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## LAMPIRAN

### Lampiran 1. Analisis Ragam Motilitas dan Motilitas Progreif Hasil Sexing Dengan Pengaruh Lama Inkubasi

#### Motilitas X

##### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	90.9220	2.85951	1.27881	87.3715	94.4725	86.73	94.74
45	5	86.1180	1.69259	.75695	84.0164	88.2196	84.66	88.50
60	5	83.9500	2.26467	1.01279	81.1380	86.7620	82.31	87.82
75	5	81.7280	3.08415	1.37927	77.8985	85.5575	78.52	86.68
Total	20	85.6795	4.19359	.93771	83.7168	87.6422	78.52	94.74

##### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
.115	3	16	.950

##### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	231.408	3	77.136	12.014	.000
Within Groups	102.729	16	6.421		
Total	334.137	19			

##### Multiple Comparisons

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	4.80400*	1.60257	.009	1.4067	8.2013
		60	6.97200*	1.60257	.000	3.5747	10.3693
		75	9.19400*	1.60257	.000	5.7967	12.5913
	45	0	-4.80400*	1.60257	.009	-8.2013	-1.4067
		60	2.16800	1.60257	.195	-1.2293	5.5653
		75	4.39000*	1.60257	.015	.9927	7.7873
	60	0	-6.97200*	1.60257	.000	-10.3693	-3.5747

	45		-2.16800	1.60257	.195	-5.5653	1.2293
	75		2.22200	1.60257	.185	-1.1753	5.6193
75	0		-9.19400*	1.60257	.000	-12.5913	-5.7967
	45		-4.39000*	1.60257	.015	-7.7873	-.9927
	60		-2.22200	1.60257	.185	-5.6193	1.1753

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

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	75	5	81.7280		
	60	5	83.9500	83.9500	
	45	5		86.1180	
	0	5			90.9220
	Sig.		.185	.195	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### Motilitas Y

#### Descriptives

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	90.9220	2.85951	1.27881	87.3715	94.4725	86.73	94.74
45	5	83.2520	1.75387	.78436	81.0743	85.4297	80.57	84.74
60	5	80.8800	1.91107	.85466	78.5071	83.2529	77.88	83.00
75	5	76.2400	2.11581	.94622	73.6129	78.8671	73.80	79.48
Total	20	82.8235	5.81274	1.29977	80.1031	85.5439	73.80	94.74

### Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.097	3	16	.961

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	564.445	3	188.148	38.830	.000
Within Groups	77.527	16	4.845		
Total	641.972	19			

**Multiple Comparisons**

Dependent Variable: hasil

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	7.67000*	1.39218	.000	4.7187	10.6213
		60	10.04200*	1.39218	.000	7.0907	12.9933
		75	14.68200*	1.39218	.000	11.7307	17.6333
	45	0	-7.67000*	1.39218	.000	-10.6213	-4.7187
		60	2.37200	1.39218	.108	-.5793	5.3233
		75	7.01200*	1.39218	.000	4.0607	9.9633
	60	0	-10.04200*	1.39218	.000	-12.9933	-7.0907
		45	-2.37200	1.39218	.108	-5.3233	.5793
		75	4.64000*	1.39218	.004	1.6887	7.5913
	75	0	-14.68200*	1.39218	.000	-17.6333	-11.7307
		45	-7.01200*	1.39218	.000	-9.9633	-4.0607
		60	-4.64000*	1.39218	.004	-7.5913	-1.6887

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

**Homogeneous Subsets**

Hasil

	lama inkubasi	N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	75	5	76.2400		
	60	5		80.8800	
	45	5		83.2520	
	0	5			90.9220
	Sig.			1.000	.108

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## Motilitas Progresif X

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	80.2380	4.10643	1.83645	75.1392	85.3368	75.55	85.07
45	5	75.8240	1.62674	.72750	73.8041	77.8439	73.56	77.62
60	5	73.8380	3.81205	1.70480	69.1047	78.5713	70.08	79.60
75	5	70.5200	3.51823	1.57340	66.1515	74.8885	66.88	76.08
Total	20	75.1050	4.77458	1.06763	72.8704	77.3396	66.88	85.07

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.342	3	16	.296

### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	247.461	3	82.487	7.108	.003
Within Groups	185.675	16	11.605		
Total	433.136	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	4.41400	2.15450	.057	-.1533	8.9813
		60	6.40000*	2.15450	.009	1.8327	10.9673
		75	9.71800*	2.15450	.000	5.1507	14.2853
	45	0	-4.41400	2.15450	.057	-8.9813	.1533
		60	1.98600	2.15450	.370	-2.5813	6.5533
		75	5.30400*	2.15450	.026	.7367	9.8713
	60	0	-6.40000*	2.15450	.009	-10.9673	-1.8327
		45	-1.98600	2.15450	.370	-6.5533	2.5813



	75		3.31800	2.15450	.143	-1.2493	7.8853
75	0		-9.71800*	2.15450	.000	-14.2853	-5.1507
	45		-5.30400*	2.15450	.026	-9.8713	-.7367
	60		-3.31800	2.15450	.143	-7.8853	1.2493

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

## Homogeneous Subsets

### Hasil

	lama inkubasi	N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	75	5	70.5200		
	60	5	73.8380	73.8380	
	45	5		75.8240	75.8240
	0	5			80.2380
	Sig.		.143	.370	.057

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## Motilitas Progresif Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	80.2380	4.10643	1.83645	75.1392	85.3368	75.55	85.07
45	5	70.9400	2.78493	1.24546	67.4820	74.3980	66.85	73.55
60	5	69.7660	2.85437	1.27651	66.2218	73.3102	65.00	72.11
75	5	64.9680	2.00002	.89444	62.4847	67.4513	61.50	66.24
Total	20	71.4780	6.31937	1.41305	68.5204	74.4356	61.50	85.07

### Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.470	3	16	.260

### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	611.690	3	203.897	22.183	.000

