

LAMPIRAN A
SURAT SERTIFIKASI TIKUS PUTIH JANTAN

CV.SURABAYA MOUSE SERVICE

Wedoro masjid 20e RT : 01 RW : 05

Wedoro -Waru-Sidoarjo

Telp : 081938310682 – 085731276778

Yang bertanda tangan dibawah ini :

Nama : M.Syamsul Bahri,S.Kom

Selaku penanggung jawab pengembangan hewan percobaan menerangkan bahwa yang di gunakan pada penelitian :

Peneiliti : Lenny Luciana

Penelitian : Efek Fraksi Air Ekstrak Etanol Daun Teh Hijau
(Camellia Sinesis (L) O.K) Pada Penurunan Nafsu Makan
Dan Berat Badan Tikus Putih.

Fakultas : Farmasi Universitas Katolik Wdya Mandala Surabaya

NRP : 2443008152

Hewan uji yang digunakan dengan spesifikasi :

Tikus galur : Wistar

Umur : 3 Bulan (150 - 170 Gram)

Kelamin : Jantan

Jumlah : 29 Ekor

Demikian Surat keterangan ini dibuat untuk digunakan dengan sebaik-baiknya

Sidoarjo, 21 Januari 2012
penanggung jawab



M. Syamsul Bahri, S. Kom

LAMPIRAN B
HASIL PARAMETER SIMPLISIA

Hasil Perhitungan Penetapan Susut Pengeringan Serbuk

Replikasi	Hasil susut pengeringan
1	8 %
2	8,7 %
3	8,5 %
Rata-rata	8,4 %

$$\text{Rata-rata : } \frac{8\% + 8,7\% + 8,5\%}{3} = 8,4\%$$

Hasil Perhitungan Penetapan Kadar Abu Serbuk

No	W (krus kosong) (gram)	W (bahan) (gram)	W (krus + abu) (gram)	% Kadar Abu
1	18,0489	2,0085	18,1629	5,67
2	17,7892	2,0039	17,8902	5,04
3	17,4125	2,0068	17,5321	5,95
Rata-rata				5,55

$$\text{Rata-rata : } \frac{5,67\% + 5,04\% + 5,95\%}{3} = 5,55\%$$

Hasil Perhitungan Penetapan Kadar Air Serbuk

Replikasi	Hasil susut pengeringan
1	7,41 %
2	7,99 %
3	7,16 %
Rata-rata	7,52 %

$$\text{Rata-rata : } \frac{7,41\% + 7,99\% + 7,16\%}{3} = 7,52\%$$

Hasil Perhitungan Penetapan Kadar Abu Ekstrak

No	W (krus kosong) (gram)	W (bahan) (gram)	W (krus + abu) (gram)	% Kadar Abu
1	21,4230	2,0019	21,4992	3,80
2	21,2908	2,0071	21,3695	3,92
3	21,3961	2,0089	21,4806	4,20
Rata-rata				3,97

$$\text{Rata-rata : } \frac{3,80\% + 3,92\% + 4,20\%}{3} = 3,97\%$$

Hasil Perhitungan Kadar Sari Larut Etanol

No	Berat cawan + ekstrak setelah diuapkan	Berat cawan kosong	Berat serbuk	Kadar Sari Larut Etanol (%)
1	48,7096	48,2034	5,0021	10,11
2	47,8296	47,3598	5,0009	9,39
3	54,6071	54,0857	5,0027	10,42
Rata-rata				9,97

$$\text{Rata-rata : } \frac{10,11\% + 9,39\% + 10,42\%}{3} = 9,97\%$$

Hasil Perhitungan Kadar Sari Larut Air

No	Berat cawan + ekstrak setelah diuapkan	Berat cawan kosong	Berat serbuk	Kadar Sari Larut Etanol (%)
1	52,0218	51,5122	5,0010	10,18
2	48,9212	48,3827	5,0005	10,76
3	46,4837	46,0204	5,0012	9,26
Rata-rata				10,06

$$\text{Rata-rata : } \frac{10,18\% + 10,76\% + 9,26\%}{3} = 10,06\%$$

Hasil Perhitungan Randemen Ekstrak

$$\frac{\text{berat ekstrak kental}}{\text{berat serbuk}} \times 100\%$$

berat serbuk

$$= \frac{626,81}{1000} \times 100\% = 16,5095\%$$

**Hasil Perhitungan Harga Rf pada Pemeriksaan secara KLT
dengan Pelarut etil asetat P : metil etil keton P : asam format P : air
(50 : 30 : 10 : 10)**

Contoh perhitungan :Rf : $\frac{\text{jarak yang ditempuh oleh zat}}{\text{jarak yang ditempuh oleh fase gerak}}$

Pada $\lambda 254$ nm = 1. $Rf = \frac{5}{8} = 0,625$

2. $Rf = \frac{4,7}{8} = 0,5875$

3. $Rf = \frac{4,6}{8} = 0,575$

4. $Rf = \frac{4,9}{8} = 0,61$

5. $Rf = \frac{4,9}{8} = 0,61$

Pada $\lambda 366$ nm = 1. $Rf = \frac{5}{8} = 0,625$

2. $Rf = \frac{4,7}{8} = 0,5875$

3. $Rf = \frac{4,6}{8} = 0,575$

4. $Rf = \frac{4,9}{8} = 0,61$

5. $Rf = \frac{4,9}{8} = 0,61$

LAMPIRAN C
PERHITUNGAN KONSENTRASI SUSPENSI FRAKSI AIR

$$\text{Konsentrasi} = \frac{\text{Dosis} \times \text{berat badan tikus}}{\text{Volume Pemberian} \times 1000}$$

I. Konsentrasi

$$= \frac{2,0\text{g} \times 100\text{g}}{1 \text{ ml} \times 1000}$$
$$= 0,2 \text{ g/ml}$$
$$= 20 \text{ g/100 ml}$$
$$= 20 \% \text{ b/v}$$

II. Konsentrasi

$$= \frac{2,5\text{g} \times 100\text{g}}{1 \text{ ml} \times 1000}$$
$$= 0,25 \text{ g/ml}$$
$$= 25 \text{ g/100 ml}$$
$$= 25 \% \text{ b/v}$$

III. Konsentrasi

$$= \frac{3,0\text{g} \times 100\text{g}}{1 \text{ ml} \times 1000}$$
$$= 0,3 \text{ g/ml}$$
$$= 30 \text{ g/100 ml}$$
$$= 30 \% \text{ b/v}$$

LAMPIRAN D

HASIL RERATA JUMLAH MAKANAN TIKUS TIAP KELOMPOK

1. Hasil Penimbangan Jumlah Makanan (g) Tikus Putih yang Diberi Suspensi PGA 3% K(-) Secara Oral

No. Tikus	Jumlah Makanan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	31	30	32	31	33	34
2	28	29	31	32	29	31
3	29	28	28	29	30	30
4	27	30	33	31	27	30
5	35	33	35	33	33	35
Rerata	20,0 ±	19,4 ±	19,2 ±	19,0 ±	19,0 ±	19,4 ±
± SD	0,00	0,54	0,83	1,00	1,41	0,89

2. Hasil Penimbangan Jumlah Makanan (g) Tikus Putih yang Diberi Suspensi Fraksi Air Ekstrak Etanol Daun Teh Hijau 2,0 g/Kg BB (F1) Secara Oral

No. Tikus	Jumlah Makanan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	27	28	26	26	28	29
2	28	26	28	26	29	27
3	31	31	27	24	27	30
4	29	26	26	25	28	31
5	33	29	28	24	28	29
Rerata	20,0 ±	19,2 ±	18,6 ±	18,6 ±	19,0 ±	18,8 ±
± SD	0,00	0,83	1,67	1,67	1,00	1,30

