

LAMPIRAN

Lampiran 1. Uji Normalitas dan Homogenitas PDGF

Descriptives

perlakuanPDGF		Statistic		Std. Error
D3	Sham	Mean	66,3300	5,40042
		95% Confidence Interval for Lower Bound	51,3360	
		Mean Upper Bound	81,3240	
		5% Trimmed Mean	66,2889	
		Median	69,3900	
		Variance	145,823	
		Std. Deviation	12,07571	
		Minimum	51,70	
		Maximum	81,70	
		Range	30,00	
		Interquartile Range	22,63	
		Skewness	-,035	,913
		Kurtosis	-1,473	2,000
		Mean	70,8460	5,26537
Kontrol	Kontrol	95% Confidence Interval for Lower Bound	56,2270	
		Mean Upper Bound	85,4650	
		5% Trimmed Mean	70,5939	
		Median	69,5700	
		Variance	138,620	
		Std. Deviation	11,77372	
		Minimum	57,03	
		Maximum	89,20	
		Range	32,17	
		Interquartile Range	19,23	
		Skewness	,878	,913
		Kurtosis	1,787	2,000
		Mean	86,3480	3,16239
		95% Confidence Interval for Lower Bound	77,5678	
		Mean Upper Bound	95,1282	
MSC Normoksia	MSC Normoksia	5% Trimmed Mean	86,2389	
		Median	84,0300	
		Variance	50,004	
		Maximum	89,20	
		Range	32,17	
		Interquartile Range	19,23	

D6	Sham	Std. Deviation		7,07132	
		Minimum		78,30	
		Maximum		96,36	
		Range		18,06	
		Interquartile Range		12,88	
		Skewness		,572	,913
		Kurtosis		-,644	2,000
		Mean		99,1880	4,70920
		95% Confidence Interval for Mean		Lower Bound	86,1132
				Upper Bound	112,2628
		5% Trimmed Mean		99,0956	
		Median		99,0300	
		Variance		110,883	
		Std. Deviation		10,53009	
		Minimum		85,47	
		Maximum		114,57	
		Range		29,10	
		Interquartile Range		17,52	
		Skewness		,363	,913
		Kurtosis		1,314	2,000
D6	Sham	Mean		69,3940	6,58491
		95% Confidence Interval for Mean		Lower Bound	51,1114
				Upper Bound	87,6766
		5% Trimmed Mean		69,5478	
		Median		68,8500	
		Variance		216,805	
		Std. Deviation		14,72431	

perlakuanPDGF		Statistic	Std. Error
	Minimum	48,72	
	Maximum	87,30	
	Range	38,58	
	Interquartile Range	26,82	
	Skewness	-,329	,913
	Kurtosis	-,187	2,000
Kontrol	Mean	77,5160	3,28277
	95% Confidence Interval for	Lower Bound	68,4016
	Mean	Upper Bound	86,6304

	5% Trimmed Mean		77,1822	
	Median		74,7400	
	Variance		53,883	
	Std. Deviation		7,34049	
	Minimum		71,31	
	Maximum		89,73	
	Range		18,42	
	Interquartile Range		11,94	
	Skewness		1,560	,913
	Kurtosis		2,400	2,000
MSC Normoksia	Mean		88,8640	4,89856
	95% Confidence Interval for Mean	Lower Bound	75,2634	
		Upper Bound	102,4646	
	5% Trimmed Mean		88,5228	
	Median		84,7600	
	Variance		119,980	
	Std. Deviation		10,95352	
	Minimum		78,57	
	Maximum		105,30	
	Range		26,73	
	Interquartile Range		19,88	
	Skewness		,957	,913
	Kurtosis		-,304	2,000
MSC hipoksia	Mean		90,4720	5,86289
	95% Confidence Interval for Mean	Lower Bound	74,1940	
		Upper Bound	106,7500	
	5% Trimmed Mean		90,1117	
	Median		84,3300	
	Variance		171,867	

perlakuanPDGF	Statistic	Std. Error
Std. Deviation	13,10981	
Minimum	78,44	
Maximum	108,99	
Range	30,55	
Interquartile Range	24,28	
Skewness	,794	,913
Kurtosis	-1,520	2,000

