,5779
		P3	8,79250	10,94933	,435	-14,5454	32,1304
	P1	K1	3,41500	10,94933	,759	-19,9229	26,7529
		K2	,54750	10,94933	,961	-22,7904	23,8854
		P2	-6,21250	10,94933	,579	-29,5504	17,1254
		P3	9,34000	10,94933	,407	-13,9979	32,6779
	P2	K1	9,62750	10,94933	,393	-13,7104	32,9654
		K2	6,76000	10,94933	,546	-16,5779	30,0979
		P1	6,21250	10,94933	,579	-17,1254	29,5504
		P3	15,55250	10,94933	,176	-7,7854	38,8904
	P3	K1	-5,92500	10,94933	,596	-29,2629	17,4129
		K2	-8,79250	10,94933	,435	-32,1304	14,5454
		P1	-9,34000	10,94933	,407	-32,6779	13,9979
		P2	-15,55250	10,94933	,176	-38,8904	7,7854

VCL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	86,0250
	K1	4	91,9500
	K2	4	94,8175
	P1	4	95,3650
	P2	4	101,5775
	Sig.		,217

Means for groups in homogeneous subsets are displayed.

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

VSL

Descriptives

VSL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	49,7000	4,88039	2,44019	41,9342	57,4658	46,15	56,74
K2	4	52,7125	11,11830	5,55915	35,0208	70,4042	44,29	69,09
P1	4	50,0500	11,04623	5,52312	32,4730	67,6270	42,27	66,43
P2	4	52,0375	6,49043	3,24521	41,7098	62,3652	46,59	61,02
P3	4	45,9550	3,39532	1,69766	40,5523	51,3577	43,50	50,71
Total	20	50,0910	7,54290	1,68664	46,5608	53,6212	42,27	69,09

ANOVA

VSL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	111,689	4	27,922	,432	,783
Within Groups	969,324	15	64,622		
Total	1081,013	19			

Multiple Comparisons

Dependent Variable: VSL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-3,01250	5,68426	,604	-15,1282	9,1032
		P1	-,35000	5,68426	,952	-12,4657	11,7657
		P2	-2,33750	5,68426	,687	-14,4532	9,7782
		P3	3,74500	5,68426	,520	-8,3707	15,8607
	K2	K1	3,01250	5,68426	,604	-9,1032	15,1282
		P1	2,66250	5,68426	,646	-9,4532	14,7782
		P2	,67500	5,68426	,907	-11,4407	12,7907
		P3	6,75750	5,68426	,253	-5,3582	18,8732
	P1	K1	,35000	5,68426	,952	-11,7657	12,4657
		K2	-2,66250	5,68426	,646	-14,7782	9,4532
		P2	-1,98750	5,68426	,731	-14,1032	10,1282
		P3	4,09500	5,68426	,482	-8,0207	16,2107
	P2	K1	2,33750	5,68426	,687	-9,7782	14,4532
		K2	-,67500	5,68426	,907	-12,7907	11,4407
		P1	1,98750	5,68426	,731	-10,1282	14,1032
		P3	6,08250	5,68426	,302	-6,0332	18,1982
	P3	K1	-3,74500	5,68426	,520	-15,8607	8,3707
		K2	-6,75750	5,68426	,253	-18,8732	5,3582
		P1	-4,09500	5,68426	,482	-16,2107	8,0207
		P2	-6,08250	5,68426	,302	-18,1982	6,0332

VSL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	45,9550
	K1	4	49,7000
	P1	4	50,0500
	P2	4	52,0375
	K2	4	52,7125
	Sig.		,298

Means for groups in homogeneous subsets are displayed.

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

WOB

Descriptives

WOB

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	,5225	,02363	,01181	,4849	,5601	,49	,54
K2	4	,5550	,07047	,03524	,4429	,6671	,51	,66
P1	4	,5300	,06164	,03082	,4319	,6281	,44	,58
P2	4	,5125	,01708	,00854	,4853	,5397	,49	,53
P3	4	,3850	,05196	,02598	,3023	,4677	,33	,45
Total	20	,5010	,07546	,01687	,4657	,5363	,33	,66

ANOVA

WOB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,071	4	,018	7,229	,002
Within Groups	,037	15	,002		
Total	,108	19			

WOB

	Perlakuan	N	Subset for alpha = .05	
			1	2
Duncan[a]	P3	4	,3850	
	P2	4		,5125
	K1	4		,5225
	P1	4		,5300
	K2	4		,5550
	Sig.		1,000	,282

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: WOB

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-,03250	,03510	,369	-,1073	,0423
		P1	-,00750	,03510	,834	-,0823	,0673
		P2	,01000	,03510	,780	-,0648	,0848
		P3	,13750*	,03510	,001	,0627	,2123
	K2	K1	,03250	,03510	,369	-,0423	,1073
		P1	,02500	,03510	,487	-,0498	,0998
		P2	,04250	,03510	,245	-,0323	,1173
		P3	,17000*	,03510	,000	,0952	,2448
	P1	K1	,00750	,03510	,834	-,0673	,0823
		K2	-,02500	,03510	,487	-,0998	,0498
		P2	,01750	,03510	,625	-,0573	,0923
		P3	,14500*	,03510	,001	,0702	,2198
	P2	K1	-,01000	,03510	,780	-,0848	,0648
		K2	-,04250	,03510	,245	-,1173	,0323
		P1	-,01750	,03510	,625	-,0923	,0573
		P3	,12750*	,03510	,002	,0527	,2023
	P3	K1	-,13750*	,03510	,001	-,2123	-,0627
		K2	-,17000*	,03510	,000	-,2448	-,0952
		P1	-,14500*	,03510	,001	-,2198	-,0702
		P2	-,12750*	,03510	,002	-,2023	-,0527

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

WOB

	Perlakuan	N	Subset for alpha = .05	
			1	2
Duncan[a]	P3	4	,3850	
	P2	4		,5125
	K1	4		,5225
	P1	4		,5300
	K2	4		,5550
	Sig.		1,000	,282

Means for groups in homogeneous subsets are displayed.

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

ALH

Descriptives

ALH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	5,5900	,28577	,14289	5,1353	6,0447	5,26	5,95
K2	4	5,3100	,38427	,19214	4,6985	5,9215	4,80	5,72
P1	4	5,5625	,72817	,36408	4,4038	6,7212	4,60	6,37
P2	4	5,7350	,51720	,25860	4,9120	6,5580	5,26	6,41
P3	4	5,2425	,42828	,21414	4,5610	5,9240	4,81	5,83
Total	20	5,4880	,47612	,10646	5,2652	5,7108	4,60	6,41

ANOVA

ALH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,676	4	,169	,698	,605
Within Groups	3,631	15	,242		
Total	4,307	19			

Multiple Comparisons

Dependent Variable: ALH

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	,28000	,34792	,434	-,4616	1,0216
		P1	,02750	,34792	,938	-,7141	,7691
		P2	-,14500	,34792	,683	-,8866	,5966
		P3	,34750	,34792	,334	-,3941	1,0891
	K2	K1	-,28000	,34792	,434	-1,0216	,4616
		P1	-,25250	,34792	,479	-,9941	,4891
		P2	-,42500	,34792	,241	-1,1666	,3166
		P3	,06750	,34792	,849	-,6741	,8091
	P1	K1	-,02750	,34792	,938	-,7691	,7141
		K2	,25250	,34792	,479	-,4891	,9941
		P2	-,17250	,34792	,627	-,9141	,5691
		P3	,32000	,34792	,372	-,4216	1,0616
	P2	K1	,14500	,34792	,683	-,5966	,8866
		K2	,42500	,34792	,241	-,3166	1,1666
		P1	,17250	,34792	,627	-,5691	,9141
		P3	,49250	,34792	,177	-,2491	1,2341
	P3	K1	-,34750	,34792	,334	-1,0891	,3941
		K2	-,06750	,34792	,849	-,8091	,6741
		P1	-,32000	,34792	,372	-1,0616	,4216
		P2	-,49250	,34792	,177	-1,2341	,2491

ALH

		N	Subset for alpha = .05
	Perlakuan	1	1
Duncan(a)	P3	4	5,2425
	K2	4	5,3100
	P1	4	5,5625
	K1	4	5,5900
	P2	4	5,7350
	Sig.		,219

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 4,000.