Within Groups	147.064	16	9.192		
Total	758.755	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama inkubasi i	(I) lama inkubasi j	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	9.29800*	1.91745	.000	5.2332	13.3628
		60	10.47200*	1.91745	.000	6.4072	14.5368
		75	15.27000*	1.91745	.000	11.2052	19.3348
	45	0	-9.29800*	1.91745	.000	-13.3628	-5.2332
		60	1.17400	1.91745	.549	-2.8908	5.2388
		75	5.97200*	1.91745	.007	1.9072	10.0368
	60	0	-10.47200*	1.91745	.000	-14.5368	-6.4072
		45	-1.17400	1.91745	.549	-5.2388	2.8908
		75	4.79800*	1.91745	.024	.7332	8.8628
	75	0	-15.27000*	1.91745	.000	-19.3348	-11.2052
		45	-5.97200*	1.91745	.007	-10.0368	-1.9072
		60	-4.79800*	1.91745	.024	-8.8628	-.7332

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

### Homogeneous Subsets

Hasil

	lama inkubasi	N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	75	5	64.9680		
	60	5		69.7660	
	45	5		70.9400	
	0	5			80.2380
	Sig.			1.000	.549

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

**Lampiran 2. Analisis Ragam Kecaptn Spermatozoa Hasil Sexing Dengan Pengaruh Lama Inkubasi Berbeda**

**VCL X**

**Descriptives**

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	1.1824E2	11.67239	5.22005	103.7508	132.7372	99.42	128.80
45	5	1.5518E2	12.24488	5.47608	139.9760	170.3840	140.70	169.10
60	5	1.3904E2	18.32452	8.19497	116.2871	161.7929	116.90	165.90
75	5	1.3992E2	14.30689	6.39823	122.1557	157.6843	117.30	152.00
Total	20	1.3810E2	18.85895	4.21699	129.2697	146.9223	99.42	169.10

**Test of Homogeneity of Variances**

Levene Statistic	df1	df2	Sig.
.395	3	16	.758

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3450.915	3	1150.305	5.566	.008
Within Groups	3306.627	16	206.664		
Total	6757.542	19			

**Multiple Comparisons**

Dependent Variable: hasil

	(J) lama inkubasi	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-36.93600 <sup>*</sup>	9.09207	.001	-56.2103	-17.6617
		60	-20.79600 <sup>*</sup>	9.09207	.036	-40.0703	-1.5217
		75	-21.67600 <sup>*</sup>	9.09207	.030	-40.9503	-2.4017
	45	0	36.93600 <sup>*</sup>	9.09207	.001	17.6617	56.2103
		60	16.14000	9.09207	.095	-3.1343	35.4143
		75	15.26000	9.09207	.113	-4.0143	34.5343
	60	0	20.79600 <sup>*</sup>	9.09207	.036	1.5217	40.0703
		45	-16.14000	9.09207	.095	-35.4143	3.1343
		75	-.88000	9.09207	.924	-20.1543	18.3943

75	0	21.67600*	9.09207	.030	2.4017	40.9503
	45	-15.26000	9.09207	.113	-34.5343	4.0143
	60	.88000	9.09207	.924	-18.3943	20.1543

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

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	118.2440	
	60	5		139.0400
	75	5		139.9200
	45	5		155.1800
	Sig.		1.000	.111

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### VCL Y

#### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	1.1824E2	11.67239	5.22005	103.7508	132.7372	99.42	128.80
45	5	1.5608E2	4.90020	2.19144	149.9956	162.1644	147.70	159.50
60	5	1.5180E2	11.65526	5.21239	137.3281	166.2719	139.00	164.50
75	5	1.3508E2	11.58607	5.18145	120.6940	149.4660	116.10	143.00
Total	20	1.4030E2	18.05871	4.03805	131.8493	148.7527	99.42	164.50

#### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.224	3	16	.333

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4474.870	3	1491.623	13.865	.000

Within Groups	1721.355	16	107.585		
Total	6196.224	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama (I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval			
					Lower Bound	Upper Bound		
LSD	0	45	-37.83600*	6.56002	.000	-51.7426	-23.9294	
		60	-33.55600*	6.56002	.000	-47.4626	-19.6494	
		75	-16.83600*	6.56002	.021	-30.7426	-2.9294	
		45	0	37.83600*	6.56002	.000	23.9294	51.7426
			60	4.28000	6.56002	.523	-9.6266	18.1866
			75	21.00000*	6.56002	.006	7.0934	34.9066
		60	0	33.55600*	6.56002	.000	19.6494	47.4626
			45	-4.28000	6.56002	.523	-18.1866	9.6266
			75	16.72000*	6.56002	.021	2.8134	30.6266
		75	0	16.83600*	6.56002	.021	2.9294	30.7426
			45	-21.00000*	6.56002	.006	-34.9066	-7.0934
			60	-16.72000*	6.56002	.021	-30.6266	-2.8134

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

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	0	5	1.1824E2		
	75	5		1.3508E2	
	60	5			1.5180E2
	45	5			1.5608E2
	Sig.			1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## VAP X

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	63.2260	5.44349	2.43440	56.4670	69.9850	53.99	67.17
45	5	77.4160	7.00662	3.13346	68.7161	86.1159	69.75	84.89
60	5	69.9740	7.65477	3.42332	60.4693	79.4787	61.19	79.74
75	5	69.5580	6.67878	2.98684	61.2652	77.8508	60.82	77.42
Total	20	70.0435	8.05594	1.80136	66.2732	73.8138	53.99	84.89

**Test of Homogeneity of Variances**

Levene Statistic	df1	df2	Sig.
.532	3	16	.667

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	505.363	3	168.454	3.704	.034
Within Groups	727.704	16	45.481		
Total	1233.067	19			

**Multiple Comparisons**

Dependent Variable: hasil

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-14.19000*	4.26528	.004	-23.2320	-5.1480
		60	-6.74800	4.26528	.133	-15.7900	2.2940
		75	-6.33200	4.26528	.157	-15.3740	2.7100
	45	0	14.19000*	4.26528	.004	5.1480	23.2320
		60	7.44200	4.26528	.100	-1.6000	16.4840
		75	7.85800	4.26528	.084	-1.1840	16.9000
	60	0	6.74800	4.26528	.133	-2.2940	15.7900
		45	-7.44200	4.26528	.100	-16.4840	1.6000
		75	.41600	4.26528	.924	-8.6260	9.4580
	75	0	6.33200	4.26528	.157	-2.7100	15.3740
		45	-7.85800	4.26528	.084	-16.9000	1.1840
		60	-.41600	4.26528	.924	-9.4580	8.6260

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

## Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	63.2260	
	75	5	69.5580	69.5580
	60	5	69.9740	69.9740
	45	5		77.4160
	Sig.		.152	.099

