









LAMPIRAN

Lampiran 1. Dokumentasi Penelitian

Gambar	Keterangan
	Ikan nila dibeli dari tiga pasar ikan di Surabaya
	Sampel ikan nila
	Pengambilan darah ikan
	Pemeriksaan usus ikan nila
	Pemeriksaan kadar hemoglobin

	Proses dehidrasi
	Infiltrasi paraffin (<i>embedding</i>)
	Pembacaan Preparat Histopatologi




Lampiran 2. Hasil Pemeriksaan Kadar Hemoglobin Ikan Nila

Pasar Simo (PS), pasar Gunung sari (PG), pasar Pabean (PP)

Ikan (n)	Kadar Hb	Keterangan	Range Normal	
PS-1	13,2 gr/dL	Tinggi	5,05-8,33 gr/dL (Salasia dkk., 2001)	
PS-2	12,6 gr/dL	Tinggi		
PS-3	7,6 gr/dL	Normal		
PS-4	7,4 gr/dL	Normal		
PS-5	10,2 gr/dL	Tinggi		
PS-6	5,6 gr/dL	Normal		
PS-7	7 gr/dL	Normal		
PS-8	10.4 gr/dL	Tinggi		
PS-9	11,4 gr/dL	Tinggi		
PS-10	8,6 gr/dL	Normal		
Ikan (n)	Kadar Hb	Keterangan		
PG-1	8,2 gr/dL	Normal		
PG-2	8,8 gr/dL	Normal		
PG-3	5,2 gr/dL	Normal		
PG-4	4,6 gr/dL	Rendah		
PG-5	11 gr/dL	Tinggi		
PG-6	6,8 gr/dL	Normal		
PG-7	7 gr/dL	Normal		
PG-8	7,2 gr/dL	Normal		
PG-9	9,2 gr/dL	Tinggi		
PG-10	8,8 gr/dL	Normal		
Ikan (n)	Kadar Hb	Keterangan		
PP-1	7 gr/dL	Normal		
PP-2	6,3 gr/dL	Normal		

PP-3	7,2 gr/dL	Normal	
PP-4	8,2 gr/dL	Normal	
PP-5	7,8 gr/dL	Normal	
PP-6	5,4 gr/dL	Normal	
PP-7	5,8 gr/dL	Normal	
PP-8	5,4 gr/dL	Normal	
PP-9	6,2 gr/dL	Normal	
PP-10	5,8 gr/dL	Normal	

Keterangan :

-  Kadar hemoglobin normal
-  Kadar hemoglobin tinggi
-  Kadar hemoglobin rendah

Lampiran 3. Skoring Histopatologi Usus Ikan Nila

Pasar Simo (PS)

Ikan (n)	Nekrosis	Infiltrasi Sel Radang
PS-1	1	1
PS-2	2	2
PS-3	2	2
PS-4	2	2
PS-5	2	2
PS-6	2	2
PS-7	2	2
PS-8	2	2
PS-9	2	2
PS-10	2	2
Total	19	19

Pasar Gunung sari (PG)

Ikan (n)	Nekrosis	Infiltrasi Sel Radang
PG-1	2	2
PG-2	2	2
PG-3	2	2
PG-4	2	2
PG-5	2	2
PG-6	2	2
PG-7	2	2

PG-8	2	2
PG-9	2	2
PG-10	2	2
Total	20	20

Pasar Pabean (PP)

Ikan (n)	Nekrosis	Infiltrasi Sel Radang
PP-1	2	2
PP-2	2	2
PP-3	3	2
PP-4	3	2
PP-5	2	2
PP-6	2	2
PP-7	3	2
PP-8	2	2
PP-9	2	2
PP-10	2	2
Total	23	20

Lampiran 4. Hasil Uji Hemoglobin Darah Ikan Nila**Tests of Normality**

KELOMPOK		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
HB	PASAR SIMO	.160	10	.200*	.955	10	.727
	PASAR GUNUNG SARI	.123	10	.200*	.970	10	.895
	PASAR PABEAN	.184	10	.200*	.916	10	.326