AOC

Descriptives

AOC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	18,0575	2,53382	1,26691	14,0256	22,0894	15,12	20,67
K2	4	15,9900	3,54439	1,77219	10,3501	21,6299	11,01	19,33
P1	4	17,1450	2,80574	1,40287	12,6804	21,6096	13,86	20,69
P2	4	18,1050	,35010	,17505	17,5479	18,6621	17,69	18,40
P3	4	14,9975	1,02454	,51227	13,3672	16,6278	14,31	16,52
Total	20	16,8590	2,44138	,54591	15,7164	18,0016	11,01	20,69

ANOVA

AOC

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	29,164	4	7,291	1,301	,314
Within Groups	84,082	15	5,605		
Total	113,246	19			

Multiple Comparisons

Dependent Variable: AOC

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	2,06750	1,67414	,236	-1,5008	5,6358
		P1	,91250	1,67414	,594	-2,6558	4,4808
		P2	-,04750	1,67414	,978	-3,6158	3,5208
		P3	3,06000	1,67414	,088	-,5083	6,6283
	K2	K1	-2,06750	1,67414	,236	-5,6358	1,5008
		P1	-1,15500	1,67414	,501	-4,7233	2,4133
		P2	-2,11500	1,67414	,226	-5,6833	1,4533
		P3	,99250	1,67414	,562	-2,5758	4,5608
	P1	K1	-,91250	1,67414	,594	-4,4808	2,6558
		K2	1,15500	1,67414	,501	-2,4133	4,7233
		P2	-,96000	1,67414	,575	-4,5283	2,6083
		P3	2,14750	1,67414	,219	-1,4208	5,7158
	P2	K1	,04750	1,67414	,978	-3,5208	3,6158
		K2	2,11500	1,67414	,226	-1,4533	5,6833
		P1	,96000	1,67414	,575	-2,6083	4,5283
		P3	3,10750	1,67414	,083	-,4608	6,6758
	P3	K1	-3,06000	1,67414	,088	-6,6283	,5083
		K2	-,99250	1,67414	,562	-4,5608	2,5758
		P1	-2,14750	1,67414	,219	-5,7158	1,4208
		P2	-3,10750	1,67414	,083	-6,6758	,4608

AOC

	Perlakuan	N	Subset for alpha = .05
		1	1
Duncan(a)	P3	4	14,9975
	K2	4	15,9900
	P1	4	17,1450
	K1	4	18,0575
	P2	4	18,1050
	Sig.		,113

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 4,000.

BCD

Descriptives

BCD

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	21,6075	2,41012	1,20506	17,7725	25,4425	20,18	25,21
K2	4	21,7275	4,04518	2,02259	15,2907	28,1643	17,48	26,91
P1	4	23,5025	2,31131	1,15566	19,8247	27,1803	21,60	26,55
P2	4	20,9725	1,77978	,88989	18,1405	23,8045	18,64	22,45
P3	4	21,1450	1,26516	,63258	19,1318	23,1582	19,44	22,22
Total	20	21,7910	2,43942	,54547	20,6493	22,9327	17,48	26,91

ANOVA

BCD

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16,217	4	4,054	,628	,650
Within Groups	96,848	15	6,457		
Total	113,065	19			

BCD

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P2	4	20,9725
	P3	4	21,1450
	K1	4	21,6075
	K2	4	21,7275
	P1	4	23,5025
	Sig.		,221

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 4,000.

Multiple Comparisons

Dependent Variable: BCD

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-,12000	1,79674	,948	-3,9497	3,7097
		P1	-1,89500	1,79674	,308	-5,7247	1,9347
		P2	,63500	1,79674	,729	-3,1947	4,4647
		P3	,46250	1,79674	,800	-3,3672	4,2922
	K2	K1	,12000	1,79674	,948	-3,7097	3,9497
		P1	-1,77500	1,79674	,339	-5,6047	2,0547
		P2	,75500	1,79674	,680	-3,0747	4,5847
		P3	,58250	1,79674	,750	-3,2472	4,4122
	P1	K1	1,89500	1,79674	,308	-1,9347	5,7247
		K2	1,77500	1,79674	,339	-2,0547	5,6047
		P2	2,53000	1,79674	,179	-1,2997	6,3597
		P3	2,35750	1,79674	,209	-1,4722	6,1872
	P2	K1	-,63500	1,79674	,729	-4,4647	3,1947
		K2	-,75500	1,79674	,680	-4,5847	3,0747
		P1	-2,53000	1,79674	,179	-6,3597	1,2997
		P3	-,17250	1,79674	,925	-4,0022	3,6572
	P3	K1	-,46250	1,79674	,800	-4,2922	3,3672
		K2	-,58250	1,79674	,750	-4,4122	3,2472
		P1	-2,35750	1,79674	,209	-6,1872	1,4722
		P2	,17250	1,79674	,925	-3,6572	4,0022

LIN

Descriptives

LIN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	,3550	,02887	,01443	,3091	,4009	,32	,39
K2	4	,4150	,06028	,03014	,3191	,5109	,35	,48
P1	4	,3575	,06602	,03301	,2525	,4625	,28	,43
P2	4	,3600	,00816	,00408	,3470	,3730	,35	,37
P3	4	,3850	,05196	,02598	,3023	,4677	,33	,45
Total	20	,3745	,04883	,01092	,3516	,3974	,28	,48

ANOVA

LIN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,011	4	,003	1,134	,378
Within Groups	,035	15	,002		
Total	,045	19			

Multiple Comparisons

Dependent Variable: LIN

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-,06000	,03405	,098	-,1326	,0126
		P1	-,00250	,03405	,942	-,0751	,0701
		P2	-,00500	,03405	,885	-,0776	,0676
		P3	-,03000	,03405	,392	-,1026	,0426
	K2	K1	,06000	,03405	,098	-,0126	,1326
		P1	,05750	,03405	,112	-,0151	,1301
		P2	,05500	,03405	,127	-,0176	,1276
		P3	,03000	,03405	,392	-,0426	,1026
	P1	K1	,00250	,03405	,942	-,0701	,0751
		K2	-,05750	,03405	,112	-,1301	,0151
		P2	-,00250	,03405	,942	-,0751	,0701
		P3	-,02750	,03405	,432	-,1001	,0451
	P2	K1	,00500	,03405	,885	-,0676	,0776
		K2	-,05500	,03405	,127	-,1276	,0176
		P1	,00250	,03405	,942	-,0701	,0751
		P3	-,02500	,03405	,474	-,0976	,0476
	P3	K1	,03000	,03405	,392	-,0426	,1026
		K2	-,03000	,03405	,392	-,1026	,0426
		P1	,02750	,03405	,432	-,0451	,1001
		P2	,02500	,03405	,474	-,0476	,0976

LIN

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K1	4	,3550
	P1	4	,3575
	P2	4	,3600
	P3	4	,3850
	K2	4	,4150
	Sig.		,131

Means for groups in homogeneous subsets are displayed.

