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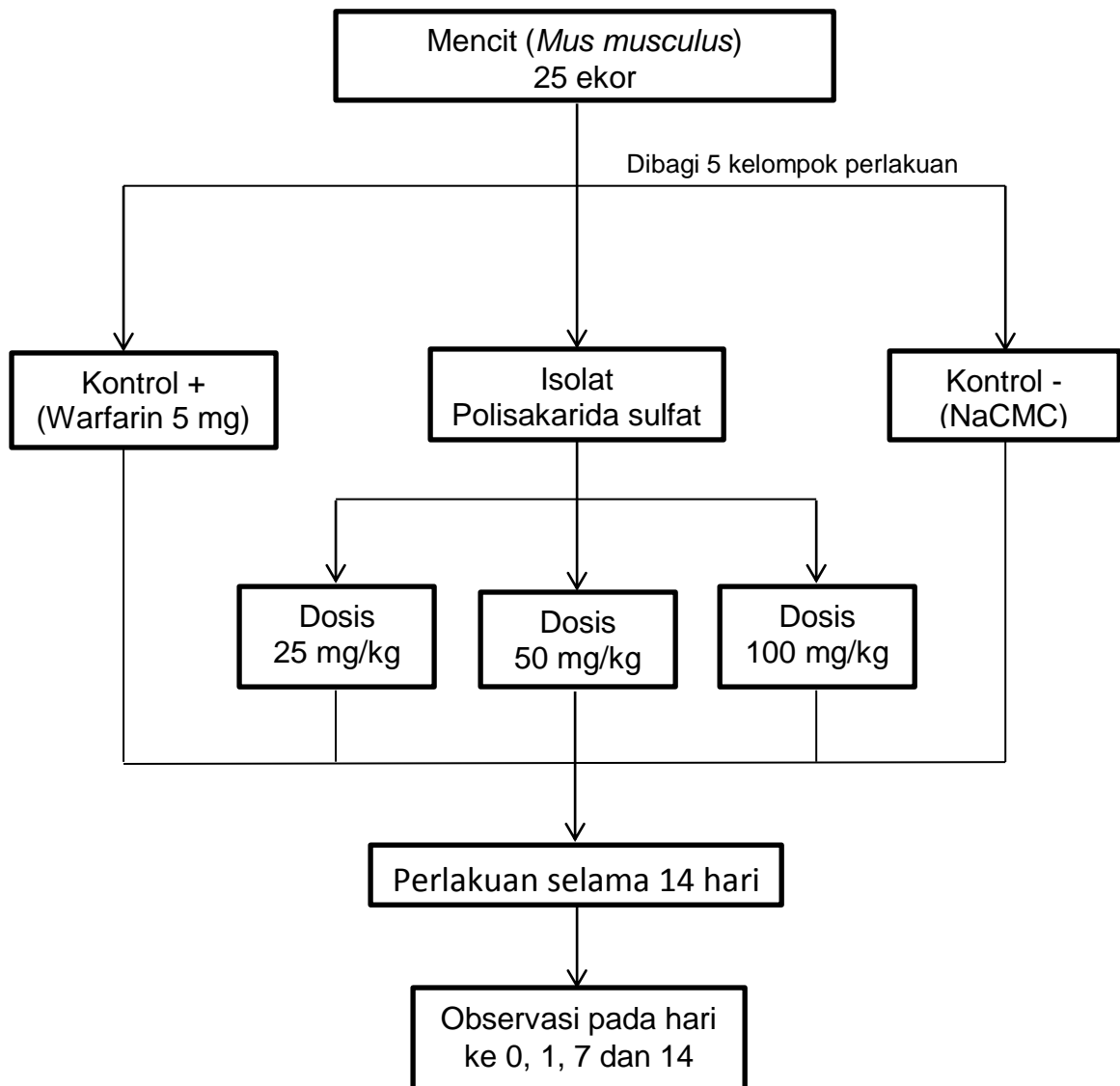
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LAMPIRAN