D9	Sham	Mean		69,7220	1,61828
		95% Confidence Interval for	Lower Bound	65,2289	
		Mean	Upper Bound	74,2151	
		5% Trimmed Mean		69,6656	
		Median		70,4700	
		Variance		13,094	
		Std. Deviation		3,61858	
		Minimum		65,73	
		Maximum		74,73	
		Range		9,00	
		Interquartile Range		6,65	
		Skewness		,322	,913
		Kurtosis		-,925	2,000
Kontrol		Mean		77,4040	6,04949
		95% Confidence Interval for	Lower Bound	60,6079	
		Mean	Upper Bound	94,2001	
		5% Trimmed Mean		77,8100	
		Median		83,7300	
		Variance		182,981	
		Std. Deviation		13,52706	
		Minimum		57,77	
		Maximum		89,73	
		Range		31,96	
		Interquartile Range		24,76	
		Skewness		-,878	,913
		Kurtosis		-1,080	2,000
MSC Normoksia		Mean		87,1460	4,61340
		95% Confidence Interval for	Lower Bound	74,3371	
		Mean	Upper Bound	99,9549	
		5% Trimmed Mean		87,1022	
		Median		82,4500	

perlakuanPDGF		Statistic	Std. Error
MSC hipoksia	Variance	106,417	
	Std. Deviation	10,31588	
	Minimum	76,02	
	Maximum	99,06	
	Range	23,04	
	Interquartile Range	19,59	
	Skewness	,375	,913
	Kurtosis	-2,762	2,000
	Mean	71,9400	3,10501
	95% Confidence Interval for Lower Bound	63,3191	
	Mean Upper Bound	80,5609	
	5% Trimmed Mean	72,2617	
	Median	72,9300	
	Variance	48,205	
	Std. Deviation	6,94301	
	Minimum	60,36	
	Maximum	77,73	
	Range	17,37	
	Interquartile Range	11,21	
	Skewness	-1,542	,913
	Kurtosis	2,593	2,000

Kolmogorov-Smirnov					Shapiro-Wilk		
perlakuanPDGF		Statistic	df	Sig.	Statistic	df	Sig.
D3	Sham	,200	5,200	,957	5	,785	
	Kontrol	,249	5,200	,946	5	,707	
	MSC Normoksia	,228	5,200	,960	5	,810	
	MSC hipoksia	,217	5,200	,973	5	,893	
D6	Sham	,145	5,200	,988	5	,974	
	Kontrol	,247	5,200	,853	5	,205	
	MSC Normoksia	,246	5,200	,911	5	,474	
	MSC hipoksia	,280	5,200	,884	5	,327	
D9	Sham	,199	5,200	,941	5	,671	
	Kontrol	,280	5,200	,887	5	,342	
	MSC Normoksia	,276	5,200	,867	5	,254	
	MSC hipoksia	,293	5,185	,845	5	,178	

*. This is a lower bound of the true significance. a. Lilliefors Significance Correction

Lampiran 2. Hasil Uji Normalitas dan Homogenitas Kolagen
Descriptives

PerlakuanKolagen		Statistic		Std. Error
Kold3	Kontrol	Mean	14,18	1,080
		95% Confidence Interval for Lower Bound	11,18	
		Mean Upper Bound	17,18	
		5% Trimmed Mean	14,17	
		Median	13,40	
		Variance	5,837	
		Std. Deviation	2,416	
		Minimum	11	
		Maximum	17	
		Range		6
		Interquartile Range		5
		Skewness	,241	,913
		Kurtosis	-1,813	2,000
	P1	Mean	29,24	2,443
		95% Confidence Interval for Lower Bound	22,46	
		Mean Upper Bound	36,02	
		5% Trimmed Mean	29,30	
		Median	29,10	
		Variance	29,848	
		Std. Deviation	5,463	
		Minimum	22	
		Maximum	35	
		Range	13	
		Interquartile Range	11	

PerlakuanKolagen		Statistic		Std. Error
		Skewness	-,170	,913
		Kurtosis	-2,062	2,000
P2		Mean	49,60	3,680
		95% Confidence Interval for Lower Bound	39,38	
		Mean Upper Bound	59,82	
		5% Trimmed Mean	49,70	
		Median	53,10	
		Variance	67,705	
		Std. Deviation	8,228	