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

DAP

Descriptives

DAP

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	21,2125	3,89372	1,94686	15,0167	27,4083	18,24	26,94
K2	4	20,4200	2,00979	1,00490	17,2220	23,6180	18,79	22,94
P1	4	20,3850	4,18800	2,09400	13,7210	27,0490	17,14	26,52
P2	4	20,8725	3,00072	1,50036	16,0977	25,6473	18,75	25,23
P3	4	18,6925	1,71896	,85948	15,9573	21,4277	17,32	21,15
Total	20	20,3165	2,91236	,65122	18,9535	21,6795	17,14	26,94

ANOVA

DAP

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	15,059	4	3,765	,387	,815
Within Groups	146,096	15	9,740		
Total	161,155	19			

Multiple Comparisons

Dependent Variable: DAP

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	,79250	2,20678	,725	-3,9111	5,4961
		P1	,82750	2,20678	,713	-3,8761	5,5311
		P2	,34000	2,20678	,880	-4,3636	5,0436
		P3	2,52000	2,20678	,271	-2,1836	7,2236
	K2	K1	-,79250	2,20678	,725	-5,4961	3,9111
		P1	,03500	2,20678	,988	-4,6686	4,7386
		P2	-,45250	2,20678	,840	-5,1561	4,2511
		P3	1,72750	2,20678	,446	-2,9761	6,4311
	P1	K1	-,82750	2,20678	,713	-5,5311	3,8761
		K2	-,03500	2,20678	,988	-4,7386	4,6686
		P2	-,48750	2,20678	,828	-5,1911	4,2161
		P3	1,69250	2,20678	,455	-3,0111	6,3961
	P2	K1	-,34000	2,20678	,880	-5,0436	4,3636
		K2	,45250	2,20678	,840	-4,2511	5,1561
		P1	,48750	2,20678	,828	-4,2161	5,1911
		P3	2,18000	2,20678	,339	-2,5236	6,8836
	P3	K1	-2,52000	2,20678	,271	-7,2236	2,1836
		K2	-1,72750	2,20678	,446	-6,4311	2,9761
		P1	-1,69250	2,20678	,455	-6,3961	3,0111
		P2	-2,18000	2,20678	,339	-6,8836	2,5236

DAP

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	18,6925
	P1	4	20,3850
	K2	4	20,4200
	P2	4	20,8725
	K1	4	21,2125
	Sig.		,317

Means for groups in homogeneous subsets are displayed.

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

DCL

Descriptives

DCL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	38,9100	3,04543	1,52272	34,0640	43,7560	34,75	41,67
K2	4	39,3425	2,80015	1,40007	34,8868	43,7982	36,10	42,88
P1	4	38,4250	9,05217	4,52608	24,0210	52,8290	29,75	49,18
P2	4	41,2650	5,60431	2,80216	32,3473	50,1827	36,83	48,72
P3	4	35,3975	5,95559	2,97780	25,9208	44,8742	27,71	40,74
Total	20	38,6680	5,47654	1,22459	36,1049	41,2311	27,71	49,18

ANOVA

DCL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	72,053	4	18,013	,543	,707
Within Groups	497,804	15	33,187		
Total	569,857	19			

Multiple Comparisons

Dependent Variable: DCL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-,43250	4,07351	,917	-9,1150	8,2500
		P1	,48500	4,07351	,907	-8,1975	9,1675
		P2	-2,35500	4,07351	,572	-11,0375	6,3275
		P3	3,51250	4,07351	,402	-5,1700	12,1950
	K2	K1	,43250	4,07351	,917	-8,2500	9,1150
		P1	,91750	4,07351	,825	-7,7650	9,6000
		P2	-1,92250	4,07351	,644	-10,6050	6,7600
		P3	3,94500	4,07351	,348	-4,7375	12,6275
	P1	K1	-,48500	4,07351	,907	-9,1675	8,1975
		K2	-,91750	4,07351	,825	-9,6000	7,7650
		P2	-2,84000	4,07351	,496	-11,5225	5,8425
		P3	3,02750	4,07351	,469	-5,6550	11,7100
	P2	K1	2,35500	4,07351	,572	-6,3275	11,0375
		K2	1,92250	4,07351	,644	-6,7600	10,6050
		P1	2,84000	4,07351	,496	-5,8425	11,5225
		P3	5,86750	4,07351	,170	-2,8150	14,5500
	P3	K1	-3,51250	4,07351	,402	-12,1950	5,1700
		K2	-3,94500	4,07351	,348	-12,6275	4,7375
		P1	-3,02750	4,07351	,469	-11,7100	5,6550
		P2	-5,86750	4,07351	,170	-14,5500	2,8150

DCL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	35,3975
	P1	4	38,4250
	K1	4	38,9100
	K2	4	39,3425
	P2	4	41,2650
	Sig.		,211

Means for groups in homogeneous subsets are displayed.

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

DSL

Descriptives

DSL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	15,5450	3,97878	1,98939	9,2139	21,8761	12,39	21,36
K2	4	13,8400	1,98439	,99219	10,6824	16,9976	12,06	16,44
P1	4	13,7250	3,73597	1,86799	7,7802	19,6698	9,83	18,41
P2	4	14,5200	1,83650	,91825	11,5977	17,4423	12,98	17,08
P3	4	13,1000	1,00283	,50141	11,5043	14,6957	12,31	14,42
Total	20	14,1460	2,59718	,58075	12,9305	15,3615	9,83	21,36

ANOVA

DSL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13,848	4	3,462	,454	,768
Within Groups	114,313	15	7,621		
Total	128,161	19			

DSL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	13,1000
	P1	4	13,7250
	K2	4	13,8400
	P2	4	14,5200
	K1	4	15,5450
	Sig.		,274

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: DSL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	1,70500	1,95203	,396	-2,4557	5,8657
		P1	1,82000	1,95203	,366	-2,3407	5,9807
		P2	1,02500	1,95203	,607	-3,1357	5,1857
		P3	2,44500	1,95203	,230	-1,7157	6,6057
	K2	K1	-1,70500	1,95203	,396	-5,8657	2,4557
		P1	,11500	1,95203	,954	-4,0457	4,2757
		P2	-,68000	1,95203	,732	-4,8407	3,4807
		P3	,74000	1,95203	,710	-3,4207	4,9007
	P1	K1	-1,82000	1,95203	,366	-5,9807	2,3407
		K2	-,11500	1,95203	,954	-4,2757	4,0457
		P2	-,79500	1,95203	,690	-4,9557	3,3657
		P3	,62500	1,95203	,753	-3,5357	4,7857
	P2	K1	-1,02500	1,95203	,607	-5,1857	3,1357
		K2	,68000	1,95203	,732	-3,4807	4,8407
		P1	,79500	1,95203	,690	-3,3657	4,9557
		P3	1,42000	1,95203	,478	-2,7407	5,5807
	P3	K1	-2,44500	1,95203	,230	-6,6057	1,7157
		K2	-,74000	1,95203	,710	-4,9007	3,4207
		P1	-,62500	1,95203	,753	-4,7857	3,5357
		P2	-1,42000	1,95203	,478	-5,5807	2,7407

STR

Descriptives

STR

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	,3550	,02887	,01443	,3091	,4009	,32	,39
K2	4	,4150	,06028	,03014	,3191	,5109	,35	,48
P1	4	,3575	,06602	,03301	,2525	,4625	,28	,43
P2	4	,3600	,00816	,00408	,3470	,3730	,35	,37
P3	4	,3850	,05196	,02598	,3023	,4677	,33	,45
Total	20	,3745	,04883	,01092	,3516	,3974	,28	,48

