LAMPIRAN 1

ALAT DAN BAHAN PENELITIAN

(A)

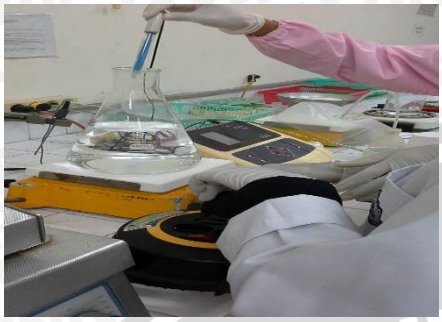
(B)

(C)

Gambar 1 (A) CFA, IFA, dan STZ;(B) AGE-BSA dan Antibodi poliklonal rabbit anti-AGE mouse;(C) Sentrifugator

LAMPIRAN 2

DOKUMENTASI KEGIATAN



(A)

(B)

(C)

(D)

(E)

Gambar 2 (A)Pembuatan Imunisasi;(B) Persiapan Hewan Coba;(C) Pemberian Imunisasi ;(D) Induksi STZ/Diabetes; (E) Pengukuran kadar glukosa darah

LAMPIRAN 3

UJI ANALISIS Kadar Glukosa Darah

1. GD

Report

Kelompok		GD_post_STZ1	GD_post_STZ2	GD_pre_bedah
1	Mean	146,5000	149,0000	146,7500
	N	5	5	5
	Std. Deviation	16,29928	9,41630	19,36276
2	Mean	127,0000	108,0000	167,2500
	N	5	5	5
	Std. Deviation	32,64966	44,02272	31,38338
3	Mean	202,2500	384,5000	454,7500
	N	5	5	5
	Std. Deviation	31,40462	158,28771	135,55165
4	Mean	225,2500	360,5000	365,2500
	N	5	5	5
	Std. Deviation	20,98214	145,53923	172,23893
Total	Mean	181,0833	280,6250	318,3333
	N	20	20	20
	Std. Deviation	41,30472	152,07458	162,99231

Uji Normalitas

NPar Tests

[DataSet1] C:\Users\Ivan\AppData\Local\Temp\Rar$DIa0.787\SPSS buat Bilal.sav

One-Sample Kolmogorov-Smirnov Test

		GD_post_STZ1	GD_post_STZ2	GD_pre_bedah
N		20	20	20
Normal Parameters[a]	Mean	173.4000	248.9000	273.3000
	Std. Deviation	44.13186	154.90707	155.91769
Most Extreme Differences	Absolute	.125	.188	.206
	Positive	.125	.188	.206
	Negative	-.113	-.134	-.171
Kolmogorov-Smirnov Z		.561	.840	.923
Asymp. Sig. (2-tailed)		.911	.480	.362

a. Test distribution is Normal.

Uji Homogenitas

```
ONEWAY GD_post_STZ1 GD_post_STZ2 GD_pre_bedah BY Kelompok
  /STATISTICS HOMOGENEITY
  /MISSING ANALYSIS
  /POSTHOC=LSD ALPHA(0.05).
```

Oneway

```
[DataSet1] C:\Users\Ivan\AppData\Local\Temp\Rar$DIa0.787\SPSS buat Bilal.sav
```

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
GD_post_STZ1	.351	3	16	.789
GD_post_STZ2	2.934	3	16	.065
GD_pre_bedah	4.206	3	16	.023

Uji Analisis One Way ANOVA

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
GD_post_STZ1	Between Groups	27802.000	3	9267.333	16.112	.000
	Within Groups	9202.800	16	575.175		
	Total	37004.800	19			
GD_post_STZ2	Between Groups	308861.400	3	102953.800	11.201	.000
	Within Groups	147066.400	16	9191.650		
	Total	455927.800	19			
GD_pre_bedah	Between Groups	300112.600	3	100037.533	9.893	.001
	Within Groups	161783.600	16	10111.475		
	Total	461896.200	19			