		Minimum	40	
		Maximum	57	
		Range	17	
		Interquartile Range	16	
		Skewness	-,473	,913
		Kurtosis	-3,109	2,000
Kold6	Kontrol	Mean	21,40	1,379
		95% Confidence Interval for Lower Bound	17,57	
		Mean Upper Bound	25,23	
		5% Trimmed Mean	21,33	
		Median	19,50	
		Variance	9,515	
		Std. Deviation	3,085	
		Minimum	19	
		Maximum	25	
		Range		6
		Interquartile Range		6
		Skewness	,627	,913
		Kurtosis	-3,010	2,000
P1		Mean	40,72	2,865
		95% Confidence Interval for Lower Bound	32,77	
		Mean Upper Bound	48,67	
		5% Trimmed Mean	40,56	
		Median	37,90	
		Variance	41,037	
		Std. Deviation	6,406	
		Minimum	34	
		Maximum	50	
		Range	16	

PerlakuanKolagen		Statistic	Std. Error
	Interquartile Range	11	
	Skewness	,868	,913
	Kurtosis	-,406	2,000
P2	Mean	55,58	2,639
	95% Confidence Interval for Lower Bound	48,25	
	Mean Upper Bound	62,91	
	5% Trimmed Mean	55,51	

		Median	53,10	
		Variance	34,827	
		Std. Deviation	5,901	
		Minimum	49	
		Maximum	63	
		Range	14	
		Interquartile Range	11	
		Skewness	,467	,913
		Kurtosis	-2,116	2,000
Kold9	Kontrol	Mean	35,44	2,326
		95% Confidence Interval for Lower Bound	28,98	
		Mean Upper Bound	41,90	
		5% Trimmed Mean	35,46	
		Median	34,20	
		Variance	27,043	
		Std. Deviation	5,200	
		Minimum	29	
		Maximum	41	
		Range	12	
		Interquartile Range	10	
		Skewness	,126	,913
		Kurtosis	-2,438	2,000
	P1	Mean	59,16	3,397
		95% Confidence Interval for Lower Bound	49,73	
		Mean Upper Bound	68,59	
		5% Trimmed Mean	59,10	
		Median	61,10	
		Variance	57,703	
		Std. Deviation	7,596	
		Minimum	50	
		Maximum	69	

PerlakuanKolagen		Statistic	Std. Error
P2	Range	19	
	Interquartile Range	14	
	Skewness	,100	,913
	Kurtosis	-1,222	2,000
	Mean	39,20	2,320
	95% Confidence Interval for Mean	Lower Bound	32,76
		Upper Bound	45,64
	5% Trimmed Mean	39,08	
	Median	37,10	
	Variance	26,915	
	Std. Deviation	5,188	
	Minimum	34	
	Maximum	46	
	Range	12	
	Interquartile Range	10	
	Skewness	,652	,913
	Kurtosis	-2,067	2,000

Tests of Normality

PerlakuanKolagen		Statistic	df	Sig.	Shapiro-Wilk	df	Sig.
Kold3	Kontrol	,227	5	,200 ^a	,944	5	,691
	P1	,213	5	,200 ^a	,934	5	,623
	P2	,265	5	,200 ^a	,819	5	,115
Kold6	Kontrol	,331	5	,077 ^a	,790	5	,067
	P1	,270	5	,200 ^a	,922	5	,540
	P2	,263	5	,200 ^a	,914	5	,492
Kold9	Kontrol	,230	5	,200 ^a	,908	5	,458
	P1	,201	5	,200 ^a	,952	5	,752
	P2	,257	5	,200 ^a	,883	5	,323

*. This is a lower bound of the true significance. a. Lilliefors Significance Correction

Lampiran 3. Uji *One way Anova* dan *Post Hoc PDGF*

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
D3	Between Groups	3386,512		3 1128,837	10,139	,001
	Within Groups	1781,318	16	111,332		
	Total	5167,830	19			
D6	Between Groups	1485,688		3495,229	3,521	,039
	Within Groups	2250,140	16	140,634		
	Total	3735,828	19			
D9	Between Groups	904,391		3 301,464	3,438	,042
	Within Groups	1402,794	16	87,675		
	Total	2307,184	19			