ANOVA

STR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,011	4	,003	1,134	,378
Within Groups	,035	15	,002		
Total	,045	19			

Multiple Comparisons

Dependent Variable: STR

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-,06000	,03405	,098	-,1326	,0126
		P1	-,00250	,03405	,942	-,0751	,0701
		P2	-,00500	,03405	,885	-,0776	,0676
		P3	-,03000	,03405	,392	-,1026	,0426
	K2	K1	,06000	,03405	,098	-,0126	,1326
		P1	,05750	,03405	,112	-,0151	,1301
		P2	,05500	,03405	,127	-,0176	,1276
		P3	,03000	,03405	,392	-,0426	,1026
	P1	K1	,00250	,03405	,942	-,0701	,0751
		K2	-,05750	,03405	,112	-,1301	,0151
		P2	-,00250	,03405	,942	-,0751	,0701
		P3	-,02750	,03405	,432	-,1001	,0451
	P2	K1	,00500	,03405	,885	-,0676	,0776
		K2	-,05500	,03405	,127	-,1276	,0176
		P1	,00250	,03405	,942	-,0701	,0751
		P3	-,02500	,03405	,474	-,0976	,0476
	P3	K1	,03000	,03405	,392	-,0426	,1026
		K2	-,03000	,03405	,392	-,1026	,0426
		P1	,02750	,03405	,432	-,0451	,1001
		P2	,02500	,03405	,474	-,0476	,0976

STR

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K1	4	,3550
	P1	4	,3575
	P2	4	,3600
	P3	4	,3850
	K2	4	,4150
	Sig.		,131

Means for groups in homogeneous subsets are displayed.

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

SETELAH PEMBEKUAN

Motilitas

Descriptives

motilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	47,0000	2,94392	1,47196	42,3156	51,6844	44,00	50,00
k2	4	39,1750	1,39613	,69806	36,9535	41,3965	37,10	40,00
p1	4	48,2500	4,52364	2,26182	41,0519	55,4481	43,20	53,60
p2	4	48,4000	4,29651	2,14826	41,5633	55,2367	42,90	52,20
p3	4	45,7750	3,15423	1,57711	40,7559	50,7941	41,20	48,10
Total	20	45,7200	4,64935	1,03963	43,5440	47,8960	37,10	53,60

ANOVA

motilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	232,247	4	58,062	4,880	,010
Within Groups	178,465	15	11,898		
Total	410,712	19			

Multiple Comparisons

Dependent Variable: motilitas

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	7,82500*	2,43902	,006	2,6263	13,0237
		p1	-1,25000	2,43902	,616	-6,4487	3,9487
		p2	-1,40000	2,43902	,574	-6,5987	3,7987
		p3	1,22500	2,43902	,623	-3,9737	6,4237
	k2	k1	-7,82500*	2,43902	,006	-13,0237	-2,6263
		p1	-9,07500*	2,43902	,002	-14,2737	-3,8763
		p2	-9,22500*	2,43902	,002	-14,4237	-4,0263
		p3	-6,60000*	2,43902	,016	-11,7987	-1,4013
	p1	k1	1,25000	2,43902	,616	-3,9487	6,4487
		k2	9,07500*	2,43902	,002	3,8763	14,2737
		p2	-,15000	2,43902	,952	-5,3487	5,0487
		p3	2,47500	2,43902	,326	-2,7237	7,6737
	p2	k1	1,40000	2,43902	,574	-3,7987	6,5987
		k2	9,22500*	2,43902	,002	4,0263	14,4237
		p1	,15000	2,43902	,952	-5,0487	5,3487
		p3	2,62500	2,43902	,299	-2,5737	7,8237
	p3	k1	-1,22500	2,43902	,623	-6,4237	3,9737
		k2	6,60000*	2,43902	,016	1,4013	11,7987
		p1	-2,47500	2,43902	,326	-7,6737	2,7237
		p2	-2,62500	2,43902	,299	-7,8237	2,5737

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

motilitas

	perlakuan	N	Subset for alpha = .05	
			1	2
Duncan[a]	k2	4	39,1750	
	p3	4		45,7750
	k1	4		47,0000
	p1	4		48,2500
	p2	4		48,4000
	Sig.		1,000	,337

Means for groups in homogeneous subsets are displayed.

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

Viabilitas

Descriptives

viabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	50,0000	2,94392	1,47196	45,3156	54,6844	47,00	53,00
k2	4	44,0000	1,41421	,70711	41,7497	46,2503	42,00	45,00
p1	4	50,7500	3,59398	1,79699	45,0312	56,4688	46,00	54,00
p2	4	54,0000	,81650	,40825	52,7008	55,2992	53,00	55,00
p3	4	48,2500	4,11299	2,05649	41,7053	54,7947	43,00	52,00
Total	20	49,4000	4,22275	,94423	47,4237	51,3763	42,00	55,00

ANOVA

viabilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	215,300	4	53,825	6,537	,003
Within Groups	123,500	15	8,233		
Total	338,800	19			

viabilitas

	perlakuan	N	Subset for alpha = .05		
			1	2	3
Duncan[a]	k2	4	44,0000		
	p3	4	48,2500	48,2500	
	k1	4		50,0000	50,0000
	p1	4		50,7500	50,7500
	p2	4			54,0000
	Sig.		,054	,261	,080

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: viabilitas

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	6,00000*	2,02896	,010	1,6754	10,3246
		p1	-,75000	2,02896	,717	-5,0746	3,5746
		p2	-4,00000	2,02896	,067	-8,3246	,3246
		p3	1,75000	2,02896	,402	-2,5746	6,0746
	k2	k1	-6,00000*	2,02896	,010	-10,3246	-1,6754
		p1	-6,75000*	2,02896	,005	-11,0746	-2,4254
		p2	-10,00000*	2,02896	,000	-14,3246	-5,6754
		p3	-4,25000	2,02896	,054	-8,5746	,0746
	p1	k1	,75000	2,02896	,717	-3,5746	5,0746
		k2	6,75000*	2,02896	,005	2,4254	11,0746
		p2	-3,25000	2,02896	,130	-7,5746	1,0746
		p3	2,50000	2,02896	,237	-1,8246	6,8246
	p2	k1	4,00000	2,02896	,067	-,3246	8,3246
		k2	10,00000*	2,02896	,000	5,6754	14,3246
		p1	3,25000	2,02896	,130	-1,0746	7,5746
		p3	5,75000*	2,02896	,013	1,4254	10,0746
	p3	k1	-1,75000	2,02896	,402	-6,0746	2,5746
		k2	4,25000	2,02896	,054	-,0746	8,5746
		p1	-2,50000	2,02896	,237	-6,8246	1,8246
		p2	-5,75000*	2,02896	,013	-10,0746	-1,4254

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

MPU

Descriptives

MPU

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	50,5000	1,29099	,64550	48,4457	52,5543	49,00	52,00
k2	4	44,2500	,95743	,47871	42,7265	45,7735	43,00	45,00
p1	4	45,4250	1,47958	,73979	43,0707	47,7793	44,00	47,50
p2	4	51,8000	1,69706	,84853	49,0996	54,5004	49,80	53,40
p3	4	49,7250	,98446	,49223	48,1585	51,2915	48,90	51,00
Total	20	48,3400	3,25243	,72727	46,8178	49,8622	43,00	53,40

ANOVA

MPU

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	175,123	4	43,781	25,390	,000
Within Groups	25,865	15	1,724		
Total	200,988	19			

