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Tepi, *Skripsi*, Universitas Muhammadiyah Semarang

PERSETUJUAN PERBAIKAN SKRIPSI

Dosen Pembimbing dan Penguji dibawah ini telah menyetujui atas pebaikan naskah skripsi yang dilakukan oleh :

Nama :

Wawan Tri Mulyanto

NIM :

192509003

Prodi :

Biologi

JudulSkripsi : Jumlah Platelet dari Trombosit Concentrate yang di simpan pada variasi suhu dan lama penyimpanan berbeda

DOSEN PEMBIMBING

No	Nama	Tanda Tangan	Tanggal Persetujuan
1.	Prof. Dr. Tatang Sopandi, M.P.		

DOSEN PENGUJI

No	Nama	Tanda Tangan	Tanggal Persetujuan
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SURAT KETERANGAN

Nomor : 117 /02.06.02/UTD/VII/2021

Yang bertanda tangan di bawah ini :

Nama : dr. Septi Laily Rif'ati
Alamat : Kedensari RT. 18 RW. 06, Tanggulangin -
Sidoarjo
Jabatan : Kepala UTD PMI Kabupaten Sidoarjo

Menerangkan bahwa :

Nama Mahasiswa di bawah ini :

1. Wawan Tri Mulyanto

Judul Penelitian: Jumlah Platelet dari Trombosit
Concentrate yang disimpan pada variasi suhu dan
lama penyimpanan berbeda

Telah melaksanakan Penelitian di UTD PMI Kabupaten
Sidoarjo pada 02 s.d. 07 Juli 2021.

Demikian Surat Keterangan ini dibuat dengan sebenarnya,
untuk dapat dipergunakan sebagaimana mestinya.

Sidoarjo, 10 Juli 2021
Unit Transfusi Darah
PALANG MERAH INDONESIA
Kabupaten Sidoarjo
Kepala


dr. Septi Laily Rif'ati

1.	Dr.Dra.Sukarjati,M.Kes		
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LAMPIRAN





S9630685B		
HARI KE-	SUHU	RATA-RATA JUMLAH PLATELET TROMBOSIT CONCENTRAT
		S9630685B
Hari ke-0	0	77,33
Hari ke-1	2 s/d 6°C	66,33
	20 s/d 24°C	79,03
	-18 s/d -22°C	53
Hari ke-3	2 s/d 6°C	61,23
	20 s/d 24°C	77,2
	-18 s/d -22°C	53
Hari ke-5	2 s/d 6°C	54,33
	20 s/d 24°C	74,07
	-18 s/d -22°C	50,7

S9635508B		
HARI KE-	SUHU	RATA-RATA JUMLAH PLATELET TROMBOSIT CONCENTRAT
		S9635508B
Hari ke-0	0	74,33
Hari ke-1	2 s/d 6°C	58,33
	20 s/d 24°C	74,77
	-18 s/d -22°C	52,33
Hari ke-3	2 s/d 6°C	52,67
	20 s/d 24°C	73,67
	-18 s/d -22°C	51,2
Hari ke-5	2 s/d 6°C	43,33
	20 s/d 24°C	71,67
	-18 s/d -22°C	48

S9632450B		
HARI KE-	SUHU	RATA-RATA JUMLAH PLATELET TROMBOSIT CONCENTRAT
		S9632450B
Hari ke-0	0	64,33
Hari ke-1	2 s/d 6°C	48
	20 s/d 24°C	64,67
	-18 s/d -22°C	44,67
Hari ke-3	2 s/d 6°C	39,67
	20 s/d 24°C	61,67
	-18 s/d -22°C	42,67
Hari ke-5	2 s/d 6°C	35,67
	20 s/d 24°C	60,43
	-18 s/d -22°C	40,67

S9638720B		
HARI KE-	SUHU	RATA-RATA JUMLAH PLATELET TROMBOSIT CONCENTRAT
		S9638720B
Hari ke-0	0	116,33
Hari ke-1	2 s/d 6°C	79
	20 s/d 24°C	117,67
	-18 s/d -22°C	86,67
Hari ke-3	2 s/d 6°C	67
	20 s/d 24°C	113
	-18 s/d -22°C	84,33
Hari ke-5	2 s/d 6°C	60,33
	20 s/d 24°C	108,93
	-18 s/d -22°C	79,67