Post Hoc Tests

Dependent	Variable		Mean		Std. Error
	(I) perlakuanPDGF	(J) perlakuanPDGF	Difference (I-J)		
D3	LSD	Sham	Kontrol	-4,51600	6,67330
			MSC Normoksia	-20,01800*	6,67330
			MSC hipoksia	-32,85800*	6,67330
		Kontrol	Sham	4,51600	6,67330
			MSC Normoksia	-15,50200*	6,67330
			MSC hipoksia	-28,34200*	6,67330
	LSD	MSC Normoksia	Sham	20,01800*	6,67330
			Kontrol	15,50200*	6,67330
			MSC hipoksia	-12,84000	6,67330
		MSC hipoksia	Sham	32,85800*	6,67330
			Kontrol	28,34200*	6,67330
			MSC Normoksia	12,84000	6,67330
D6	LSD	Sham	Kontrol	-8,12200	7,50023
			MSC Normoksia	-19,47000*	7,50023
			MSC hipoksia	-21,07800*	7,50023
		Kontrol	Sham	8,12200	7,50023
	LSD		MSC Normoksia	-11,34800	7,50023
			MSC hipoksia	-12,95600	7,50023
		MSC Normoksia	Sham	19,47000*	7,50023
			Kontrol	11,34800	7,50023

			MSC hipoksia	-1,60800	7,50023
		MSC hipoksia	Sham	21,07800 [*]	7,50023
			Kontrol	12,95600	7,50023
			MSC Normoksia	1,60800	7,50023
D9	LSD	Sham	Kontrol	-7,68200	5,92198
			MSC Normoksia	-17,42400 [*]	5,92198
			MSC hipoksia	-2,21800	5,92198
		Kontrol	Sham	7,68200	5,92198
			MSC Normoksia	-9,74200	5,92198
			MSC hipoksia	5,46400	5,92198
		MSC Normoksia	Sham	17,42400 [*]	5,92198
			Kontrol	9,74200	5,92198
			MSC hipoksia	15,20600 [*]	5,92198
		MSC hipoksia	Sham	2,21800	5,92198
			Kontrol	-5,46400	5,92198
			MSC Normoksia	-15,20600 [*]	5,92198

95% ...

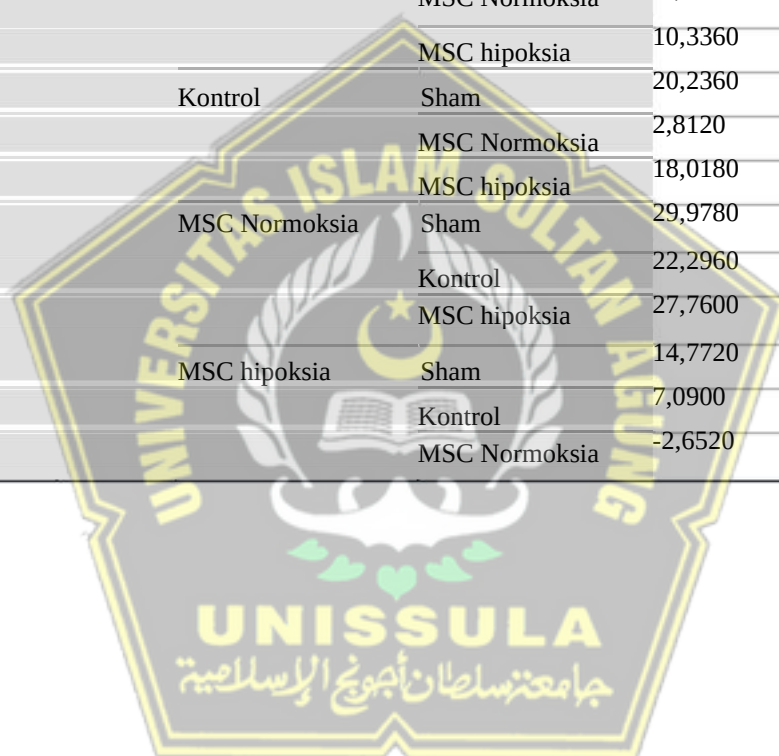
Dependent	Variable	(I) perlakuanPDGF	(J) perlakuanPDGF	Sig.	Lower Bound
D3	LSD	Sham	Kontrol	,508	-18,6628
			MSC Normoksia	,008	-34,1648
			MSC hipoksia	,000	-47,0048
		Kontrol	Sham	,508	-9,6308
			MSC Normoksia	,034	-29,6488
			MSC hipoksia	,001	-42,4888
		MSC Normoksia	Sham	,008	5,8712
			Kontrol	,034	1,3552
			MSC hipoksia	,072	-26,9868
		MSC hipoksia	Sham	,000	18,7112
			Kontrol	,001	14,1952
			MSC Normoksia	,072	-1,3068
D6	LSD	Sham	Kontrol	,295	-24,0218
			MSC Normoksia	,020	-35,3698
			MSC hipoksia	,013	-36,9778
		Kontrol	Sham	,295	-7,7778
			MSC Normoksia	,150	-27,2478
			MSC hipoksia	,103	-28,8558