3. Hasil Penimbangan Jumlah Makanan (g) Tikus Putih yang Diberi Suspensi Fraksi Air Ekstrak Etanol Daun Teh Hijau 2,5 g/Kg BB (F2) Secara Oral

No. Tikus	Jumlah Makanan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	29	25	23	23	26	29
2	34	29	28	25	27	29
3	26	27	27	25	28	31
4	27	25	28	26	30	31
5	28	27	26	25	28	30
Rerata ± SD	20,0 ± 0,00	19,2 ± 0,83	19,0 ± 1,22	19,4 ± 0,89	18,4 ± 1,51	19,2 ± 0,83

4. Hasil Penimbangan Jumlah Makanan (g) Tikus Putih yang Diberi Suspensi Fraksi Air Ekstrak Etanol Daun Teh Hijau 3,0 g/Kg BB (F3) Secara Oral

No. Tikus	Jumlah Makanan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	30	26	28	27	29	32
2	32	28	25	24	27	30
3	28	26	24	25	28	30
4	36	32	30	29	27	29
5	33	28	28	26	30	33
Rerata ± SD	20,0 ± 0,00	18,4 ± 2,07	19,4 ± 0,54	18,4 ± 1,34	19,2 ± 1,30	19,8 ± 0,44

5. Hasil Penimbangan Jumlah Makanan (g) Tikus Putih yang Diberi Suspensi Orlistat 0,0108 g/kg BB K(+) Secara Oral

No. Tikus	Jumlah Makanan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	29	27	24	25	28	26
2	30	26	25	23	27	30
3	28	26	24	23	26	31
4	36	32	29	26	30	32
5	34	31	30	28	26	29
Rerata ± SD	20,0 ± 0,00	19,0 ± 1,00	19,2 ± 0,83	18,4 ± 1,14	18,0 ± 1,22	19,2 ± 0,83

LAMPIRAN E

HASIL RERATA BERAT BADAN TIKUS TIAP KELOMPOK

- A. Hasil Penimbangan Berat Badan (g) Tikus Putih yang Diberi Suspensi PGA 3% K(-) Secara Oral

No. Tikus	Berat Badan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	235	237	232	227	229	235
2	222	228	228	232	230	230
3	228	235	231	235	235	238
4	231	238	234	230	231	233
5	236	241	237	233	233	234
Rerata	230,4	235,8	232,4	231,4	231,6	234,0
± SD	± 5,68	± 4,86	± 3,36	± 3,04	± 2,40	± 2,91

- B. Hasil Penimbangan Berat Badan (g) Tikus Putih yang Diberi Suspensi Fraksi Air Ekstrak Etanol Daun Teh Hijau 2,0 g/Kg BB (F1) Secara Oral

No. Tikus	Berat Badan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	222	221	221	218	222	231
2	227	224	222	215	218	228
3	226	222	218	220	226	234
4	230	225	220	215	219	231
5	234	229	223	222	225	236
Rerata	227,8	224,2	220,8	218,0	222,0	232,0
± SD	± 4,49	± 3,11	± 1,92	± 3,08	± 3,53	± 3,08

- C. Hasil Penimbangan Berat Badan (g) Tikus Putih yang Diberi Suspensi Fraksi Air Ekstrak Etanol Daun Teh Hijau 2,5 g/Kg BB (F2) Secara Oral

No. Tikus	Berat Badan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	223	219	221	214	217	225
2	232	225	220	220	224	232
3	241	235	231	225	225	238
4	225	227	223	218	221	229
5	228	220	219	221	223	232
Rerata	229,8	225,2	222,8	219,6	222,0	231,2
± SD	± 7,12	± 6,41	± 4,81	± 4,03	± 3,16	± 4,76

- D. Hasil Penimbangan Berat Badan (g) Tikus Putih yang Diberi Suspensi Fraksi Air Ekstrak Etanol Daun Teh Hijau 3,0 g/Kg BB (F3) Secara Oral

No. Tikus	Berat Badan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	233	226	219	207	214	234
2	240	233	226	220	228	243
3	230	225	221	213	224	232
4	229	222	218	209	216	231
5	229	221	216	216	224	235
Rerata	232,2	225,4	220,0	213,0	221,2	235,0
± SD	± 4,65	± 4,72	± 3,80	± 5,24	± 5,93	± 4,74

- E. Hasil Penimbangan Berat Badan (g) Tikus Putih yang Diberi Suspensi Orlistat 0,0108 g/kg BB K(+) Secara Oral

No. Tikus	Berat Badan (gram)					
	H-0	H-3	H-6	H-9	H-12	H-15
1	229	224	218	207	212	230
2	230	225	220	215	222	232
3	225	219	217	214	226	234
4	232	225	220	224	230	240
5	227	223	222	217	225	233
Rerata	228,6	223,2	219,4	215,4	223,0	233,8
± SD	± 2,70	± 2,48	± 1,94	± 6,10	± 6,78	± 3,76

LAMPIRAN F

PENIMBANGAN JUMLAH MAKANAN TIKUS PUTIH SELAMA 15 HARI

Hari		Jumlah Makan (gram)															
		H-0	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	H-14	H-15
K (-)	1	31	30	30	30	30	31	32	30	30	31	32	32	33	33	34	34
	2	28	27	26	29	30	30	31	31	30	32	30	29	29	30	31	31
	3	29	27	27	28	29	28	28	29	29	29	30	31	30	29	29	30
	4	27	26	28	30	31	32	33	35	33	31	28	27	27	28	29	30
	5	35	34	33	33	32	34	35	34	34	33	32	32	33	34	34	35
F1	1	27	26	27	28	29	28	26	28	27	26	30	29	28	29	30	29
	2	28	29	27	26	26	27	28	26	27	26	29	30	29	28	27	27
	3	31	29	30	31	29	28	27	27	25	24	28	28	27	28	29	30
	4	29	29	27	26	25	25	26	25	24	25	28	28	28	29	30	31
	5	33	31	30	29	28	27	28	27	25	24	27	28	28	30	30	29
F2	1	29	27	27	25	24	24	23	23	22	23	28	27	26	27	28	29
	2	34	32	30	29	29	27	28	26	25	25	29	28	27	27	29	29
	3	26	26	27	27	28	27	27	28	26	25	28	29	28	29	31	31
	4	27	25	25	25	26	28	28	27	27	26	29	30	30	30	30	31
	5	28	27	26	27	27	26	26	25	24	25	29	28	28	29	30	30
F3	1	30	29	28	26	27	27	28	28	27	27	29	29	29	30	31	32
	2	32	30	29	28	26	25	25	26	25	24	26	26	27	28	29	30
	3	28	25	25	26	25	24	24	25	26	25	29	28	28	29	30	30
	4	36	34	33	32	30	31	30	31	30	29	30	29	27	26	28	29
	5	33	30	28	28	27	28	28	28	26	26	29	28	30	31	33	33
K (+)	1	29	29	28	27	25	24	24	24	25	25	28	27	28	27	27	26
	2	30	29	28	26	26	25	25	23	24	23	27	27	27	28	29	30
	3	28	27	27	26	27	26	24	23	23	23	27	28	26	27	29	31
	4	36	35	33	32	31	30	29	28	27	26	29	30	30	31	30	32
	5	34	33	32	31	28	28	30	29	28	28	30	28	26	28	29	29

