

LAMPIRAN

Lampiran 1 Persetujuan Etik



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN RISET DAN TEKNOLOGI
UNIVERSITAS JENDERAL SOEDIRMAN
FAKULTAS KEDOKTERAN
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PERSETUJUAN ETIK (ETHICAL APPROVAL)

Ref: 083/KEPK/PE/VII/2025

- Judul usulan penelitian** : Standarisasi pembuatan hewan model untuk penelitian
Title of research proposal hepatotoksitas pada paparan subkronik timbal (Pb) dengan tikus Wistar jantan sebagai hewan coba
- Peneliti Utama** : Dr. dr. AGUNG SAPRASETYA DWI LAKSANA M.Sc.PH.
Principle Investigator
- Anggota tim peneliti** : 1. dr. Lily Kusumasita Burkon, MKK
Members of research team 2. dr. Yudhi Wibowo, MPH
3. Salsabillah
4. Keissya Faradiva Nugraheny
5. Nur Mutia Tanjung
- Fakultas Kedokteran Universitas Jenderal SOedirman
- Dokumen yang disetujui** : • Protokol Penelitian (Research Protocol)
Documents approved
- Tanggal persetujuan** : 09 Juli 2025
Date of approval

Komite Etik Penelitian Kedokteran FK Unsoed menyatakan bahwa protokol penelitian tersebut telah memenuhi kaidah etik yang tertera dalam Deklarasi Helsinki 2008 dan dapat dilaksanakan. Komite Etik Penelitian berhak memantau kegiatan penelitian tersebut sewaktu-waktu. Para peneliti bertanggungjawab menyerahkan laporan akhir atau laporan kemajuan jika diperlukan telaah lebih lanjut. Dokumen ini berlaku untuk satu tahun terhitung sejak tanggal persetujuan.

The Research Ethics Committee states that the above protocol meets the ethical principle outlined in the Declaration of Helsinki 2008 and therefore can be carried out. The Committee has the right to monitor the research activities at any time. The investigator(s) is/are obliged to submit a final report upon the completion of the study or a progress report in case a continuing review is needed. This document is valid for one year beginning from the date of approval.



Ketua Komite Etik Penelitian Kesehatan,
Chair,

Dr. dr. Anton B. Darmawan, M.Kes., Sp. THT-KL(K)
NIP 197403232005011001

Lampiran 2 Data Hasil Pengukuran Kadar SOD

Kelompok	Kode	Kadar SOD		
		Sub Kelompok		
		35 Hari	40 Hari	45 Hari
Kontrol negatif	K (-). 1	91.18	88.24	92.65
	K (-). 2	94.12	89.71	86.76
	K (-). 3	86.76	92.65	95.59
Perlakuan 1	P1. 1	91.18	86.76	77.94
	P1. 2	88.24	85.29	80.88
	P1. 3	83.82	79.41	83.82
Perlakuan 2	P2. 1	80.88	76.47	70.59
	P2. 2	79.41	73.53	67.65
	P2. 3	82.35	77.94	72.06
Perlakuan 3	P3. 1	55.88	48.53	38.24
	P3. 2	58.82	50.00	42.65
	P3. 3	54.41	51.47	39.71
Perlakuan 4	P4. 1	38.24	35.29	32.35
	P4. 2	35.29	32.35	23.53
	P4. 3	39.71	29.41	20.59

Lampiran 3 Komposisi Pakan Standar *Comfeed AD 2*

Bahan- bahan	Jumlah % dalam 1000 gram
Kadar air	Maks. 13
Protein	Min. 16
Lemak	Min. 3
Serat Kasar	Maks. 8
Abu	Maks. 8
Kalsium	0,90-1,20
Fosfor total (dengan enzim)	0,55-1,00
Urea	<i>Non Detection</i>
Aflatoksin total	Maks. 50 mikrogram/Kg
Asam amino:	
Lisin	Min. 0,70
Metionin	Min. 0,27
Metionin + Sistin	Min. 0,45
Tryptophan	Min. 0,17

Lampiran 4 Analisis Data

A. Analisis univariat

Descriptives^a

KELOMPOK DOSIS			Statistic	Std. Error
HASIL SOD	K(-)	Mean	90.6867	2.13892
		95% Confidence Interval for Mean	Lower Bound	81.4836
			Upper Bound	99.8897
		5% Trimmed Mean	.	
		Median	91.1800	
		Variance	13.725	
		Std. Deviation	3.70472	
		Minimum	86.76	
		Maximum	94.12	
		Range	7.36	
		Interquartile Range	.	
		Skewness	-.589	1.225
		Kurtosis	.	.
	P1	Mean	87.7467	2.13892
		95% Confidence Interval for Mean	Lower Bound	78.5436
			Upper Bound	96.9497
		5% Trimmed Mean	.	
		Median	88.2400	
		Variance	13.725	
		Std. Deviation	3.70472	
		Minimum	83.82	
		Maximum	91.18	
		Range	7.36	
		Interquartile Range	.	
		Skewness	-.589	1.225
		Kurtosis	.	.