D9	LSD	MSC Normoksia	Sham	,020	3,5702
			Kontrol	,150	-4,5518
			MSC hipoksia	,833	-17,5078
		MSC hipoksia	Sham	,013	5,1782
			Kontrol	,103	-2,9438
			MSC Normoksia	,833	-14,2918
		Sham	Kontrol	,213	-20,2360
			MSC Normoksia	,010	-29,9780
			MSC hipoksia	,713	-14,7720
		Kontrol	Sham	,213	-4,8720
			MSC Normoksia	,119	-22,2960
			MSC hipoksia	,370	-7,0900
		MSC Normoksia	Sham	,010	4,8700
			Kontrol	,119	-2,8120
			MSC hipoksia	,021	2,6520
		MSC hipoksia	Sham	,713	-10,3360
			Kontrol	,370	-18,0180
			MSC Normoksia	,021	-27,7600

95% Confidence .

Dependent	Variable	(I) perlakuanPDGF	(J) perlakuanPDGF	Upper Bound
D3	LSD	Sham	Kontrol	9,6308
			MSC Normoksia	-5,8712
			MSC hipoksia	-18,7112
		Kontrol	Sham	18,6628
			MSC Normoksia	-1,3552
			MSC hipoksia	-14,1952
		MSC Normoksia	Sham	34,1648
			Kontrol	29,6488
			MSC hipoksia	1,3068
		MSC hipoksia	Sham	47,0048
			Kontrol	42,4888
			MSC Normoksia	26,9868
D6	LSD	Sham	Kontrol	7,7778
			MSC Normoksia	-3,5702
			MSC hipoksia	-5,1782
		Kontrol	Sham	24,0218

			MSC Normoksia	4,5518
			MSC hipoksia	2,9438
		MSC Normoksia	Sham	35,3698
			Kontrol	27,2478
			MSC hipoksia	14,2918
		MSC hipoksia	Sham	36,9778
			Kontrol	28,8558
			MSC Normoksia	17,5078
D9	LSD	Sham	Kontrol	4,8720
			MSC Normoksia	-4,8700
			MSC hipoksia	10,3360
		Kontrol	Sham	20,2360
			MSC Normoksia	2,8120
			MSC hipoksia	18,0180
		MSC Normoksia	Sham	29,9780
			Kontrol	22,2960
			MSC hipoksia	27,7600
		MSC hipoksia	Sham	14,7720
			Kontrol	7,0900
			MSC Normoksia	-2,6520



Lampiran 4. Uji Anova dan Post Hoc Kolagen

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kold3	Between Groups	3159,849		21579,925	45,844	,000
	Within Groups	413,560	12	34,463		
	Total	3573,409	14			
Kold6	Between Groups	2937,257		21468,629	51,604	,000
	Within Groups	341,516	12	28,460		
	Total	3278,773	14			
Kold9	Between Groups	1625,296		2812,648	21,833	,000
	Within Groups	446,644	12	37,220		
	Total	2071,940	14			