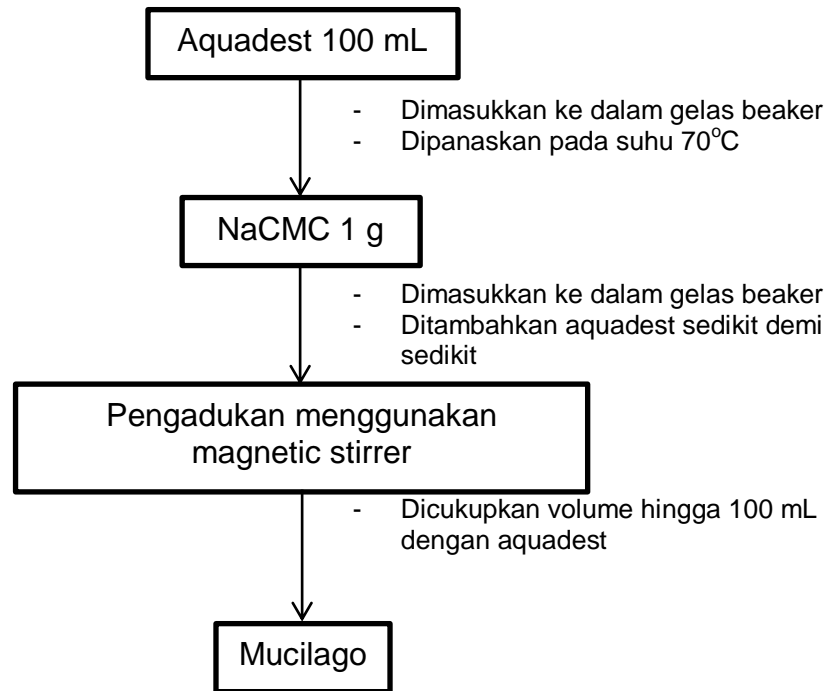
Lampiran 1

Skema penyiapan Hewan Uji



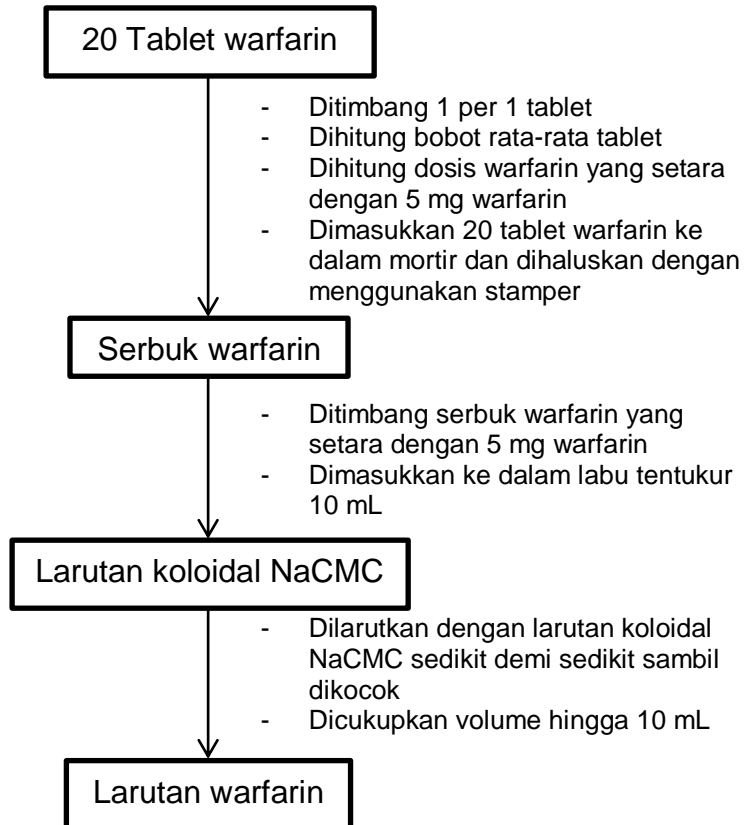
Lampiran 2

Skema Pembuatan Larutan Koloidal NaCMC 1%



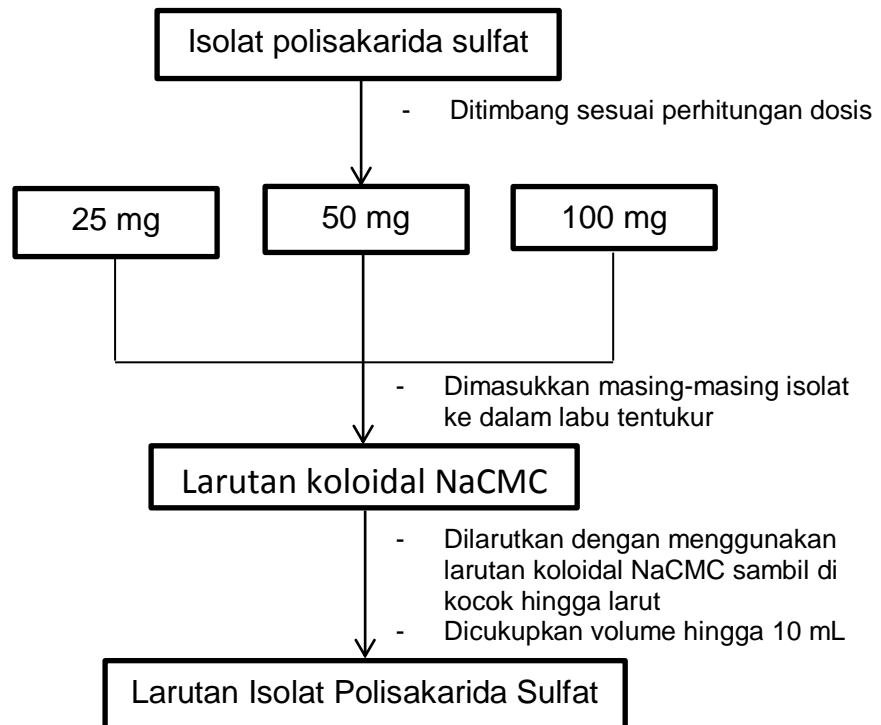
Lampiran 3

Skema Pembuatan Larutan Warfarin



Lampiran 4

Skema Pembuatan Larutan Isolat Polisakarida Sulfat



Lampiran 5

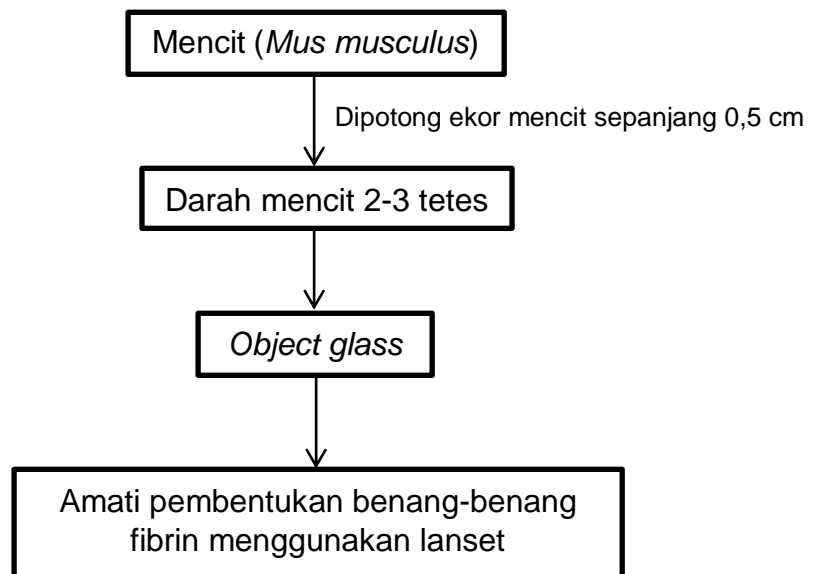
Skema Uji Waktu Perdarahan



Lampiran 6

Skema Uji Waktu Pembekuan Darah

I.6 Uji Waktu Pembekuan Darah



Lampiran 7

Perhitungan Dosis

Konversi dosis manusia ke mencit

Faktor konversi dosis manusia ke mencit : 0,0026 (Nair & Jacob, 2016)

Maka, konversi dosis manusia ke mencit adalah sebagai berikut :

1. Dosis warfarin untuk manusia 5 mg/hari

$$\begin{aligned}
 \text{konversi dosis} &= 5 \text{ mg/hari} \times 0,0026 = 0,013 \text{ mg/hari} \\
 &= 0,013 \text{ mg}/20 \text{ gBB} \\
 &= 0,00065 \text{ mg/gBB} \\
 &= 0,65 \text{ mg/kgBB}
 \end{aligned}$$

$$\text{Mencit } 20 \text{ gram} = 0,013 \text{ mg}/20 \text{ gramBB}/0,2 \text{ mL}$$

$$\begin{aligned}
 \text{Stok } 10 \text{ mL} &= 10 \text{ mL}/0,2 \text{ mL} \times 0,013 \text{ mg} = 0,65 \text{ mg} \\
 &= 0,65 \text{ mg}/2 \text{ mg} \times 121,53 \text{ mg} = 39,497 \text{ mg}
 \end{aligned}$$