P2	Mean		80.8800	.84870
	95% Confidence Interval for Mean	Lower Bound	77.2283	
		Upper Bound	84.5317	
	5% Trimmed Mean		.	
	Median		80.8800	
	Variance		2.161	
	Std. Deviation		1.47000	
	Minimum		79.41	
	Maximum		82.35	
	Range		2.94	
	Interquartile Range		.	
	Skewness		.000	1.225
	Kurtosis		.	.
P3	Mean		56.3700	1.29642
	95% Confidence Interval for Mean	Lower Bound	50.7920	
		Upper Bound	61.9480	
	5% Trimmed Mean		.	
	Median		55.8800	
	Variance		5.042	
	Std. Deviation		2.24546	
	Minimum		54.41	
	Maximum		58.82	
	Range		4.41	
	Interquartile Range		.	
	Skewness		.935	1.225
	Kurtosis		.	.
P4	Mean		37.7467	1.29957
	95% Confidence Interval for Mean	Lower Bound	32.1551	
		Upper Bound	43.3383	
	5% Trimmed Mean		.	
	Median		38.2400	
	Variance		5.067	
	Std. Deviation		2.25092	
	Minimum		35.29	
	Maximum		39.71	
	Range		4.42	
	Interquartile Range		.	
	Skewness		-.939	1.225
	Kurtosis		.	.

a. DURASI PAPARAN = 35

Descriptives^a

KELOMPOK DOSIS			Statistic	Std. Error
HASIL SOD	K(-)	Mean	90.2000	1.29642
		95% Confidence Interval for Mean	Lower Bound	84.6220
			Upper Bound	95.7780
		5% Trimmed Mean	.	
		Median	89.7100	
		Variance	5.042	
		Std. Deviation	2.24546	
		Minimum	88.24	
		Maximum	92.65	
		Range	4.41	
		Interquartile Range	.	
		Skewness	.935	1.225
		Kurtosis	.	.
	P1	Mean	83.8200	2.24546
		95% Confidence Interval for Mean	Lower Bound	74.1586
			Upper Bound	93.4814
		5% Trimmed Mean	.	
		Median	85.2900	
		Variance	15.126	
		Std. Deviation	3.88925	
		Minimum	79.41	
		Maximum	86.76	
		Range	7.35	
		Interquartile Range	.	
		Skewness	-1.458	1.225
		Kurtosis	.	.

P2	Mean		75.9800	1.29642
	95% Confidence Interval for Mean	Lower Bound	70.4020	
		Upper Bound	81.5580	
	5% Trimmed Mean		.	
	Median		76.4700	
	Variance		5.042	
	Std. Deviation		2.24546	
	Minimum		73.53	
	Maximum		77.94	
	Range		4.41	
	Interquartile Range		.	
	Skewness		-.935	1.225
	Kurtosis		.	.
P3	Mean		50.0000	.84870
	95% Confidence Interval for Mean	Lower Bound	46.3483	
		Upper Bound	53.6517	
	5% Trimmed Mean		.	
	Median		50.0000	
	Variance		2.161	
	Std. Deviation		1.47000	
	Minimum		48.53	
	Maximum		51.47	
	Range		2.94	
	Interquartile Range		.	
	Skewness		.000	1.225
	Kurtosis		.	.
P4	Mean		32.3500	1.69741
	95% Confidence Interval for Mean	Lower Bound	25.0466	
		Upper Bound	39.6534	
	5% Trimmed Mean		.	
	Median		32.3500	
	Variance		8.644	
	Std. Deviation		2.94000	
	Minimum		29.41	
	Maximum		35.29	
	Range		5.88	
	Interquartile Range		.	
	Skewness		.000	1.225
	Kurtosis		.	.

a. DURASI PAPARAN = 40

Descriptives^a

KELOMPOK DOSIS			Statistic	Std. Error
HASIL SOD	K(-)	Mean	91.6667	2.59599
		95% Confidence Interval for Mean	Lower Bound	80.4970
			Upper Bound	102.8363
		5% Trimmed Mean	.	
		Median	92.6500	
		Variance	20.217	
		Std. Deviation	4.49638	
		Minimum	86.76	
		Maximum	95.59	
		Range	8.83	
		Interquartile Range	.	
		Skewness	-.937	1.225
		Kurtosis	.	.
	P1	Mean	80.8800	1.69741
		95% Confidence Interval for Mean	Lower Bound	73.5766
			Upper Bound	88.1834
		5% Trimmed Mean	.	
		Median	80.8800	
		Variance	8.644	
		Std. Deviation	2.94000	
		Minimum	77.94	
		Maximum	83.82	
		Range	5.88	
		Interquartile Range	.	
		Skewness	.000	1.225
		Kurtosis	.	.