Post Hoc Tests

Multiple Comparisons

				Mean Difference (I-J)	Std. Error
Kold3	LSD	Kontrol	P1	-15,060 *	3,713
			P2	-35,420 *	3,713
		P1	Kontrol	15,060 *	3,713
			P2	-20,360 *	3,713
		P2	Kontrol	35,420 *	3,713
			P1	20,360 *	3,713
Kold6	LSD	Kontrol	P1	-19,320 *	3,374
			P2	-34,180 *	3,374
		P1	Kontrol	19,320 *	3,374
			P2	-14,860 *	3,374
		P2	Kontrol	34,180 *	3,374
			P1	14,860 *	3,374
Kold9	LSD	Kontrol	P1	-23,720 *	3,859
			P2	-3,760	3,859
		P1	Kontrol	23,720 *	3,859
			P2	19,960 *	3,859
		P2	Kontrol	3,760	3,859
			P1	-19,960 *	3,859

Lampiran 5. *Ethical Clearance*

KOMISI BIOETIKA PENELITIAN KEDOKTERAN/KESEHATAN
FAKULTAS KEDOKTERAN
UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG
 Sekretariat : Gedung C Lantai I Fakultas Kedokteran Unissula
 Jl. Raya Kaligawe Km 4 Semarang, Telp. 024-6583584, Fax 024-6594366

Ethical Clearance

No. 388/XII/2020/Komisi Bioetik

Komisi Bioetika Penelitian Kedokteran/Kesehatan Fakultas Kedokteran Universitas Islam Sultan Agung Semarang, setelah melakukan pengkajian atas usulan penelitian yang berjudul :

**PENGARUH MESENCHYMAL STEM CELL (MSC) HIPOKسيا
 TERHADAP KADAR PDGF DAN JUMLAH KOLAGEN
 (STUDI IN VIVO PADA TIKUS GALUR WISTAR DENGAN LUKA EKSISI)**

Peneliti Utama : Erni Daryanti
 Pembimbing : Dr. dr. Agung Putra, M.Si.Med
 Dr.Ir. Titeik Sumarawati, M.Kes
 Tempat Penelitian : Laboratorium SCCR, Gedung IBL lt.2, FK Unissula

dengan ini menyatakan bahwa usulan penelitian diatas telah memenuhi prasyarat etik penelitian. Oleh karena itu Komisi Bioetika merekomendasikan agar penelitian ini dapat dilaksanakan dengan mempertimbangkan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki dan panduan yang tertuang dalam Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI tahun 2004.

Semarang, 30 Desember 2020

Komisi Bioetika Penelitian Kedokteran/Kesehatan
 Fakultas Kedokteran Unissula

Ketua,



(dr. Sofwan Dahlan, Sp.F(K))

Lampiran 6. Surat Keterangan Selesai Penelitian



Stem Cell and Cancer Research

Kaligawe raya Km 4, IBL Building, Unissula, Semarang 50132
Telp. (024) 6583584 Extension Laboratorium 600 Extension SCCR 125
www.sccr.id | info@sccr.id



SURAT KETERANGAN

No.002/SCCR /II/2021

Yang bertanda tangan di bawah ini,

Nama : Assoc Prof. Dr. dr. Agung Putra, M.Si. Med.
NIK : 210199050
Jabatan : Kepala Laboratorium SCCR FK UNISSULA Semarang

Menerangkan bahwa mahasiswa yang bernama :

Nama : Erni Daryanti
NIM : MBK. 1710010129
Fakultas : Magister Ilmu Biomedik Fakultas Kedokteran
Universitas : Universitas Islam Sultan Agung Semarang.
Judul Tesis : PENGARUH MESENCHYMAL STEM CELL (MSC) HIPOKSIA TERHADAP
KADAR PDGF DAN JUMLAH KOLAGEN (STUDI IN VIVO PADA TIKUS
GALUR WISTAR DENGAN LUKA EKSISI

Benar-benar telah selesai melakukan penelitian dengan menggunakan metode ELISA di
Laboratorium SCCR Fakultas Kedokteran UNISSULA Semarang pada 1 - 10 Januari 2021.