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## VAP Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	63.2260	5.44349	2.43440	56.4670	69.9850	53.99	67.17
45	5	73.5860	2.70027	1.20760	70.2332	76.9388	69.84	76.44
60	5	74.1000	6.32906	2.83044	66.2414	81.9586	67.98	82.35
75	5	66.7460	4.26750	1.90849	61.4472	72.0448	61.76	72.05
Total	20	69.4145	6.50763	1.45515	66.3688	72.4602	53.99	82.35

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.727	3	16	.202

### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	423.869	3	141.290	5.937	.006
Within Groups	380.766	16	23.798		
Total	804.635	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama inkubasi i	(I) lama inkubasi j	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-10.36000 <sup>*</sup>	3.08531	.004	-16.9006	-3.8194

	60	-10.87400*	3.08531	.003	-17.4146	-4.3334
	75	-3.52000	3.08531	.271	-10.0606	3.0206
45	0	10.36000*	3.08531	.004	3.8194	16.9006
	60	-.51400	3.08531	.870	-7.0546	6.0266
	75	6.84000*	3.08531	.041	.2994	13.3806
60	0	10.87400*	3.08531	.003	4.3334	17.4146
	45	.51400	3.08531	.870	-6.0266	7.0546
	75	7.35400*	3.08531	.030	.8134	13.8946
75	0	3.52000	3.08531	.271	-3.0206	10.0606
	45	-6.84000*	3.08531	.041	-13.3806	-.2994
	60	-7.35400*	3.08531	.030	-13.8946	-.8134

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

#### Multiple Comparisons

Dependent Variable: hasil

	(I) lama inkubasi i	(J) lama inkubasi j	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-10.36000*	3.08531	.004	-16.9006	-3.8194
		60	-10.87400*	3.08531	.003	-17.4146	-4.3334
		75	-3.52000	3.08531	.271	-10.0606	3.0206
	45	0	10.36000*	3.08531	.004	3.8194	16.9006
		60	-.51400	3.08531	.870	-7.0546	6.0266
		75	6.84000*	3.08531	.041	.2994	13.3806
	60	0	10.87400*	3.08531	.003	4.3334	17.4146
		45	.51400	3.08531	.870	-6.0266	7.0546
		75	7.35400*	3.08531	.030	.8134	13.8946
	75	0	3.52000	3.08531	.271	-3.0206	10.0606
		45	-6.84000*	3.08531	.041	-13.3806	-.2994
		60	-7.35400*	3.08531	.030	-13.8946	-.8134

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



## Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	63.2260	
	75	5	66.7460	
	45	5		73.5860
	60	5		74.1000
	Sig.		.271	.870

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## VSL X

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	46.9320	7.55609	3.37919	37.5499	56.3141	40.39	59.54
45	5	53.5820	6.25466	2.79717	45.8158	61.3482	46.56	60.12
60	5	48.5640	6.58659	2.94561	40.3857	56.7423	42.87	59.54
75	5	47.9620	5.17995	2.31654	41.5302	54.3938	41.78	54.58
Total	20	49.2600	6.47694	1.44829	46.2287	52.2913	40.39	60.12

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
.097	3	16	.961

### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	131.342	3	43.781	1.052	.397
Within Groups	665.722	16	41.608		
Total	797.064	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama inkubasi	(J) lama inkubasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-6.65000	4.07959	.123	-15.2983	1.9983
		60	-1.63200	4.07959	.694	-10.2803	7.0163

	75		-1.03000	4.07959	.804	-9.6783	7.6183
45	0		6.65000	4.07959	.123	-1.9983	15.2983
	60		5.01800	4.07959	.236	-3.6303	13.6663
	75		5.62000	4.07959	.187	-3.0283	14.2683
60	0		1.63200	4.07959	.694	-7.0163	10.2803
	45		-5.01800	4.07959	.236	-13.6663	3.6303
	75		.60200	4.07959	.885	-8.0463	9.2503
75	0		1.03000	4.07959	.804	-7.6183	9.6783
	45		-5.62000	4.07959	.187	-14.2683	3.0283
	60		-.60200	4.07959	.885	-9.2503	8.0463

### Homogeneous Subsets

lama inkubasi		N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	0	5	46.9320
	75	5	47.9620
	60	5	48.5640
	45	5	53.5820
	Sig.		.152

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### VSL Y

#### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	46.9320	7.55609	3.37919	37.5499	56.3141	40.39	59.54
45	5	53.7700	9.42012	4.21281	42.0734	65.4666	46.77	69.84
60	5	48.6120	5.38643	2.40889	41.9239	55.3001	42.19	56.98
75	5	45.2440	4.55308	2.03620	39.5906	50.8974	40.19	52.13
Total	20	48.6395	7.20434	1.61094	45.2678	52.0112	40.19	69.84

**Test of Homogeneity of Variances**

Levene Statistic	df1	df2	Sig.
.502	3	16	.686

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	203.839	3	67.946	1.390	.282
Within Groups	782.310	16	48.894		
Total	986.149	19			

**Multiple Comparisons**

	(I) lama inkubasi	(J) lama inkubasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-6.83800	4.42241	.142	-16.2131	2.5371
		60	-1.68000	4.42241	.709	-11.0551	7.6951
		75	1.68800	4.42241	.708	-7.6871	11.0631
	45	0	6.83800	4.42241	.142	-2.5371	16.2131
		60	5.15800	4.42241	.261	-4.2171	14.5331
		75	8.52600	4.42241	.072	-.8491	17.9011
	60	0	1.68000	4.42241	.709	-7.6951	11.0551
		45	-5.15800	4.42241	.261	-14.5331	4.2171
		75	3.36800	4.42241	.457	-6.0071	12.7431
75	0	-1.68800	4.42241	.708	-11.0631	7.6871	
	45	-8.52600	4.42241	.072	-17.9011	.8491	
	60	-3.36800	4.42241	.457	-12.7431	6.0071	

### Homogeneous Subsets

		Subset for alpha = 0.05	
lama inkubasi	N	1	
Duncan <sup>a</sup>	75	5	45.2440
	0	5	46.9320
	60	5	48.6120
	45	5	53.7700
	Sig.		.094