Uji Post Hoc

Post Hoc

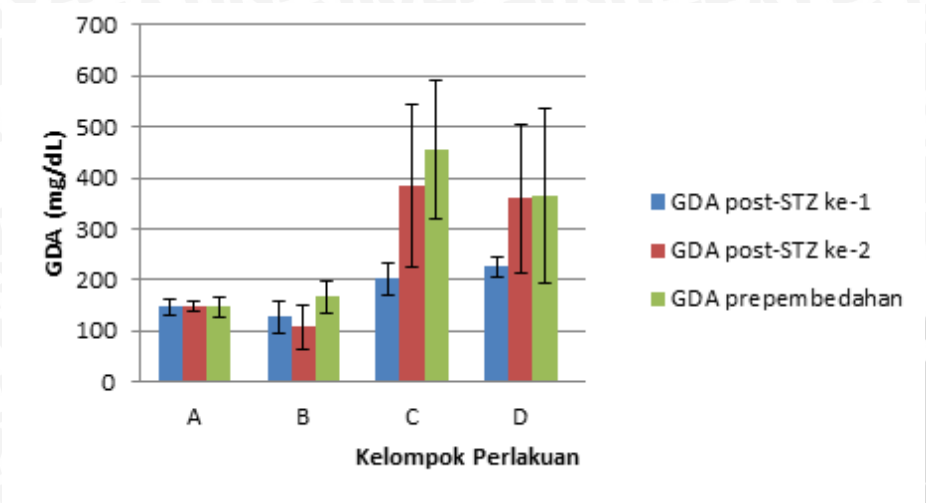
Multiple Comparisons

LSD

Dependent Variable	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
GD_post_STZ1	1	2	15.40000	15.16806	.325	-16.7548	47.5548
		3	-53.80000*	15.16806	.003	-85.9548	-21.6452
		4	-75.20000*	15.16806	.000	-107.3548	-43.0452
	2	1	-15.40000	15.16806	.325	-47.5548	16.7548
		3	-69.20000*	15.16806	.000	-101.3548	-37.0452
		4	-90.60000*	15.16806	.000	-122.7548	-58.4452
	3	1	53.80000*	15.16806	.003	21.6452	85.9548
		2	69.20000*	15.16806	.000	37.0452	101.3548
		4	-21.40000	15.16806	.177	-53.5548	10.7548
	4	1	75.20000*	15.16806	.000	43.0452	107.3548
		2	90.60000*	15.16806	.000	58.4452	122.7548
		3	21.40000	15.16806	.177	-10.7548	53.5548
GD_post_STZ2	1	2	46.80000	60.63547	.451	-81.7415	175.3415
		3	-228.40000*	60.63547	.002	-356.9415	-99.8585
		4	-217.20000*	60.63547	.002	-345.7415	-88.6585
	2	1	-46.80000	60.63547	.451	-175.3415	81.7415
		3	-275.20000*	60.63547	.000	-403.7415	-146.6585
		4	-264.00000*	60.63547	.000	-392.5415	-135.4585
	3	1	228.40000*	60.63547	.002	99.8585	356.9415
		2	275.20000*	60.63547	.000	146.6585	403.7415
		4	11.20000	60.63547	.856	-117.3415	139.7415
	4	1	217.20000*	60.63547	.002	88.6585	345.7415
		2	264.00000*	60.63547	.000	135.4585	392.5415
		3	-11.20000	60.63547	.856	-139.7415	117.3415
GD_pre_bedah	1	2	-18.40000	63.59709	.776	-153.2198	116.4198
		3	-288.40000*	63.59709	.000	-423.2198	-153.5802
		4	-204.80000*	63.59709	.005	-339.6198	-69.9802
	2	1	18.40000	63.59709	.776	-116.4198	153.2198
		3	-270.00000*	63.59709	.001	-404.8198	-135.1802
		4	-186.40000*	63.59709	.010	-321.2198	-51.5802
	3	1	288.40000*	63.59709	.000	153.5802	423.2198
		2	270.00000*	63.59709	.001	135.1802	404.8198
		4	83.60000	63.59709	.207	-51.2198	218.4198
	4	1	204.80000*	63.59709	.005	69.9802	339.6198
		2	186.40000*	63.59709	.010	51.5802	321.2198
		3	-83.60000	63.59709	.207	-218.4198	51.2198