Demikian surat keterangan ini dibuat untuk dipergunakan seperlunya.

Semarang, 2 Februari 2021

Mengetahui,

Kepala Laboratorium SCCR
Fakultas Kedokteran UNISSULA

Assoc. Prof. Dr. dr. Agung Putra, M.Si. Med.
NIK. 210199050

Lampiran 7. Hasil Penelitian



Stem Cell and Cancer Research

Kaligawe raya Km 4, IBL Building, Unissula, Semarang 50112
Telp. (024) 6583584 Extension Laboratorium 600 Extension SCCR 125
www.sccr.id | info@sccr.id



Lampiran : HASIL PEMBACAAN KONSENTRASI PDGF

Nama : Erni Daryanti

NIM : MBK. 1710010129

Judul Skripsi : PENGARUH MESENCHYMAL STEM CELL (MSC) HIPOKZIA TERHADAP KADAR PDGF DAN JUMLAH KOLAGEN (STUDI IN VIVO PADA TIKUS GALUR WISTAR DENGAN LUKA EKSISI).

Hari pengamatan	Ulangan	Sham (pg/mL)	Control (pg/mL)	P1 (pg/mL)	P2 (pg/mL)
Day3	Tikus 1	81,70	89,20	82,68	95,47
	Tikus 2	69,39	66,07	84,03	85,47
	Tikus 3	56,80	69,57	96,36	99,03
	Tikus 4	51,70	57,03	90,37	114,57
	Tikus 5	72,06	72,36	78,30	101,40
Day6	Tikus 1	63,52	71,31	84,76	108,99
	Tikus 2	78,58	74,74	105,30	84,33
	Tikus 3	68,85	73,17	78,57	99,30
	Tikus 4	87,30	89,73	94,36	81,30
	Tikus 5	48,72	78,63	81,33	78,44
Day9	Tikus 1	70,99	57,77	82,45	76,86
	Tikus 2	65,73	83,73	97,17	60,36
	Tikus 3	66,69	86,67	99,06	77,73
	Tikus 4	74,73	89,73	81,03	71,82
	Tikus 5	70,47	69,12	76,02	72,93

Semarang, 2 Februari 2021

Mengetahui,

Kepala Laboratorium SCCR

Fakultas Kedokteran UNISSULA


Assoc. Prof. Dr. dr. Agung Putra, M.Si. Med.
NIK. 210199050



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Lampiran : HASIL PEMBACAAN DENSITAS KOLAGEN

Nama : Erni Daryanti

NIM : MBK. 1710010129

Judul Skripsi : PENGARUH MESENCHYMAL STEM CELL (MSC) HIPOKSIA TERHADAP KADAR PDGF DAN JUMLAH KOLAGEN (STUDI IN VIVO PADA TIKUS GALUR WISTAR DENGAN LUKA EKSISI).

Hari pengamatan	Ulangan	Sham (%)	Kontrol (%)	P1 (%)	P2 (%)
Hari 3	Tikus 1	10,9	12,9	16,6	22,2
	Tikus 2	9,4	13,4	20,1	25,1
	Tikus 3	8,3	11,3	25,1	28,2
	Tikus 4	10,1	16,1	13,3	13,3
	Tikus 5	10,2	17,2	26,1	29,2
Hari 6	Tikus 1	9,9	25,2	37,2	52,1
	Tikus 2	9,2	24,3	37,9	53,1
	Tikus 3	11,3	19,2	44,1	60,3
	Tikus 4	12,1	19,5	50,2	49,2
	Tikus 5	11,2	18,8	34,2	63,2
Hari 9	Tikus 1	9,1	29,3	62,2	55,2
	Tikus 2	8,4	40,4	61,1	52,1
	Tikus 3	10,4	41,2	53,1	43,4
	Tikus 4	12,8	34,2	50,2	46,1
	Tikus 5	12,2	32,1	69,2	44,2