Multiple Comparisons

Dependent Variable: MPU

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	6,25000*	,92853	,000	4,2709	8,2291
		p1	5,07500*	,92853	,000	3,0959	7,0541
		p2	-1,30000	,92853	,182	-3,2791	,6791
		p3	,77500	,92853	,417	-1,2041	2,7541
	k2	k1	-6,25000*	,92853	,000	-8,2291	-4,2709
		p1	-1,17500	,92853	,225	-3,1541	,8041
		p2	-7,55000*	,92853	,000	-9,5291	-5,5709
		p3	-5,47500*	,92853	,000	-7,4541	-3,4959
	p1	k1	-5,07500*	,92853	,000	-7,0541	-3,0959
		k2	1,17500	,92853	,225	-,8041	3,1541
		p2	-6,37500*	,92853	,000	-8,3541	-4,3959
		p3	-4,30000*	,92853	,000	-6,2791	-2,3209
	p2	k1	1,30000	,92853	,182	-,6791	3,2791
		k2	7,55000*	,92853	,000	5,5709	9,5291
		p1	6,37500*	,92853	,000	4,3959	8,3541
		p3	2,07500*	,92853	,041	,0959	4,0541
	p3	k1	-,77500	,92853	,417	-2,7541	1,2041
		k2	5,47500*	,92853	,000	3,4959	7,4541
		p1	4,30000*	,92853	,000	2,3209	6,2791
		p2	-2,07500*	,92853	,041	-4,0541	-,0959

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

MPU

	perlakuan	N	Subset for alpha = .05		
		1	2	3	1
Duncan(a)	k2	4	44,2500		
	p1	4	45,4250		
	p3	4		49,7250	
	k1	4		50,5000	50,5000
	p2	4			51,8000
	Sig.		,225	,417	,182

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 4,000.

TAU

Descriptives

TAU

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
k1	4	49,5500	2,10000	1,05000	46,2084	52,8916	47,00	52,00
k2	4	41,8750	1,72313	,86156	39,1331	44,6169	40,00	43,90
p1	4	46,0000	1,52534	,76267	43,5728	48,4272	44,30	48,00
p2	4	52,6725	2,26444	1,13222	49,0693	56,2757	49,80	54,89
p3	4	49,3750	2,67005	1,33502	45,1264	53,6236	45,70	52,10
Total	20	47,8945	4,20670	,94065	45,9257	49,8633	40,00	54,89

ANOVA

TAU

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	270,341	4	67,585	15,386	,000
Within Groups	65,888	15	4,393		
Total	336,229	19			

Multiple Comparisons

Dependent Variable: TAU

	(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	k1	k2	7,67500*	1,48198	,000	4,5162	10,8338
		p1	3,55000*	1,48198	,030	,3912	6,7088
		p2	-3,12250	1,48198	,052	-6,2813	,0363
		p3	,17500	1,48198	,908	-2,9838	3,3338
	k2	k1	-7,67500*	1,48198	,000	-10,8338	-4,5162
		p1	-4,12500*	1,48198	,014	-7,2838	-,9662
		p2	-10,79750*	1,48198	,000	-13,9563	-7,6387
		p3	-7,50000*	1,48198	,000	-10,6588	-4,3412
	p1	k1	-3,55000*	1,48198	,030	-6,7088	-,3912
		k2	4,12500*	1,48198	,014	,9662	7,2838
		p2	-6,67250*	1,48198	,000	-9,8313	-3,5137
		p3	-3,37500*	1,48198	,038	-6,5338	-,2162
	p2	k1	3,12250	1,48198	,052	-,0363	6,2813
		k2	10,79750*	1,48198	,000	7,6387	13,9563
		p1	6,67250*	1,48198	,000	3,5137	9,8313
		p3	3,29750*	1,48198	,042	,1387	6,4563
	p3	k1	-,17500	1,48198	,908	-3,3338	2,9838
		k2	7,50000*	1,48198	,000	4,3412	10,6588
		p1	3,37500*	1,48198	,038	,2162	6,5338
		p2	-3,29750*	1,48198	,042	-6,4563	-,1387

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

TAU

	perlakuan	N	Subset for alpha = .05		
		1	2	3	1
Duncan(a)	k2	4	41,8750		
	p1	4		46,0000	
	p3	4			49,3750
	k1	4			49,5500
	p2	4			52,6725
	Sig.		1,000	1,000	,051

Means for groups in homogeneous subsets are displayed.
a Uses Harmonic Mean Sample Size = 4,000.

POLA PERGERAKAN

VAP

Descriptives

VAP

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	42,0750	2,78721	1,39361	37,6399	46,5101	38,95	45,51
K2	4	39,6775	5,22992	2,61496	31,3555	47,9995	34,30	46,64
P1	4	50,5875	13,45500	6,72750	29,1776	71,9974	36,00	62,04
P2	4	42,4350	5,23220	2,61610	34,1094	50,7606	37,27	49,62
P3	4	56,7325	32,13159	16,06580	5,6040	107,8610	36,55	104,60
Total	20	46,3015	15,63293	3,49563	38,9851	53,6179	34,30	104,60

ANOVA

VAP

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	815,464	4	203,866	,799	,544
Within Groups	3827,918	15	255,195		
Total	4643,382	19			

VAP

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	39,6775
	K1	4	42,0750
	P2	4	42,4350
	P1	4	50,5875
	P3	4	56,7325
	Sig.		,191

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 4,000.

Multiple Comparisons

Dependent Variable: VAP

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	2,39750	11,29590	,835	-21,6791	26,4741
		P1	-8,51250	11,29590	,463	-32,5891	15,5641
		P2	-,36000	11,29590	,975	-24,4366	23,7166
		P3	-14,65750	11,29590	,214	-38,7341	9,4191
	K2	K1	-2,39750	11,29590	,835	-26,4741	21,6791
		P1	-10,91000	11,29590	,349	-34,9866	13,1666
		P2	-2,75750	11,29590	,810	-26,8341	21,3191
		P3	-17,05500	11,29590	,152	-41,1316	7,0216
	P1	K1	8,51250	11,29590	,463	-15,5641	32,5891
		K2	10,91000	11,29590	,349	-13,1666	34,9866
		P2	8,15250	11,29590	,482	-15,9241	32,2291
		P3	-6,14500	11,29590	,594	-30,2216	17,9316
	P2	K1	,36000	11,29590	,975	-23,7166	24,4366
		K2	2,75750	11,29590	,810	-21,3191	26,8341
		P1	-8,15250	11,29590	,482	-32,2291	15,9241
		P3	-14,29750	11,29590	,225	-38,3741	9,7791
	P3	K1	14,65750	11,29590	,214	-9,4191	38,7341
		K2	17,05500	11,29590	,152	-7,0216	41,1316
		P1	6,14500	11,29590	,594	-17,9316	30,2216
		P2	14,29750	11,29590	,225	-9,7791	38,3741

VCL

Descriptives

VCL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	76,4975	11,09511	5,54755	58,8427	94,1523	62,70	86,39
K2	4	72,7375	4,25148	2,12574	65,9724	79,5026	68,56	78,50
P1	4	81,8250	19,50514	9,75257	50,7880	112,8620	65,08	104,50
P2	4	87,5575	25,98212	12,99106	46,2142	128,9008	68,72	125,30
P3	4	92,9525	36,06811	18,03405	35,5601	150,3449	67,04	145,90
Total	20	82,3140	21,22390	4,74581	72,3809	92,2471	62,70	145,90

ANOVA

VCL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1065,808	4	266,452	,533	,713
Within Groups	7492,817	15	499,521		
Total	8558,626	19			