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

Histogram


700
600
500
400
300
200
100
0
GDA (mg/dL)
A
B
C
D
Kelompok Perlakuan
GDA post-STZ ke-1
GDA post-STZ ke-2
GDA prepembedahan

LAMPIRAN 4

UJI ANALISIS Proteinuria

Uji Normalitas

Report

Proteinuria

Kelompok	Mean	N	Std. Deviation
1	98,29032500	5	17,230789233
2	99,99354840	5	14,244657253
3	166,65355000	5	33,825131338
4	116,03152500	5	7,517441141
Total	117,65703807	20	28,954163467

One-Sample Kolmogorov-Smirnov Test

		Proteinuria
N		20
Normal Parameters(a,b)	Mean	117,65703807
	Std. Deviation	28,954163467
Most Extreme Differences	Absolute	,261
	Positive	,261
	Negative	-,136
Kolmogorov-Smirnov Z		1,280
Asymp. Sig. (2-tailed)		,076

a Test distribution is Normal.
b Calculated from data.

Uji Homogenitas

Test of Homogeneity of Variances

Proteinuria

Levene Statistic	df1	df2	Sig.
1,984	3	16	,130

Uji Analisi One Way ANOVA

ANOVA

Proteinuria

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12585,194	3	2517,039	6,766	,001
Within Groups	6696,708	16	372,039		
Total	19281,902	19			

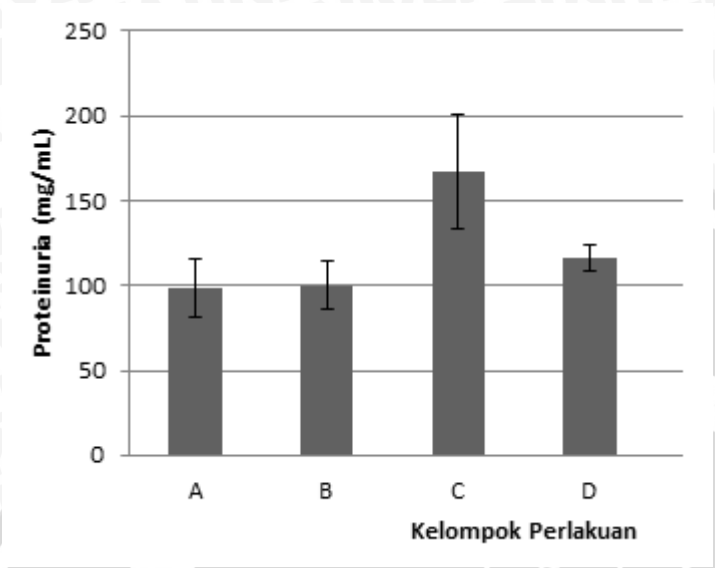
Multiple Comparisons

Dependent Variable: Proteinuria
LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
		Lower Bound	Upper Bound	Lower Bound	Upper Bound	Lower Bound
1	2	-1,703223400	13,63890288 6	,902	-30,35749508	26,95104828
	3	-68,363225000(*)	13,63890288 6	,000	-97,01749668	-39,70895332
	4	-17,741200000	13,63890288 6	,210	-46,39547168	10,91307168
2	1	1,703223400	13,63890288 6	,902	-26,95104828	30,35749508
	3	-66,660001600(*)	13,63890288 6	,000	-95,31427328	-38,00572992
	4	-16,037976600	13,63890288 6	,255	-44,69224828	12,61629508
3	1	68,363225000(*)	13,63890288 6	,000	39,70895332	97,01749668
	2	66,660001600(*)	13,63890288 6	,000	38,00572992	95,31427328
	4	50,622025000(*)	13,63890288 6	,002	21,96775332	79,27629668
4	1	17,741200000	13,63890288 6	,210	-10,91307168	46,39547168
	2	16,037976600	13,63890288 6	,255	-12,61629508	44,69224828
	3	-50,622025000(*)	13,63890288 6	,002	-79,27629668	-21,96775332

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

Histogram


250
200
150
100
50
0
Proteinuria (mg/mL)
A
B
C
D
Kelompok Perlakuan

LAMPIRAN 5

UJI ANALISIS AREA MEMBRAN FILTRASI

Uji Normalitas

```
NPAR TESTS
  /K-S(NORMAL)=areamembranfiltrasi
  /MISSING ANALYSIS.
```

