

LAMPIRAN

Lampiran 1 : Data Berat Badan Tikus, Kadar TGF- β 1, dan Derajat Fibrosis Hati

Perlakuan	Tikus	Berat Badan Awal (gram)	Berat Badan Akhir (gram)	Kadar TGF- β 1 jaringan (pg/mL) tiap Sampel	Mean Kadar Kadar TGF- β 1 jaringan (pg/mL)	Derajat Fibrosis Hati
K-Negatif Diinjeksi NaCl 1 cc 2x/minggu selama 9 minggu	1	180	225	139,33	155,75	F0
	2	218	264	167,67		F0
	3	190	253	177		F0
	4	157	213	139		F1
K-Positif Diinjeksi CCl ₄ 1 cc 2x/minggu selama 9 minggu	1	179	213	270,67	276,58	F3
	2	207	287	318,33		F3
	3	170	243	276,67		F2
	4	193	286	240,67		F3
KP-2 Sonde curcumin (200mg/kgBB) selama 2 minggu	1	188	247	101	90,83	F2
	2	168	212	67,67		F2
	3	168	245	81,33		F1
	4	202	253	113,33		F1
KK-2 Sonde pelarut curcumin selama 2 minggu	1	178	224	217,33	155,17	F2
	2	188	240	110,33		F3
	3	191	250	139,33		F2
	4	183	248	153,67		F2

KP-5 Sonde curcumin (200mg/kgBB) selama 5 minggu	1	174	189	206,5	214,75	F2
	2	198	277	231,33		F2
	3	175	214	208,33		F3
	4	164	197	213		F2
KK-5 Sonde pelarut curcumin selama 5 minggu	1	173	208	278	274,17	F3
	2	169	184	266,67		F2
	3	180	208	267		F1
	4	193	258	285		F3
KP-9 Sonde curcumin (200mg/kgBB) selama 9 minggu	1	174	219	178		F0
	2	173	206	206,33		F1
	3	169	195	242		F0
	4	153	171	211,33		F1
KK-9 Sonde pelarut curcumin selama 9 minggu	1	216	325	297,67		F0
	2	169	176	258,67		F1
	3	186	217	276		F1
	4	184	209	258,67		F1

Lampiran 2 : Analisis Statistik

Uji Normalitas dan Homogenitas Data

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
TGF-Beta (Jaringan)	.126	32	.200*	.952	32	.164

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

TGF-Beta (Jaringan)

Levene Statistic	df1	df2	Sig.
1.061	7	24	.417

Descriptives

TGF-Beta (Jaringan)

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K Neg	4	155.75000	19.524837	9.762418	124.68163	186.81837	139.000	177.000
K Pos	4	276.58350	31.979304	15.989652	225.69729	327.46971	240.667	318.333
KK 2	4	155.16650	45.194633	22.597317	83.25175	227.08125	110.333	217.333
KP 2	4	90.83325	20.302146	10.151073	58.52800	123.13850	67.667	113.333
KK 5	4	274.16675	8.937965	4.468983	259.94445	288.38905	266.667	285.000
KP 5	4	214.74975	11.402955	5.701478	196.60510	232.89440	206.333	231.333
KK 9	4	272.75025	18.511989	9.255994	243.29355	302.20695	258.667	297.667
KP 9	4	209.41650	26.216165	13.108082	167.70073	251.13227	178.000	242.000
Total	32	206.17706	68.503536	12.109829	181.47890	230.87522	67.667	318.333

Uji T Tidak Berpasangan pada Kelompok Kontrol

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
TGF-Beta (Jaringan)	K Neg	4	155.75000	19.524837	9.762418
	K Pos	4	276.58350	31.979304	15.989652



Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
TGF-Beta (Jaringan)	Equal variances assumed	.165	.698	-6.450	6	.001	-120.83350	18.734294	-166.675	-74.9923
	Equal variances not assumed			-6.450	4.964	.001	-120.83350	18.734294	-169.098	-72.5694

Uji One Way Anova dan Post Hoc Tukey

ANOVA

TGF-Beta (Jaringan)

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	130179.2	7	18597.028	29.180	.000
Within Groups	15295.568	24	637.315		
Total	145474.8	31			