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

a. Lilliefors Significance Correction

Descriptives

KELOMPOK		Statistic	Std. Error		
HB	PASAR SIMO	Mean	9.400	.8055	
		95% Confidence Interval for Mean	Lower Bound	7.578	
			Upper Bound	11.222	
		5% Trimmed Mean	9.400		
		Median	9.400		
		Variance	6.489		
		Std. Deviation	2.5473		
		Minimum	5.6		
		Maximum	13.2		
		Range	7.6		
		Interquartile Range	4.4		
		Skewness	.119	.687	

		Kurtosis	-1.232	1.334	
PASAR SARI	GUNUNG	Mean	7.680	.6075	
		95% Confidence Interval for Mean	Lower Bound	6.306	
			Upper Bound	9.054	
		5% Trimmed Mean	7.667		
		Median	7.700		
		Variance	3.691		
		Std. Deviation	1.9211		
		Minimum	4.6		
		Maximum	11.0		
		Range	6.4		
		Interquartile Range	2.5		
		Skewness	-.049	.687	
		Kurtosis	-.193	1.334	
		PASAR PABEAN		Mean	6.510
95% Confidence Interval for Mean	Lower Bound			5.801	
	Upper Bound			7.219	
5% Trimmed Mean	6.478				
Median	6.250				
Variance	.983				
Std. Deviation	.9916				
Minimum	5.4				
Maximum	8.2				

Range	2.8	
Interquartile Range	1.6	
Skewness	.560	.687
Kurtosis	-1.006	1.334

Lampiran 5. Hasil Uji Tuckey Hemoglobin Ikan Nila
Post Hoc Tests

Multiple Comparisons

Dependent Variable: HB

Tukey HSD

(I) KELOMPOK	(J) KELOMPOK	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound
PASAR SIMO	PASAR GUNUNG SARI	1.7200	.8627	.133	-.419
	PASAR PABEAN	2.8900*	.8627	.007	.751
PASAR GUNUNG SARI	PASAR SIMO	-1.7200	.8627	.133	-3.859
	PASAR PABEAN	1.1700	.8627	.377	-.969
PASAR PABEAN	PASAR SIMO	-2.8900*	.8627	.007	-5.029
	PASAR GUNUNG SARI	-1.1700	.8627	.377	-3.309

Multiple Comparisons

Dependent Variable: HB

Tukey HSD

(I) KELOMPOK	(J) KELOMPOK	95% Confidence Interval Upper Bound
PASAR SIMO	PASAR GUNUNG SARI	3.859
	PASAR PABEAN	5.029
PASAR GUNUNG SARI	PASAR SIMO	.419
	PASAR PABEAN	3.309
PASAR PABEAN	PASAR SIMO	-.751
	PASAR GUNUNG SARI	.969

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

Homogeneous Subsets

HB

Tukey HSD^a

KELOMPOK	N	Subset for alpha = 0.05	
		1	2
PASAR PABEAN	10	6.510	
PASAR GUNUNG SARI	10	7.680	7.680
PASAR SIMO	10		9.400
Sig.		.377	.133

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

Lampiran 6. Hasil Uji Normalitas Histopatologi Usus Ikan Nila**Tests of Normality**

PERLAKUAN		Kolmogorov-Smirnov ^a			Shapiro-Wilk	
		Statistic	df	Sig.	Statistic	df
NEKROSIS	PASAR SIMO	.524	10	.000	.366	10
	PASAR GUNUNG SARI	.	10	.	.	10
	PASAR PABEAN	.433	10	.000	.594	10
RADANG	PASAR SIMO	.524	10	.000	.366	10
	PASAR GUNUNG SARI	.	10	.	.	10
	PASAR PABEAN	.	10	.	.	10

Descriptives

PERLAKUAN		Statistic	Std. Error
NEKROSIS	PASAR SIMO	Mean	1.90
		95% Confidence Interval for Mean	
		Lower Bound	1.67
		Upper Bound	2.13
		5% Trimmed Mean	1.94
		Median	2.00
		Variance	.100
		Std. Deviation	.316
		Minimum	1
		Maximum	2
		Range	1
Interquartile Range	0		