LAMPIRAN G

PENIMBANGAN BERAT BADAN TIKUS PUTIH SELAMA 15 HARI

Hari		Berat Badan (gram)															
		H-0	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	H-14	H-15
K(-)	1	235	232	233	237	235	234	232	229	227	227	229	230	229	230	232	235
	2	222	220	224	228	227	227	228	226	230	232	232	231	230	231	229	230
	3	228	235	235	235	235	233	231	233	232	235	235	234	235	237	237	238
	4	231	231	235	238	235	234	234	232	231	230	231	230	231	230	231	233
	5	236	235	238	241	239	237	237	235	234	233	230	232	233	234	236	234
F1	1	222	220	218	221	221	221	220	220	218	221	221	222	227	230	231	
	2	227	226	225	224	222	220	222	220	218	215	215	216	218	222	225	
	3	226	227	225	222	221	219	218	220	222	220	224	225	226	229	230	
	4	230	225	226	225	227	224	220	219	216	215	216	217	219	225	227	
	5	234	237	234	229	227	226	223	222	223	222	224	224	225	229	232	
F2	1	223	222	220	219	220	219	221	219	216	214	216	216	217	220	222	
	2	232	232	227	225	223	222	220	219	220	220	222	225	224	226	229	
	3	241	235	237	235	235	230	231	230	228	225	224	223	225	233	235	
	4	225	222	224	227	225	224	223	223	220	218	219	220	221	221	226	
	5	228	223	221	220	221	219	219	217	220	221	221	222	223	225	228	
F3	1	233	230	226	226	224	222	219	214	210	207	211	213	214	225	230	
	2	240	239	235	233	231	229	226	225	223	220	223	225	228	234	239	
	3	230	227	225	225	225	224	221	218	211	213	219	222	224	227	230	
	4	229	225	224	222	224	220	218	216	213	209	210	213	216	222	227	
	5	229	231	225	221	219	218	216	217	218	216	220	221	224	229	233	
K(+)	1	229	229	228	224	221	220	218	215	210	207	210	212	212	222	225	
	2	230	228	227	225	224	222	220	219	217	215	220	222	222	227	232	
	3	225	222	222	219	219	218	217	217	214	214	223	226	226	230	233	
	4	232	230	228	225	226	224	220	222	223	224	229	230	230	232	236	
	5	227	222	225	223	226	220	222	220	219	217	222	225	225	227	230	

LAMPIRAN H
PRINT OUT HASIL SPSS JUMLAH MAKANAN

Pada hari Ke-0
Oneway

Descriptives
M_BB

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between - Component Variance
					Lower Bound	Upper Bound			
K(-) H0	5	30.00	3.16228	1.41421	26.0735	33.9265	27	35	
F1 H0	5	29.60	2.40832	1.07703	26.6097	32.5903	27	33	
F2 H0	5	28.80	3.11448	1.39284	24.9329	32.6671	26	34	
F3 H0	5	31.80	3.03315	1.35647	28.0338	35.5662	28	36	
K(+) H0	5	31.40	3.43511	1.53623	27.1347	35.6653	28	36	
Total	25	30.32	3.00998	.60200	29.0775	31.5625	26	36	
Fixed Effects			3.04959	.60992	29.0477	31.5923			
Random Effects				.60992 ^a	28.6266 ^a	32.0134 ^a			-.28800

a. Warning: Between-component variance is negative. It was replaced by 0.0 in computing this random effects measure.

Test of Homogeneity of Variances

M_BB

Levene Statistic	df1	df2	Sig.
.262	4	20	.899

ANOVA

M_BB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	31.440	4	7.860	.845	.513
Within Groups	186.000	20	9.300		
Total	217.440	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H0	F1 H0	.40000	1.92873	1.000	-5.3715	6.1715
	F2 H0	1.20000	1.92873	.970	-4.5715	6.9715
	F3 H0	-1.80000	1.92873	.881	-7.5715	3.9715
	K(+) H0	-1.40000	1.92873	.948	-7.1715	4.3715
F1 H0	K(-) H0	-.40000	1.92873	1.000	-6.1715	5.3715
	F2 H0	.80000	1.92873	.993	-4.9715	6.5715
	F3 H0	-2.20000	1.92873	.783	-7.9715	3.5715
	K(+) H0	-1.80000	1.92873	.881	-7.5715	3.9715
F2 H0	K(-) H0	-1.20000	1.92873	.970	-6.9715	4.5715
	F1 H0	-.80000	1.92873	.993	-6.5715	4.9715
	F3 H0	-3.00000	1.92873	.541	-8.7715	2.7715
	K(+) H0	-2.60000	1.92873	.666	-8.3715	3.1715
F3 H0	K(-) H0	1.80000	1.92873	.881	-3.9715	7.5715
	F1 H0	2.20000	1.92873	.783	-3.5715	7.9715
	F2 H0	3.00000	1.92873	.541	-2.7715	8.7715
	K(+) H0	.40000	1.92873	1.000	-5.3715	6.1715
K(+) H0	K(-) H0	1.40000	1.92873	.948	-4.3715	7.1715
	F1 H0	1.80000	1.92873	.881	-3.9715	7.5715
	F2 H0	2.60000	1.92873	.666	-3.1715	8.3715
	F3 H0	-.40000	1.92873	1.000	-6.1715	5.3715

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.240 ^a	.057	.017	2.98504	.057	1.403	1	23	.248

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-3 Oneway

Descriptives M_BB

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H3	5	30.0000	1.87083	.83666	27.6771	32.3229	28	33	
F1 H3	5	28.0000	2.12132	.94868	25.3660	30.6340	26	31	
F2 H3	5	26.6000	1.67332	.74833	24.5223	28.6777	25	29	
F3 H3	5	28.0000	2.44949	1.09545	24.9586	31.0414	26	32	
K(+) H3	5	28.4000	2.88097	1.28841	24.8228	31.9772	26	32	
Total	25	28.2000	2.32737	.46547	27.2393	29.1607	25	33	
Fixed Effects			2.24054	.44811	27.2653	29.1347			
Random Effects				.54406	26.6895	29.7105			.47600

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	29.600	4	7.400	1.474	.247
Within Groups	100.400	20	5.020		
Total	130.000	24			

Post Hoc Tests

Multiple Comparisons

M_JM

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H3	F1 H3	2.00000	1.41704	.628	-2.2403	6.2403
	F2 H3	3.40000	1.41704	.156	-.8403	7.6403
	F3 H3	2.00000	1.41704	.628	-2.2403	6.2403
	K(+) H3	1.60000	1.41704	.790	-2.6403	5.8403
F1 H3	K(-) H3	-2.00000	1.41704	.628	-6.2403	2.2403
	F2 H3	1.40000	1.41704	.858	-2.8403	5.6403
	F3 H3	.00000	1.41704	1.000	-4.2403	4.2403
	K(+) H3	-.40000	1.41704	.998	-4.6403	3.8403
F2 H3	K(-) H3	-3.40000	1.41704	.156	-7.6403	.8403
	F1 H3	-1.40000	1.41704	.858	-5.6403	2.8403
	F3 H3	-1.40000	1.41704	.858	-5.6403	2.8403
	K(+) H3	-1.80000	1.41704	.712	-6.0403	2.4403
F3 H3	K(-) H3	-2.00000	1.41704	.628	-6.2403	2.2403
	F1 H3	.00000	1.41704	1.000	-4.2403	4.2403
	F2 H3	1.40000	1.41704	.858	-2.8403	5.6403
	K(+) H3	-.40000	1.41704	.998	-4.6403	3.8403
K(+) H3	K(-) H3	-1.60000	1.41704	.790	-5.8403	2.6403
	F1 H3	.40000	1.41704	.998	-3.8403	4.6403
	F2 H3	1.80000	1.41704	.712	-2.4403	6.0403
	F3 H3	.40000	1.41704	.998	-3.8403	4.6403