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### LIN X

#### Descriptives

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	.3480	.03114	.01393	.3093	.3867	.32	.40
45	5	.3460	.02302	.01030	.3174	.3746	.31	.37
60	5	.3540	.04450	.01990	.2987	.4093	.30	.41
75	5	.3460	.02074	.00927	.3203	.3717	.31	.36
Total	20	.3485	.02889	.00646	.3350	.3620	.30	.41

#### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.482	3	16	.257

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	3	.000	.073	.973
Within Groups	.016	16	.001		
Total	.016	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
	(I) lama	inkubasi i				Lower Bound	Upper Bound
LSD	0	45	.00200	.01977	.921	-.0399	.0439
		60	-.00600	.01977	.765	-.0479	.0359
		75	.00200	.01977	.921	-.0399	.0439
	45	0	-.00200	.01977	.921	-.0439	.0399
		60	-.00800	.01977	.691	-.0499	.0339
		75	.00000	.01977	1.000	-.0419	.0419
	60	0	.00600	.01977	.765	-.0359	.0479
		45	.00800	.01977	.691	-.0339	.0499
		75	.00800	.01977	.691	-.0339	.0499
	75	0	-.00200	.01977	.921	-.0439	.0399
		45	.00000	.01977	1.000	-.0419	.0419
		60	-.00800	.01977	.691	-.0499	.0339

### Homogeneous Subsets

	lama inkubasi i	N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	45	5	.3460
	75	5	.3460
	0	5	.3480
	60	5	.3540
	Sig.		

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## LIN Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	.3480	.03114	.01393	.3093	.3867	.32	.40
45	5	.2500	.14036	.06277	.0757	.4243	.00	.33
60	5	.3340	.01140	.00510	.3198	.3482	.32	.35
75	5	.3480	.02168	.00970	.3211	.3749	.33	.38
Total	20	.3200	.07894	.01765	.2831	.3569	.00	.40

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
4.654	3	16	.016

### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.033	3	.011	2.089	.142
Within Groups	.085	16	.005		
Total	.118	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama	(J) lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	.09800*	.04612	.050	.0002	.1958
		60	.01400	.04612	.765	-.0838	.1118
		75	.00000	.04612	1.000	-.0978	.0978
	45	0	-.09800*	.04612	.050	-.1958	-.0002
		60	-.08400	.04612	.087	-.1818	.0138
		75	-.09800*	.04612	.050	-.1958	-.0002
	60	0	-.01400	.04612	.765	-.1118	.0838
		45	.08400	.04612	.087	-.0138	.1818
		75	-.01400	.04612	.765	-.1118	.0838
	75	0	.00000	.04612	1.000	-.0978	.0978
		45	.09800*	.04612	.050	.0002	.1958

60	.01400	.04612	.765	-.0838	.1118
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\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

lama inkubasi		N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	45	5	.2500
	60	5	.3340
	0	5	.3480
	75	5	.3480
	Sig.		.067

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### STR X

#### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	.6560	.03647	.01631	.6107	.7013	.62	.70
45	5	.6920	.02683	.01200	.6587	.7253	.65	.72
60	5	.6940	.04722	.02112	.6354	.7526	.64	.75
75	5	.5622	.27463	.12282	.2212	.9032	.07	.69
Total	20	.6510	.14068	.03146	.5852	.7169	.07	.75

#### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
5.046	3	16	.012

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.057	3	.019	.957	.437
Within Groups	.319	16	.020		
Total	.376	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
	(I) lama	inkubasi i				Lower Bound	Upper Bound
LSD	0	45	-.03600	.08928	.692	-.2253	.1533
		60	-.03800	.08928	.676	-.2273	.1513
		75	.09380	.08928	.309	-.0955	.2831
	45	0	.03600	.08928	.692	-.1533	.2253
		60	-.00200	.08928	.982	-.1913	.1873
		75	.12980	.08928	.165	-.0595	.3191
	60	0	.03800	.08928	.676	-.1513	.2273
		45	.00200	.08928	.982	-.1873	.1913
		75	.13180	.08928	.159	-.0575	.3211
	75	0	-.09380	.08928	.309	-.2831	.0955
		45	-.12980	.08928	.165	-.3191	.0595
		60	-.13180	.08928	.159	-.3211	.0575

### Homogeneous Subsets

	lama inkubasi i	N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	75	5	.5622
	0	5	.6560
	45	5	.6920
	60	5	.6940
	Sig.		

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.



## STR Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	.6560	.03647	.01631	.6107	.7013	.62	.70
45	5	.6680	.02387	.01068	.6384	.6976	.64	.70
60	5	.6840	.01140	.00510	.6698	.6982	.67	.70
75	5	.7020	.01483	.00663	.6836	.7204	.68	.72
Total	20	.6775	.02807	.00628	.6644	.6906	.62	.72

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
5.542	3	16	.008

### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.006	3	.002	3.541	.039
Within Groups	.009	16	.001		
Total	.015	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama	(J) lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-.01200	.01500	.435	-.0438	.0198
		60	-.02800	.01500	.080	-.0598	.0038
		75	-.04600*	.01500	.007	-.0778	-.0142
	45	0	.01200	.01500	.435	-.0198	.0438
		60	-.01600	.01500	.302	-.0478	.0158
		75	-.03400*	.01500	.038	-.0658	-.0022
	60	0	.02800	.01500	.080	-.0038	.0598
		45	.01600	.01500	.302	-.0158	.0478
		75	-.01800	.01500	.248	-.0498	.0138
	75	0	.04600*	.01500	.007	.0142	.0778
		45	.03400*	.01500	.038	.0022	.0658

60	.01800	.01500	.248	-.0138	.0498
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\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	.6560	
	45	5	.6680	
	60	5	.6840	.6840
	75	5		.7020
	Sig.		.095	.248

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### WOB X

#### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	.5260	.01140	.00510	.5118	.5402	.51	.54
45	5	.5320	.08408	.03760	.4276	.6364	.47	.68
60	5	.5000	.03317	.01483	.4588	.5412	.46	.55
75	5	.4900	.02828	.01265	.4549	.5251	.46	.52
Total	20	.5120	.04731	.01058	.4899	.5341	.46	.68

#### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
2.870	3	16	.069

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.006	3	.002	.897	.464
Within Groups	.036	16	.002		
Total	.043	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama inkubasi	(J) lama inkubasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-.00600	.03017	.845	-.0699	.0579
		60	.02600	.03017	.401	-.0379	.0899
		75	.03600	.03017	.250	-.0279	.0999
	45	0	.00600	.03017	.845	-.0579	.0699
		60	.03200	.03017	.305	-.0319	.0959
		75	.04200	.03017	.183	-.0219	.1059
	60	0	-.02600	.03017	.401	-.0899	.0379
		45	-.03200	.03017	.305	-.0959	.0319
		75	.01000	.03017	.745	-.0539	.0739
75	0	-.03600	.03017	.250	-.0999	.0279	
	45	-.04200	.03017	.183	-.1059	.0219	
	60	-.01000	.03017	.745	-.0739	.0539	

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	75	5	.4900
	60	5	.5000
	0	5	.5260
	45	5	.5320
	Sig.		

