

25. Wills ED. Evaluation of lipid peroxidation in lipids and biological membranes. In: Snell K, Mullock B, editors. Biochemical toxicology: A practical approach. Oxford: IRL;1987:127-52

LAMPIRAN UJI STATISTIK

Lampiran 1. Hasil Serapan Kadar MDA Ginjal.

Kelompok	Perlakuan	Sampel	Serapan λ 530 nm
P1	Normoksia	Tikus 1 A	0.089
		Tikus 1 B	0.087
		Tikus 2 A	0.092
		Tikus 2 B	0.091
		Tikus 3 A	0.087
		Tikus 3 B	0.091

		Tikus 4 A	0.092
		Tikus 4 B	0.089
P2	Hipoksia 1 jam	Tikus 1 A	0.121
		Tikus 1 B	0.110
		Tikus 2 A	0.083
		Tikus 2 B	0.094
		Tikus 3 A	0.110
		Tikus 3 B	0.098
		Tikus 4 A	0.108
		Tikus 4 B	0.104
P3	Hipoksia 3 jam	Tikus 1 A	0.090
		Tikus 1 B	0.110
		Tikus 2 A	0.129
		Tikus 2 B	0.127
		Tikus 3 A	0.135
		Tikus 3 B	0.126
		Tikus 4 A	0.147
		Tikus 4 B	0.138
P4	Hipoksia 6 jam	Tikus 1 A	0.168
		Tikus 1 B	0.193
		Tikus 2 A	0.130
		Tikus 2 B	0.124
		Tikus 3 A	0.140
		Tikus 3 B	0.149
		Tikus 4 A	0.161
		Tikus 4 B	0.152
P5	Hipoksia 12 jam	Tikus 1 A	0.143
		Tikus 1 B	0.135
		Tikus 2 A	0.184
		Tikus 2 B	0.179
		Tikus 3 A	0.144
		Tikus 3 B	0.135
		Tikus 4 A	0.185
		Tikus 4 B	0.189
P6	Hipoksia 24 jam	Tikus 1 A	0.110
		Tikus 1 B	0.161
		Tikus 2 A	0.310
		Tikus 2 B	0.252
		Tikus 3 A	0.190
		Tikus 3 B	0.133
		Tikus 4 A	0.250
		Tikus 4 B	0.259
P7	Hipoksia 72 jam	Tikus 1 A	0.279
		Tikus 1 B	0.249
		Tikus 2 A	0.275
		Tikus 2 B	0.269
		Tikus 3 A	0.370
		Tikus 3 B	0.408

		Tikus 4 A	0.358
		Tikus 4 B	0.353

Lampiran 2. Nilai Rerata dan Uji Mann-Whitney Jaringan Ginjal.

	P1	P2	P3	P4	P5	P6	P7
Mean	3.347	3.790	4.492	5.359	5.669	7.165	10.78
Std. Deviation	0.05012	0.3609	0.5802	0.7246	0.8412	2.274	1.994
Std. Error	0.02506	0.1805	0.2901	0.3623	0.4206	1.137	0.9968
Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.0200	0.0286	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		No	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 3. Nilai Rerata dan Uji Mann-Whitney Darah.

	P1	P2	P3	P4	P5	P6	P7
Mean	2.548	3.129	3.637	3.863	3.96	4.036	4.216
Std. Deviation	0.01348	0.1185	0.2924	0.0380 9	0.0485 6	0.0276 7	0.07239
Std. Error	0.006738	0.0592 6	0.1462	0.0190 4	0.0242 8	0.0138 3	0.03619

Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.0294	0.0294	0.0294	0.0294	0.0294	0.0294
Are medians signif. different? (P < 0.05)		Yes	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 4. Nilai rerata dan uji Mann-Whitney perbedaan pH.

	P1	P2	P3	P4	P5	P6	P7
Mean	7.43	7.43	7.42	7.41	7.4	7.4	7.39
Std. Deviation	0.01414	0.01826	0.01826	0.01155	0.008165	0.008165	0.008165
Std. Error	0.007071	0.009129	0.009129	0.005773	0.004082	0.004082	0.004082
Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		1	0.559	0.0907	0.0294	0.0294	0.0294
Are medians signif. different? (P < 0.05)		No	No	No	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 5. Nilai rerata dan uji Mann-Whitney perbedaan pCO₂.

	P1	P2	P3	P4	P5	P6	P7
Mean	40.7	39.2	38.3	36.4	35.7	32.5	30.2
Std. Deviation	0.1414	0.08165	0.08165	0.08165	0.1414	0.1414	0.1414
Std. Error	0.07071	0.04082	0.04082	0.04082	0.07071	0.07071	0.07071

Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.0294	0.0294	0.0294	0.0294	0.0294	0.0294
Are medians signif. different? (P < 0.05)		Yes	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 6. Nilai rerata dan uji Mann-Whitney perbedaan pO₂.