Multiple Comparisons

Dependent Variable: VCL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	3,76000	15,80382	,815	-29,9250	37,4450
		P1	-5,32750	15,80382	,741	-39,0125	28,3575
		P2	-11,06000	15,80382	,495	-44,7450	22,6250
		P3	-16,45500	15,80382	,314	-50,1400	17,2300
	K2	K1	-3,76000	15,80382	,815	-37,4450	29,9250
		P1	-9,08750	15,80382	,574	-42,7725	24,5975
		P2	-14,82000	15,80382	,363	-48,5050	18,8650
		P3	-20,21500	15,80382	,220	-53,9000	13,4700
	P1	K1	5,32750	15,80382	,741	-28,3575	39,0125
		K2	9,08750	15,80382	,574	-24,5975	42,7725
		P2	-5,73250	15,80382	,722	-39,4175	27,9525
		P3	-11,12750	15,80382	,492	-44,8125	22,5575
	P2	K1	11,06000	15,80382	,495	-22,6250	44,7450
		K2	14,82000	15,80382	,363	-18,8650	48,5050
		P1	5,73250	15,80382	,722	-27,9525	39,4175
		P3	-5,39500	15,80382	,738	-39,0800	28,2900
	P3	K1	16,45500	15,80382	,314	-17,2300	50,1400
		K2	20,21500	15,80382	,220	-13,4700	53,9000
		P1	11,12750	15,80382	,492	-22,5575	44,8125
		P2	5,39500	15,80382	,738	-28,2900	39,0800

VCL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	72,7375
	K1	4	76,4975
	P1	4	81,8250
	P2	4	87,5575
	P3	4	92,9525
	Sig.		,264

Means for groups in homogeneous subsets are displayed.

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

VSL

Descriptives

VSL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	30,8675	4,38894	2,19447	23,8837	37,8513	26,84	35,43
K2	4	28,9325	7,40208	3,70104	17,1541	40,7109	20,15	38,25
P1	4	38,3450	12,72157	6,36078	18,1021	58,5879	21,68	49,29
P2	4	29,0025	3,27180	1,63590	23,7963	34,2087	24,60	32,48
P3	4	46,9675	33,50616	16,75308	-6,3483	100,2833	24,87	96,84
Total	20	34,8230	16,35823	3,65781	27,1671	42,4789	20,15	96,84

ANOVA

VSL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	976,462	4	244,116	,891	,493
Within Groups	4107,779	15	273,852		
Total	5084,241	19			

Multiple Comparisons

Dependent Variable: VSL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	1,93500	11,70154	,871	-23,0062	26,8762
		P1	-7,47750	11,70154	,532	-32,4187	17,4637
		P2	1,86500	11,70154	,875	-23,0762	26,8062
		P3	-16,10000	11,70154	,189	-41,0412	8,8412
	K2	K1	-1,93500	11,70154	,871	-26,8762	23,0062
		P1	-9,41250	11,70154	,434	-34,3537	15,5287
		P2	-,07000	11,70154	,995	-25,0112	24,8712
		P3	-18,03500	11,70154	,144	-42,9762	6,9062
	P1	K1	7,47750	11,70154	,532	-17,4637	32,4187
		K2	9,41250	11,70154	,434	-15,5287	34,3537
		P2	9,34250	11,70154	,437	-15,5987	34,2837
		P3	-8,62250	11,70154	,473	-33,5637	16,3187
	P2	K1	-1,86500	11,70154	,875	-26,8062	23,0762
		K2	,07000	11,70154	,995	-24,8712	25,0112
		P1	-9,34250	11,70154	,437	-34,2837	15,5987
		P3	-17,96500	11,70154	,146	-42,9062	6,9762
	P3	K1	16,10000	11,70154	,189	-8,8412	41,0412
		K2	18,03500	11,70154	,144	-6,9062	42,9762
		P1	8,62250	11,70154	,473	-16,3187	33,5637
		P2	17,96500	11,70154	,146	-6,9762	42,9062

VSL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	28,9325
	P2	4	29,0025
	K1	4	30,8675
	P1	4	38,3450
	P3	4	46,9675
	Sig.		,183

Means for groups in homogeneous subsets are displayed.

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

WOB

Descriptives

WOB

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	,5600	,08485	,04243	,4250	,6950	,48	,68
K2	4	,5400	,04690	,02345	,4654	,6146	,50	,59
P1	4	,6150	,05686	,02843	,5245	,7055	,55	,68
P2	4	,5000	,08602	,04301	,3631	,6369	,39	,59
P3	4	,5925	,12038	,06019	,4009	,7841	,43	,72
Total	20	,5615	,08456	,01891	,5219	,6011	,39	,72

ANOVA

WOB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,032	4	,008	1,169	,364
Within Groups	,104	15	,007		
Total	,136	19			

Multiple Comparisons

Dependent Variable: WOB

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	,02000	,05876	,738	-,1052	,1452
		P1	-,05500	,05876	,364	-,1802	,0702
		P2	,06000	,05876	,323	-,0652	,1852
		P3	-,03250	,05876	,588	-,1577	,0927
	K2	K1	-,02000	,05876	,738	-,1452	,1052
		P1	-,07500	,05876	,221	-,2002	,0502
		P2	,04000	,05876	,506	-,0852	,1652
		P3	-,05250	,05876	,386	-,1777	,0727
	P1	K1	,05500	,05876	,364	-,0702	,1802
		K2	,07500	,05876	,221	-,0502	,2002
		P2	,11500	,05876	,069	-,0102	,2402
		P3	,02250	,05876	,707	-,1027	,1477
	P2	K1	-,06000	,05876	,323	-,1852	,0652
		K2	-,04000	,05876	,506	-,1652	,0852
		P1	-,11500	,05876	,069	-,2402	,0102
		P3	-,09250	,05876	,136	-,2177	,0327
	P3	K1	,03250	,05876	,588	-,0927	,1577
		K2	,05250	,05876	,386	-,0727	,1777
		P1	-,02250	,05876	,707	-,1477	,1027
		P2	,09250	,05876	,136	-,0327	,2177

WOB

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P2	4	,5000
	K2	4	,5400
	K1	4	,5600
	P3	4	,5925
	P1	4	,6150
	Sig.		,096

Means for groups in homogeneous subsets are displayed.

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

ALH

Descriptives

ALH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	5,2025	,29159	,14580	4,7385	5,6665	4,89	5,58
K2	4	4,7500	,98887	,49444	3,1765	6,3235	3,43	5,71
P1	4	6,0475	2,67515	1,33757	1,7907	10,3043	3,58	9,37
P2	4	5,0250	,74942	,37471	3,8325	6,2175	4,13	5,93
P3	4	6,2625	3,69070	1,84535	,3898	12,1352	3,89	11,71
Total	20	5,4575	1,97620	,44189	4,5326	6,3824	3,43	11,71

ANOVA

ALH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6,995	4	1,749	,390	,812
Within Groups	67,207	15	4,480		
Total	74,202	19			

ALH

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	4,7500
	P2	4	5,0250
	K1	4	5,2025
	P1	4	6,0475
	P3	4	6,2625
	Sig.		,374

Means for groups in homogeneous subsets are displayed.