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.198 ^a	.039	-.002	2.33014	.039	.943	1	23	.342

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-6 Oneway

Descriptives

M_JM

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between - Component Variance
					Lower Bound	Upper Bound			
K(-) H6	5	31.8000	2.58844	1.15758	28.5860	35.0140	28	35	4.24000
F1 H6	5	27.0000	1.00000	.44721	25.7583	28.2417	26	28	
F2 H6	5	26.4000	2.07364	.92736	23.8252	28.9748	23	28	
F3 H6	5	27.0000	2.44949	1.09545	23.9586	30.0414	24	30	
K(+) H6	5	26.4000	2.88097	1.28841	22.8228	29.9772	24	30	
Total	25	27.7200	2.96536	.59307	26.4960	28.9440	23	35	
Fixed Effects			2.29347	.45869	26.7632	28.6768			
Random Effects				1.02879	24.8636	30.5764			

ANOVA

M_JM

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	105.840	4	26.460	5.030	.006
Within Groups	105.200	20	5.260		
Total	211.040	24			

Post Hoc Tests

Multiple Comparisons

M_JM

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H6	F1 H6	4.80000	1.45052	.026	.4595	9.1405
	F2 H6	5.40000	1.45052	.010	1.0595	9.7405
	F3 H6	4.80000	1.45052	.026	.4595	9.1405
	K(+) H6	5.40000	1.45052	.010	1.0595	9.7405
F1 H6	K(-) H6	-4.80000	1.45052	.026	-9.1405	-.4595
	F2 H6	.60000	1.45052	.993	-3.7405	4.9405
	F3 H6	.00000	1.45052	1.000	-4.3405	4.3405
	K(+) H6	.60000	1.45052	.993	-3.7405	4.9405
F2 H6	K(-) H6	-5.40000	1.45052	.010	-9.7405	-1.0595
	F1 H6	-.60000	1.45052	.993	-4.9405	3.7405
	F3 H6	-.60000	1.45052	.993	-4.9405	3.7405
	K(+) H6	.00000	1.45052	1.000	-4.3405	4.3405
F3 H6	K(-) H6	-4.80000	1.45052	.026	-9.1405	-.4595
	F1 H6	.00000	1.45052	1.000	-4.3405	4.3405
	F2 H6	.60000	1.45052	.993	-3.7405	4.9405
	K(+) H6	.60000	1.45052	.993	-3.7405	4.9405
K(+) H6	K(-) H6	-5.40000	1.45052	.010	-9.7405	-1.0595
	F1 H6	-.60000	1.45052	.993	-4.9405	3.7405
	F2 H6	.00000	1.45052	1.000	-4.3405	4.3405
	F3 H6	-.60000	1.45052	.993	-4.9405	3.7405

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

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.526 ^a	.276	.245	2.57682	.276	8.783	1	23	.007

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-9 Oneway

Descriptives

M_JM

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H9	5	31.2000	1.48324	.66332	29.3583	33.0417	29	33	
F1 H9	5	25.0000	1.00000	.44721	23.7583	26.2417	24	26	
F2 H9	5	24.8000	1.09545	.48990	23.4398	26.1602	23	26	
F3 H9	5	26.2000	1.92354	.86023	23.8116	28.5884	24	29	
K(+) H9	5	25.0000	2.12132	.94868	22.3660	27.6340	23	28	
Total	25	26.4400	2.87344	.57469	25.2539	27.6261	23	33	
Fixed Effects			1.58745	.31749	25.7777	27.1023			
Random Effects				1.21557	23.0650	29.8150			6.88400

ANOVA

M_JM

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	147.760	4	36.940	14.659	.000
Within Groups	50.400	20	2.520		
Total	198.160	24			

Post Hoc Tests

Multiple Comparisons

M_JM

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H9	F1 H9	6.20000	1.00399	.000	3.1957	9.2043
	F2 H9	6.40000	1.00399	.000	3.3957	9.4043
	F3 H9	5.00000	1.00399	.001	1.9957	8.0043
	K(+) H9	6.20000	1.00399	.000	3.1957	9.2043
F1 H9	K(-) H9	-6.20000	1.00399	.000	-9.2043	-3.1957
	F2 H9	.20000	1.00399	1.000	-2.8043	3.2043
	F3 H9	-1.20000	1.00399	.754	-4.2043	1.8043
	K(+) H9	.00000	1.00399	1.000	-3.0043	3.0043
F2 H9	K(-) H9	-6.40000	1.00399	.000	-9.4043	-3.3957
	F1 H9	-.20000	1.00399	1.000	-3.2043	2.8043
	F3 H9	-1.40000	1.00399	.638	-4.4043	1.6043
	K(+) H9	-.20000	1.00399	1.000	-3.2043	2.8043
F3 H9	K(-) H9	-5.00000	1.00399	.001	-8.0043	-1.9957
	F1 H9	1.20000	1.00399	.754	-1.8043	4.2043
	F2 H9	1.40000	1.00399	.638	-1.6043	4.4043
	K(+) H9	1.20000	1.00399	.754	-1.8043	4.2043
K(+) H9	K(-) H9	-6.20000	1.00399	.000	-9.2043	-3.1957
	F1 H9	.00000	1.00399	1.000	-3.0043	3.0043
	F2 H9	.20000	1.00399	1.000	-2.8043	3.2043
	F3 H9	-1.20000	1.00399	.754	-4.2043	1.8043

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

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.563 ^a	.317	.287	2.42666	.317	10.651	1	23	.003

Pada hari Ke-12 Oneway

Descriptives

M_JM

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H12	5	30.4000	2.60768	1.16619	27.1621	33.6379	27	33	
F1 H12	5	28.0000	.70711	.31623	27.1220	28.8780	27	29	
F2 H12	5	27.8000	1.48324	.66332	25.9583	29.6417	26	30	
F3 H12	5	28.2000	1.30384	.58310	26.5811	29.8189	27	30	
K(+) H12	5	27.4000	1.67332	.74833	25.3223	29.4777	26	30	
Total	25	28.3600	1.86815	.37363	27.5889	29.1311	26	33	
Fixed Effects			1.67332	.33466	27.6619	29.0581			
Random Effects				.52688	26.8972	29.8228			.82800

ANOVA

M_JM

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	27.760	4	6.940	2.479	.077
Within Groups	56.000	20	2.800		
Total	83.760	24			

Post Hoc Tests

Multiple Comparisons

M_JM

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H12	F1 H12	2.40000	1.05830	.196	-.7668	5.5668
	F2 H12	2.60000	1.05830	.141	-.5668	5.7668
	F3 H12	2.20000	1.05830	.267	-.9668	5.3668
	K(+) H12	3.00000	1.05830	.069	-.1668	6.1668
F1 H12	K(-) H12	-2.40000	1.05830	.196	-5.5668	.7668
	F2 H12	.20000	1.05830	1.000	-2.9668	3.3668
	F3 H12	-.20000	1.05830	1.000	-3.3668	2.9668
	K(+) H12	.60000	1.05830	.978	-2.5668	3.7668
F2 H12	K(-) H12	-2.60000	1.05830	.141	-5.7668	.5668
	F1 H12	-.20000	1.05830	1.000	-3.3668	2.9668
	F3 H12	-.40000	1.05830	.995	-3.5668	2.7668
	K(+) H12	.40000	1.05830	.995	-2.7668	3.5668
F3 H12	K(-) H12	-2.20000	1.05830	.267	-5.3668	.9668
	F1 H12	.20000	1.05830	1.000	-2.9668	3.3668
	F2 H12	.40000	1.05830	.995	-2.7668	3.5668
	K(+) H12	.80000	1.05830	.940	-2.3668	3.9668
K(+) H12	K(-) H12	-3.00000	1.05830	.069	-6.1668	.1668
	F1 H12	-.60000	1.05830	.978	-3.7668	2.5668
	F2 H12	-.40000	1.05830	.995	-3.5668	2.7668
	F3 H12	-.80000	1.05830	.940	-3.9668	2.3668