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## WOB Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	.5260	.01140	.00510	.5118	.5402	.51	.54
45	5	.4720	.00837	.00374	.4616	.4824	.46	.48
60	5	.4900	.00707	.00316	.4812	.4988	.48	.50
75	5	.4960	.02074	.00927	.4703	.5217	.48	.53
Total	20	.4960	.02326	.00520	.4851	.5069	.46	.54

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
2.079	3	16	.143

### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.008	3	.003	14.824	.000
Within Groups	.003	16	.000		
Total	.010	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama	(J) lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	.05400*	.00825	.000	.0365	.0715
		60	.03600*	.00825	.000	.0185	.0535
		75	.03000*	.00825	.002	.0125	.0475
	45	0	-.05400*	.00825	.000	-.0715	-.0365
		60	-.01800*	.00825	.044	-.0355	-.0005
		75	-.02400*	.00825	.010	-.0415	-.0065
	60	0	-.03600*	.00825	.000	-.0535	-.0185
		45	.01800*	.00825	.044	.0005	.0355
		75	-.00600	.00825	.477	-.0235	.0115
	75	0	-.03000*	.00825	.002	-.0475	-.0125
		45	.02400*	.00825	.010	.0065	.0415

60	.00600	.00825	.477	-.0115	.0235
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\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05		
			1	2	3
Duncan <sup>a</sup>	45	5	.4720		
	60	5		.4900	
	75	5		.4960	
	0	5			.5260
	Sig.		1.000	.477	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### BCF X

#### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	20.8280	1.34522	.60160	19.1577	22.4983	19.67	23.09
45	5	23.1680	2.10322	.94059	20.5565	25.7795	20.03	25.45
60	5	24.0480	1.77653	.79449	21.8421	26.2539	21.95	26.78
75	5	23.4920	.79345	.35484	22.5068	24.4772	22.44	24.54
Total	20	22.8840	1.92267	.42992	21.9842	23.7838	19.67	26.78

#### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.178	3	16	.349

#### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	30.162	3	10.054	4.014	.026
Within Groups	40.075	16	2.505		
Total	70.237	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama inkubasi	(J) lama inkubasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-2.34000*	1.00094	.033	-4.4619	-.2181
		60	-3.22000*	1.00094	.005	-5.3419	-1.0981
		75	-2.66400*	1.00094	.017	-4.7859	-.5421
	45	0	2.34000*	1.00094	.033	.2181	4.4619
		60	-.88000	1.00094	.392	-3.0019	1.2419
		75	-.32400	1.00094	.750	-2.4459	1.7979
	60	0	3.22000*	1.00094	.005	1.0981	5.3419
		45	.88000	1.00094	.392	-1.2419	3.0019
		75	.55600	1.00094	.586	-1.5659	2.6779
	75	0	2.66400*	1.00094	.017	.5421	4.7859
		45	.32400	1.00094	.750	-1.7979	2.4459
		60	-.55600	1.00094	.586	-2.6779	1.5659

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

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	20.8280	
	45	5		23.1680
	75	5		23.4920
	60	5		24.0480
	Sig.			1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## BCF Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	20.8280	1.34522	.60160	19.1577	22.4983	19.67	23.09
45	5	23.5640	1.00396	.44898	22.3174	24.8106	22.16	24.70
60	5	23.4160	.40900	.18291	22.9082	23.9238	22.87	23.89
75	5	23.2380	.78833	.35255	22.2592	24.2168	22.07	24.20
Total	20	22.7615	1.44394	.32288	22.0857	23.4373	19.67	24.70

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.101	3	16	.377

### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	25.189	3	8.396	9.313	.001
Within Groups	14.425	16	.902		
Total	39.614	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama	(J) lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-2.73600*	.60052	.000	-4.0091	-1.4629
		60	-2.58800*	.60052	.001	-3.8611	-1.3149
		75	-2.41000*	.60052	.001	-3.6831	-1.1369
	45	0	2.73600*	.60052	.000	1.4629	4.0091
		60	.14800	.60052	.808	-1.1251	1.4211
		75	.32600	.60052	.595	-.9471	1.5991
	60	0	2.58800*	.60052	.001	1.3149	3.8611
		45	-.14800	.60052	.808	-1.4211	1.1251
		75	.17800	.60052	.771	-1.0951	1.4511
	75	0	2.41000*	.60052	.001	1.1369	3.6831
		45	-.32600	.60052	.595	-1.5991	.9471

60	-.17800	.60052	.771	-1.4511	1.0951
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\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	20.8280	
	75	5		23.2380
	60	5		23.4160
	45	5		23.5640
	Sig.		1.000	.615

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### ALH X

#### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	6.4220	.87142	.38971	5.3400	7.5040	5.37	7.74
45	5	6.7040	.37474	.16759	6.2387	7.1693	6.33	7.25
60	5	6.1420	.83025	.37130	5.1111	7.1729	4.93	7.07
75	5	6.3920	.31752	.14200	5.9977	6.7863	5.87	6.68
Total	20	6.4150	.63049	.14098	6.1199	6.7101	4.93	7.74

#### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.585	3	16	.232

#### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.793	3	.264	.626	.609
Within Groups	6.760	16	.422		
Total	7.553	19			



### Multiple Comparisons

Dependent Variable: hasil

	(I) lama inkubasi	(J) lama inkubasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-.28200	.41109	.503	-1.1535	.5895
		60	.28000	.41109	.506	-.5915	1.1515
		75	.03000	.41109	.943	-.8415	.9015
	45	0	.28200	.41109	.503	-.5895	1.1535
		60	.56200	.41109	.190	-.3095	1.4335
		75	.31200	.41109	.459	-.5595	1.1835
	60	0	-.28000	.41109	.506	-1.1515	.5915
		45	-.56200	.41109	.190	-1.4335	.3095
		75	-.25000	.41109	.552	-1.1215	.6215
75	0	-.03000	.41109	.943	-.9015	.8415	
	45	-.31200	.41109	.459	-1.1835	.5595	
	60	.25000	.41109	.552	-.6215	1.1215	

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	60	5	6.1420
	75	5	6.3920
	0	5	6.4220
	45	5	6.7040
	Sig.		