2. Dosis isolat polisakarida sulfat 25 mg/kgBB

$$\text{Mencit } 20 \text{ gram} = 0,5 \text{ mg}/20 \text{ gramBB}/0,2 \text{ mL}$$

$$\text{Stok } 10 \text{ mL} = 25 \text{ mg}/10 \text{ mL}$$

3. Dosis isolat polisakarida sulfat 50 mg/kgBB

$$\text{Mencit } 20 \text{ gram} = 1 \text{ mg}/20 \text{ gramBB}/0,2 \text{ mL}$$

$$\text{Stok } 10 \text{ mL} = 50 \text{ mg}/10 \text{ mL}$$

4. Dosis isolat polisakarida sulfat 100 mg/kgBB

$$\text{Mencit } 20 \text{ gram} = 2 \text{ mg}/20 \text{ gramBB}/0,2 \text{ mL}$$

$$\text{Stok } 10 \text{ mL} = 100 \text{ mg}/10 \text{ mL}$$

Lampiran 8

Data Pengujian Waktu Pembekuan Darah dan Waktu Perdarahan

Tabel 4. Data Hasil Uji Waktu Pembekuan Darah dan Waktu Perdarahan

No.	Kepala								
	Perlakuan	H ₀ 16/12/2020		H ₁ 17/12/2020		H ₇ 23/12/2020		H ₁₄ 30/12/2020	
		PD (Detik)	PERD (Detik)	PD (Detik)	PERD (Detik)	PD (Detik)	PERD (Detik)	PD (Detik)	PERD (Detik)
1.	Kontrol Positif (Warfarin)	60	570	90	660	120	810	150	930
	Kontrol Negatif (NaCMC)	60	600	60	660	60	690	60	750
	Polisakarida Sulfat 25 mg/kgBB	60	600	60	690	90	690	90	810
	Polisakarida Sulfat 50 mg/kgBB	60	660	90	690	90	690	120	780
	Polisakarida Sulfat 100 mg/kgBB	90	630	90	720	120	780	150	870
	Kaki Kiri								
2.	Kontrol Positif (Warfarin)	60	600	90	660	120	720	150	780
	Kontrol Negatif (NaCMC)	60	570	60	600	90	630	120	600
	Polisakarida Sulfat 25 mg/kgBB	60	600	90	630	120	660	120	690

	Polisakarida Sulfat 50 mg/kgBB	60	570	60	600	90	630	90	660
	Polisakarida Sulfat 100 mg/kgBB	60	600	60	690	120	720	150	750
Kaki Kanan									
	Kontrol Positif (Warfarin)	90	540	90	630	120	690	150	780
3	Kontrol Negatif (NaCMC)	60	570	90	600	90	630	90	630
	Polisakarida Sulfat 25 mg/kgBB	60	570	60	600	60	630	90	660
	Polisakarida Sulfat 50 mg/kgBB	60	630	60	630	60	660	90	690
	Polisakarida Sulfat 100 mg/kgBB	60	570	90	660	120	720	150	810

Keterangan :

PD : Waktu Pembekuan Darah

PERD : Waktu Perdarahan

Lampiran 9

Analisis Statistik

1. Waktu Pembekuan Darah

1.1 Waktu Pembekuan Darah Sebelum Perlakuan

Tabel 5. Data Distribusi Kolmogorov–Smirnov Waktu Pembekuan Darah Sebelum Perlakuan

One-Sample Kolmogorov-Smirnov Test			
		Perlakuan	ClottingTime
N		15	15
Normal Parameters ^{a,b}	Mean	3.00	66.00
	Std. Deviation	1.464	12.421
Most Extreme Differences	Absolute	.153	.485
	Positive	.153	.485
	Negative	-.153	-.315
Test Statistic		.153	.485
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.000 ^c

a. Test distribution is Normal.

b. Calculated from data.

Tabel 6. Deskripsi Waktu Pembekuan Darah Sebelum Perlakuan

Descriptives								
ClottingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	70.00	17.321	10.000	26.97	113.03	60	90
Kontrol Negatif (NaCMC)	3	70.00	17.321	10.000	26.97	113.03	60	90
Polisakarida Sulfat 25 mg/kgBB	3	60.00	.000	.000	60.00	60.00	60	60

Polisakarida Sulfat 50 mg/kgBB	3	60.00	.000	.000	60.00	60.00	60	60
Polisakarida Sulfat 100 mg/kgBB	3	70.00	17.321	10.000	26.97	113.03	60	90
Total	15	66.00	12.421	3.207	59.12	72.88	60	90

Tabel 7. Data Homogenitas Waktu Pembekuan Darah Sebelum Perlakuan

Test of Homogeneity of Variances					
		Levene	df1	df2	Sig.
		Statistic			
ClottingTime	Based on Mean	8.000	4	10	.004
	Based on Median	.500	4	10	.737
	Based on Median and with adjusted df	.500	4	6.000	.738
	Based on trimmed mean	6.301	4	10	.008

Tabel 8. Data Analisis One Way Anova Waktu Pembekuan Darah Sebelum Perlakuan

ANOVA					
ClottingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	360.000	4	90.000	.500	.737
Within Groups	1800.000	10	180.000		
Total	2160.000	14			

Tabel 9. Data Penentuan Perbedaan Tiap Kelompok Waktu Pembekuan Darah Menggunakan Metode Least Significant Difference

Multiple Comparisons						
Dependent Variable: ClottingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	.000	10.954	1.000	-24.41	24.41
	Polisakarida Sulfat 25 mg/kgBB	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 50 mg/kgBB	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 100 mg/kgBB	.000	10.954	1.000	-24.41	24.41
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	.000	10.954	1.000	-24.41	24.41
	Polisakarida Sulfat 25 mg/kgBB	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 50 mg/kgBB	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 100 mg/kgBB	.000	10.954	1.000	-24.41	24.41
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-10.000	10.954	.383	-34.41	14.41
	Kontrol Negatif (NaCMC)	-10.000	10.954	.383	-34.41	14.41
	Polisakarida Sulfat 50 mg/kgBB	.000	10.954	1.000	-24.41	24.41
	Polisakarida Sulfat 100 mg/kgBB	-10.000	10.954	.383	-34.41	14.41
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-10.000	10.954	.383	-34.41	14.41
	Kontrol Negatif (NaCMC)	-10.000	10.954	.383	-34.41	14.41
	Polisakarida Sulfat 25 mg/kgBB	.000	10.954	1.000	-24.41	24.41

	Polisakarida Sulfat 100 mg/kgBB	-10.000	10.954	.383	-34.41	14.41
Polisakarida Sulfat 100 mg/kgBB	Kontrol Positif (Warfarin)	.000	10.954	1.000	-24.41	24.41
	Kontrol Negatif (NaCMC)	.000	10.954	1.000	-24.41	24.41
	Polisakarida Sulfat 25 mg/kgBB	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 50 mg/kgBB	10.000	10.954	.383	-14.41	34.41

1.2 Waktu Pembekuan Darah Hari Pertama

Tabel 10. Data Distribusi Kolmogorov–Smirnov Waktu Pembekuan Darah Hari Pertama

One-Sample Kolmogorov-Smirnov Test			
		Perlakuan	ClottingTime
N		15	15
Normal Parameters ^{a,b}	Mean	3.00	74.00
	Std. Deviation	1.464	15.492
Most Extreme Differences	Absolute	.153	.350
	Positive	.153	.350
	Negative	-.153	-.316
Test Statistic		.153	.350
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.000 ^c

a. Test distribution is Normal.

b. Calculated from data.