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.448 ^a	.201	.166	1.70600	.201	5.779	1	23	.025

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-15 Oneway

Descriptives

M_BB

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H15	5	32.00	2.345	1.048	29.088	34.912	30	35	
F1 H15	5	29.20	1.483	.6633	27.358	31.041	27	31	
F2 H15	5	30.00	1.000	.4472	28.758	31.241	29	31	
F3 H15	5	30.80	1.643	.7348	28.759	32.840	29	33	
K(+) H15	5	29.60	2.302	1.029	26.741	32.458	26	32	
Total	25	30.32	1.951	.3903	29.514	31.125	26	35	
Fixed Effects			1.827	.3655	29.557	31.082			
Random Effects				.4963	28.941	31.698			.56400

ANOVA

M_JM

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	24.640	4	6.160	1.844	.160
Within Groups	66.800	20	3.340		
Total	91.440	24			

Post Hoc Tests

Multiple Comparisons

M_JM

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H15	F1 H15	2.80000	1.15585	.150	-.6588	6.2588
	F2 H15	2.00000	1.15585	.439	-1.4588	5.4588
	F3 H15	1.20000	1.15585	.835	-2.2588	4.6588
	K(+) H15	2.40000	1.15585	.268	-1.0588	5.8588
F1 H15	K(-) H15	-2.80000	1.15585	.150	-6.2588	.6588
	F2 H15	-.80000	1.15585	.956	-4.2588	2.6588
	F3 H15	-1.60000	1.15585	.644	-5.0588	1.8588
	K(+) H15	-.40000	1.15585	.997	-3.8588	3.0588
F2 H15	K(-) H15	-2.00000	1.15585	.439	-5.4588	1.4588
	F1 H15	.80000	1.15585	.956	-2.6588	4.2588
	F3 H15	-.80000	1.15585	.956	-4.2588	2.6588
	K(+) H15	.40000	1.15585	.997	-3.0588	3.8588
F3 H15	K(-) H15	-1.20000	1.15585	.835	-4.6588	2.2588
	F1 H15	1.60000	1.15585	.644	-1.8588	5.0588
	F2 H15	.80000	1.15585	.956	-2.6588	4.2588
	K(+) H15	1.20000	1.15585	.835	-2.2588	4.6588
K(+) H15	K(-) H15	-2.40000	1.15585	.268	-5.8588	1.0588
	F1 H15	.40000	1.15585	.997	-3.0588	3.8588
	F2 H15	-.40000	1.15585	.997	-3.8588	3.0588
	F3 H15	-1.20000	1.15585	.835	-4.6588	2.2588

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.237 ^a	.056	.015	1.93728	.056	1.364	1	23	.255

a. Predictors: (Constant), T_Fraksi

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Pada hari Ke-0
Oneway

Descriptives

M_BB

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H0	5	230.4000	5.68331	2.54165	223.3432	237.4568	222	236	
F1 H0	5	227.8000	4.49444	2.00998	222.2194	233.3806	222	234	
F2 H0	5	229.8000	7.12039	3.18434	220.9589	238.6411	223	241	
F3 H0	5	232.2000	4.65833	2.08327	226.4159	237.9841	229	240	
K(+) H0	5	228.6000	2.70185	1.20830	225.2452	231.9548	225	232	
Total	25	229.7600	4.94368	.98874	227.7193	231.8007	222	241	
Fixed Effects			5.14198	1.02840	227.6148	231.9052			
Random Effects				1.02840 ^a	226.9047 ^a	232.6153 ^a			-2.40000

a. Warning: Between-component variance is negative. It was replaced by 0.0 in computing this random effects measure.

Test of Homogeneity of Variances

M_BB

Levene Statistic	df1	df2	Sig.
.962	4	20	.450

ANOVA

M_BB

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	57.760	4	14.440	.546	.704
Within Groups	528.800	20	26.440		
Total	586.560	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H0	F1 H0	2.60000	3.25208	.928	-7.1314	12.3314
	F2 H0	.60000	3.25208	1.000	-9.1314	10.3314
	F3 H0	-1.80000	3.25208	.980	-11.5314	7.9314
	K(+) H0	1.80000	3.25208	.980	-7.9314	11.5314
F1 H0	K(-) H0	-2.60000	3.25208	.928	-12.3314	7.1314
	F2 H0	-2.00000	3.25208	.971	-11.7314	7.7314
	F3 H0	-4.40000	3.25208	.663	-14.1314	5.3314
	K(+) H0	-.80000	3.25208	.999	-10.5314	8.9314
F2 H0	K(-) H0	-.60000	3.25208	1.000	-10.3314	9.1314
	F1 H0	2.00000	3.25208	.971	-7.7314	11.7314
	F3 H0	-2.40000	3.25208	.945	-12.1314	7.3314
	K(+) H0	1.20000	3.25208	.996	-8.5314	10.9314
F3 H0	K(-) H0	1.80000	3.25208	.980	-7.9314	11.5314
	F1 H0	4.40000	3.25208	.663	-5.3314	14.1314
	F2 H0	2.40000	3.25208	.945	-7.3314	12.1314
	K(+) H0	3.60000	3.25208	.801	-6.1314	13.3314
K(+) H0	K(-) H0	-1.80000	3.25208	.980	-11.5314	7.9314
	F1 H0	.80000	3.25208	.999	-8.9314	10.5314
	F2 H0	-1.20000	3.25208	.996	-10.9314	8.5314
	F3 H0	-3.60000	3.25208	.801	-13.3314	6.1314

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.023 ^a	.001	-.043	5.04863	.001	.013	1	23	.912

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-3 Oneway

Descriptives

M_BB

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between - Component Variance
					Lower Bound	Upper Bound			
K(-) H3	5	235.8000	4.86826	2.17715	229.753	241.847	228	241	
F1 H3	5	224.2000	3.11448	1.39284	220.3329	228.0671	221	229	
F2 H3	5	225.2000	6.41872	2.87054	217.2301	233.1699	219	235	
F3 H3	5	225.4000	4.72229	2.11187	219.5365	231.2635	221	233	
K(+) H3	5	223.2000	2.48998	1.11355	220.1083	226.2917	219	225	
Total	25	226.7600	6.25353	1.25071	224.1787	229.3413	219	241	
Fixed Effects			4.54093	.90819	224.8656	228.6544			
Random Effects				2.29382	220.3913	233.1287			22.18400