F4770002B		
HARI KE-	SUHU	RATA-RATA JUMLAH PLATELET TROMBOSIT CONCENTRAT
		F4770002B
Hari ke-0	0	107,33
Hari ke-1	2 s/d 6°C	80,33
	20 s/d 24°C	109
	-18 s/d -22°C	75,67
Hari ke-3	2 s/d 6°C	67
	20 s/d 24°C	107,67
	-18 s/d -22°C	73,33
Hari ke-5	2 s/d 6°C	57,33
	20 s/d 24°C	103,5
	-18 s/d -22°C	72,67

Between-Subjects Factors

		N
lama	1.00	15
	3.00	15
	5.00	15
Suhu	-18.00	15
	2.00	15
	20.00	15

Descriptive Statistics

Dependent Variable: Trombosit

lama	Suhu	Mean	Std. Deviation	N
1.00	-18.00	62.4680	17.81306	5
	2.00	66.3980	13.75222	5
	20.00	89.0880	22.96672	5
	Total	72.6513	21.04492	15
3.00	-18.00	61.9720	15.97368	5
	2.00	57.5140	11.57205	5
	20.00	86.6420	22.46078	5
	Total	68.7093	20.76358	15
5.00	-18.00	58.3420	16.86588	5
	2.00	50.1920	10.34893	5
	20.00	83.7200	21.25760	5
	Total	64.0847	21.43333	15

Total	-18.00	60.9273	15.76259	15
	2.00	58.0347	13.03612	15
	20.00	86.4833	20.71507	15
Total		68.4818	20.89977	45

Tests of Between-Subjects Effects

Dependent Variable: Trombosit

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	7905.590 ^a	4	1976.397	6.988	.000
Intercept	211038.925	1	211038.925	746.141	.000
lama	551.573	2	275.787	.975	.386
Suhu	7354.016	2	3677.008	13.000	.000
Error	11313.618	40	282.840		
Total	230258.133	45			
Corrected Total	19219.208	44			

a. R Squared = .411 (Adjusted R Squared = .352)

Trombosit

Tukey HSD^{a,b}

lama	N	Subset
		1
5.00	15	64.0847
3.00	15	68.7093
1.00	15	72.6513
Sig.		.353

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 282.840.

a. Uses Harmonic Mean Sample

Size = 15.000.

b. Alpha = .05.

Trombosit

Tukey HSD^{a,b}

Suhu	N	Subset	
		1	2
2.00	15	58.0347	
-18.00	15	60.9273	
20.00	15		86.4833
Sig.		.885	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 282.840.

a. Uses Harmonic Mean Sample Size =

15.000.

b. Alpha = .05.

Tabel Hasil uji statistik

UNIANOVA JUMLAH_PLATELET_TROMBOSIT BY HARI_K
E SUHU

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/POSTHOC=HARI_KE SUHU(DUNCAN LSD)

/EMMEANS=TABLES(HARI_KE) COMPARE ADJ(LSD)

/EMMEANS=TABLES(SUHU) COMPARE ADJ(LSD)

/EMMEANS=TABLES(HARI_KE*SUHU)

/PRINT=HOMOGENEITY DESCRIPTIVE

/CRITERIA=ALPHA(.05)

/DESIGN=HARI_KE SUHU HARI_KE*SUHU.

Univariate Analysis of Variance

Notes

Output Created		09-Jul-2021 18:15:45
Comments		
Input	Active Dataset	DataSet0
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	N of Rows in Working Data File	150
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax

```

UNIANOVA
JUMLAH_PLATELET_TROMBOSIT
BY HARI_KE SUHU
/METHOD=SSTYPE(3)
/INTERCEPT=INCLUDE
/POSTHOC=HARI_KE
SUHU(DUNCAN LSD)
/EMMEANS=TABLES(HARI_KE)
COMPARE ADJ(LSD)
/EMMEANS=TABLES(SUHU)
COMPARE ADJ(LSD)

/EMMEANS=TABLES(HARI_KE*SU
HU)
/PRINT=HOMOGENEITY
DESCRIPTIVE
/CRITERIA=ALPHA(.05)
/DESIGN=HARI_KE          SUHU
HARI_KE*SUHU.