NPar Tests

```
[DataSet1] C:\Users\Ivan\Documents\SKRIPSI BILAL\file utk ngerjain spss\HASIL\aa.sav
```

One-Sample Kolmogorov-Smirnov Test

		areamembranfiltrasi
N		20
Normal Parameters[a]	Mean	44.650000
	Std. Deviation	14.9288664
Most Extreme Differences	Absolute	.182
	Positive	.182
	Negative	-.146
Kolmogorov-Smirnov Z		.816
Asymp. Sig. (2-tailed)		.519

a. Test distribution is Normal.

```
ONEWAY areamembranfiltrasi BY kelompok
  /STATISTICS HOMOGENEITY
  /MISSING ANALYSIS
  /POSTHOC=LSD ALPHA(0.05).
```

- **Uji Homogenitas dan Uji Analysis One Way ANOVA Area Membran Filtrasi**

Oneway

```
[DataSet1] C:\Users\Ivan\Documents\SKRIPSI BILAL\file utk ngerjain spss\HASIL\aa.sav
```

Test of Homogeneity of Variances

areamembranfiltrasi

Levene Statistic	df1	df2	Sig.
.867	3	16	.478

ANOVA

areamembranfiltrasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2861.350	3	953.783	11.113	.000
Within Groups	1373.200	16	85.825		
Total	4234.550	19			

Post Hoc

Multiple Comparisons

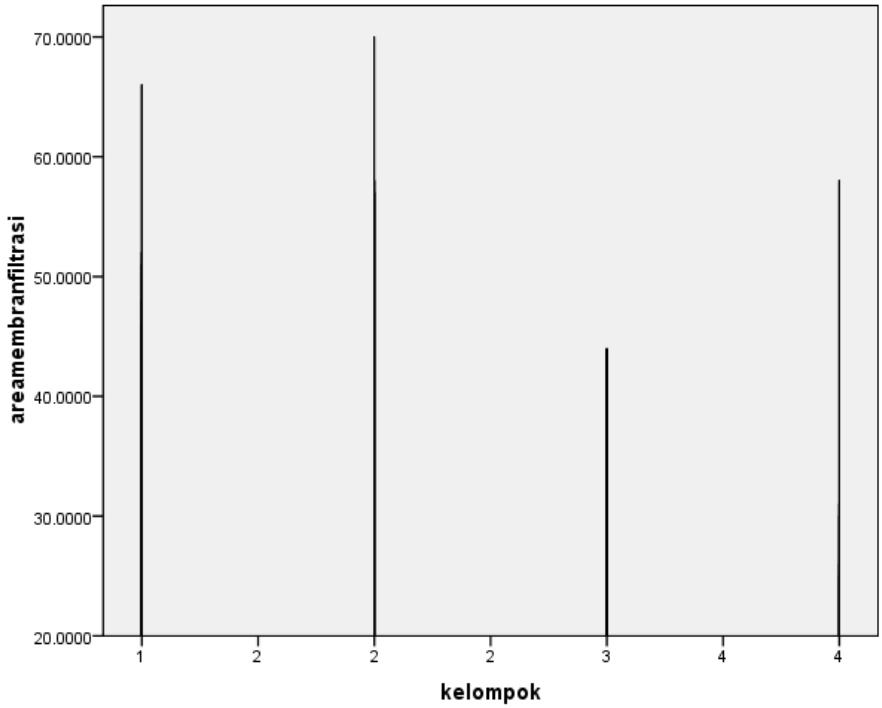
areamembranfiltrasi
LSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-7.4000000	5.8591E0	.225	-19.820908	5.020908
	3	20.6000000*	5.8591E0	.003	8.179092	33.020908
	4	18.6000000*	5.8591E0	.006	6.179092	31.020908
2	1	7.4000000	5.8591E0	.225	-5.020908	19.820908
	3	28.0000000*	5.8591E0	.000	15.579092	40.420908
	4	26.0000000*	5.8591E0	.000	13.579092	38.420908
3	1	-20.6000000*	5.8591E0	.003	-33.020908	-8.179092
	2	-28.0000000*	5.8591E0	.000	-40.420908	-15.579092
	4	-2.0000000	5.8591E0	.737	-14.420908	10.420908
4	1	-18.6000000*	5.8591E0	.006	-31.020908	-6.179092
	2	-26.0000000*	5.8591E0	.000	-38.420908	-13.579092
	3	2.0000000	5.8591E0	.737	-10.420908	14.420908