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## ALH Y

### Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	6.4220	.87142	.38971	5.3400	7.5040	5.37	7.74
45	5	6.8480	.27031	.12089	6.5124	7.1836	6.62	7.25
60	5	6.5820	.44093	.19719	6.0345	7.1295	5.95	6.98
75	5	6.0480	.47484	.21235	5.4584	6.6376	5.27	6.44
Total	20	6.4750	.59329	.13266	6.1973	6.7527	5.27	7.74

### Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
1.516	3	16	.249

### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1.679	3	.560	1.787	.190
Within Groups	5.009	16	.313		
Total	6.688	19			

### Multiple Comparisons

Dependent Variable: hasil

	(I) lama	(J) lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-.42600	.35388	.246	-1.1762	.3242
		60	-.16000	.35388	.657	-.9102	.5902
		75	.37400	.35388	.306	-.3762	1.1242
	45	0	.42600	.35388	.246	-.3242	1.1762
		60	.26600	.35388	.463	-.4842	1.0162
		75	.80000*	.35388	.038	.0498	1.5502
	60	0	.16000	.35388	.657	-.5902	.9102
		45	-.26600	.35388	.463	-1.0162	.4842
		75	.53400	.35388	.151	-.2162	1.2842
	75	0	-.37400	.35388	.306	-1.1242	.3762
		45	-.80000*	.35388	.038	-1.5502	-.0498

60	-0.53400	0.35388	0.151	-1.2842	0.2162
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\*. The mean difference is significant at the 0.05 level.

### Homogeneous Subsets

lama inkubasi		N	Subset for alpha = 0.05
			1
Duncan <sup>a</sup>	75	5	6.0480
	0	5	6.4220
	60	5	6.5820
	45	5	6.8480
	Sig.		.052

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

**Lampiran 3. Analisis Ragam Jarak Tempuh Spermatozoa Hasil *Sexing* Dengan Pengaruh Lama Inkubasi Berbeda**

**DCL X**

**Descriptives**

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					0	5		
45	5	63.3400	5.35615	2.39534	56.6895	69.9905	57.42	69.15
60	5	56.7520	7.10417	3.17708	47.9310	65.5730	48.17	66.70
75	5	56.3660	5.37913	2.40562	49.6869	63.0451	47.56	60.89
Total	20	56.3445	7.44527	1.66481	52.8600	59.8290	40.81	69.15

**Test of Homogeneity of Variances**

Hasil

Levene Statistic	df1	df2	Sig.
.526	3	16	.671

**ANOVA**

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	521.134	3	173.711	5.224	.011
Within Groups	532.076	16	33.255		
Total	1053.210	19			

**Multiple Comparisons**

Dependent Variable: hasil

	(J) lama inkubasi	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-14.4200 <sup>*</sup>	3.64718	.001	-22.1517	-6.6883
		60	-7.83200 <sup>*</sup>	3.64718	.047	-15.5637	-.1003
		75	-7.44600	3.64718	.058	-15.1777	.2857
	45	0	14.42000 <sup>*</sup>	3.64718	.001	6.6883	22.1517
		60	6.58800	3.64718	.090	-1.1437	14.3197
		75	6.97400	3.64718	.074	-.7577	14.7057
	60	0	7.83200 <sup>*</sup>	3.64718	.047	.1003	15.5637
		45	-6.58800	3.64718	.090	-14.3197	1.1437

	75		.38600	3.64718	.917	-7.3457	8.1177
75	0		7.44600	3.64718	.058	-.2857	15.1777
	45		-6.97400	3.64718	.074	-14.7057	.7577
	60		-.38600	3.64718	.917	-8.1177	7.3457

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

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama inkubasi i	(I) lama inkubasi j	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-14.42000*	3.64718	.001	-22.1517	-6.6883
		60	-7.83200*	3.64718	.047	-15.5637	-.1003
		75	-7.44600	3.64718	.058	-15.1777	.2857
	45	0	14.42000*	3.64718	.001	6.6883	22.1517
		60	6.58800	3.64718	.090	-1.1437	14.3197
		75	6.97400	3.64718	.074	-.7577	14.7057
	60	0	7.83200*	3.64718	.047	.1003	15.5637
		45	-6.58800	3.64718	.090	-14.3197	1.1437
		75	.38600	3.64718	.917	-7.3457	8.1177
	75	0	7.44600	3.64718	.058	-.2857	15.1777
		45	-6.97400	3.64718	.074	-14.7057	.7577
		60	-.38600	3.64718	.917	-8.1177	7.3457

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

### Homogeneous Subsets

		Hasil	
lama inkubasi	N	Subset for alpha = 0.05	
		1	2
Duncan <sup>a</sup>	0	5	48.9200

75	5	56.3660	56.3660
60	5	56.7520	56.7520
45	5		63.3400
Sig.		.057	.088

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

### DCL Y

#### Descriptives

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					0	5		
45	5	62.8800	2.09565	.93720	60.2779	65.4821	59.38	64.61
60	5	61.2640	4.69959	2.10172	55.4287	67.0993	55.89	66.55
75	5	54.7180	4.41713	1.97540	49.2334	60.2026	47.60	58.43
Total	20	56.9455	6.88191	1.53884	53.7247	60.1663	40.81	66.55

#### Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.954	3	16	.438

#### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	616.191	3	205.397	11.585	.000
Within Groups	283.662	16	17.729		
Total	899.852	19			