P2	Mean		70.1000	1.29642
	95% Confidence Interval for Mean	Lower Bound	64.5220	
		Upper Bound	75.6780	
	5% Trimmed Mean		.	
	Median		70.5900	
	Variance		5.042	
	Std. Deviation		2.24546	
	Minimum		67.65	
	Maximum		72.06	
	Range		4.41	
	Interquartile Range		.	
	Skewness		-.935	1.225
	Kurtosis		.	.
P3	Mean		40.2000	1.29642
	95% Confidence Interval for Mean	Lower Bound	34.6220	
		Upper Bound	45.7780	
	5% Trimmed Mean		.	
	Median		39.7100	
	Variance		5.042	
	Std. Deviation		2.24546	
	Minimum		38.24	
	Maximum		42.65	
	Range		4.41	
	Interquartile Range		.	
	Skewness		.935	1.225
	Kurtosis		.	.
P4	Mean		25.4900	3.53344
	95% Confidence Interval for Mean	Lower Bound	10.2868	
		Upper Bound	40.6932	
	5% Trimmed Mean		.	
	Median		23.5300	
	Variance		37.456	
	Std. Deviation		6.12010	
	Minimum		20.59	
	Maximum		32.35	
	Range		11.76	
	Interquartile Range		.	
	Skewness		1.293	1.225
	Kurtosis		.	.

a. DURASI PAPARAN = 45

Descriptives ^a					
DURASI PAPARAN				Statistic	Std. Error
HASIL SOD	35	Mean		90.6867	2.13892
		95% Confidence Interval for Mean	Lower Bound	81.4836	
			Upper Bound	99.8897	
		5% Trimmed Mean		.	
		Median		91.1800	
		Variance		13.725	
		Std. Deviation		3.70472	
		Minimum		86.76	
		Maximum		94.12	
		Range		7.36	
		Interquartile Range		.	
		Skewness		-.589	1.225
		Kurtosis		.	.
	40	Mean		90.2000	1.29642
		95% Confidence Interval for Mean	Lower Bound	84.6220	
			Upper Bound	95.7780	
		5% Trimmed Mean		.	
		Median		89.7100	
		Variance		5.042	
		Std. Deviation		2.24546	
		Minimum		88.24	
		Maximum		92.65	
		Range		4.41	
		Interquartile Range		.	
		Skewness		.935	1.225
		Kurtosis		.	.
	45	Mean		91.6667	2.59599
		95% Confidence Interval for Mean	Lower Bound	80.4970	
			Upper Bound	102.8363	
		5% Trimmed Mean		.	
		Median		92.6500	
		Variance		20.217	
		Std. Deviation		4.49638	
		Minimum		86.76	
		Maximum		95.59	
		Range		8.83	
		Interquartile Range		.	
		Skewness		-.937	1.225
		Kurtosis		.	.

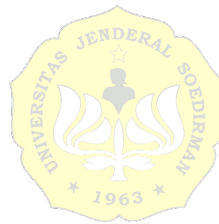
a. KELOMPOK DOSIS = K(-)

Descriptives^a

DURASI PAPARAN			Statistic	Std. Error
HASIL SOD	35	Mean	87.7467	2.13892
		95% Confidence Interval for Mean	Lower Bound	78.5436
			Upper Bound	96.9497
		5% Trimmed Mean	.	
		Median	88.2400	
		Variance	13.725	
		Std. Deviation	3.70472	
		Minimum	83.82	
		Maximum	91.18	
		Range	7.36	
		Interquartile Range	.	
		Skewness	-.589	1.225
		Kurtosis	.	.
	40	Mean	83.8200	2.24546
		95% Confidence Interval for Mean	Lower Bound	74.1586
			Upper Bound	93.4814
		5% Trimmed Mean	.	
		Median	85.2900	
		Variance	15.126	
		Std. Deviation	3.88925	
		Minimum	79.41	
		Maximum	86.76	
		Range	7.35	
		Interquartile Range	.	
		Skewness	-1.458	1.225
		Kurtosis	.	.

45	Mean		80.8800	1.69741
	95% Confidence Interval for Mean	Lower Bound	73.5766	
		Upper Bound	88.1834	
	5% Trimmed Mean		.	
	Median		80.8800	
	Variance		8.644	
	Std. Deviation		2.94000	
	Minimum		77.94	
	Maximum		83.82	
	Range		5.88	
	Interquartile Range		.	
	Skewness		.000	1.225
	Kurtosis		.	.

a. KELOMPOK DOSIS = P1

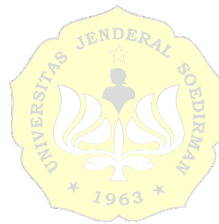


Descriptives^a

DURASI PAPARAN			Statistic	Std. Error
HASIL SOD	35	Mean	80.8800	.84870
		95% Confidence Interval for Mean	Lower Bound	77.2283
			Upper Bound	84.5317
		5% Trimmed Mean	.	
		Median	80.8800	
		Variance	2.161	
		Std. Deviation	1.47000	
		Minimum	79.41	
		Maximum	82.35	
		Range	2.94	
		Interquartile Range	.	
		Skewness	.000	1.225
		Kurtosis	.	.
	40	Mean	75.9800	1.29642
		95% Confidence Interval for Mean	Lower Bound	70.4020
			Upper Bound	81.5580
		5% Trimmed Mean	.	
		Median	76.4700	
		Variance	5.042	
		Std. Deviation	2.24546	
		Minimum	73.53	
		Maximum	77.94	
		Range	4.41	
		Interquartile Range	.	
		Skewness	-.935	1.225
		Kurtosis	.	.