	P1	P2	P3	P4	P5	P6	P7
Mean	97.8	87.2	72.3	68.6	57.3	53.1	48.7
Std. Deviation	6.327	0.8246	0.7528	0.483	1.023	0.3559	0.9274
Std. Error	3.163	0.4123	0.3764	0.2415	0.5115	0.178	0.4637
Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.0286	0.0286	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		Yes	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 7. Nilai rerata dan uji Mann-Whitney perbedaan HCO₃.

	P1	P2	P3	P4	P5	P6	P7
Mean	24.8	22.2	20.4	17.9	21.4	19.3	18.2
Std. Deviation	0.4967	0.2582	0.1414	0.4082	0.4243	0.1414	0.2944
Std. Error	0.2483	0.1291	0.0707 1	0.2041	0.2121	0.0707 1	0.1472

Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.0286	0.0286	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		Yes	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 8. Nilai rerata dan uji Mann-Whitney perbedaan Saturasi O₂.

	P1	P2	P3	P4	P5	P6	P7
Mean	95.8	89.7	80.2	71.3	65.7	54.7	58.2
Std. Deviation	0.2582	0.3916	0.3162	0.3916	0.3916	0.4967	0.5715
Std. Error	0.1291	0.1958	0.1581	0.1958	0.1958	0.2483	0.2858
Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.0286	0.0286	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		Yes	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 9. Nilai rerata dan uji Mann-Whitney perbedaan Hb.

	P1	P2	P3	P4	P5	P6	P7
Mean	120.1	120.7	123.2	126.6	133.4	148.6	162.5
Std. Deviation	0.4397	0.3651	0.4082	0.3916	0.469	0.5715	0.5477
Std. Error	0.2198	0.1826	0.2041	0.1958	0.2345	0.2858	0.2739

Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.1465	0.0286	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		No	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 10. Nilai rerata dan uji Mann-Whitney perbedaan Ht.

	P1	P2	P3	P4	P5	P6	P7
Mean	45.2	45.6	47.1	48.3	51.2	53.4	55.8
Std. Deviation	0.4967	0.216	0.4082	0.9487	0.483	0.2944	0.2449
Std. Error	0.2483	0.108	0.2041	0.4743	0.2415	0.1472	0.1225
Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.2454	0.0286	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		No	Yes	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 11. Nilai rerata dan uji Mann-Whitney perbedaan Sel Darah Merah.

	P1	P2	P3	P4	P5	P6	P7
Mean	6.7	6.8	7	7.2	7.8	8.15	8.3
Std. Deviation	0.216	0.1633	0.1414	0.1826	0.216	0.1291	0.2582
Std. Error	0.108	0.0816 5	0.0707 1	0.0912 9	0.108	0.0645 5	0.1291

Mann-Whitney Test		P1 vs P2	P1 vs P3	P1 vs P4	P1 vs P5	P1 vs P6	P1 vs P7
P value		0.6573	0.0545	0.0286	0.0286	0.0286	0.0286
Are medians signif. different? (P < 0.05)		No	No	Yes	Yes	Yes	Yes
One- or two-tailed P value?		Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed	Two-tailed

Lampiran 12. Regresi Linear antara Tekanan O₂ dan Darah.

	Linear Regression	
1.	Best-fit values	
2.	Slope	-0.03196 ± 0.003150
3.	Y-intercept when X=0.0	5.833 ± 0.2246
4.	X-intercept when Y=0.0	182,6
5.	1/slope	-31,29

6.	95% Confidence Intervals	
7.	Slope	-0.04005 to -0.02386
8.	Y-intercept when X=0.0	5.256 to 6.411
9.	X-intercept when Y=0.0	159.3 to 221.3
10.	Goodness of Fit	
11.	r^2	0,9537
12.	$S_{y.x}$	0,1399
13.	Is slope significantly non-zero?	
14.	F	102,9
15.	DFn, DFd	1.000, 5.000
16.	P value	0,0002
17.	Deviation from zero?	Significant
18.	Data	
19.	Number of X values	7
20.	Maximum number of Y replicates	1
21.	Total number of values	7
22.	Number of missing values	0

Lampiran 13. Regresi Linear antara Tekanan O₂ dan Jaringan Ginjal.

	Linear Regression	
1.	Best-fit values	
2.	Slope	-0.1177 ± 0.03374
3.	Y-intercept when X=0.0	13.90 ± 2.405
4.	X-intercept when Y=0.0	118,1
5.	1/slope	-8,498

6.	95% Confidence Intervals	
7.	Slope	-0.2044 to -0.03093
8.	Y-intercept when X=0.0	7.717 to 20.09
9.	X-intercept when Y=0.0	95.30 to 257.2
10.	Goodness of Fit	
11.	r^2	0,7087
12.	$Sy.x$	1,499
13.	Is slope significantly non-zero?	
14.	F	12,16
15.	DFn, DFd	1.000, 5.000
16.	P value	0,0175
17.	Deviation from zero?	Significant
18.	Data	
19.	Number of X values	7
20.	Maximum number of Y replicates	1
21.	Total number of values	7
22.	Number of missing values	0

Lampiran 14. Regresi Linear antara Jaringan Ginjal dan Darah.