Tabel 11. Deskripsi Waktu Pembekuan Darah Hari Pertama

Descriptives								
ClottingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	90.00	.000	.000	90.00	90.00	90	90
Kontrol Negatif (NaCMC)	3	60.00	.000	.000	60.00	60.00	60	60
Polisakarida Sulfat 25 mg/kgBB	3	70.00	17.321	10.000	26.97	113.03	60	90
Polisakarida Sulfat 50 mg/kgBB	3	70.00	17.321	10.000	26.97	113.03	60	90

Polisakarida Sulfat 100 mg/kgBB	3	80.00	17.321	10.000	36.97	123.03	60	90
Total	15	74.00	15.492	4.000	65.42	82.58	60	90

Tabel 12. Data Homogenitas Waktu Pembekuan Darah Hari Pertama

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
ClottingTime	Based on Mean	8.000	4	10	.004
	Based on Median	.500	4	10	.737
	Based on Median and with adjusted df	.500	4	6.000	.738
	Based on trimmed mean	6.301	4	10	.008

Tabel 13. Data Analisis One Way Anova Waktu Pembekuan Darah Hari Pertama

ANOVA					
ClottingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1560.000	4	390.000	2.167	.147
Within Groups	1800.000	10	180.000		
Total	3360.000	14			

Tabel 14. Data Penentuan Perbedaan Tiap Kelompok Waktu Pembekuan Darah Menggunakan Metode Least Significant Difference Hari Pertama

Multiple Comparisons						
Dependent Variable: ClottingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	30.000*	10.954	.021	5.59	54.41

	Polisakarida Sulfat 25 mg/kgBB	20.000	10.954	.098	-4.41	44.41
	Polisakarida Sulfat 50 mg/kgBB	20.000	10.954	.098	-4.41	44.41
	Polisakarida Sulfat 100 mg/kgBB	10.000	10.954	.383	-14.41	34.41
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	-30.000*	10.954	.021	-54.41	-5.59
	Polisakarida Sulfat 25 mg/kgBB	-10.000	10.954	.383	-34.41	14.41
	Polisakarida Sulfat 50 mg/kgBB	-10.000	10.954	.383	-34.41	14.41
	Polisakarida Sulfat 100 mg/kgBB	-20.000	10.954	.098	-44.41	4.41
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-20.000	10.954	.098	-44.41	4.41
	Kontrol Negatif (NaCMC)	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 50 mg/kgBB	.000	10.954	1.000	-24.41	24.41
	Polisakarida Sulfat 100 mg/kgBB	-10.000	10.954	.383	-34.41	14.41
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-20.000	10.954	.098	-44.41	4.41
	Kontrol Negatif (NaCMC)	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 25 mg/kgBB	.000	10.954	1.000	-24.41	24.41

	Polisakarida Sulfat 100 mg/kgBB	-10.000	10.954	.383	-34.41	14.41
Polisakarida Sulfat 100 mg/kgBB	Kontrol Positif (Warfarin)	-10.000	10.954	.383	-34.41	14.41
	Kontrol Negatif (NaCMC)	20.000	10.954	.098	-4.41	44.41
	Polisakarida Sulfat 25 mg/kgBB	10.000	10.954	.383	-14.41	34.41
	Polisakarida Sulfat 50 mg/kgBB	10.000	10.954	.383	-14.41	34.41

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

1.3 Waktu Pembekuan Darah Hari ke Tujuh

Tabel 15. Data Distribusi Kolmogorov–Smirnov Waktu Pembekuan Darah Hari ke Tujuh

One-Sample Kolmogorov-Smirnov Test		
	Perlakuan	ClottingTime
N	15	15
Normal Parameters ^{a,b}	Mean	3.00
	Std. Deviation	1.464
Most Extreme Differences	Absolute	.153
	Positive	.153
	Negative	-.153
Test Statistic	.153	.288
Asymp. Sig. (2-tailed)	.200 ^{c,d}	.002 ^c

a. Test distribution is Normal.

b. Calculated from data.

Tabel 16. Deskripsi Waktu Pembekuan Darah Hari Ke Tujuh

Descriptives								
ClottingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	120.00	.000	.000	120.00	120.00	120	120
Kontrol Negatif (NaCMC)	3	80.00	17.321	10.000	36.97	123.03	60	90
Polisakarida Sulfat 25 mg/kgBB	3	90.00	30.000	17.321	15.48	164.52	60	120
Polisakarida Sulfat 50 mg/kgBB	3	90.00	.000	.000	90.00	90.00	90	90

Polisakarida Sulfat 100 mg/kgBB	3	120.00	.000	.000	120.00	120.00	120	120
Total	15	100.00	21.712	5.606	87.98	112.02	60	120

Tabel 17. Data Homogenitas Waktu Pembekuan Darah Hari Ke Tujuh

Test of Homogeneity of Variances					
		Levene			
		Statistic	df1	df2	Sig.
ClottingTime	Based on Mean	4.000	4	10	.034
	Based on Median	2.000	4	10	.171
	Based on Median and with adjusted df	2.000	4	4.000	.259
	Based on trimmed mean	3.881	4	10	.037

Tabel 18. Data Analisis One Way Anova Waktu Pembekuan Darah Hari Ke Tujuh

ANOVA					
ClottingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4200.000	4	1050.000	4.375	.027
Within Groups	2400.000	10	240.000		
Total	6600.000	14			

Tabel 19. Data Penentuan Perbedaan Tiap Kelompok Waktu Pembekuan Darah Menggunakan Metode Least Significant Difference Hari Ke Tujuh

Multiple Comparisons						
Dependent Variable: ClottingTime						
LSD						
		Mean			95% Confidence Interval	
		Differenc	Std.		Lower	Upper
(I) Perlakuan	(J) Perlakuan	e (I-J)	Error	Sig.	Bound	Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	40.000*	12.649	.010	11.82	68.18