45	Mean		70.1000	1.29642
	95% Confidence Interval for Mean	Lower Bound	64.5220	
		Upper Bound	75.6780	
	5% Trimmed Mean		.	
	Median		70.5900	
	Variance		5.042	
	Std. Deviation		2.24546	
	Minimum		67.65	
	Maximum		72.06	
	Range		4.41	
	Interquartile Range		.	
	Skewness		-.935	1.225
	Kurtosis		.	.

a. KELOMPOK DOSIS = P2

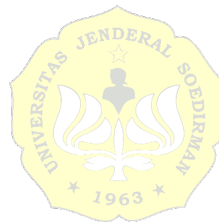


Descriptives^a

DURASI PAPARAN			Statistic	Std. Error
HASIL SOD	35	Mean	56.3700	1.29642
		95% Confidence Interval for Mean	Lower Bound	50.7920
			Upper Bound	61.9480
		5% Trimmed Mean	.	
		Median	55.8800	
		Variance	5.042	
		Std. Deviation	2.24546	
		Minimum	54.41	
		Maximum	58.82	
		Range	4.41	
		Interquartile Range	.	
		Skewness	.935	1.225
		Kurtosis	.	.
	40	Mean	50.0000	.84870
		95% Confidence Interval for Mean	Lower Bound	46.3483
			Upper Bound	53.6517
		5% Trimmed Mean	.	
		Median	50.0000	
		Variance	2.161	
		Std. Deviation	1.47000	
		Minimum	48.53	
		Maximum	51.47	
		Range	2.94	
		Interquartile Range	.	
		Skewness	.000	1.225
		Kurtosis	.	.

45	Mean		40.2000	1.29642
	95% Confidence Interval for Mean	Lower Bound	34.6220	
		Upper Bound	45.7780	
	5% Trimmed Mean		.	
	Median		39.7100	
	Variance		5.042	
	Std. Deviation		2.24546	
	Minimum		38.24	
	Maximum		42.65	
	Range		4.41	
	Interquartile Range		.	
	Skewness		.935	1.225
	Kurtosis		.	.

a. KELOMPOK DOSIS = P3



Descriptives^a

DURASI PAPARAN			Statistic	Std. Error
HASIL SOD	35	Mean	37.7467	1.29957
		95% Confidence Interval for Mean	Lower Bound	32.1551
			Upper Bound	43.3383
		5% Trimmed Mean	.	
		Median	38.2400	
		Variance	5.067	
		Std. Deviation	2.25092	
		Minimum	35.29	
		Maximum	39.71	
		Range	4.42	
		Interquartile Range	.	
		Skewness	-.939	1.225
		Kurtosis	.	.
	40	Mean	32.3500	1.69741
		95% Confidence Interval for Mean	Lower Bound	25.0466
			Upper Bound	39.6534
		5% Trimmed Mean	.	
		Median	32.3500	
		Variance	8.644	
		Std. Deviation	2.94000	
		Minimum	29.41	
		Maximum	35.29	
		Range	5.88	
		Interquartile Range	.	
		Skewness	.000	1.225
		Kurtosis	.	.

45	Mean	25.4900	3.53344
	95% Confidence Interval for Mean	Lower Bound	10.2868
		Upper Bound	40.6932
	5% Trimmed Mean	.	.
	Median	23.5300	.
	Variance	37.456	.
	Std. Deviation	6.12010	.
	Minimum	20.59	.
	Maximum	32.35	.
	Range	11.76	.
	Interquartile Range	.	.
	Skewness	1.293	1.225
	Kurtosis	.	.

a. KELOMPOK DOSIS = P4

B. Uji Normalitas

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
KELOMPOK DOSIS		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	K(-)	.220	3	.	.987	3	.779
	P1	.220	3	.	.987	3	.779
	P2	.175	3	.	1.000	3	1.000
	P3	.253	3	.	.964	3	.637
	P4	.253	3	.	.964	3	.635

a. DURASI PAPARAN = 35

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
KELOMPOK DOSIS		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	K(-)	.253	3	.	.964	3	.637
	P1	.314	3	.	.893	3	.363
	P2	.253	3	.	.964	3	.637
	P3	.175	3	.	1.000	3	1.000
	P4	.175	3	.	1.000	3	1.000

a. DURASI PAPARAN = 40

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
KELOMPOK DOSIS		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	K(-)	.253	3	.	.964	3	.636
	P1	.175	3	.	1.000	3	1.000
	P2	.253	3	.	.964	3	.637
	P3	.253	3	.	.964	3	.637
	P4	.292	3	.	.923	3	.463

a. DURASI PAPARAN = 45

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
DURASI PAPARAN		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	35	.220	3	.	.987	3	.779
	40	.253	3	.	.964	3	.637
	45	.253	3	.	.964	3	.636

a. KELOMPOK DOSIS = K(-)