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

AOC

Descriptives

AOC

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	13,2675	2,10579	1,05290	9,9167	16,6183	10,52	15,58
K2	4	17,7125	3,71619	1,85810	11,7992	23,6258	13,72	21,80
P1	4	14,0200	5,52275	2,76137	5,2321	22,8079	10,02	22,16
P2	4	17,0575	3,94952	1,97476	10,7729	23,3421	13,42	22,52
P3	4	12,4500	1,42588	,71294	10,1811	14,7189	10,79	13,76
Total	20	14,9015	3,88762	,86930	13,0820	16,7210	10,02	22,52

ANOVA

AOC

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	88,028	4	22,007	1,658	,212
Within Groups	199,131	15	13,275		
Total	287,159	19			

Multiple Comparisons

Dependent Variable: AOC

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-4,44500	2,57637	,105	-9,9364	1,0464
		P1	-,75250	2,57637	,774	-6,2439	4,7389
		P2	-3,79000	2,57637	,162	-9,2814	1,7014
		P3	,81750	2,57637	,755	-4,6739	6,3089
	K2	K1	4,44500	2,57637	,105	-1,0464	9,9364
		P1	3,69250	2,57637	,172	-1,7989	9,1839
		P2	,65500	2,57637	,803	-4,8364	6,1464
		P3	5,26250	2,57637	,059	-,2289	10,7539
	P1	K1	,75250	2,57637	,774	-4,7389	6,2439
		K2	-3,69250	2,57637	,172	-9,1839	1,7989
		P2	-3,03750	2,57637	,257	-8,5289	2,4539
		P3	1,57000	2,57637	,551	-3,9214	7,0614
	P2	K1	3,79000	2,57637	,162	-1,7014	9,2814
		K2	-,65500	2,57637	,803	-6,1464	4,8364
		P1	3,03750	2,57637	,257	-2,4539	8,5289
		P3	4,60750	2,57637	,094	-,8839	10,0989
	P3	K1	-,81750	2,57637	,755	-6,3089	4,6739
		K2	-5,26250	2,57637	,059	-10,7539	,2289
		P1	-1,57000	2,57637	,551	-7,0614	3,9214
		P2	-4,60750	2,57637	,094	-10,0989	,8839

AOC

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P3	4	12,4500
	K1	4	13,2675
	P1	4	14,0200
	P2	4	17,0575
	K2	4	17,7125
	Sig.		,083

Means for groups in homogeneous subsets are displayed.

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

BCD

Descriptives

BCD

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	19,4525	2,63075	1,31537	15,2664	23,6386	16,33	22,54
K2	4	23,7025	9,68456	4,84228	8,2922	39,1128	13,24	36,59
P1	4	18,9425	4,49241	2,24621	11,7941	26,0909	13,92	24,37
P2	4	23,7925	3,52071	1,76036	18,1903	29,3947	18,84	26,73
P3	4	22,6675	3,96397	1,98199	16,3599	28,9751	18,97	27,13
Total	20	21,7115	5,30601	1,18646	19,2282	24,1948	13,24	36,59

ANOVA

BCD

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	87,916	4	21,979	,738	,581
Within Groups	447,005	15	29,800		
Total	534,921	19			

BCD

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	P1	4	18,9425
	K1	4	19,4525
	P3	4	22,6675
	K2	4	23,7025
	P2	4	23,7925
	Sig.		,273

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: BCD

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	-4,25000	3,86007	,288	-12,4776	3,9776
		P1	,51000	3,86007	,897	-7,7176	8,7376
		P2	-4,34000	3,86007	,279	-12,5676	3,8876
		P3	-3,21500	3,86007	,418	-11,4426	5,0126
	K2	K1	4,25000	3,86007	,288	-3,9776	12,4776
		P1	4,76000	3,86007	,237	-3,4676	12,9876
		P2	-,09000	3,86007	,982	-8,3176	8,1376
		P3	1,03500	3,86007	,792	-7,1926	9,2626
	P1	K1	-,51000	3,86007	,897	-8,7376	7,7176
		K2	-4,76000	3,86007	,237	-12,9876	3,4676
		P2	-4,85000	3,86007	,228	-13,0776	3,3776
		P3	-3,72500	3,86007	,350	-11,9526	4,5026
	P2	K1	4,34000	3,86007	,279	-3,8876	12,5676
		K2	,09000	3,86007	,982	-8,1376	8,3176
		P1	4,85000	3,86007	,228	-3,3776	13,0776
		P3	1,12500	3,86007	,775	-7,1026	9,3526
	P3	K1	3,21500	3,86007	,418	-5,0126	11,4426
		K2	-1,03500	3,86007	,792	-9,2626	7,1926
		P1	3,72500	3,86007	,350	-4,5026	11,9526
		P2	-1,12500	3,86007	,775	-9,3526	7,1026

LIN

Descriptives

LIN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	,4150	,10847	,05424	,2424	,5876	,32	,57
K2	4	,3950	,08185	,04093	,2648	,5252	,29	,49
P1	4	,4600	,09018	,04509	,3165	,6035	,33	,53
P2	4	,3500	,09416	,04708	,2002	,4998	,23	,46
P3	4	,5175	,09500	,04750	,3663	,6687	,47	,66
Total	20	,4275	,10233	,02288	,3796	,4754	,23	,66

ANOVA

LIN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,066	4	,016	1,840	,174
Within Groups	,133	15	,009		
Total	,199	19			

LIN

	Perlakuan	N	Subset for alpha = .05	
			1	2
Duncan[a]	P2	4	,3500	
	K2	4	,3950	,3950
	K1	4	,4150	,4150
	P1	4	,4600	,4600
	P3	4		,5175
	Sig.		,149	,110

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: LIN

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	,02000	,06670	,768	-,1222	,1622
		P1	-,04500	,06670	,510	-,1872	,0972
		P2	,06500	,06670	,345	-,0772	,2072
		P3	-,10250	,06670	,145	-,2447	,0397
	K2	K1	-,02000	,06670	,768	-,1622	,1222
		P1	-,06500	,06670	,345	-,2072	,0772
		P2	,04500	,06670	,510	-,0972	,1872
		P3	-,12250	,06670	,086	-,2647	,0197
	P1	K1	,04500	,06670	,510	-,0972	,1872
		K2	,06500	,06670	,345	-,0772	,2072
		P2	,11000	,06670	,120	-,0322	,2522
		P3	-,05750	,06670	,402	-,1997	,0847
	P2	K1	-,06500	,06670	,345	-,2072	,0772
		K2	-,04500	,06670	,510	-,1872	,0972
		P1	-,11000	,06670	,120	-,2522	,0322
		P3	-,16750*	,06670	,024	-,3097	-,0253
	P3	K1	,10250	,06670	,145	-,0397	,2447
		K2	,12250	,06670	,086	-,0197	,2647
		P1	,05750	,06670	,402	-,0847	,1997
		P2	,16750*	,06670	,024	,0253	,3097

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

DAP

Descriptives

DAP

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	17,5750	1,47649	,73825	15,2256	19,9244	15,93	19,46
K2	4	15,4575	1,95218	,97609	12,3511	18,5639	13,82	17,93
P1	4	20,2650	5,82462	2,91231	10,9967	29,5333	14,78	25,71
P2	4	16,8425	2,19144	1,09572	13,3554	20,3296	14,61	19,86
P3	4	22,9250	11,82213	5,91106	4,1134	41,7366	15,21	40,53
Total	20	18,6130	6,04985	1,35279	15,7816	21,4444	13,82	40,53

ANOVA

DAP

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	141,967	4	35,492	,962	,457
Within Groups	553,447	15	36,896		
Total	695,414	19			