ANOVA

M_BB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	526.160	4	131.540	6.379	.002
Within Groups	412.400	20	20.620		
Total	938.560	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H3	F1 H3	11.60000	2.87193	.005	3.0061	20.1939
	F2 H3	10.60000	2.87193	.011	2.0061	19.1939
	F3 H3	10.40000	2.87193	.013	1.8061	18.9939
	K(+) H3	12.60000	2.87193	.002	4.0061	21.1939
F1 H3	K(-) H3	-11.60000	2.87193	.005	-20.1939	-3.0061
	F2 H3	-1.00000	2.87193	.997	-9.5939	7.5939
	F3 H3	-1.20000	2.87193	.993	-9.7939	7.3939
	K(+) H3	1.00000	2.87193	.997	-7.5939	9.5939
F2 H3	K(-) H3	-10.60000	2.87193	.011	-19.1939	-2.0061
	F1 H3	1.00000	2.87193	.997	-7.5939	9.5939
	F3 H3	-.20000	2.87193	1.000	-8.7939	8.3939
	K(+) H3	2.00000	2.87193	.955	-6.5939	10.5939
F3 H3	K(-) H3	-10.40000	2.87193	.013	-18.9939	-1.8061
	F1 H3	1.20000	2.87193	.993	-7.3939	9.7939
	F2 H3	.20000	2.87193	1.000	-8.3939	8.7939
	K(+) H3	2.20000	2.87193	.937	-6.3939	10.7939
K(+) H3	K(-) H3	-12.60000	2.87193	.002	-21.1939	-4.0061
	F1 H3	-1.00000	2.87193	.997	-9.5939	7.5939
	F2 H3	-2.00000	2.87193	.955	-10.5939	6.5939
	F3 H3	-2.20000	2.87193	.937	-10.7939	6.3939

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

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.554 ^a	.307	.277	5.31838	.307	10.182	1	23	.004

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-6 Oneway

Descriptives

M_BB

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max	Between - Component Variance
					Lower Bound	Upper Bound			
K(-) H6	5	232.4000	3.36155	1.50333	228.2261	236.5739	228	237	26.53200
F1 H6	5	220.8000	1.92354	.86023	218.4116	223.1884	218	223	
F2 H6	5	222.8000	4.81664	2.15407	216.8194	228.7806	219	231	
F3 H6	5	220.0000	3.80789	1.70294	215.2719	224.7281	216	226	
K(+) H6	5	219.4000	1.94936	.87178	216.9796	221.8204	217	222	
Total	25	223.0800	5.78014	1.15603	220.6941	225.4659	216	237	
Fixed Effects			3.36155	.67231	221.6776	224.4824			
Random Effects				2.39967	216.4175	229.7425			

ANOVA

M_BB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	575.840	4	143.960	12.740	.000
Within Groups	226.000	20	11.300		
Total	801.840	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H6	F1 H6	11.60000	2.12603	.000	5.2381	17.9619
	F2 H6	9.60000	2.12603	.002	3.2381	15.9619
	F3 H6	12.40000	2.12603	.000	6.0381	18.7619
	K(+) H6	13.00000	2.12603	.000	6.6381	19.3619
F1 H6	K(-) H6	-11.60000	2.12603	.000	-17.9619	-5.2381
	F2 H6	-2.00000	2.12603	.878	-8.3619	4.3619
	F3 H6	.80000	2.12603	.995	-5.5619	7.1619
	K(+) H6	1.40000	2.12603	.963	-4.9619	7.7619
F2 H6	K(-) H6	-9.60000	2.12603	.002	-15.9619	-3.2381
	F1 H6	2.00000	2.12603	.878	-4.3619	8.3619
	F3 H6	2.80000	2.12603	.684	-3.5619	9.1619
	K(+) H6	3.40000	2.12603	.515	-2.9619	9.7619
F3 H6	K(-) H6	-12.40000	2.12603	.000	-18.7619	-6.0381
	F1 H6	-.80000	2.12603	.995	-7.1619	5.5619
	F2 H6	-2.80000	2.12603	.684	-9.1619	3.5619
	K(+) H6	.60000	2.12603	.998	-5.7619	6.9619
K(+) H6	K(-) H6	-13.00000	2.12603	.000	-19.3619	-6.6381
	F1 H6	-1.40000	2.12603	.963	-7.7619	4.9619
	F2 H6	-3.40000	2.12603	.515	-9.7619	2.9619
	F3 H6	-.60000	2.12603	.998	-6.9619	5.7619

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

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.669 ^a	.448	.424	4.38733	.448	18.657	1	23	.000

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-9 Oneway

Descriptives

M_BB

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H9	5	231.4000	3.04959	1.36382	227.6134	235.1866	227	235	
F1 H9	5	218.0000	3.08221	1.37840	214.1729	221.8271	215	222	
F2 H9	5	219.6000	4.03733	1.80555	214.5870	224.6130	214	225	
F3 H9	5	213.0000	5.24404	2.34521	206.4887	219.5113	207	220	
K(+) H9	5	215.4000	6.10737	2.73130	207.8167	222.9833	207	224	
Total	25	219.4800	7.67637	1.53527	216.3113	222.6487	207	235	
Fixed Effects			4.46990	.89398	217.6152	221.3448			
Random Effects				3.18534	210.6361	228.3239			46.73600

ANOVA

M_BB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1014.640	4	253.660	12.696	.000
Within Groups	399.600	20	19.980		
Total	1414.240	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H9	F1 H9	13.40000	2.82701	.001	4.9405	21.8595
	F2 H9	11.80000	2.82701	.004	3.3405	20.2595
	F3 H9	18.40000	2.82701	.000	9.9405	26.8595
	K(+) H9	16.00000	2.82701	.000	7.5405	24.4595
F1 H9	K(-) H9	-13.40000	2.82701	.001	-21.8595	-4.9405
	F2 H9	-1.60000	2.82701	.979	-10.0595	6.8595
	F3 H9	5.00000	2.82701	.418	-3.4595	13.4595
	K(+) H9	2.60000	2.82701	.886	-5.8595	11.0595
F2 H9	K(-) H9	-11.80000	2.82701	.004	-20.2595	-3.3405
	F1 H9	1.60000	2.82701	.979	-6.8595	10.0595
	F3 H9	6.60000	2.82701	.175	-1.8595	15.0595
	K(+) H9	4.20000	2.82701	.583	-4.2595	12.6595
F3 H9	K(-) H9	-18.40000	2.82701	.000	-26.8595	-9.9405
	F1 H9	-5.00000	2.82701	.418	-13.4595	3.4595
	F2 H9	-6.60000	2.82701	.175	-15.0595	1.8595
	K(+) H9	-2.40000	2.82701	.912	-10.8595	6.0595
K(+) H9	K(-) H9	-16.00000	2.82701	.000	-24.4595	-7.5405
	F1 H9	-2.60000	2.82701	.886	-11.0595	5.8595
	F2 H9	-4.20000	2.82701	.583	-12.6595	4.2595
	F3 H9	2.40000	2.82701	.912	-6.0595	10.8595

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

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.696 _a	.484	.462	5.63275	.484	21.574	1	23	.000

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-12 Oneway

Descriptives

M_BB

	N	Mean	SD	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
					K(-) H12	5			
F1 H12	5	226.6000	3.28634	1.46969	222.5195	230.6805	223	231	
F2 H12	5	230.2000	2.28035	1.01980	227.3686	233.0314	227	233	
F3 H12	5	226.4000	6.61816	2.95973	218.1825	234.6175	217	235	
K(+) H12	5	225.8000	6.83374	3.05614	217.3148	234.2852	215	233	
Total	25	228.1600	4.92172	.98434	226.1284	230.1916	215	235	
Fixed Effects			4.68402	.93680	226.2059	230.1141			
Random Effects				1.19398	224.8450	231.4750			2.74000