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
DURASI PAPARAN		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	35	.220	3	.	.987	3	.779
	40	.314	3	.	.893	3	.363
	45	.175	3	.	1.000	3	1.000

a. KELOMPOK DOSIS = P1

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
DURASI PAPARAN		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	35	.175	3	.	1.000	3	1.000
	40	.253	3	.	.964	3	.637
	45	.253	3	.	.964	3	.637

a. KELOMPOK DOSIS = P2

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
DURASI PAPARAN		Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	35	.253	3	.	.964	3	.637
	40	.175	3	.	1.000	3	1.000
	45	.253	3	.	.964	3	.637

a. KELOMPOK DOSIS = P3

b. Lilliefors Significance Correction

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
	DURASI PAPARAN	Statistic	df	Sig.	Statistic	df	Sig.
HASIL SOD	35	.253	3	.	.964	3	.635
	40	.175	3	.	1.000	3	1.000
	45	.292	3	.	.923	3	.463

a. KELOMPOK DOSIS = P4

b. Lilliefors Significance Correction

C. Uji Homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
KADAR SOD HARI 35	Based on Mean	.780	4	10	.563
	Based on Median	.429	4	10	.785
	Based on Median and with adjusted df	.429	4	7.535	.784
	Based on trimmed mean	.755	4	10	.577
KADAR SOD HARI 40	Based on Mean	.980	4	10	.461
	Based on Median	.271	4	10	.890
	Based on Median and with adjusted df	.271	4	5.647	.886
	Based on trimmed mean	.915	4	10	.492
KADAR SOD HARI 45	Based on Mean	1.632	4	10	.241
	Based on Median	.470	4	10	.757
	Based on Median and with adjusted df	.470	4	5.201	.758
	Based on trimmed mean	1.522	4	10	.268

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
K(-)	Based on Mean	.707	2	6	.530
	Based on Median	.319	2	6	.739
	Based on Median and with adjusted df	.319	2	4.789	.741
	Based on trimmed mean	.676	2	6	.543
P1 : 10MG/KGBB	Based on Mean	.265	2	6	.776
	Based on Median	.042	2	6	.959
	Based on Median and with adjusted df	.042	2	4.926	.959
	Based on trimmed mean	.242	2	6	.792
P2 : 25MG/KGBB	Based on Mean	.457	2	6	.653
	Based on Median	.143	2	6	.870
	Based on Median and with adjusted df	.143	2	5.158	.870
	Based on trimmed mean	.431	2	6	.669
P3 : 50MG/KGBB	Based on Mean	.457	2	6	.653
	Based on Median	.143	2	6	.870
	Based on Median and with adjusted df	.143	2	5.158	.870
	Based on trimmed mean	.431	2	6	.669
P4 : 75MG/KGBB	Based on Mean	2.331	2	6	.178
	Based on Median	.598	2	6	.579
	Based on Median and with adjusted df	.598	2	3.032	.604
	Based on trimmed mean	2.159	2	6	.197

D. Uji One way ANOVA

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
KADAR SOD HARI 35	Between Groups	6254.875	4	1563.719	196.845	.000
	Within Groups	79.439	10	7.944		
	Total	6334.314	14			
KADAR SOD HARI 40	Between Groups	7170.032	4	1792.508	248.856	.000
	Within Groups	72.030	10	7.203		
	Total	7242.062	14			
KADAR SOD HARI 45	Between Groups	9329.527	4	2332.382	152.641	.000
	Within Groups	152.802	10	15.280		
	Total	9482.328	14			

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
K(-)	Between Groups	3.348	2	1.674	.129	.881
	Within Groups	77.969	6	12.995		
	Total	81.317	8			
P1 : 10MG/KGBB	Between Groups	71.213	2	35.607	2.849	.135
	Within Groups	74.990	6	12.498		
	Total	146.203	8			
P2 : 25MG/KGBB	Between Groups	174.793	2	87.396	21.412	.002
	Within Groups	24.490	6	4.082		
	Total	199.283	8			
P3 : 50MG/KGBB	Between Groups	398.086	2	199.043	48.765	.000
	Within Groups	24.490	6	4.082		
	Total	422.576	8			
P4 : 75MG/KGBB	Between Groups	226.409	2	113.205	6.638	.030
	Within Groups	102.332	6	17.055		
	Total	328.741	8			