#### Multiple Comparisons

Dependent Variable: hasil

	(J) lama (I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

LSD	0	45	-13.96000*	2.66300	.000	-19.6053	-8.3147
		60	-12.34400*	2.66300	.000	-17.9893	-6.6987
		75	-5.79800*	2.66300	.045	-11.4433	-.1527
	45	0	13.96000*	2.66300	.000	8.3147	19.6053
		60	1.61600	2.66300	.552	-4.0293	7.2613
		75	8.16200*	2.66300	.007	2.5167	13.8073
	60	0	12.34400*	2.66300	.000	6.6987	17.9893
		45	-1.61600	2.66300	.552	-7.2613	4.0293
		75	6.54600*	2.66300	.026	.9007	12.1913
	75	0	5.79800*	2.66300	.045	.1527	11.4433
		45	-8.16200*	2.66300	.007	-13.8073	-2.5167
		60	-6.54600*	2.66300	.026	-12.1913	-.9007

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

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-13.96000*	2.66300	.000	-19.6053	-8.3147
		60	-12.34400*	2.66300	.000	-17.9893	-6.6987
		75	-5.79800*	2.66300	.045	-11.4433	-.1527
	45	0	13.96000*	2.66300	.000	8.3147	19.6053
		60	1.61600	2.66300	.552	-4.0293	7.2613
		75	8.16200*	2.66300	.007	2.5167	13.8073
	60	0	12.34400*	2.66300	.000	6.6987	17.9893
		45	-1.61600	2.66300	.552	-7.2613	4.0293
		75	6.54600*	2.66300	.026	.9007	12.1913
	75	0	5.79800*	2.66300	.045	.1527	11.4433
		45	-8.16200*	2.66300	.007	-13.8073	-2.5167
		60	-6.54600*	2.66300	.026	-12.1913	-.9007

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

### Homogeneous Subsets

**Hasil**

lama inkubasi	N	Subset for alpha = 0.05		
		1	2	3
Duncan <sup>a</sup> 0	5	48.9200		
75	5		54.7180	
60	5			61.2640
45	5			62.8800
Sig.		1.000	1.000	.552

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

**DAP X**

**Descriptives**

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					0	5		
45	5	31.4380	3.06860	1.37232	27.6278	35.2482	28.34	34.62
60	5	28.5860	3.20019	1.43117	24.6124	32.5596	25.17	33.06
75	5	33.5100	12.77717	5.71412	17.6451	49.3749	24.53	55.88
Total	20	29.8995	6.93321	1.55031	26.6547	33.1443	22.13	55.88

**Test of Homogeneity of Variances**

hasil

Levene Statistic	df1	df2	Sig.
3.291	3	16	.048

**ANOVA**

hasil	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	159.195	3	53.065	1.126	.368
Within Groups	754.124	16	47.133		
Total	913.319	19			



**Multiple Comparisons**

Dependent Variable: hasil

	(J) lama inkubasi i	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-5.37400	4.34202	.234	-14.5787	3.8307
		60	-2.52200	4.34202	.569	-11.7267	6.6827
		75	-7.44600	4.34202	.106	-16.6507	1.7587
	45	0	5.37400	4.34202	.234	-3.8307	14.5787
		60	2.85200	4.34202	.521	-6.3527	12.0567
		75	-2.07200	4.34202	.640	-11.2767	7.1327
	60	0	2.52200	4.34202	.569	-6.6827	11.7267
		45	-2.85200	4.34202	.521	-12.0567	6.3527
		75	-4.92400	4.34202	.273	-14.1287	4.2807
	75	0	7.44600	4.34202	.106	-1.7587	16.6507
		45	2.07200	4.34202	.640	-7.1327	11.2767
		60	4.92400	4.34202	.273	-4.2807	14.1287

**Homogeneous Subsets**

Hasil			
lama inkubasi i	N	Subset for alpha = 0.05	
		1	
Duncan <sup>a</sup>	0	5	26.0640
	60	5	28.5860
	45	5	31.4380
	75	5	33.5100
	Sig.		.133

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

**DAP Y**

**Descriptives**

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	Minimum	Maximum

					Lower Bound	Upper Bound		
0	5	26.0640	2.37014	1.05996	23.1211	29.0069	22.13	28.07
45	5	29.4680	1.28754	.57581	27.8693	31.0667	27.88	30.89
60	5	29.7560	2.55563	1.14291	26.5828	32.9292	27.16	33.31
75	5	26.9780	1.60246	.71664	24.9883	28.9677	25.43	29.27
Total	20	28.0665	2.46625	.55147	26.9123	29.2207	22.13	33.31

### Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
1.246	3	16	.326

### ANOVA

hasil

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	50.067	3	16.689	4.077	.025
Within Groups	65.498	16	4.094		
Total	115.565	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-3.40400 <sup>*</sup>	1.27963	.017	-6.1167	-.6913
		60	-3.69200 <sup>*</sup>	1.27963	.011	-6.4047	-.9793
		75	-.91400	1.27963	.485	-3.6267	1.7987
	45	0	3.40400 <sup>*</sup>	1.27963	.017	.6913	6.1167
		60	-.28800	1.27963	.825	-3.0007	2.4247
		75	2.49000	1.27963	.069	-.2227	5.2027
	60	0	3.69200 <sup>*</sup>	1.27963	.011	.9793	6.4047
		45	.28800	1.27963	.825	-2.4247	3.0007
		75	2.77800 <sup>*</sup>	1.27963	.045	.0653	5.4907
	75	0	.91400	1.27963	.485	-1.7987	3.6267

45	-2.49000	1.27963	.069	-5.2027	.2227
60	-2.77800*	1.27963	.045	-5.4907	-.0653

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

### Homogeneous Subsets

		Hasil		
lama inkubasi	N	Subset for alpha = 0.05		Sig.
		1	2	
Duncan <sup>a</sup> 0	5	26.0640		
75	5	26.9780	26.9780	
45	5		29.4680	
60	5		29.7560	
		.485	.055	

### DSL X

#### Descriptives

hasil	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	16.7480	1.76806	.79070	14.5527	18.9433	14.29	19.26
45	5	21.7020	2.71634	1.21479	18.3292	25.0748	18.53	24.67
60	5	19.8100	2.84175	1.27087	16.2815	23.3385	17.15	24.55
75	5	19.2400	2.05959	.92108	16.6827	21.7973	16.80	21.89
Total	20	19.3750	2.84610	.63641	18.0430	20.7070	14.29	24.67

#### Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.651	3	16	.594

#### ANOVA

hasil	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	62.618	3	20.873	3.658	.035
Within Groups	91.288	16	5.705		
Total	153.906	19			