	Polisakarida Sulfat 25 mg/kgBB	30.000*	12.649	.039	1.82	58.18
	Polisakarida Sulfat 50 mg/kgBB	30.000*	12.649	.039	1.82	58.18
	Polisakarida Sulfat 100 mg/kgBB	.000	12.649	1.000	-28.18	28.18
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	-40.000*	12.649	.010	-68.18	-11.82
	Polisakarida Sulfat 25 mg/kgBB	-10.000	12.649	.448	-38.18	18.18
	Polisakarida Sulfat 50 mg/kgBB	-10.000	12.649	.448	-38.18	18.18
	Polisakarida Sulfat 100 mg/kgBB	-40.000*	12.649	.010	-68.18	-11.82
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-30.000*	12.649	.039	-58.18	-1.82
	Kontrol Negatif (NaCMC)	10.000	12.649	.448	-18.18	38.18
	Polisakarida Sulfat 50 mg/kgBB	.000	12.649	1.000	-28.18	28.18
	Polisakarida Sulfat 100 mg/kgBB	-30.000*	12.649	.039	-58.18	-1.82
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-30.000*	12.649	.039	-58.18	-1.82
	Kontrol Negatif (NaCMC)	10.000	12.649	.448	-18.18	38.18
	Polisakarida Sulfat 25 mg/kgBB	.000	12.649	1.000	-28.18	28.18

	Polisakarida Sulfat 100 mg/kgBB	-30.000*	12.649	.039	-58.18	-1.82
Polisakarida Sulfat 100 mg/kgBB	Kontrol Positif (Warfarin)	.000	12.649	1.000	-28.18	28.18
	Kontrol Negatif (NaCMC)	40.000*	12.649	.010	11.82	68.18
	Polisakarida Sulfat 25 mg/kgBB	30.000*	12.649	.039	1.82	58.18
	Polisakarida Sulfat 50 mg/kgBB	30.000*	12.649	.039	1.82	58.18

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

1.3 Waktu Pembekuan Darah Hari Ke Empat Belas

Tabel 20. Data Distribusi Kolmogorov–Smirnov Waktu Pembekuan Darah Hari Ke Empat Belas

One-Sample Kolmogorov-Smirnov Test			
		Perlakuan	ClottingTime
N		15	15
Normal Parameters ^{a,b}	Mean	3.00	122.00
	Std. Deviation	1.464	30.984
Most Extreme Differences	Absolute	.153	.284
	Positive	.153	.183
	Negative	-.153	-.284
Test Statistic		.153	.284
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.002 ^c

a. Test distribution is Normal.

b. Calculated from data.

Tabel 21. Deskripsi Waktu Pembekuan Darah Hari Ke Empat Belas

Descriptives								
ClottingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	150.00	.000	.000	150.00	150.00	150	150
Kontrol Negatif (NaCMC)	3	90.00	30.000	17.321	15.48	164.52	60	120
Polisakarida Sulfat 25 mg/kgBB	3	100.00	17.321	10.000	56.97	143.03	90	120
Polisakarida Sulfat 50 mg/kgBB	3	120.00	30.000	17.321	45.48	194.52	90	150

Polisakarida Sulfat 100 mg/kgBB	3	150.00	.000	.000	150.00	150.00	150	150
Total	15	122.00	30.984	8.000	104.84	139.16	60	150

Tabel 22. Data Homogenitas Waktu Pembekuan Darah Hari Ke Empat Belas

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
ClottingTime	Based on Mean	2.421	4	10	.117
	Based on Median	1.667	4	10	.233
	Based on Median and with adjusted df	1.667	4	6.000	.274
	Based on trimmed mean	2.386	4	10	.121

Tabel 23. Data Analisis One Way Anova Waktu Pembekuan Darah Hari Ke Empat Belas

ANOVA					
ClottingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9240.000	4	2310.000	5.500	.013
Within Groups	4200.000	10	420.000		
Total	13440.000	14			

Tabel 24. Data Penentuan Perbedaan Tiap Kelompok Waktu Pembekuan Darah Menggunakan Metode Least Significant Difference Hari Ke Empat Belas

Multiple Comparisons						
Dependent Variable: ClottingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	60.000*	16.733	.005	22.72	97.28

	Polisakarida Sulfat 25 mg/kgBB	50.000*	16.733	.014	12.72	87.28
	Polisakarida Sulfat 50 mg/kgBB	30.000	16.733	.103	-7.28	67.28
	Polisakarida Sulfat 100 mg/kgBB	.000	16.733	1.000	-37.28	37.28
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	-60.000*	16.733	.005	-97.28	-22.72
	Polisakarida Sulfat 25 mg/kgBB	-10.000	16.733	.563	-47.28	27.28
	Polisakarida Sulfat 50 mg/kgBB	-30.000	16.733	.103	-67.28	7.28
	Polisakarida Sulfat 100 mg/kgBB	-60.000*	16.733	.005	-97.28	-22.72
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-50.000*	16.733	.014	-87.28	-12.72
	Kontrol Negatif (NaCMC)	10.000	16.733	.563	-27.28	47.28
	Polisakarida Sulfat 50 mg/kgBB	-20.000	16.733	.260	-57.28	17.28
	Polisakarida Sulfat 100 mg/kgBB	-50.000*	16.733	.014	-87.28	-12.72
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-30.000	16.733	.103	-67.28	7.28
	Kontrol Negatif (NaCMC)	30.000	16.733	.103	-7.28	67.28
	Polisakarida Sulfat 25 mg/kgBB	20.000	16.733	.260	-17.28	57.28

	Polisakarida Sulfat 100 mg/kgBB	-30.000	16.733	.103	-67.28	7.28
Polisakarida Sulfat 100 mg/kgBB	Kontrol Positif (Warfarin)	.000	16.733	1.000	-37.28	37.28
	Kontrol Negatif (NaCMC)	60.000*	16.733	.005	22.72	97.28
	Polisakarida Sulfat 25 mg/kgBB	50.000*	16.733	.014	12.72	87.28
	Polisakarida Sulfat 50 mg/kgBB	30.000	16.733	.103	-7.28	67.28

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

2. Waktu Perdarahan

2.1 Waktu Perdarahan Sebelum Perlakuan

Tabel 25. Data Distribusi Kolmogorov–Smirnov Waktu Perdarahan Sebelum Perlakuan

One-Sample Kolmogorov-Smirnov Test			
		Perlakuan	BleedingTime
N		15	15
Normal Parameters ^{a,b}	Mean	3.00	592.00
	Std. Deviation	1.464	30.984
Most Extreme Differences	Absolute	.153	.228
	Positive	.153	.228
	Negative	-.153	-.172
Test Statistic		.153	.228
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.035 ^c

a. Test distribution is Normal.

b. Calculated from data.