E. Uji Post Hoc Multiple Comparison

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) DOSIS	(J) DOSIS	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
KADAR SOD HARI 35	K(-) : KONTROL	P1 : 10 MG/KGBB	2.94000	2.30129	.710	-4.6337	10.5137
		P2 : 25 MG/KGBB	9.80667*	2.30129	.011	2.2329	17.3804
		P3 : 50 MG/KGBB	34.31667*	2.30129	.000	26.7429	41.8904
		P4 : 75 MG/KGBB	52.94000*	2.30129	.000	45.3663	60.5137
	P1 : 10 MG/KGBB	K(-) : KONTROL	-2.94000	2.30129	.710	-10.5137	4.6337
		P2 : 25 MG/KGBB	6.86667	2.30129	.080	-.7071	14.4404
		P3 : 50 MG/KGBB	31.37667*	2.30129	.000	23.8029	38.9504
		P4 : 75 MG/KGBB	50.00000*	2.30129	.000	42.4263	57.5737
	P2 : 25 MG/KGBB	K(-) : KONTROL	-9.80667*	2.30129	.011	-17.3804	-2.2329
		P1 : 10 MG/KGBB	-6.86667	2.30129	.080	-14.4404	.7071
		P3 : 50 MG/KGBB	24.51000*	2.30129	.000	16.9363	32.0837
		P4 : 75 MG/KGBB	43.13333*	2.30129	.000	35.5596	50.7071
	P3 : 50 MG/KGBB	K(-) : KONTROL	-34.31667*	2.30129	.000	-41.8904	-26.7429
		P1 : 10 MG/KGBB	-31.37667*	2.30129	.000	-38.9504	-23.8029
		P2 : 25 MG/KGBB	-24.51000*	2.30129	.000	-32.0837	-16.9363
		P4 : 75 MG/KGBB	18.62333*	2.30129	.000	11.0496	26.1971
	P4 : 75 MG/KGBB	K(-) : KONTROL	-52.94000*	2.30129	.000	-60.5137	-45.3663
		P1 : 10 MG/KGBB	-50.00000*	2.30129	.000	-57.5737	-42.4263
		P2 : 25 MG/KGBB	-43.13333*	2.30129	.000	-50.7071	-35.5596
		P3 : 50 MG/KGBB	-18.62333*	2.30129	.000	-26.1971	-11.0496

KADAR SOD HARI 40	K(-) : KONTROL	P1 : 10 MG/KGBB	6.38000	2.19135	.090	-.8319	13.5919
		P2 : 25 MG/KGBB	14.22000*	2.19135	.001	7.0081	21.4319
		P3 : 50 MG/KGBB	40.20000*	2.19135	.000	32.9881	47.4119
		P4 : 75 MG/KGBB	57.85000*	2.19135	.000	50.6381	65.0619
	P1 : 10 MG/KGBB	K(-) : KONTROL	-6.38000	2.19135	.090	-13.5919	.8319
		P2 : 25 MG/KGBB	7.84000*	2.19135	.032	.6281	15.0519
		P3 : 50 MG/KGBB	33.82000*	2.19135	.000	26.6081	41.0319
		P4 : 75 MG/KGBB	51.47000*	2.19135	.000	44.2581	58.6819
	P2 : 25 MG/KGBB	K(-) : KONTROL	-14.22000*	2.19135	.001	-21.4319	-7.0081
		P1 : 10 MG/KGBB	-7.84000*	2.19135	.032	-15.0519	-.6281
		P3 : 50 MG/KGBB	25.98000*	2.19135	.000	18.7681	33.1919
		P4 : 75 MG/KGBB	43.63000*	2.19135	.000	36.4181	50.8419
	P3 : 50 MG/KGBB	K(-) : KONTROL	-40.20000*	2.19135	.000	-47.4119	-32.9881
		P1 : 10 MG/KGBB	-33.82000*	2.19135	.000	-41.0319	-26.6081
		P2 : 25 MG/KGBB	-25.98000*	2.19135	.000	-33.1919	-18.7681
		P4 : 75 MG/KGBB	17.65000*	2.19135	.000	10.4381	24.8619
	P4 : 75 MG/KGBB	K(-) : KONTROL	-57.85000*	2.19135	.000	-65.0619	-50.6381
		P1 : 10 MG/KGBB	-51.47000*	2.19135	.000	-58.6819	-44.2581
		P2 : 25 MG/KGBB	-43.63000*	2.19135	.000	-50.8419	-36.4181
		P3 : 50 MG/KGBB	-17.65000*	2.19135	.000	-24.8619	-10.4381
KADAR SOD HARI 45	K(-) : KONTROL	P1 : 10 MG/KGBB	10.78667*	3.19167	.044	.2826	21.2907
		P2 : 25 MG/KGBB	21.56667*	3.19167	.000	11.0626	32.0707
		P3 : 50 MG/KGBB	51.46667*	3.19167	.000	40.9626	61.9707
		P4 : 75 MG/KGBB	66.17667*	3.19167	.000	55.6726	76.6807
	P1 : 10 MG/KGBB	K(-) : KONTROL	-10.78667*	3.19167	.044	-21.2907	-.2826
		P2 : 25 MG/KGBB	10.78000*	3.19167	.044	.2759	21.2841
		P3 : 50 MG/KGBB	40.68000*	3.19167	.000	30.1759	51.1841
		P4 : 75 MG/KGBB	55.39000*	3.19167	.000	44.8859	65.8941
	P2 : 25 MG/KGBB	K(-) : KONTROL	-21.56667*	3.19167	.000	-32.0707	-11.0626
		P1 : 10 MG/KGBB	-10.78000*	3.19167	.044	-21.2841	-.2759
		P3 : 50 MG/KGBB	29.90000*	3.19167	.000	19.3959	40.4041
		P4 : 75 MG/KGBB	44.61000*	3.19167	.000	34.1059	55.1141
	P3 : 50 MG/KGBB	K(-) : KONTROL	-51.46667*	3.19167	.000	-61.9707	-40.9626
		P1 : 10 MG/KGBB	-40.68000*	3.19167	.000	-51.1841	-30.1759
		P2 : 25 MG/KGBB	-29.90000*	3.19167	.000	-40.4041	-19.3959
		P4 : 75 MG/KGBB	14.71000*	3.19167	.007	4.2059	25.2141
	P4 : 75 MG/KGBB	K(-) : KONTROL	-66.17667*	3.19167	.000	-76.6807	-55.6726
		P1 : 10 MG/KGBB	-55.39000*	3.19167	.000	-65.8941	-44.8859
		P2 : 25 MG/KGBB	-44.61000*	3.19167	.000	-55.1141	-34.1059
		P3 : 50 MG/KGBB	-14.71000*	3.19167	.007	-25.2141	-4.2059