```

Resources

Processor
Time

00:00:00.172

Elapsed Time

00:00:00.112

[DataSet0]

Between-Subjects Factors

		Value Label	N
HARI_KE	0		15
	1		45
	3		45
	5		45
			45
SUHU	0		15
	1	2 s/d 6 derajat celcius	45
	2	20 s/d 24 derajat celcius	45
	3	-18 s/d -22 derajat celcius	45

Descriptive Statistics

Dependent Variable: JUMLAH_PLATELET_TROMBOSIT

HARI_KE	SUHU	Mean	Std. Deviation	N
0	0	87.933	20.9164	15
	Total	87.933	20.9164	15
1	2 s/d 6 derajat celcius	66.400	12.8330	15
	20 s/d 24 derajat celcius	89.027	21.3104	15
	-18 s/d -22 derajat celcius	62.467	16.6642	15
	Total	72.631	20.6241	45
3	2 s/d 6 derajat celcius	57.513	10.7675	15
	20 s/d 24 derajat celcius	86.640	20.8721	15
	-18 s/d -22 derajat celcius	60.907	16.0449	15
	Total	68.353	20.7456	45
5	2 s/d 6 derajat celcius	50.200	9.7263	15
	20 s/d 24 derajat celcius	83.687	19.7057	15
	-18 s/d -22 derajat celcius	58.340	15.6750	15
	Total	64.076	20.9713	45
Total	0	87.933	20.9164	15
	2 s/d 6 derajat celcius	58.038	12.8166	45
	20 s/d 24 derajat celcius	86.451	20.2866	45
	-18 s/d -22 derajat celcius	60.571	15.8559	45
	Total	70.311	21.6672	150

Levene's Test of Equality of Error Variances^a

Dependent

Variable:JUMLAH_PLATELET_TROMBOSIT

F	df1	df2	Sig.
6.919	9	140	.000

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + HARI_KE + SUHU +
HARI_KE * SUHU

Tests of Between-Subjects Effects

Dependent

Variable:JUMLAH_PLATELET_TROMBOSIT

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	29747.639 ^a	9	3305.293	11.510	.000
Intercept	698870.994	1	698870.994	2.434E3	.000
HARI_KE	1646.944	2	823.472	2.868	.060
SUHU	22252.645	2	11126.323	38.745	.000
HARI_KE * SUHU	672.468	4	168.117	.585	.674
Error	40203.132	140	287.165		
Total	811503.310	150			
Corrected Total	69950.771	149			

a. R Squared = ,425 (Adjusted R Squared = ,388)

Post Hoc Tests
SUHU

Multiple Comparisons

Dependent
Variable:JUMLAH_P
LATELET_TROMB
OSIT

	(I) SUHU (J) SUHU	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
LSD	0 2 s/d 6 derajat celcius	29.896*	5.0523	.000	19.907	39.884
	20 s/d 24 derajat celcius	1.482	5.0523	.770	-8.506	11.471
	-18 s/d -22 derajat celcius	27.362*	5.0523	.000	17.374	37.351
	2 s/d 6 0 derajat celcius	-29.896*	5.0523	.000	-39.884	-19.907
	20 s/d 24 derajat celcius	-28.413*	3.5725	.000	-35.476	-21.350
	-18 s/d -22 derajat celcius	-2.533	3.5725	.479	-9.596	4.530
	20 s/d 0 24 derajat celcius	-1.482	5.0523	.770	-11.471	8.506
	2 s/d 6 derajat celcius	28.413*	3.5725	.000	21.350	35.476
	-18 s/d -22 derajat celcius	25.880*	3.5725	.000	18.817	32.943
	-18 s/d 0	-27.362*	5.0523	.000	-37.351	-17.374

-22 derajat celcius	2 s/d derajat celcius	6	2.533	3.5725	.479	-4.530	9.596
	20 s/d derajat celcius	24	-25.880*	3.5725	.000	-32.943	-18.817

Based on observed means.