Tabel 26. Deskripsi Waktu Perdarahan Sebelum Perlakuan

Descriptives								
BleedingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	570.00	30.000	17.321	495.48	644.52	540	600
Kontrol Negatif (NaCMC)	3	580.00	17.321	10.000	536.97	623.03	570	600
Polisakarida Sulfat 25 mg/kgBB	3	590.00	17.321	10.000	546.97	633.03	570	600
Polisakarida Sulfat 50 mg/kgBB	3	620.00	45.826	26.458	506.16	733.84	570	660

Polisakarida Sulfat 100 mg/kgBB	3	600.00	30.000	17.321	525.48	674.52	570	630
Total	15	592.00	30.984	8.000	574.84	609.16	540	660

Tabel 27. Data Homogenitas Waktu Perdarahan Sebelum Perlakuan

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
BleedingTime	Based on Mean	.909	4	10	.495
	Based on Median	.500	4	10	.737
	Based on Median and with adjusted df	.500	4	7.538	.737
	Based on trimmed mean	.882	4	10	.509

Tabel 28. Data Analisis One Way Anova Waktu Perdarahan Sebelum Perlakuan

ANOVA					
BleedingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4440.000	4	1110.000	1.233	.357
Within Groups	9000.000	10	900.000		
Total	13440.000	14			

Tabel 29. Data Penentuan Perbedaan Tiap Kelompok Waktu Perdarahan Menggunakan Metode Least Significant Difference Sebelum Perlakuan

Multiple Comparisons						
Dependent Variable: BleedingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	-10.000	24.495	.692	-64.58	44.58
	Polisakarida Sulfat 25 mg/kgBB	-20.000	24.495	.433	-74.58	34.58

	Polisakarida Sulfat 50 mg/kgBB	-50.000	24.495	.069	- 104.58	4.58
	Polisakarida Sulfat 100 mg/kgBB	-30.000	24.495	.249	-84.58	24.58
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	10.000	24.495	.692	-44.58	64.58
	Polisakarida Sulfat 25 mg/kgBB	-10.000	24.495	.692	-64.58	44.58
	Polisakarida Sulfat 50 mg/kgBB	-40.000	24.495	.134	-94.58	14.58
	Polisakarida Sulfat 100 mg/kgBB	-20.000	24.495	.433	-74.58	34.58
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	20.000	24.495	.433	-34.58	74.58
	Kontrol Negatif (NaCMC)	10.000	24.495	.692	-44.58	64.58
	Polisakarida Sulfat 50 mg/kgBB	-30.000	24.495	.249	-84.58	24.58
	Polisakarida Sulfat 100 mg/kgBB	-10.000	24.495	.692	-64.58	44.58
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	50.000	24.495	.069	-4.58	104.58
	Kontrol Negatif (NaCMC)	40.000	24.495	.134	-14.58	94.58
	Polisakarida Sulfat 25 mg/kgBB	30.000	24.495	.249	-24.58	84.58
	Polisakarida Sulfat 100 mg/kgBB	20.000	24.495	.433	-34.58	74.58
Polisakarida Sulfat 100	Kontrol Positif (Warfarin)	30.000	24.495	.249	-24.58	84.58

mg/kgBB	Kontrol Negatif (NaCMC)	20.000	24.495	.433	-34.58	74.58
	Polisakarida Sulfat 25 mg/kgBB	10.000	24.495	.692	-44.58	64.58
	Polisakarida Sulfat 50 mg/kgBB	-20.000	24.495	.433	-74.58	34.58

2.2 Waktu Perdarahan Hari Pertama

Tabel 30. Data Distribusi Kolmogorov–Smirnov Waktu Perdarahan Hari Pertama

One-Sample Kolmogorov-Smirnov Test		
	Perlakuan	BleedingTime
N	15	15
Normal Parameters ^{a,b}	Mean	3.00
	Std. Deviation	1.464
Most Extreme Differences	Absolute	.153
	Positive	.153
	Negative	-.153
Test Statistic	.153	.158
Asymp. Sig. (2-tailed)	.200 ^{c,d}	.200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

Tabel 31. Deskripsi Waktu Perdarahan Hari Pertama

Descriptives								
BleedingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	650.00	17.321	10.000	606.97	693.03	630	660
Kontrol Negatif (NaCMC)	3	620.00	34.641	20.000	533.95	706.05	600	660
Polisakarida Sulfat 25 mg/kgBB	3	640.00	45.826	26.458	526.16	753.84	600	690
Polisakarida Sulfat 50 mg/kgBB	3	640.00	45.826	26.458	526.16	753.84	600	690

Polisakarida Sulfat 100 mg/kgBB	3	690.00	30.000	17.321	615.48	764.52	660	720
Total	15	648.00	38.951	10.057	626.43	669.57	600	720

Tabel 32. Data Homogenitas Waktu Perdarahan Hari Pertama

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
BleedingTime	Based on Mean	.850	4	10	.525
	Based on Median	.292	4	10	.877
	Based on Median and with adjusted df	.292	4	8.000	.875
	Based on trimmed mean	.797	4	10	.554

Tabel 33. Data Analisis One Way Anova Waktu Perdarahan Hari Pertama

ANOVA					
BleedingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8040.000	4	2010.000	1.523	.268
Within Groups	13200.000	10	1320.000		
Total	21240.000	14			

Tabel 34. Data Penentuan Perbedaan Tiap Kelompok Waktu Perdarahan Menggunakan Metode Least Significant Difference Hari Pertama

Multiple Comparisons						
Dependent Variable: BleedingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	30.000	29.665	.336	-36.10	96.10
	Polisakarida Sulfat 25 mg/kgBB	10.000	29.665	.743	-56.10	76.10

	Polisakarida Sulfat 50 mg/kgBB	10.000	29.665	.743	-56.10	76.10
	Polisakarida Sulfat 100 mg/kgBB	-40.000	29.665	.207	-106.10	26.10
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	-30.000	29.665	.336	-96.10	36.10
	Polisakarida Sulfat 25 mg/kgBB	-20.000	29.665	.515	-86.10	46.10
	Polisakarida Sulfat 50 mg/kgBB	-20.000	29.665	.515	-86.10	46.10
	Polisakarida Sulfat 100 mg/kgBB	-70.000*	29.665	.040	-136.10	-3.90
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-10.000	29.665	.743	-76.10	56.10
	Kontrol Negatif (NaCMC)	20.000	29.665	.515	-46.10	86.10
	Polisakarida Sulfat 50 mg/kgBB	.000	29.665	1.000	-66.10	66.10
	Polisakarida Sulfat 100 mg/kgBB	-50.000	29.665	.123	-116.10	16.10
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-10.000	29.665	.743	-76.10	56.10
	Kontrol Negatif (NaCMC)	20.000	29.665	.515	-46.10	86.10
	Polisakarida Sulfat 25 mg/kgBB	.000	29.665	1.000	-66.10	66.10
	Polisakarida Sulfat 100 mg/kgBB	-50.000	29.665	.123	-116.10	16.10
Polisakarida Sulfat 100	Kontrol Positif (Warfarin)	40.000	29.665	.207	-26.10	106.10

mg/kgBB	Kontrol Negatif (NaCMC)	70.000 *	29.665	.040	3.90	136.10
	Polisakarida Sulfat 25 mg/kgBB	50.000	29.665	.123	-16.10	116.10
	Polisakarida Sulfat 50 mg/kgBB	50.000	29.665	.123	-16.10	116.10