	Skewness	-3.162	.687
	Kurtosis	10.000	1.334
PASAR GUNUNG SARI	Mean	2.00	.000
	95% Confidence Interval for Mean	Lower Bound 2.00	
		Upper Bound 2.00	
	5% Trimmed Mean	2.00	
	Median	2.00	
	Variance	.000	
	Std. Deviation	.000	
	Minimum	2	
	Maximum	2	
	Range	0	
	Interquartile Range	0	
	Skewness	.	.
	Kurtosis	.	.
PASAR PABEAN	Mean	2.30	.153
	95% Confidence Interval for Mean	Lower Bound 1.95	
		Upper Bound 2.65	
	5% Trimmed Mean	2.28	
	Median	2.00	
	Variance	.233	
	Std. Deviation	.483	
	Minimum	2	

		Maximum	3	
		Range	1	
		Interquartile Range	1	
		Skewness	1.035	.687
		Kurtosis	-1.224	1.334
RADANG	PASAR SIMO	Mean	1.90	.100
		95% Confidence Interval for Mean	Lower Bound	1.67
			Upper Bound	2.13
		5% Trimmed Mean	1.94	
		Median	2.00	
		Variance	.100	
		Std. Deviation	.316	
		Minimum	1	
		Maximum	2	
		Range	1	
		Interquartile Range	0	
		Skewness	-3.162	.687
		Kurtosis	10.000	1.334
	PASAR GUNUNG SARI	Mean	2.00	.000
		95% Confidence Interval for Mean	Lower Bound	2.00
			Upper Bound	2.00
		5% Trimmed Mean	2.00	
		Median	2.00	

	Variance		.000	
	Std. Deviation		.000	
	Minimum		2	
	Maximum		2	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.
PASAR PABEAN	Mean		2.00	.000
	95% Confidence Interval for Mean	Lower Bound	2.00	
		Upper Bound	2.00	
	5% Trimmed Mean		2.00	
	Median		2.00	
	Variance		.000	
	Std. Deviation		.000	
	Minimum		2	
	Maximum		2	
	Range		0	
	Interquartile Range		0	
	Skewness		.	.
	Kurtosis		.	.

Lampiran 7. Hasil Uji Kruskal Wallis Usus Ikan Nila
Kruskal-Wallis Test

Ranks

	PERLAKUAN	N	Mean Rank
NEKROSIS	PASAR SIMO	10	13.15
	PASAR GUNUNG SARI	10	14.50
	PASAR PABEAN	10	18.85
	Total	30	
RADANG	PASAR SIMO	10	14.50
	PASAR GUNUNG SARI	10	16.00
	PASAR PABEAN	10	16.00
	Total	30	

Test Statistics^{a,b}

	NEKROSIS	RADANG
Kruskal-Wallis H	6.572	2.000
df	2	2
Asymp. Sig.	.037	.368

a. Kruskal Wallis Test

b. Grouping Variable: PERLAKUAN

KESIMPULAN :

Nekrosis = (**Asymp Sig. 0.037**) Data tidak terdapat perbedaan secara signifikan

Infiltrasi Sel Radang = (**Asymp Sig. 0.368**) Data terdapat perbedaan secara signifikan

Lampiran 8. Hasil Uji Mann-Whitney Test Ikan Nila

Mann-Whitney Test kelompok Pasar Simo dan Pasar Gunung Sari

Ranks

	PERLAKUAN	N	Mean Rank	Sum of Ranks
NEKROSIS	PASAR SIMO	10	10.00	100.00
	PASAR GUNUNG SARI	10	11.00	110.00
	Total	20		
RADANG	PASAR SIMO	10	10.00	100.00
	PASAR GUNUNG SARI	10	11.00	110.00
	Total	20		

Test Statistics^a

	NEKROSIS	RADANG
Mann-Whitney U	45.000	45.000
Wilcoxon W	100.000	100.000
Z	-1.000	-1.000
Asymp. Sig. (2-tailed)	.317	.317
Exact Sig. [2*(1-tailed Sig.)]	.739 ^b	.739 ^b

a. Grouping Variable: PERLAKUAN

b. Not corrected for ties.