The error term is
Mean Square(Error) =
287,165.

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

Homogeneous Subsets

JUMLAH_PLATELET_TROMBOSIT

SUHU		N	Subset	
			1	2
Duncan ^a	2 s/d 6 derajat celcius	45	58.038	
	-18 s/d -22 derajat celcius	45	60.571	
	20 s/d 24 derajat celcius	45		86.451
	0	15		87.933
	Sig.		.564	.735

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 287,165.

HARI_KE**Multiple Comparisons**

Dependent Variable:JUMLAH_PLATELET_TROMBOSIT

	(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	0	1	15.302*	5.0523	.003	5.314	25.291
		3	19.580*	5.0523	.000	9.591	29.569
		5	23.858*	5.0523	.000	13.869	33.846
	1	0	-15.302*	5.0523	.003	-25.291	-5.314
		3	4.278	3.5725	.233	-2.785	11.341
		5	8.556*	3.5725	.018	1.492	15.619
	3	0	-19.580*	5.0523	.000	-29.569	-9.591
		1	-4.278	3.5725	.233	-11.341	2.785
		5	4.278	3.5725	.233	-2.785	11.341
5	0	-23.858*	5.0523	.000	-33.846	-13.869	
	1	-8.556*	3.5725	.018	-15.619	-1.492	
	3	-4.278	3.5725	.233	-11.341	2.785	

Based on observed means.

The error term is Mean Square(Error) = 287,165.

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

Homogeneous Subsets

JUMLAH_PLATELET_TROMBOSIT

HARI_KE	N	Subset	
		1	2
Duncan ^a 5	45	64.076	
3	45	68.353	
1	45	72.631	
0	15		87.933
Sig.		.066	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 287,165.

a. Uses Harmonic Mean Sample Size = 30,000.

Estimated Marginal Means

3. HARI_KE * SUHU

Dependent Variable:JUMLAH_PLATELET_TROMBOSIT

HARI_KE		Mean	Std. Error	95% Confidence Interval	
SUHU	Lower Bound			Upper Bound	
0	0	87.933	4.375	79.283	96.584
	2 s/d 6 derajat celcius	. ^a	.	.	.
	20 s/d 24 derajat celcius	. ^a	.	.	.
	-18 s/d -22 derajat celcius	. ^a	.	.	.
1	0	. ^a	.	.	.
	2 s/d 6 derajat celcius	66.400	4.375	57.750	75.050
	20 s/d 24 derajat celcius	89.027	4.375	80.376	97.677
	-18 s/d -22 derajat celcius	62.467	4.375	53.816	71.117
3	0	. ^a	.	.	.
	2 s/d 6 derajat celcius	57.513	4.375	48.863	66.164
	20 s/d 24 derajat celcius	86.640	4.375	77.990	95.290
	-18 s/d -22 derajat celcius	60.907	4.375	52.256	69.557
5	0	. ^a	.	.	.
	2 s/d 6 derajat celcius	50.200	4.375	41.550	58.850
	20 s/d 24 derajat celcius	83.687	4.375	75.036	92.337
	-18 s/d -22 derajat celcius	58.340	4.375	49.690	66.990

a. This level combination of factors is not observed, thus the corresponding population marginal mean is not estimable.

2. SUHU

Estimates

Dependent Variable:JUMLAH_PLATELET_TROMBOSIT

SUHU	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
0	87.933 ^a	4.375	79.283	96.584
2 s/d 6 derajat celcius	58.038 ^a	2.526	53.043	63.032
20 s/d 24 derajat celcius	86.451 ^a	2.526	81.457	91.445
-18 s/d -22 derajat celcius	60.571 ^a	2.526	55.577	65.565

a. Based on modified population marginal mean.