Post Hoc Tests

Multiple Comparisons

Kadar TGF-β

Tukey HSD

(I) kelomp ok1	(J) kelomp ok1	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
KP	KK2	121.41700*	20.88005	.000	59.4262	183.4078
	KK5	2.41675	20.88005	.999	-59.5741	64.4076
	KK9	3.83325	20.88005	.998	-58.1576	65.8241
KK2	KP	-121.41700*	20.88005	.000	-183.4078	-59.4262
	KK5	-119.00025*	20.88005	.000	-180.9911	-57.0094
	KK9	-117.58375*	20.88005	.001	-179.5746	-55.5929
KK5	KP	-2.41675	20.88005	.999	-64.4076	59.5741
	KK2	119.00025*	20.88005	.000	57.0094	180.9911
	KK9	1.41650	20.88005	1.000	-60.5743	63.4073
KK9	KP	-3.83325	20.88005	.998	-65.8241	58.1576
	KK2	117.58375*	20.88005	.001	55.5929	179.5746
	KK5	-1.41650	20.88005	1.000	-63.4073	60.5743

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



Multiple Comparisons

Kadar TGF- β

Tukey HSD

(I) kelomp ok2	(J) kelomp ok2	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
KP	KP2	185.75025*	16.77859	.000	135.9363	235.5642
	KP5	61.83375*	16.77859	.014	12.0198	111.6477
	KP9	67.16700*	16.77859	.008	17.3530	116.9810
KP2	KP	-185.75025*	16.77859	.000	-235.5642	-135.9363
	KP5	-123.91650*	16.77859	.000	-173.7305	-74.1025
	KP9	-118.58325*	16.77859	.000	-168.3972	-68.7693
KP5	KP	-61.83375*	16.77859	.014	-111.6477	-12.0198
	KP2	123.91650*	16.77859	.000	74.1025	173.7305
	KP9	5.33325	16.77859	.988	-44.4807	55.1472
KP9	KP	-67.16700*	16.77859	.008	-116.9810	-17.3530
	KP2	118.58325*	16.77859	.000	68.7693	168.3972
	KP5	-5.33325	16.77859	.988	-55.1472	44.4807

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



Multiple Comparisons

Dependent Variable: TGF-Beta (Jaringan)

Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K Neg	K Pos	-120.83350*	17.850985	.000	-179.95441	-61.71259
	KK 2	.58350	17.850985	1.000	-58.53741	59.70441
	KP 2	64.91675*	17.850985	.024	5.79584	124.03766
	KK 5	-118.41675*	17.850985	.000	-177.53766	-59.29584
	KP 5	-58.99975	17.850985	.051	-118.12066	.12116
	KK 9	-117.00025*	17.850985	.000	-176.12116	-57.87934
K Pos	KP 9	-53.66650	17.850985	.095	-112.78741	5.45441
	K Neg	120.83350*	17.850985	.000	61.71259	179.95441
	KK 2	121.41700*	17.850985	.000	62.29609	180.53791
	KP 2	185.75025*	17.850985	.000	126.62934	244.87116
	KK 5	2.41675	17.850985	1.000	-56.70416	61.53766
	KP 5	61.83375*	17.850985	.036	2.71284	120.95466
KK 2	KK 9	3.83325	17.850985	1.000	-55.28766	62.95416
	KP 9	67.16700*	17.850985	.018	8.04609	126.28791
	K Neg	-.58350	17.850985	1.000	-59.70441	58.53741
	K Pos	-121.41700*	17.850985	.000	-180.53791	-62.29609
	KP 2	64.33325*	17.850985	.026	5.21234	123.45416
	KK 5	-119.00025*	17.850985	.000	-178.12116	-59.87934
KP 2	KP 5	-59.58325*	17.850985	.047	-118.70416	-46234
	KK 9	-117.58375*	17.850985	.000	-176.70466	-58.46284
	KP 9	-54.25000	17.850985	.089	-113.37091	4.87091
	K Neg	-64.91675*	17.850985	.024	-124.03766	-5.79584
	K Pos	-185.75025*	17.850985	.000	-244.87116	-126.62934
	KK 2	-64.33325*	17.850985	.026	-123.45416	-5.21234
KK 5	KK 5	-183.33350*	17.850985	.000	-242.45441	-124.21259
	KP 5	-123.91650*	17.850985	.000	-183.03741	-64.79559
	KK 9	-181.91700*	17.850985	.000	-241.03791	-122.79609
	KP 9	-118.58325*	17.850985	.000	-177.70416	-59.46234
	K Neg	118.41675*	17.850985	.000	59.29584	177.53766
	K Pos	-2.41675	17.850985	1.000	-61.53766	56.70416
KP 5	KK 2	119.00025*	17.850985	.000	59.87934	178.12116
	KP 2	183.33350*	17.850985	.000	124.21259	242.45441
	KP 5	59.41700*	17.850985	.048	.29609	118.53791
	KK 9	1.41650	17.850985	1.000	-57.70441	60.53741
	KP 9	64.75025*	17.850985	.025	5.62934	123.87116
	K Neg	58.99975	17.850985	.051	-.12116	118.12066
KK 9	K Pos	-61.83375*	17.850985	.036	-120.95466	-2.71284
	KK 2	59.58325*	17.850985	.047	.46234	118.70416
	KP 2	123.91650*	17.850985	.000	64.79559	183.03741
	KK 5	-59.41700*	17.850985	.048	-118.53791	-2.9609
	KK 9	-58.00050	17.850985	.057	-117.12141	1.12041
	KP 9	5.33325	17.850985	1.000	-53.78766	64.45416
KP 9	K Neg	117.00025*	17.850985	.000	57.87934	176.12116
	K Pos	-3.83325	17.850985	1.000	-62.95416	55.28766
	KK 2	117.58375*	17.850985	.000	58.46284	176.70466
	KP 2	181.91700*	17.850985	.000	122.79609	241.03791
	KK 5	-1.41650	17.850985	1.000	-60.53741	57.70441
	KP 5	58.00050	17.850985	.057	-1.12041	117.12141
KK 2	KP 9	63.33375*	17.850985	.030	4.21284	122.45466
	K Neg	53.66650	17.850985	.095	-5.45441	112.78741
	K Pos	-67.16700*	17.850985	.018	-126.28791	-8.04609
	KK 2	54.25000	17.850985	.089	-4.87091	113.37091
	KP 2	118.58325*	17.850985	.000	59.46234	177.70416
	KK 5	-64.75025*	17.850985	.025	-123.87116	-5.62934
KK 5	KP 5	-5.33325	17.850985	1.000	-64.45416	53.78766
	KK 9	-63.33375*	17.850985	.030	-122.45466	-4.21284

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

Lampiran 3 : Keterangan Kelaikan Etik Penelitian



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI
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KETERANGAN KELAIKAN ETIK
("ETHICAL CLEARANCE")

No. 76A / EC / KEPK – S1 - PD / 03 / 2016

KOMISI ETIK PENELITIAN KESEHATAN FAKULTAS KEDOKTERAN UNIVERSITAS BRAWIJAYA, SETELAH MEMPELAJARI DENGAN SEKSAMA RANCANGAN PENELITIAN YANG DIUSULKAN, DENGAN INI MENYATAKAN BAHWA PENELITIAN DENGAN

JUDUL : Peran Kurkumin Terhadap Perbaikan Fibrosis Hati Pada Tikus Model Fibrosis Akibat Induksi Karbon Tetraklorida (CC14).

PENELITI : Akhmad Ikbal Purnawarman Marselina Loisa Holly Ayamiseba
Ayu Novita Kartikaningtyas Muhammad Abduh
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UNIT / LEMBAGA : S1 Pendidikan Dokter – Fakultas Kedokteran - Universitas Brawijaya Malang

TEMPAT PENELITIAN : Laboratorium Farmakologi, Laboratorium FAAL, dan Laboratorium Patologi Anatomi Fakultas Kedokteran Universitas Brawijaya Malang.

DINYATAKAN LAIK ETIK.

Malang, 11 MAR 2016
An Ketua
Koordinator Divisi I

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Catatan :

Keterangan Laik Etik Ini Berlaku 1 (Satu) Tahun Sejak Tanggal Dikeluarkan Pada Akhir Penelitian, Laporan Pelaksanaan Penelitian Harus Diserahkan Kepada KEPK-FKUB Dalam Bentuk Soft Copy. Jika Ada Perubahan Protokol Dan / Atau Perpanjangan Penelitian, Harus Mengajukan Kembali Permohonan Kajian Etik Penelitian (Amandemen Protokol).



Lampiran 4 : Dokumentasi Penelitian