#### Multiple Comparisons

Dependent Variable: hasil

	(I) lama inkubasi i	(J) lama inkubasi j	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-4.95400*	1.51069	.005	-8.1565	-1.7515
		60	-3.06200	1.51069	.060	-6.2645	.1405
		75	-2.49200	1.51069	.119	-5.6945	.7105
	45	0	4.95400*	1.51069	.005	1.7515	8.1565
		60	1.89200	1.51069	.228	-1.3105	5.0945
		75	2.46200	1.51069	.123	-.7405	5.6645
	60	0	3.06200	1.51069	.060	-.1405	6.2645
		45	-1.89200	1.51069	.228	-5.0945	1.3105
		75	.57000	1.51069	.711	-2.6325	3.7725
	75	0	2.49200	1.51069	.119	-.7105	5.6945
		45	-2.46200	1.51069	.123	-5.6645	.7405
		60	-.57000	1.51069	.711	-3.7725	2.6325

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

### Homogeneous Subsets

#### Hasil

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	16.7480	
	75	5	19.2400	19.2400
	60	5	19.8100	19.8100
	45	5		21.7020
	Sig.			.071

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

## DSL Y

### Descriptives

hasil								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
0	5	16.7480	1.76806	.79070	14.5527	18.9433	14.29	19.26
45	5	19.5820	1.49116	.66687	17.7305	21.4335	18.42	21.55
60	5	20.3140	1.97244	.88210	17.8649	22.7631	18.47	22.91
75	5	18.9560	1.45044	.64866	17.1550	20.7570	17.33	21.21
Total	20	18.9000	2.06308	.46132	17.9345	19.8655	14.29	22.91

### Test of Homogeneity of Variances

hasil

Levene Statistic	df1	df2	Sig.
.599	3	16	.625

### ANOVA

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	35.494	3	11.831	4.172	.023
Within Groups	45.376	16	2.836		
Total	80.869	19			

### Multiple Comparisons

Dependent Variable: hasil

	(J) lama	(I) lama inkubasi i	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	45	-2.83400*	1.06508	.017	-5.0919	-.5761
		60	-3.56600*	1.06508	.004	-5.8239	-1.3081
		75	-2.20800	1.06508	.055	-4.4659	.0499
	45	0	2.83400*	1.06508	.017	.5761	5.0919
		60	-.73200	1.06508	.502	-2.9899	1.5259
		75	.62600	1.06508	.565	-1.6319	2.8839
	60	0	3.56600*	1.06508	.004	1.3081	5.8239
		45	.73200	1.06508	.502	-1.5259	2.9899
		75	1.35800	1.06508	.221	-.8999	3.6159

75	0	2.20800	1.06508	.055	-.0499	4.4659
	45	-.62600	1.06508	.565	-2.8839	1.6319
	60	-1.35800	1.06508	.221	-3.6159	.8999

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

### Homogeneous Subsets

	lama inkubasi	N	Subset for alpha = 0.05	
			1	2
Duncan <sup>a</sup>	0	5	16.7480	
	75	5	18.9560	18.9560
	45	5		19.5820
	60	5		20.3140
	Sig.		.055	.244

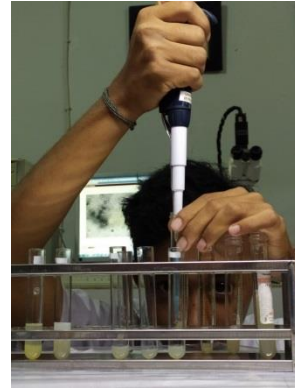
Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5,000.

#### Lampiran 4. Dokumentasi Pelaksanaan Penelitian



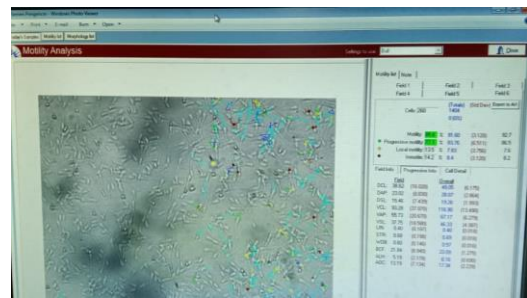
Ket. Proses Penampungan Semen



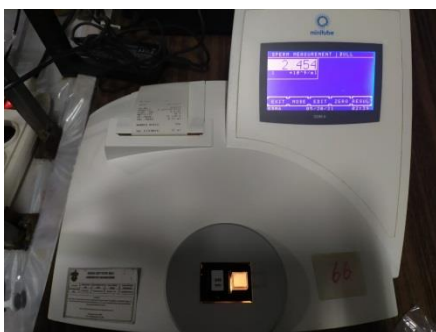
Ket. Pembuatan Medium *Sexing*



Ket. Proses *Sexing* Spermatozoa



Ket. Proses Pengamatan Parameter di CASA



Ket. Proses Pengukuran Konsentrasi



Ket. Proses Sentrifugasi

## RIWAYAT HIDUP



**Indra Wahyudi Syarif** merupakan anak pertama dari dua bersaudara yang lahir di Makassar pada tanggal 14 Oktober 1999 dari pasangan Syarifuddin T dan Surianti. Pada tahun 2005 penulis memulai pendidikan formalnya di sekolah dasar SD Inpres Tamangapa selama enam tahun.

Pada tahun 2011, penulis melanjutkan pendidikannya di Sekolah Menengah Pertama (SMP) 17 Makassar selama tiga tahun kemudian dilanjutkan dengan menempuh pendidikan di Sekolah Menengah Atas (SMA) Negeri 10 Makassar pada tahun 2014. Setelah lulus dari jenjang SMA pada tahun 2017, penulis melanjutkan studinya ke tingkat universitas. Penulis berhasil masuk ke Universitas Hasanuddin, tepatnya di Fakultas Peternakan. Selama perkuliahan penulis tergabung dalam beberapa organisasi mahasiswa dan mengikuti beberapa kegiatan mahasiswa baik pada bidang penalaran ilmiah maupun program kreativitas mahasiswa. Penulis berfokus pada Jurusan Produksi Ternak khususnya pada bidang reproduksi ternak dan mampu menyelesaikan studi Strata 1 (S1) dalam jangka waktu tiga tahun sepuluh bulan di Fakultas Peternakan, Universitas Hasanuddin, Makassar.