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

2.3 Waktu Perdarahan Hari Ke Tujuh

Tabel 35. Data Distribusi Kolmogorov–Smirnov Waktu Perdarahan Hari Ke Tujuh

One-Sample Kolmogorov-Smirnov Test		
	Perlakuan	BleedingTime
N	15	15
Normal Parameters ^{a,b}	Mean	3.00
	Std. Deviation	1.464
Most Extreme Differences	Absolute	.153
	Positive	.153
	Negative	-.153
Test Statistic	.153	.167
Asymp. Sig. (2-tailed)	.200 ^{c,d}	.200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

Tabel 36. Deskripsi Waktu Perdarahan Hari Ke Tujuh

Descriptives								
BleedingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	740.00	62.450	36.056	584.87	895.13	690	810
Kontrol Negatif (NaCMC)	3	650.00	34.641	20.000	563.95	736.05	630	690
Polisakarida Sulfat 25 mg/kgBB	3	660.00	30.000	17.321	585.48	734.52	630	690
Polisakarida Sulfat 50 mg/kgBB	3	660.00	30.000	17.321	585.48	734.52	630	690

Polisakarida Sulfat 100 mg/kgBB	3	740.00	34.641	20.000	653.95	826.05	720	780
Total	15	690.00	54.380	14.041	659.89	720.11	630	810

Tabel 37. Data Homogenitas Waktu Perdarahan Hari Ke Tujuh

Test of Homogeneity of Variances						
		Levene Statistic	df1	df2	Sig.	
BleedingTime	Based on Mean	1.200	4	10	.369	
	Based on Median	.235	4	10	.912	
	Based on Median and with adjusted df	.235	4	6.964	.910	
	Based on trimmed mean	1.087	4	10	.414	

Tabel 38. Data Analisis One Way Anova Waktu Perdarahan Hari Ke Tujuh

ANOVA					
BleedingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25200.000	4	6300.000	3.889	.037
Within Groups	16200.000	10	1620.000		
Total	41400.000	14			

Tabel 39. Data Penentuan Perbedaan Tiap Kelompok Waktu Perdarahan Menggunakan Metode Least Significant Difference Hari Ke Tujuh

Multiple Comparisons						
Dependent Variable: BleedingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	90.000*	32.863	.021	16.78	163.22

	Polisakarida Sulfat 25 mg/kgBB	80.000 [*]	32.863	.035	6.78	153.22
	Polisakarida Sulfat 50 mg/kgBB	80.000 [*]	32.863	.035	6.78	153.22
	Polisakarida Sulfat 100 mg/kgBB	.000	32.863	1.000	-73.22	73.22
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	-90.000 [*]	32.863	.021	-163.22	-16.78
	Polisakarida Sulfat 25 mg/kgBB	-10.000	32.863	.767	-83.22	63.22
	Polisakarida Sulfat 50 mg/kgBB	-10.000	32.863	.767	-83.22	63.22
	Polisakarida Sulfat 100 mg/kgBB	-90.000 [*]	32.863	.021	-163.22	-16.78
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-80.000 [*]	32.863	.035	-153.22	-6.78
	Kontrol Negatif (NaCMC)	10.000	32.863	.767	-63.22	83.22
	Polisakarida Sulfat 50 mg/kgBB	.000	32.863	1.000	-73.22	73.22
	Polisakarida Sulfat 100 mg/kgBB	-80.000 [*]	32.863	.035	-153.22	-6.78
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-80.000 [*]	32.863	.035	-153.22	-6.78
	Kontrol Negatif (NaCMC)	10.000	32.863	.767	-63.22	83.22
	Polisakarida Sulfat 25 mg/kgBB	.000	32.863	1.000	-73.22	73.22

	Polisakarida Sulfat 100 mg/kgBB	-80.000*	32.863	.035	-153.22	-6.78
Polisakarida Sulfat 100 mg/kgBB	Kontrol Positif (Warfarin)	.000	32.863	1.000	-73.22	73.22
	Kontrol Negatif (NaCMC)	90.000*	32.863	.021	16.78	163.22
	Polisakarida Sulfat 25 mg/kgBB	80.000*	32.863	.035	6.78	153.22
	Polisakarida Sulfat 50 mg/kgBB	80.000*	32.863	.035	6.78	153.22

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

2.4 Waktu Perdarahan Hari Ke Empat Belas

Tabel 40. Data Distribusi Kolmogorov–Smirnov Waktu Perdarahan Hari Ke Empat Belas

One-Sample Kolmogorov-Smirnov Test			
		Perlakuan	BleedingTime
N		15	15
Normal Parameters ^{a,b}	Mean	3.00	734.00
	Std. Deviation	1.464	84.752
Most Extreme Differences	Absolute	.153	.118
	Positive	.153	.118
	Negative	-.153	-.106
Test Statistic		.153	.118
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

Tabel 41. Deskripsi Waktu Perdarahan Hari Ke Empat Belas

Descriptives								
BleedingTime								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol Positif (Warfarin)	3	830.00	86.603	50.000	614.87	1045.13	780	930
Kontrol Negatif (NaCMC)	3	660.00	79.373	45.826	462.83	857.17	600	750
Polisakarida Sulfat 25 mg/kgBB	3	720.00	79.373	45.826	522.83	917.17	660	810
Polisakarida Sulfat 50 mg/kgBB	3	710.00	62.450	36.056	554.87	865.13	660	780

Polisakarida Sulfat 100 mg/kgBB	3	750.00	51.962	30.000	620.92	879.08	720	810
Total	15	734.00	84.752	21.883	687.07	780.93	600	930

Tabel 42. Data Homogenitas Waktu Perdarahan Hari Ke Empat Belas

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
BleedingTime	Based on Mean	.505	4	10	.734
	Based on Median	.060	4	10	.992
	Based on Median and with adjusted df	.060	4	8.214	.992
	Based on trimmed mean	.429	4	10	.785

Tabel 43. Data Analisis One Way Anova Waktu Perdarahan Hari Ke Empat Belas

ANOVA					
BleedingTime					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	47160.000	4	11790.000	2.208	.141
Within Groups	53400.000	10	5340.000		
Total	100560.000	14			

Tabel 44. Data Penentuan Perbedaan Tiap Kelompok Waktu Perdarahan Menggunakan Metode Least Significant Difference Hari Ke Empat Belas

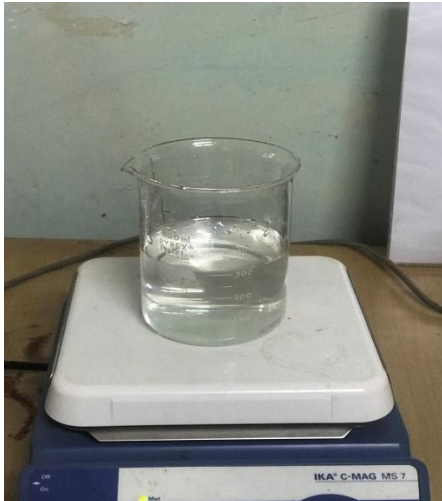
Multiple Comparisons						
Dependent Variable: BleedingTime						
LSD						
(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif (Warfarin)	Kontrol Negatif (NaCMC)	170.000*	59.666	.017	37.06	302.94