KESIMPULAN:

Nekrosis (Asymp. Sig (2-tailed) 0.317) = Data tidak ada perbedaan secara signifikan

Infiltrasi Sel Radang (Asymp. Sig (2-tailed) 0.317) = Data tidak ada perbedaan secara signifikan

Mann-Whitney Test kelompok Pasar Simo dan Pasar Pabean

		Ranks		
PERLAKUAN		N	Mean Rank	Sum of Ranks
NEKROSIS	PASAR SIMO	10	8.65	86.50
	PASAR PABEAN	10	12.35	123.50
	Total	20		
RADANG	PASAR SIMO	10	10.00	100.00
	PASAR PABEAN	10	11.00	110.00
	Total	20		

Test Statistics^a

	NEKROSIS	RADANG
Mann-Whitney U	31.500	45.000
Wilcoxon W	86.500	100.000
Z	-2.007	-1.000
Asymp. Sig. (2-tailed)	.045	.317
Exact Sig. [2*(1-tailed Sig.)]	.165 ^b	.739 ^b

a. Grouping Variable: PERLAKUAN

b. Not corrected for ties.

KESIMPULAN:

Nekrosis (Asymp. Sig (2-tailed) 0.45) = Data ada perbedaan secara signifikan

Infiltrasi Sel Radang (Asymp. Sig (2-tailed) 0.317) = Data tidak ada perbedaan secara signifikan

Mann-Whitney Test Kelompok Pasar Gunung Sari dan Pasar Pabean

Ranks

	PERLAKUAN	N	Mean Rank	Sum of Ranks
NEKROSIS	PASAR GUNUNG SARI	10	9.00	90.00
	PASAR PABEAN	10	12.00	120.00
	Total	20		
RADANG	PASAR GUNUNG SARI	10	10.50	105.00
	PASAR PABEAN	10	10.50	105.00
	Total	20		

Test Statistics^a

	NEKROSIS	RADANG
Mann-Whitney U	35.000	50.000
Wilcoxon W	90.000	105.000
Z	-1.831	.000
Asymp. Sig. (2-tailed)	.067	1.000
Exact Sig. [2*(1-tailed Sig.)]	.280 ^b	1.000 ^b

a. Grouping Variable: PERLAKUAN

b. Not corrected for ties.

KESIMPULAN:

Nekrosis (Asymp. Sig (2-tailed) 0.067) = Data ada perbedaan secara signifikan

Infiltrasi Sel Radang (Asymp. Sig (2-tailed) 1.000) = Data tidak ada perbedaan secara signifikan

Compare Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
NEKROSIS * PERLAKUAN	30	100.0%	0	0.0%	30	100.0%
RADANG * PERLAKUAN	30	100.0%	0	0.0%	30	100.0%

Report

PERLAKUAN		NEKROSIS	RADANG
PASAR SIMO	Mean	1.90	1.90
	N	10	10
	Std. Deviation	.316	.316
PASAR GUNUNG SARI	Mean	2.00	2.00
	N	10	10
	Std. Deviation	.000	.000
PASAR PABEAN	Mean	2.30	2.00
	N	10	10
	Std. Deviation	.483	.000
Total	Mean	2.07	1.97
	N	30	30
	Std. Deviation	.365	.183

Lampiran 9. Surat Penelitian

SURAT KETERANGAN TELAH MENYELESAIKAN PENELITIAN

Sehubungan dengan penyelesaian tugas akhir/skripsi, surat keterangan ini menerangkan bahwa mahasiswa dibawah ini telah melakukan penelitian di Laboratorium Patologi.

Nama : Aldi Wahyu Wibowo
NPM : 20820006
Program Studi : Kedokteran Hewan
Judul Penelitian : Gambaran Histopatologi Pada Usus Ikan Nila (*Oreochromis niloticus*) Di Pasar Ikan Surabaya.

Demikian surat ini diberikan untuk dipergunakan sebagaimana mestinya.

Surabaya, 26 Juni 2024

Kepala Laboratorium Patologi

**LABORATORIUM
DIAGNOSTIK & PATOLOGI**
FAKULTAS KEDOKTERAN HEWAN
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