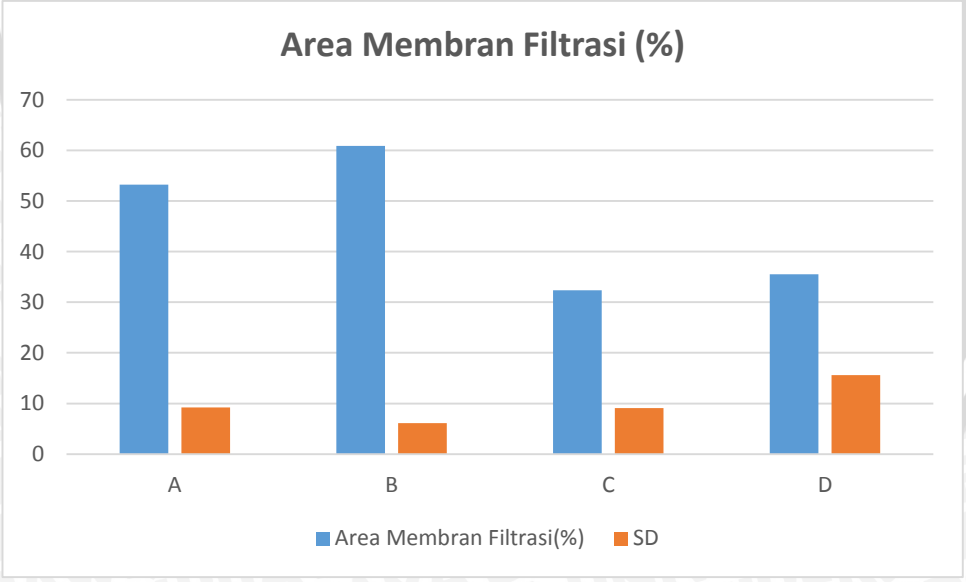
*. The mean difference is significant at the 0.05 level.

GGraph

```
[DataSet1] C:\Users\Ivan\Documents\SKRIPSI BILAL\file utk ngerjain spss\HASIL\aa.sav
```



Histogram



LAMPIRAN 6

LEMBAR KELAIKAN ETIK

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
THE MINISTRY OF EDUCATION AND CULTURE
FAKULTAS KEDOKTERAN UNIVERSITAS BRAWIJAYA
FACULTY OF MEDICINE UNIVERSITY OF BRAWIJAYA
KOMISI ETIK PENELITIAN KESEHATAN
HEALTH RESEARCH ETHICS COMMITTEE
Jalan Veteran Malang – 65145
Telp./ Fax. (62) 341 - 553930

KETERANGAN KELAIKAN ETIK
("ETHICAL CLEARANCE")

No. 270 / EC / KEPK – S1 – PD / 05 / 2015

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

JUDUL	:	**Pengaruh Imunisasi AGE-BSA (*Advanced Glycation End Product-Bovine Serum Albumin*) Terhadap Area Membran Filtrasi pada Ginjal Mencit Diabetes Nefropati Galur Balb/C.**
PENELITI	:	**Muhammad Bilal**
UNIT / LEMBAGA	:	**S1 Pendidikan Dokter – Fakultas Kedokteran – Universitas Brawijaya Malang**
TEMPAT PENELITIAN	:	**Laboratorium Biomedik FKUB dan Laboratorium Farmakologi FKUB**

DINYATAKAN LAIK ETIK.

Malang, 05 MAY 2015
Ketua
Komisi Etik Penelitian Kesehatan
Prof. Dr. dr. Teguh W.Sardjono, DTM&H, MSc, SpPark
NIP. 19820410 198002 1 001

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).