Multiple Comparisons

Dependent Variable: DAP

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	2,11750	4,29514	,629	-7,0374	11,2724
		P1	-2,69000	4,29514	,541	-11,8449	6,4649
		P2	,73250	4,29514	,867	-8,4224	9,8874
		P3	-5,35000	4,29514	,232	-14,5049	3,8049
	K2	K1	-2,11750	4,29514	,629	-11,2724	7,0374
		P1	-4,80750	4,29514	,281	-13,9624	4,3474
		P2	-1,38500	4,29514	,752	-10,5399	7,7699
		P3	-7,46750	4,29514	,103	-16,6224	1,6874
	P1	K1	2,69000	4,29514	,541	-6,4649	11,8449
		K2	4,80750	4,29514	,281	-4,3474	13,9624
		P2	3,42250	4,29514	,438	-5,7324	12,5774
		P3	-2,66000	4,29514	,545	-11,8149	6,4949
	P2	K1	-,73250	4,29514	,867	-9,8874	8,4224
		K2	1,38500	4,29514	,752	-7,7699	10,5399
		P1	-3,42250	4,29514	,438	-12,5774	5,7324
		P3	-6,08250	4,29514	,177	-15,2374	3,0724
	P3	K1	5,35000	4,29514	,232	-3,8049	14,5049
		K2	7,46750	4,29514	,103	-1,6874	16,6224
		P1	2,66000	4,29514	,545	-6,4949	11,8149
		P2	6,08250	4,29514	,177	-3,0724	15,2374

DAP

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	15,4575
	P2	4	16,8425
	K1	4	17,5750
	P1	4	20,2650
	P3	4	22,9250
	Sig.		,136

Means for groups in homogeneous subsets are displayed.

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

DCL

Descriptives

DCL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	31,9425	3,71625	1,85812	26,0291	37,8559	28,38	36,59
K2	4	28,7175	,96241	,48120	27,1861	30,2489	27,75	29,56
P1	4	33,6850	8,83089	4,41545	19,6331	47,7369	25,11	43,80
P2	4	34,9525	10,48131	5,24065	18,2744	51,6306	27,14	49,90
P3	4	38,7275	13,14484	6,57242	17,8111	59,6439	29,22	57,74
Total	20	33,6050	8,41350	1,88132	29,6674	37,5426	25,11	57,74

ANOVA

DCL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	218,855	4	54,714	,729	,586
Within Groups	1126,098	15	75,073		
Total	1344,953	19			

Multiple Comparisons

Dependent Variable: DCL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	3,22500	6,12671	,606	-9,8338	16,2838
		P1	-1,74250	6,12671	,780	-14,8013	11,3163
		P2	-3,01000	6,12671	,630	-16,0688	10,0488
		P3	-6,78500	6,12671	,286	-19,8438	6,2738
	K2	K1	-3,22500	6,12671	,606	-16,2838	9,8338
		P1	-4,96750	6,12671	,430	-18,0263	8,0913
		P2	-6,23500	6,12671	,325	-19,2938	6,8238
		P3	-10,01000	6,12671	,123	-23,0688	3,0488
	P1	K1	1,74250	6,12671	,780	-11,3163	14,8013
		K2	4,96750	6,12671	,430	-8,0913	18,0263
		P2	-1,26750	6,12671	,839	-14,3263	11,7913
		P3	-5,04250	6,12671	,423	-18,1013	8,0163
	P2	K1	3,01000	6,12671	,630	-10,0488	16,0688
		K2	6,23500	6,12671	,325	-6,8238	19,2938
		P1	1,26750	6,12671	,839	-11,7913	14,3263
		P3	-3,77500	6,12671	,547	-16,8338	9,2838
	P3	K1	6,78500	6,12671	,286	-6,2738	19,8438
		K2	10,01000	6,12671	,123	-3,0488	23,0688
		P1	5,04250	6,12671	,423	-8,0163	18,1013
		P2	3,77500	6,12671	,547	-9,2838	16,8338

DCL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	28,7175
	K1	4	31,9425
	P1	4	33,6850
	P2	4	34,9525
	P3	4	38,7275
	Sig.		,159

Means for groups in homogeneous subsets are displayed.

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

DSL

Descriptives

DSL

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K1	4	12,8625	2,38564	1,19282	9,0664	16,6586	10,89	16,11
K2	4	11,2350	2,80577	1,40289	6,7704	15,6996	8,12	14,94
P1	4	15,2550	5,17631	2,58815	7,0183	23,4917	9,09	19,57
P2	4	11,5325	1,35096	,67548	9,3828	13,6822	9,63	12,53
P3	4	18,7875	12,74413	6,37206	-1,4912	39,0662	10,01	37,72
Total	20	13,9345	6,37343	1,42514	10,9516	16,9174	8,12	37,72

ANOVA

DSL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	158,006	4	39,501	,965	,455
Within Groups	613,787	15	40,919		
Total	771,793	19			

DSL

	Perlakuan	N	Subset for alpha = .05
			1
Duncan[a]	K2	4	11,2350
	P2	4	11,5325
	K1	4	12,8625
	P1	4	15,2550
	P3	4	18,7875
	Sig.		,151

Means for groups in homogeneous subsets are displayed.

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

Multiple Comparisons

Dependent Variable: DSL

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	K1	K2	1,62750	4,52323	,724	-8,0135	11,2685
		P1	-2,39250	4,52323	,605	-12,0335	7,2485
		P2	1,33000	4,52323	,773	-8,3110	10,9710
		P3	-5,92500	4,52323	,210	-15,5660	3,7160
	K2	K1	-1,62750	4,52323	,724	-11,2685	8,0135
		P1	-4,02000	4,52323	,388	-13,6610	5,6210
		P2	-,29750	4,52323	,948	-9,9385	9,3435
		P3	-7,55250	4,52323	,116	-17,1935	2,0885
	P1	K1	2,39250	4,52323	,605	-7,2485	12,0335
		K2	4,02000	4,52323	,388	-5,6210	13,6610
		P2	3,72250	4,52323	,423	-5,9185	13,3635
		P3	-3,53250	4,52323	,447	-13,1735	6,1085
	P2	K1	-1,33000	4,52323	,773	-10,9710	8,3110
		K2	,29750	4,52323	,948	-9,3435	9,9385
		P1	-3,72250	4,52323	,423	-13,3635	5,9185
		P3	-7,25500	4,52323	,130	-16,8960	2,3860
	P3	K1	5,92500	4,52323	,210	-3,7160	15,5660
		K2	7,55250	4,52323	,116	-2,0885	17,1935
		P1	3,53250	4,52323	,447	-6,1085	13,1735
		P2	7,25500	4,52323	,130	-2,3860	16,8960

RIWAYAT HIDUP

Penulis bernama **Zahra Jinan Fadilla** atau biasa dipanggil **Zahra** lahir di Makassar, pada tanggal 24 Oktober 1999. Penulis lahir dan besar di Makassar. Penulis lahir dari ayah yang bernama dari Ir. Muhammad Siarah. M,Si dan ibu bernama Ir. Ummy Riasari. Penulis merupakan keturunan suku tolaki dan bugis bone dan merupakan anak kedua dari tiga bersaudara.

Penulis memiliki riwayat sekolah dan telah menyelesaikan pendidikannya yang dimulai dari Taman Kanak-kanak pada tahun 2005 di TK Teratai Makassar, lalu lanjut ke Sekolah Dasar pada tahun 2006 di SD Pertiwi Makassar, setelah itu lanjut ke Sekolah Menengah Pertama pada tahun 2011 di SMP Negeri 3 Makassar. Akhirnya berlanjut di Sekolah Menengah Atas pada tahun 2014 di SMA Negeri 3 Makassar. Penulis menyelesaikan studi S1nya di Fakultas Peternakan, Universitas Hasanuddin pada tahun 2021. Kemudian, kembali melanjutkan studi S2 di Fakultas Peternakan di Universitas Hasanuddin pada akhir tahun 2021.