Semarang, 2 Februari 2021

Mengetahui,

Kepala Laboratorium SCCR

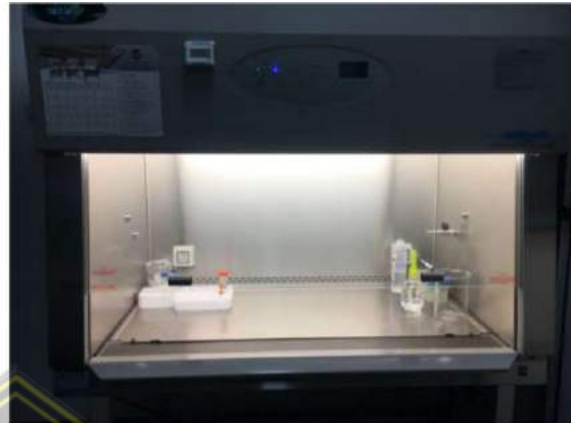
Fakultas Kedokteran UNISSULA


Assoc. Prof. Dr. dr. Agung Putra, M.Si. Med.
NIK: 210199050

Lampiran 8. Dokumentasi Penelitian



(a) Instrumen bedah



(b) Biosafety Cabinet class 2



(c) Bulu tikus yang dicukur



(d) Obat-obatan sedasi



(e) Injeksi sedasi



(f) Pembuatan luka dengan *punch biopsy*



(g) Pengambilan jaringan



(h) Injeksi MSC hipoksia



(i) MSC non Hipoksia, perbesaran 4x



(j) MSC non Hipoksia, perbesaran 10x



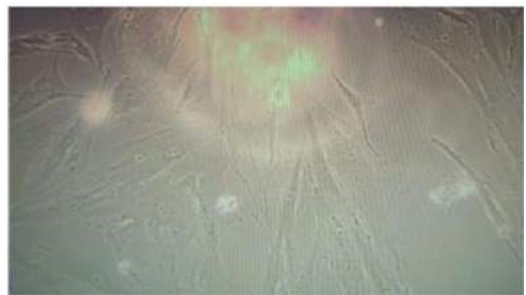
(k) MSC non Hipoksia, perbesaran 20x



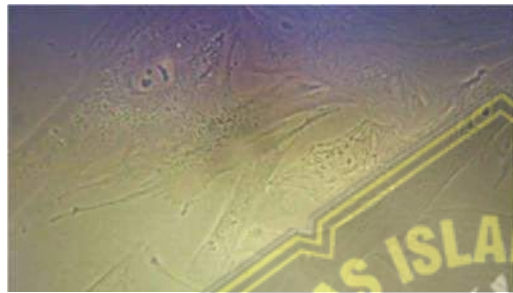
(l) MSC non Hipoksia, perbesaran 40x



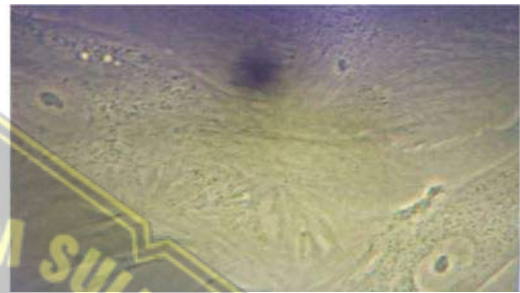
(m) MSC Hipoksia, perbesaran 4x



(n) MSC Hipoksia, perbesaran 10x



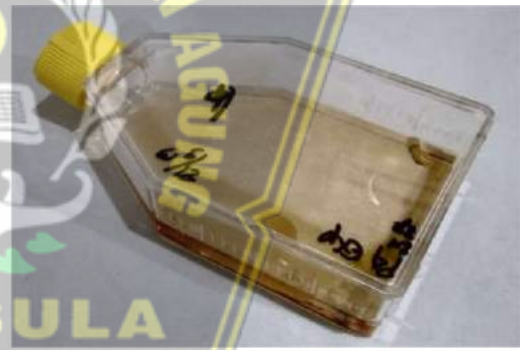
(o) MSC Hipoksia, perbesaran 20x



(p) MSC Hipoksia, perbesaran 40x



(q) MSC + medium sebelum hipoksia



(r) MSC + medium setelah hipoksia



(s) *Chamber* hipoksia



Inkubasi Hipoksik



Pengamatan MSC



Perawatan MSC



Uji PDGF dengan ELISA



Pembacaan ELISA