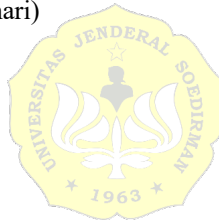
*, The mean difference is significant at the 0.05 level.

Multiple Comparisons							
Test: Tukey HSD							
			Mean Difference (I-J)			95% Confidence Interval	
Dependent Variable	(I) HARI 35, 40, 45	(J) HARI 35, 40, 45		Std. Error	Sig.	Lower Bound	Upper Bound
K(-)	35	40	.48667	2.94333	.985	-8.5443	9.5176
		45	-.98000	2.94333	.941	-10.0110	8.0510
	40	35	-.48667	2.94333	.985	-9.5176	8.5443
		45	-1.46667	2.94333	.875	-10.4976	7.5643
	45	35	.98000	2.94333	.941	-8.0510	10.0110
		40	1.46667	2.94333	.875	-7.5643	10.4976
P1 : 10MG/KGBB	35	40	3.92667	2.88655	.417	-4.9301	12.7834
		45	6.86667	2.88655	.119	-1.9901	15.7234
	40	35	-3.92667	2.88655	.417	-12.7834	4.9301
		45	2.94000	2.88655	.593	-5.9167	11.7967
	45	35	-6.86667	2.88655	.119	-15.7234	1.9901
		40	-2.94000	2.88655	.593	-11.7967	5.9167
P2 : 25MG/KGBB	35	40	4.90000	1.64959	.056	-.1614	9.9614
		45	10.78000*	1.64959	.001	5.7186	15.8414
	40	35	-4.90000	1.64959	.056	-9.9614	.1614
		45	5.88000*	1.64959	.028	.8186	10.9414
	45	35	-10.78000*	1.64959	.001	-15.8414	-5.7186
		40	-5.88000*	1.64959	.028	-10.9414	-.8186
P3 : 50MG/KGBB	35	40	6.37000*	1.64959	.020	1.3086	11.4314
		45	16.17000*	1.64959	.000	11.1086	21.2314
	40	35	-6.37000*	1.64959	.020	-11.4314	-1.3086
		45	9.80000*	1.64959	.002	4.7386	14.8614
	45	35	-16.17000*	1.64959	.000	-21.2314	-11.1086
		40	-9.80000*	1.64959	.002	-14.8614	-4.7386
P4 : 75MG/KGBB	35	40	5.39667	3.37197	.316	-4.9495	15.7428
		45	12.25667*	3.37197	.025	1.9105	22.6028
	40	35	-5.39667	3.37197	.316	-15.7428	4.9495
		45	6.86000	3.37197	.185	-3.4861	17.2061
	45	35	-12.25667*	3.37197	.025	-22.6028	-1.9105
		40	-6.86000	3.37197	.185	-17.2061	3.4861
*. The mean difference is significant at the 0.05 level.							