Pairwise Comparisons

Dependent
Variable:JUMLAH_PLATELE
T_TROMBOSIT

(I) SUHU	(J) SUHU	Mean Difference (I-J)	Std. Error	Sig. ^c	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
0	2 s/d 6 derajat celcius	29.896 ^{*,a,t}	5.052	.000	19.907	39.884
	20 s/d 24 derajat celcius	1.482 ^{a,t}	5.052	.770	-8.506	11.471
	-18 s/d -22 derajat celcius	27.362 ^{*,a,t}	5.052	.000	17.374	37.351
2 s/d 6 derajat celcius	0	-29.896 ^{*,a,b}	5.052	.000	-39.884	-19.907
	20 s/d 24 derajat celcius	-28.413 ^{*,a,b}	3.573	.000	-35.476	-21.350
	-18 s/d -22 derajat celcius	-2.533 ^{a,b}	3.573	.479	-9.596	4.530
20 s/d 24 derajat celcius	0	-1.482 ^{a,b}	5.052	.770	-11.471	8.506
	2 s/d 6 derajat celcius	28.413 ^{*,a,t}	3.573	.000	21.350	35.476
	-18 s/d -22 derajat celcius	25.880 ^{*,a,t}	3.573	.000	18.817	32.943
-18 s/d -22 derajat celcius	0	-27.362 ^{*,a,b}	5.052	.000	-37.351	-17.374
	2 s/d 6 derajat celcius	2.533 ^{a,t}	3.573	.479	-4.530	9.596
	20 s/d 24 derajat celcius	-25.880 ^{*,a,b}	3.573	.000	-32.943	-18.817

Based on estimated marginal
means

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

a. An estimate of the modified population
marginal mean (I).

b. An estimate of the modified population
marginal mean (J).

c. Adjustment for multiple comparisons: Least Significant Difference (equivalent
to no adjustments).

Univariate Tests

Dependent

Variable:JUMLAH_PLATELET_TROMBOSIT

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	27428.227	3	9142.742	31.838	.000
Error	40203.132	140	287.165		

The F tests the effect of SUHU. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

1. HARI_KE

Estimates

Dependent Variable:JUMLAH_PLATELET_TROMBOSIT

HARI_KE	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
0	87.933 ^a	4.375	79.283	96.584
1	72.631 ^a	2.526	67.637	77.625
3	68.353 ^a	2.526	63.359	73.348
5	64.076 ^a	2.526	59.081	69.070

a. Based on modified population marginal mean.

Pairwise Comparisons

Dependent Variable:JUMLAH_PLATELET_TROMBOSIT

(I) HARI_KE	(J) HARI_KE	Mean Difference (I-J)	Std. Error	Sig. ^c	95% Confidence Interval for Difference ^e	
					Lower Bound	Upper Bound
0	1	15.302 ^{*,a,b}	5.052	.003	5.314	25.291
	3	19.580 ^{*,a,b}	5.052	.000	9.591	29.569
	5	23.858 ^{*,a,b}	5.052	.000	13.869	33.846
1	0	-15.302 ^{*,a,b}	5.052	.003	-25.291	-5.314
	3	4.278 ^{a,b}	3.573	.233	-2.785	11.341
	5	8.556 ^{*,a,b}	3.573	.018	1.492	15.619
3	0	-19.580 ^{*,a,b}	5.052	.000	-29.569	-9.591
	1	-4.278 ^{a,b}	3.573	.233	-11.341	2.785
	5	4.278 ^{a,b}	3.573	.233	-2.785	11.341
5	0	-23.858 ^{*,a,b}	5.052	.000	-33.846	-13.869
	1	-8.556 ^{*,a,b}	3.573	.018	-15.619	-1.492
	3	-4.278 ^{a,b}	3.573	.233	-11.341	2.785

Based on estimated marginal means

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

a. An estimate of the modified population marginal mean (I).

b. An estimate of the modified population marginal mean (J).

c. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Univariate Tests

Dependent

Variable:JUMLAH_PLATELET_TROMBOSIT

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	6822.526	3	2274.175	7.919	.000
Error	40203.132	140	287.165		

The F tests the effect of HARI_KE. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.