Linear Regression		
1.	Best-fit values	
2.	Slope	3.367 ± 1.176
3.	Y-intercept when X=0.0	-6.439 ± 4.305
4.	X-intercept when Y=0.0	1,912
5.	1/slope	0,2970

6.	95% Confidence Intervals	
7.	Slope	0.3437 to 6.390
8.	Y-intercept when X=0.0	-17.51 to 4.629
9.	X-intercept when Y=0.0	-13.18 to 2.799
10.	Goodness of Fit	
11.	r^2	0,6212
12.	$S_{y.x}$	1,709
13.	Is slope significantly non-zero?	
14.	F	8,199
15.	DFn, DFd	1.000, 5.000
16.	P value	0,0353
17.	Deviation from zero?	Significant
18.	Data	
19.	Number of X values	7
20.	Maximum number of Y replicates	1
21.	Total number of values	7
22.	Number of missing values	0

Lampiran 15. Uji Korelasi Pearson antara Tekanan O₂ dan Darah.

	Correlation	
1.	Number of XY Pairs	7
2.	Pearson r	-0,9766
3.	95% confidence interval	-0.9967 to -0.8446
4.	P value (two-tailed)	0,0002
5.	P value summary	***

6.	Is the correlation significant? (alpha=0.05)	Yes
7.	R squared	0,9537

Lampiran 16. Uji Korelasi Pearson antara Tekanan O₂ dan Jaringan Ginjal.

	Correlation	
1.	Number of XY Pairs	7
2.	Pearson r	-0,8418
3.	95% confidence interval	-0.9761 to -0.2423
4.	P value (two-tailed)	0,0175
5.	P value summary	*
6.	Is the correlation significant? (alpha=0.05)	Yes
7.	R squared	0,7087

Lampiran 17. Uji Korelasi Pearson antara Jaringan Ginjal dan Darah.

	Correlation	
1.	Number of XY Pairs	7
2.	Pearson r	0,7881
3.	95% confidence interval	0.08607 to 0.9672
4.	P value (two-tailed)	0,0353
5.	P value summary	*
6.	Is the correlation significant? (alpha=0.05)	Yes
7.	R squared	0,6212

Lampiran 18. Keterangan Lolos Kaji Etik



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PERSETUJUAN ETIK
Ethical Clearance
Nomor: 76/KER/FK/V/2015

Komisi Etik Riset Fakultas Kedokteran Universitas Trisakti setelah mempelajari dengan seksama dan mendengarkan penjelasan dari peneliti utama tentang kemungkinan adanya dampak etis terhadap subyek riset, masyarakat dan lingkungan, menetapkan penelitian dengan judul:

"PENGARUH HIPOKSIA SISTEMIK TERHADAP KADAR MALONDIALDEHID (MDA) JANTUNG"

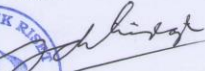

Peneliti Utama : Yinwill

Lembaga/Tempat penelitian : FK Universitas Tarumanagara

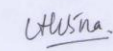
Dinyatakan memenuhi persyaratan etik untuk dilaksanakan.

Jakarta, 27 Mei 2015

Ketua

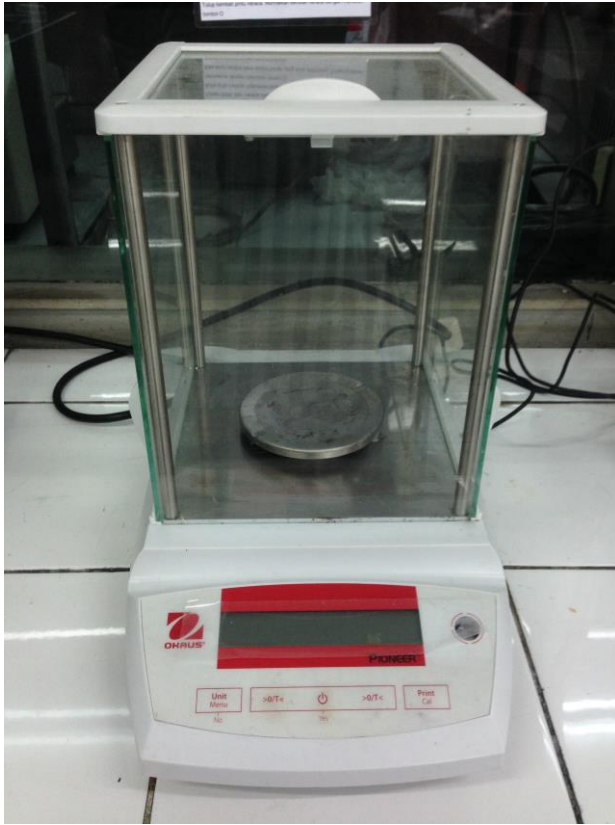


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Sekretaris


dr. Alvina. SpPK



(Lanjutan)



(Lanjutan)



BIODATA

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