Lampiran 5 Uji Normalitas SOD pada berbagai dosis paparan

Hari ke-35 Perlakuan			
	Dosis Paparan	<i>p value</i>	Distribusi Data
Kadar SOD	Kontrol (Aquadest)	0.779	Normal
	Pb asetat 10mg/kgBB	0.779	Normal
	Pb asetat 25mg/kgBB	1.000	Normal
	Pb asetat 50mg/kgBB	0.637	Normal
	Pb asetat 75mg/kgBB	0.635	Normal
Hari ke-40 Perlakuan			
	Dosis Paparan	<i>p value</i>	Distribusi Data
Kadar SOD	Kontrol (Aquadest)	0.637	Normal
	Pb asetat 10mg/kgBB	0.363	Normal
	Pb asetat 25mg/kgBB	0.637	Normal
	Pb asetat 50mg/kgBB	1.000	Normal
	Pb asetat 75mg/kgBB	1.000	Normal
Hari ke-45 Perlakuan			
	Dosis Paparan	<i>p value</i>	Distribusi Data
Kadar SOD	Kontrol (Aquadest)	0.636	Normal
	Pb asetat 10mg/kgBB	1.000	Normal
	Pb asetat 25mg/kgBB	0.637	Normal
	Pb asetat 50mg/kgBB	0.637	Normal
	Pb asetat 75mg/kgBB	0.463	Normal

Keterangan: Hari ke-35 (Kelompok dengan paparan Pb asetat selama 35 hari), Hari ke-40 (Kelompok dengan paparan Pb asetat selama 40 hari), Hari ke-45 (Kelompok dengan paparan Pb asetat selama 45 hari)



Lampiran 6 Uji Normalitas SOD pada berbagai durasi paparan

Kelompok Kontrol Negatif			
Variabel	Durasi Paparan	<i>p-value</i>	Distribusi Data
Kadar SOD	35 hari	0.779	Normal
	40 hari	0.637	Normal
	45 hari	0.636	Normal
Kelompok Perlakuan 1			
Variabel	Durasi Paparan	<i>p-value</i>	Distribusi Data
Kadar SOD	35 hari	0.779	Normal
	40 hari	0.363	Normal
	45 hari	1.000	Normal
Kelompok Perlakuan 2			
Variabel	Durasi Paparan	<i>p-value</i>	Distribusi Data
Kadar SOD	35 hari	1.000	Normal
	40 hari	0.637	Normal
	45 hari	0.637	Normal
Kelompok Perlakuan 3			
Variabel	Durasi Paparan	<i>p-value</i>	Distribusi Data
Kadar SOD	35 hari	0.637	Normal
	40 hari	1.000	Normal
	45 hari	0.637	Normal
Kelompok Perlakuan 4			
Variabel	Durasi Paparan	<i>p-value</i>	Distribusi Data
Kadar SOD	35 hari	0.635	Normal
	40 hari	1.000	Normal
	45 hari	0.463	Normal

Keterangan: Kelompok kontrol negatif (Kelompok dengan perlakuan diberikan 1mL/oral dengan sonde), Kelompok Perlakuan 1 (Kelompok dengan perlakuan diberikan paparan timbal 10mg/kgBB/hari, Kelompok Perlakuan 2 (Kelompok dengan perlakuan diberikan paparan timbal 25mg/kgBB/hari, Kelompok Perlakuan 3 (Kelompok dengan perlakuan diberikan paparan timbal 50mg/kgBB/hari, Kelompok Perlakuan 4 (Kelompok dengan perlakuan diberikan paparan timbal 75mg/kgBB/hari)

Lampiran 7 Uji Homogenitas Varian Data Kadar SOD pada berbagai dosis paparan

Hari ke-35		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.563	Homogen
Hari ke-40		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.461	Homogen
Hari ke-45		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.241	Homogen

Keterangan: Hari ke-35 (Kelompok dengan paparan Pb asetat selama 35 hari), Hari ke-40 (Kelompok dengan paparan Pb asetat selama 40 hari), Hari ke-45 (Kelompok dengan paparan Pb asetat selama 45 hari)

Lampiran 8 Uji Homogenitas Varian Data Kadar SOD pada berbagai durasi paparan

Kelompok Kontrol Negatif		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.530	Homogen
Kelompok Perlakuan 1		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.776	Homogen
Kelompok Perlakuan 2		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.653	Homogen
Kelompok Perlakuan 3		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.653	Homogen
Kelompok Perlakuan 4		
Variabel	<i>p value</i>	Varian Data
Kadar SOD	0.178	Homogen

Keterangan: Kelompok kontrol negatif (Kelompok dengan perlakuan diberikan 1mL/oral dengan sonde), Kelompok Perlakuan 1 (Kelompok dengan perlakuan diberikan paparan timbal 10mg/kgBB/hari, Kelompok Perlakuan 2 (Kelompok dengan perlakuan diberikan paparan timbal 25mg/kgBB/hari, Kelompok Perlakuan 3 (Kelompok dengan perlakuan diberikan paparan timbal 50mg/kgBB/hari, Kelompok Perlakuan 4 (Kelompok dengan perlakuan diberikan paparan timbal 75mg/kgBB/hari)

Lampiran 5 Dokumentasi