	Polisakarida Sulfat 25 mg/kgBB	110.000	59.666	.095	-22.94	242.94
	Polisakarida Sulfat 50 mg/kgBB	120.000	59.666	.072	-12.94	252.94
	Polisakarida Sulfat 100 mg/kgBB	80.000	59.666	.210	-52.94	212.94
Kontrol Negatif (NaCMC)	Kontrol Positif (Warfarin)	-170.000*	59.666	.017	-302.94	-37.06
	Polisakarida Sulfat 25 mg/kgBB	-60.000	59.666	.338	-192.94	72.94
	Polisakarida Sulfat 50 mg/kgBB	-50.000	59.666	.422	-182.94	82.94
	Polisakarida Sulfat 100 mg/kgBB	-90.000	59.666	.162	-222.94	42.94
Polisakarida Sulfat 25 mg/kgBB	Kontrol Positif (Warfarin)	-110.000	59.666	.095	-242.94	22.94
	Kontrol Negatif (NaCMC)	60.000	59.666	.338	-72.94	192.94
	Polisakarida Sulfat 50 mg/kgBB	10.000	59.666	.870	-122.94	142.94
	Polisakarida Sulfat 100 mg/kgBB	-30.000	59.666	.626	-162.94	102.94
Polisakarida Sulfat 50 mg/kgBB	Kontrol Positif (Warfarin)	-120.000	59.666	.072	-252.94	12.94
	Kontrol Negatif (NaCMC)	50.000	59.666	.422	-82.94	182.94

	Polisakarida Sulfat 25 mg/kgBB	-10.000	59.666	.870	-142.94	122.94
	Polisakarida Sulfat 100 mg/kgBB	-40.000	59.666	.518	-172.94	92.94
Polisakarida Sulfat 100 mg/kgBB	Kontrol Positif (Warfarin)	-80.000	59.666	.210	-212.94	52.94
	Kontrol Negatif (NaCMC)	90.000	59.666	.162	-42.94	222.94
	Polisakarida Sulfat 25 mg/kgBB	30.000	59.666	.626	-102.94	162.94
	Polisakarida Sulfat 50 mg/kgBB	40.000	59.666	.518	-92.94	172.94

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

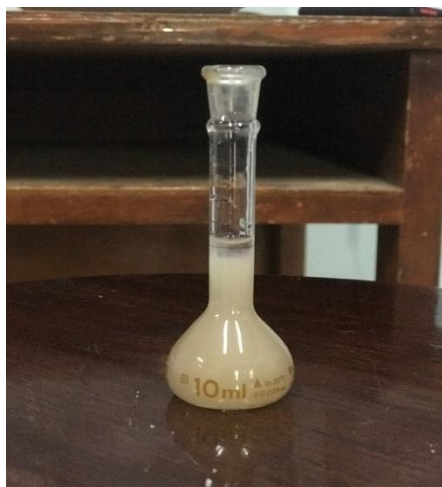
Lampiran 10
Dokumentasi Pengerjaan



Gambar 10. Pembuatan NaCMC



Gambar 11. Penimbangan bahan



Gambar 12. Pembuatan bahan



Gambar 13. Penimbangan dan pemberian tanda mencit



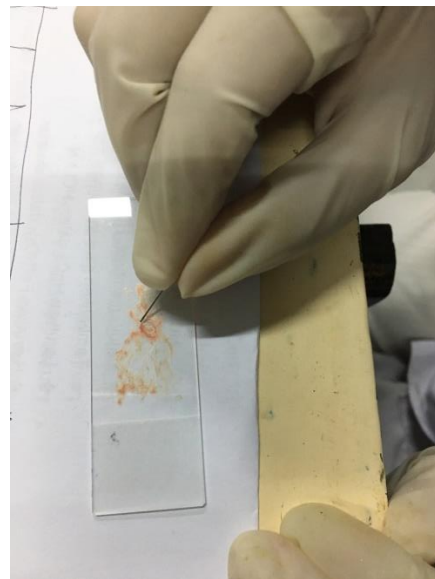
Gambar 14. Pemeriksaan oral



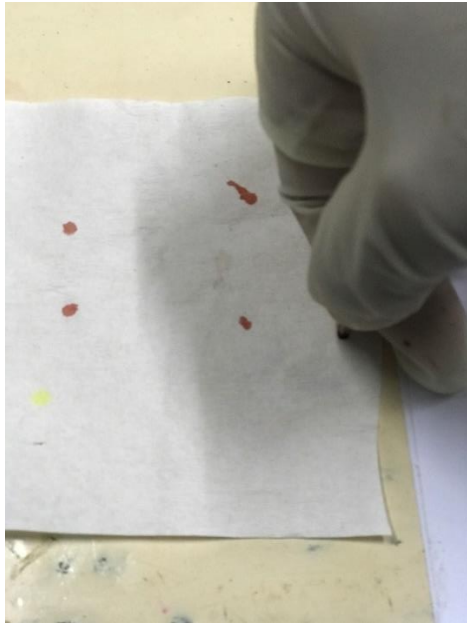
Gambar 15. Pemotongan ekor mencit



Gambar 16. Pengambilan darah mencit



Gambar 17. Uji waktu pembekuan darah




Gambar 18. Uji waktu perdarahan




Gambar 19. Darah mencit pada kertas saring

Lampiran 11

Rekomendasi Komisi Etik Penelitian dari Fakultas Kedokteran



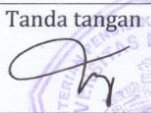

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.
Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431



REKOMENDASI PERSETUJUAN ETIK
Nomor : 75/UN4.6.4.5.31/ PP36/ 2021

Tanggal: 11 Februari 2021

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH21010031	No Sponsor Protokol	
Peneliti Utama	Andi Nurul Agustiani.S	Sponsor	
Judul Peneliti	Uji Aktivitas Antikoagulan Senyawa Polisakarida Sulfat dari Alga Coklat (Sargassum polycystum) Secara In Vivo		
No Versi Protokol	1	Tanggal Versi	21 Januari 2021
No Versi PSP		Tanggal Versi	
Tempat Penelitian	Laboratorium Fakultas Farmasi Universitas Hasanuddin Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 11 Februari 2021 sampai 11 Februari 2022	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian Kesehatan FKUH	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)	Tanda tangan 	
Sekretaris Komisi Etik Penelitian Kesehatan FKUH	Nama dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)	Tanda tangan 	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan