

Lampiran 1

SURAT PERMOHONAN IJIN PENELITIAN



KEMENTERIAN KESEHATAN REPUBLIK INDONESIA
BADAN PENGEMBANGAN DAN PEMBERDAYAAN
SUMBER DAYA MANUSIA KESEHATAN
POLITEKNIK KESEHATAN KEMENKES SURABAYA

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Surabaya, 31 Desember 2021

Nomor : PP.03.01/1/ 782 /2021
 Lampiran :
 Hal : Permohonan Penelitian mahasiswa Prodi Sarjana Terapan
Jurusan Teknologi Laboratorium Medis Poltekkes Kemenkes
Surabaya

Yth

Kepala Klinik Ultra Medica Ponorogo
 Jl. Batoro Katong 187A
 Ponorogo

Dengan Hormat,

Sehubungan dengan akan dilaksanakan Penelitian mahasiswa Prodi Sarjana Terapan Jurusan Teknologi Laboratorium Medis Poltekkes Kemenkes Surabaya, maka bersama ini kami mohon dapatnya diizinkan mahasiswa kami untuk menjalani Penelitian di Klinik Ultra Medica Ponorogo yang Bapak pimpin, Adapun mahasiswa yang kami maksud adalah :

Nama : Moh. Saiful Isslam
 NIM : P27834121077
 Judul Skripsi : Pengaruh Waktu Tunda Pemeriksaan Laju Endap
 Darah (Led) Metode Automatik dan Metode
 Westergren Modifikasi

Demikian atas perhatian bantuan dan perkenannya kami ucapkan terima kasih

An. Direktur Poltekkes Kemenkes Surabaya
 Ketua Jurusan Teknologi Laboratorium
 Medis Poltekkes Kemenkes Surabaya


 Drs. Edy Haryanto, M.Kes.
 NIP. 19640316 198302 1 001

Lampiran 2

SURAT IJIN PENELITIAN



**KLINIK UTAMA
ULTRA MEDICA**

Ponorogo, 15 Januari 2022

Nomor : 27/10/UM_PO/SPK/XI/2021
Lamp : -
Hal : Balasan Permohonan Penelitian

Kepada

Yth. Direktur Poltekkes Kemenkes Surabaya

cc. Ketua Jurusan Teknologi Laboratorium Poltekkes Kemenkes Surabaya

Di

Tempat

Dengan hormat,

Berdasarkan surat Nomor : PP.03.01/1/782/2021 tanggal 31 desember 2021 tentang Permohonan Penelitian di Klinik Utama Ultra Medica Cabang Ponorogo, kepada Mahasiswa sebagai berikut :

Nama : Moh. Saiful Isslam
NIM : P27834121077
Asal PT : Poltekkes Kemenkes Surabaya
Judul Penelitian : Pengaruh Waktu Tunda Pemeriksaan Laju Endap Darah (LED) Metode Automatik Dan Metode Westergren Modifikasi

Dengan ini kami sampaikan bahwa kepada mahasiswa tersebut diatas dapat kami terima untuk melaksanakan Penelitian di Klinik Utama Ultra Medica Cabang Ponorogo sebagaimana mestinya untuk digunakan penelitian.

Demikian surat ini kami sampaikan, atas perhatian dan kerjasamanya kami sampaikan terima kasih.

Hormat kami,

Pimpinan Cabang

Klinik Utama Ultra Medica



MUKANDAR

No	Kode Sampel	Jenis Kelamin	Laju Endap Darah (mm/jam)		
			Automatik		
			Segera	3 jam	6 jam
1	L1	P	14	11	8
2	L2	L	5	4	4
3	L3	L	4	4	5
4	L4	P	7	8	5
5	L5	L	10	12	5
6	L6	L	6	6	6
7	L7	P	10	13	11
8	L8	L	16	18	18
9	L9	P	12	12	11
10	L10	P	9	11	10
11	L11	L	9	8	7
12	L12	P	13	12	11
13	L13	L	16	19	19
14	L14	P	17	18	18
15	L15	P	13	15	15



KLINIK UTAMA

ULTRA MEDICA

No	Kode Sampel	Jenis Kelamin	Laju Endap Darah (mm/jam)		
			Westergren		
			Segera	3 jam	6 jam
1	L1	P	20	21	14
2	L2	L	16	10	8
3	L3	L	6	18	9
4	L4	P	11	27	12
5	L5	L	16	23	14
6	L6	L	10	10	4
7	L7	P	15	20	17
8	L8	L	22	24	21
9	L9	P	15	18	17
10	L10	P	15	16	18
11	L11	L	17	17	17
12	L12	P	25	28	26
13	L13	L	30	35	30
14	L14	P	29	37	30
15	L15	P	24	35	25

Nilai Rujukan :

Laki – laki : 0 – 10 mm/jam

Perempuan : 0 – 15 mm/jam

Mengetahui,
Dokter Penanggungjawab
Laboratorium



dr. Joko Siswantoro, Sp.PK

Lampiran 4

ANALISA DATA

Explore
LED

Case Processing Summary

	LED	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
Automatik	segera	15	100.0%	0	0.0%	15	100.0%
	3 jam	15	100.0%	0	0.0%	15	100.0%
	6 jam	15	100.0%	0	0.0%	15	100.0%

Descriptives

LED		Statistic		Std. Error	
Automatik	segera	Mean	10.7333	1.06667	
		95% Confidence Interval for Mean	Lower Bound	8.4456	
			Upper Bound	13.0211	
		5% Trimmed Mean	10.7593		
		Median	10.0000		
		Variance	17.067		
		Std. Deviation	4.13118		
		Minimum	4.00		
		Maximum	17.00		
		Range	13.00		
		Interquartile Range	7.00		
		Skewness	-.075	.580	
		Kurtosis	-1.090	1.121	
	3 jam	Mean	11.4000	1.24135	
		95% Confidence Interval for Mean	Lower Bound	8.7376	
			Upper Bound	14.0624	
		5% Trimmed Mean	11.3889		
		Median	12.0000		
		Variance	23.114		
		Std. Deviation	4.80773		
		Minimum	4.00		
		Maximum	19.00		
		Range	15.00		
		Interquartile Range	7.00		
		Skewness	.014	.580	
		Kurtosis	-.803	1.121	
	6 jam	Mean	10.2000	1.33880	
		95% Confidence Interval for Mean	Lower Bound	7.3286	
			Upper Bound	13.0714	
		5% Trimmed Mean	10.0556		
		Median	10.0000		
		Variance	26.886		
		Std. Deviation	5.18514		
		Minimum	4.00		
		Maximum	19.00		
		Range	15.00		
		Interquartile Range	10.00		
		Skewness	.571	.580	
		Kurtosis	-1.026	1.121	

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
LED		Statistic	df	Sig.	Statistic	df	Sig.
Automatik	segera	.108	15	.200*	.957	15	.639
	3 jam	.134	15	.200*	.943	15	.422
	6 jam	.172	15	.200*	.890	15	.067

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

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Automatik	Based on Mean	.331	2	42	.720
	Based on Median	.334	2	42	.718
	Based on Median and with adjusted df	.334	2	40.114	.718
	Based on trimmed mean	.319	2	42	.729

ANOVA

Automatik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10.844	2	5.422	.243	.786
Within Groups	938.933	42	22.356		
Total	949.778	44			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Automatik

LSD

(I) LED	(J) LED	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
segera	3 jam	-.66667	1.72648	.701	-4.1508	2.8175
	6 jam	.53333	1.72648	.759	-2.9508	4.0175
3 jam	segera	.66667	1.72648	.701	-2.8175	4.1508
	6 jam	1.20000	1.72648	.491	-2.2842	4.6842
6 jam	segera	-.53333	1.72648	.759	-4.0175	2.9508
	3 jam	-1.20000	1.72648	.491	-4.6842	2.2842

Explore LED

Case Processing Summary

	LED	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
Westergren	segera	15	100.0%	0	0.0%	15	100.0%
	3 jam	15	100.0%	0	0.0%	15	100.0%
	6 jam	15	100.0%	0	0.0%	15	100.0%

Descriptives

		LED		Statistic		Std. Error
Westergren	segera	Mean		18.0667		1.77675
			95% Confidence Interval for Mean	Lower Bound	14.2559	
				Upper Bound	21.8774	
		5% Trimmed Mean		18.0741		
		Median		16.0000		
		Variance		47.352		
		Std. Deviation		6.88131		
		Minimum		6.00		
		Maximum		30.00		
		Range		24.00		
		Interquartile Range		9.00		
		Skewness		.222		.580
		Kurtosis		-.505		1.121
	3 jam	Mean		22.6000		2.19263
			95% Confidence Interval for Mean	Lower Bound	17.8973	
				Upper Bound	27.3027	
		5% Trimmed Mean		22.5000		
		Median		21.0000		
		Variance		72.114		
		Std. Deviation		8.49201		
		Minimum		10.00		
		Maximum		37.00		
		Range		27.00		
		Interquartile Range		11.00		
		Skewness		.318		.580
		Kurtosis		-.689		1.121
	6 jam	Mean		17.4667		2.01628
			95% Confidence Interval for Mean	Lower Bound	13.1422	
				Upper Bound	21.7912	
		5% Trimmed Mean		17.5185		
		Median		17.0000		
		Variance		60.981		
		Std. Deviation		7.80903		
		Minimum		4.00		
		Maximum		30.00		
		Range		26.00		
		Interquartile Range		13.00		
		Skewness		.153		.580
		Kurtosis		-.658		1.121

Tests of Normality

	LED	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Westergren	segera	.162	15	.200*	.962	15	.730
	3 jam	.128	15	.200*	.943	15	.420
	6 jam	.139	15	.200*	.961	15	.712

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

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Westergren	Based on Mean	.289	2	42	.750
	Based on Median	.303	2	42	.741
	Based on Median and with adjusted df	.303	2	41.679	.741
	Based on trimmed mean	.285	2	42	.753

ANOVA

Westergren

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	236.311	2	118.156	1.964	.153
Within Groups	2526.267	42	60.149		
Total	2762.578	44			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Westergren

LSD

(I) LED	(J) LED	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
segera	3 jam	-4.53333	2.83194	.117	-10.2484	1.1818
	6 jam	.60000	2.83194	.833	-5.1151	6.3151
3 jam	segera	4.53333	2.83194	.117	-1.1818	10.2484
	6 jam	5.13333	2.83194	.077	-.5818	10.8484
6 jam	segera	-.60000	2.83194	.833	-6.3151	5.1151
	3 jam	-5.13333	2.83194	.077	-10.8484	.5818

Lampiran 5**FOTO PENELITIAN**