ANOVA

M_BB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	142.560	4	35.640	1.624	.207
Within Groups	438.800	20	21.940		
Total	581.360	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H12	F1 H12	5.20000	2.96243	.425	-3.6647	14.0647
	F2 H12	1.60000	2.96243	.982	-7.2647	10.4647
	F3 H12	5.40000	2.96243	.389	-3.4647	14.2647
	K(+) H12	6.00000	2.96243	.290	-2.8647	14.8647
F1 H12	K(-) H12	-5.20000	2.96243	.425	-14.0647	3.6647
	F2 H12	-3.60000	2.96243	.743	-12.4647	5.2647
	F3 H12	.20000	2.96243	1.000	-8.6647	9.0647
	K(+) H12	.80000	2.96243	.999	-8.0647	9.6647
F2 H12	K(-) H12	-1.60000	2.96243	.982	-10.4647	7.2647
	F1 H12	3.60000	2.96243	.743	-5.2647	12.4647
	F3 H12	3.80000	2.96243	.704	-5.0647	12.6647
	K(+) H12	4.40000	2.96243	.583	-4.4647	13.2647
F3 H12	K(-) H12	-5.40000	2.96243	.389	-14.2647	3.4647
	F1 H12	-.20000	2.96243	1.000	-9.0647	8.6647
	F2 H12	-3.80000	2.96243	.704	-12.6647	5.0647
	K(+) H12	.60000	2.96243	1.000	-8.2647	9.4647
K(+) H12	K(-) H12	-6.00000	2.96243	.290	-14.8647	2.8647
	F1 H12	-.80000	2.96243	.999	-9.6647	8.0647
	F2 H12	-4.40000	2.96243	.583	-13.2647	4.4647
	F3 H12	-.60000	2.96243	1.000	-9.4647	8.2647

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.358 ^a	.128	.090	4.69477	.128	3.376	1	23	.079

a. Predictors: (Constant), T_Fraksi

Pada hari Ke-15 Oneway

Descriptives

M_BB

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Min	Max	Between-Component Variance
					Lower Bound	Upper Bound			
K(-) H15	5	241.6000	2.50998	1.12250	238.4834	244.7166	238	245	
F1 H15	5	240.0000	3.39116	1.51658	235.7893	244.2107	236	244	
F2 H15	5	240.4000	2.07364	.92736	237.8252	242.9748	238	243	
F3 H15	5	239.0000	6.59545	2.94958	230.8107	247.1893	229	247	
K(+) H15	5	237.0000	6.44205	2.88097	229.0011	244.9989	226	242	
Total	25	239.6000	4.50925	.90185	237.7387	241.4613	226	247	
Fixed Effects			4.62817	.92563	237.6692	241.5308			
Random Effects				.92563 ^a	237.00 ^a	242.1700 ^a			-1.30400

a. Warning: Between-component variance is negative. It was replaced by 0.0 in computing this random effects measure.

ANOVA

M_BB

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	59.600	4	14.900	.696	.604
Within Groups	428.400	20	21.420		
Total	488.000	24			

Post Hoc Tests

Multiple Comparisons

M_BB

Tukey HSD

(I) T_Fraksi	(J) T_Fraksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K(-) H15	F1 H15	1.60000	2.92711	.981	-7.1590	10.3590
	F2 H15	1.20000	2.92711	.994	-7.5590	9.9590
	F3 H15	2.60000	2.92711	.898	-6.1590	11.3590
	K(+) H15	4.60000	2.92711	.531	-4.1590	13.3590
F1 H15	K(-) H15	-1.60000	2.92711	.981	-10.3590	7.1590
	F2 H15	-.40000	2.92711	1.000	-9.1590	8.3590
	F3 H15	1.00000	2.92711	.997	-7.7590	9.7590
	K(+) H15	3.00000	2.92711	.841	-5.7590	11.7590
F2 H15	K(-) H15	-1.20000	2.92711	.994	-9.9590	7.5590
	F1 H15	.40000	2.92711	1.000	-8.3590	9.1590
	F3 H15	1.40000	2.92711	.989	-7.3590	10.1590
	K(+) H15	3.40000	2.92711	.772	-5.3590	12.1590
F3 H15	K(-) H15	-2.60000	2.92711	.898	-11.3590	6.1590
	F1 H15	-1.00000	2.92711	.997	-9.7590	7.7590
	F2 H15	-1.40000	2.92711	.989	-10.1590	7.3590
	K(+) H15	2.00000	2.92711	.958	-6.7590	10.7590
K(+) H15	K(-) H15	-4.60000	2.92711	.531	-13.3590	4.1590
	F1 H15	-3.00000	2.92711	.841	-11.7590	5.7590
	F2 H15	-3.40000	2.92711	.772	-12.1590	5.3590
	F3 H15	-2.00000	2.92711	.958	-10.7590	6.7590

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.326 ^a	.107	.068	4.35381	.107	2.744	1	23	.111

a. Predictors: (Constant), T_Fraksi



LAMPIRAN J

TABEL UJI F

Baris pertama pada setiap pasangan baris adalah titik pada distribusi F untuk aras 0.05; baris kedua untuk aras 0.01.

		Derajat kebebasan untuk rataan kuadrat yang lebih besar																											
		1	2	3	4	5	6	7	8	9	10	11	12	14	16	20	24	30	40	50	75	100	200	500	∞				
Derajat kebebasan untuk rataan kuadrat yang lebih kecil.	16	4.99 8.53	3.63 6.23	3.24 5.29	3.01 4.77	2.85 4.44	2.74 4.20	2.66 4.03	2.59 3.89	2.54 3.78	2.49 3.69	2.45 3.61	2.42 3.55	2.37 3.45	2.33 3.37	2.28 3.25	2.24 3.18	2.20 3.10	2.16 3.01	2.13 2.96	2.09 2.89	2.07 2.86	2.04 2.80	2.02 2.77	2.01 2.75				
	17	4.45 8.40	3.59 6.11	3.20 5.18	2.96 4.67	2.81 4.34	2.70 4.10	2.62 3.93	2.55 3.79	2.50 3.68	2.45 3.59	2.41 3.52	2.38 3.45	2.33 3.35	2.29 3.27	2.23 3.16	2.19 3.08	2.15 2.99	2.11 2.92	2.11 2.83	2.08 2.78	2.04 2.71	2.02 2.68	1.99 2.62	1.97 2.59	1.96 2.57			
	18	4.41 8.28	3.55 6.01	3.16 5.09	2.93 4.58	2.77 4.25	2.66 4.01	2.58 3.85	2.51 3.71	2.46 3.60	2.41 3.51	2.37 3.44	2.34 3.37	2.29 3.27	2.25 3.19	2.19 3.07	2.15 2.99	2.11 2.91	2.11 2.83	2.07 2.78	2.02 2.71	2.00 2.68	1.98 2.62	1.95 2.59	1.93 2.57				
	19	4.38 8.18	3.52 5.93	3.13 5.01	2.90 4.50	2.74 4.17	2.63 3.94	2.55 3.77	2.48 3.63	2.43 3.52	2.38 3.43	2.34 3.36	2.31 3.30	2.26 3.19	2.21 3.12	2.15 2.99	2.11 2.92	2.11 2.84	2.07 2.76	2.02 2.68	2.00 2.63	1.99 2.60	1.96 2.54	1.94 2.51	1.91 2.49	1.90 2.48			
	20	4.35 8.10	3.49 5.85	3.10 4.94	2.87 4.43	2.71 4.10	2.60 3.87	2.52 3.71	2.45 3.56	2.40 3.45	2.35 3.37	2.31 3.30	2.28 3.23	2.23 3.13	2.18 3.05	2.12 2.94	2.08 2.86	2.04 2.77	2.04 2.69	1.99 2.63	1.99 2.58	1.96 2.54	1.94 2.53	1.91 2.47	1.90 2.47	1.88 2.44	1.84 2.42		
	21	4.32 8.02	3.47 5.78	3.07 4.87	2.84 4.37	2.68 4.04	2.57 3.81	2.49 3.65	2.42 3.51	2.37 3.46	2.32 3.31	2.28 3.24	2.23 3.17	2.18 3.07	2.15 2.99	2.09 2.88	2.05 2.80	2.00 2.73	2.00 2.68	1.96 2.63	1.93 2.58	1.90 2.51	1.87 2.47	1.84 2.42	1.82 2.38	1.81 2.36			
	22	4.30 7.94	3.44 5.72	3.05 4.82	2.82 4.31	2.66 3.99	2.55 3.76	2.47 3.59	2.40 3.45	2.35 3.35	2.30 3.24	2.26 3.18	2.23 3.12	2.18 3.02	2.13 2.94	2.07 2.83	2.03 2.75	1.98 2.67	1.98 2.60	1.96 2.53	1.93 2.46	1.91 2.42	1.88 2.37	1.84 2.33	1.81 2.31	1.80 2.29	1.79 2.28		
	23	4.28 7.88	3.42 5.66	3.03 4.74	2.80 4.26	2.64 3.94	2.53 3.71	2.45 3.54	2.38 3.41	2.32 3.30	2.28 3.21	2.24 3.14	2.20 3.07	2.14 2.97	2.10 2.89	2.04 2.78	2.00 2.70	2.00 2.62	1.96 2.53	1.96 2.48	1.91 2.41	1.88 2.37	1.84 2.32	1.82 2.28	1.79 2.28	1.77 2.26			
	24	4.26 7.82	3.40 5.61	3.01 4.72	2.78 4.22	2.62 3.90	2.51 3.67	2.43 3.50	2.36 3.36	2.30 3.25	2.26 3.17	2.22 3.09	2.18 3.03	2.13 2.93	2.09 2.85	2.02 2.74	2.02 2.66	1.98 2.58	1.94 2.49	1.94 2.44	1.89 2.36	1.86 2.33	1.82 2.27	1.80 2.27	1.74 2.23	1.74 2.23	1.71 2.21		
	25	4.24 7.77	3.38 5.57	2.99 4.68	2.76 4.18	2.60 3.86	2.49 3.63	2.41 3.46	2.34 3.32	2.28 3.21	2.24 3.13	2.20 3.05	2.16 2.99	2.11 2.89	2.06 2.81	2.00 2.70	2.00 2.62	1.96 2.54	1.92 2.45	1.92 2.40	1.87 2.33	1.85 2.28	1.80 2.25	1.77 2.23	1.74 2.19	1.72 2.19	1.71 2.17		
	26	4.22 7.72	3.37 5.53	2.89 4.64	2.74 4.14	2.59 3.82	2.47 3.59	2.39 3.42	2.32 3.29	2.27 3.17	2.22 3.09	2.18 3.02	2.15 2.96	2.10 2.86	2.05 2.77	1.99 2.66	1.95 2.58	1.90 2.50	1.90 2.41	1.85 2.36	1.82 2.28	1.78 2.25	1.76 2.19	1.72 2.15	1.70 2.13	1.69 2.13			
	27	4.21 7.68	3.35 5.49	2.96 4.60	2.73 4.11	2.57 3.79	2.46 3.56	2.37 3.39	2.30 3.26	2.25 3.14	2.20 3.06	2.16 2.98	2.13 2.93	2.08 2.83	2.03 2.74	1.97 2.63	1.93 2.55	1.88 2.47	1.88 2.38	1.84 2.33	1.80 2.25	1.76 2.21	1.74 2.16	1.71 2.12	1.68 2.12	1.67 2.10			
	28	4.20 7.64	3.34 5.45	2.95 4.57	2.71 4.07	2.56 3.76	2.44 3.53	2.36 3.36	2.29 3.23	2.24 3.11	2.19 3.03	2.15 2.95	2.12 2.90	2.06 2.80	2.02 2.71	1.96 2.60	1.91 2.52	1.87 2.44	1.87 2.35	1.81 2.30	1.78 2.22	1.75 2.19	1.72 2.15	1.69 2.13	1.67 2.09	1.65 2.06			
	29	4.18 7.60	3.33 5.52	2.93 4.54	2.70 4.04	2.54 3.73	2.43 3.50	2.35 3.32	2.28 3.20	2.22 3.08	2.18 3.00	2.14 2.92	2.10 2.87	2.05 2.77	2.00 2.68	1.94 2.57	1.89 2.49	1.85 2.41	1.85 2.32	1.80 2.27	1.77 2.19	1.73 2.15	1.71 2.10	1.68 2.06	1.65 2.04	1.64 2.03			
	30	4.17 7.56	3.32 5.39	2.92 4.51	2.69 4.02	2.53 3.70	2.42 3.47	2.34 3.30	2.27 3.17	2.21 3.06	2.16 2.98	2.12 2.90	2.10 2.84	2.05 2.74	2.00 2.66	1.94 2.55	1.89 2.47	1.85 2.38	1.85 2.29	1.80 2.24	1.77 2.16	1.73 2.12	1.71 2.09	1.68 2.06	1.65 2.03	1.64 2.01			

(bersambung)

Tabel uji F (lanjutan)

Baris pertama pada setiap pasangan baris adalah titik pada distribusi F untuk aras 0.05; baris kedua untuk aras 0.01.

		Derajat kebebasan untuk rataan kuadrat yang lebih besar.																							
		1	2	3	4	5	6	7	8	9	10	11	12	14	16	20	24	30	40	50	75	100	200	500	∞
32		4.15	3.30	2.90	2.67	2.51	2.40	2.32	2.25	2.19	2.14	2.10	2.07	2.02	1.97	1.91	1.86	1.82	1.76	1.74	1.69	1.67	1.64	1.61	1.59
		7.50	5.34	4.46	3.97	3.66	3.42	3.25	3.12	3.01	2.94	2.86	2.80	2.70	2.62	2.51	2.42	2.34	2.25	2.20	2.12	2.08	2.02	1.98	1.96
34		4.13	3.28	2.88	2.65	2.49	2.38	2.30	2.23	2.17	2.12	2.08	2.05	2.00	1.95	1.89	1.84	1.80	1.74	1.71	1.67	1.64	1.61	1.59	1.57
		7.44	5.29	4.42	3.93	3.61	3.38	3.21	3.08	2.97	2.89	2.82	2.76	2.66	2.58	2.47	2.38	2.30	2.21	2.15	2.08	2.04	1.98	1.94	1.91
36		4.11	3.26	2.86	2.63	2.48	2.36	2.28	2.21	2.15	2.10	2.06	2.03	1.99	1.93	1.87	1.82	1.78	1.72	1.69	1.65	1.62	1.59	1.56	1.55
		7.39	5.25	4.38	3.89	3.58	3.35	3.18	3.04	2.94	2.86	2.78	2.72	2.62	2.54	2.43	2.35	2.26	2.17	2.12	2.04	2.00	1.94	1.90	1.87
38		4.10	3.25	2.85	2.62	2.46	2.35	2.26	2.19	2.14	2.09	2.05	2.02	1.96	1.92	1.85	1.80	1.76	1.71	1.67	1.63	1.60	1.57	1.54	1.53
		7.36	5.21	4.34	3.86	3.54	3.32	3.15	3.02	2.91	2.82	2.75	2.69	2.59	2.51	2.40	2.32	2.22	2.14	2.08	2.00	1.97	1.90	1.86	1.84
40		4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.07	2.04	2.00	1.95	1.90	1.84	1.79	1.74	1.69	1.66	1.61	1.59	1.55	1.53	1.51
		7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.88	2.80	2.73	2.66	2.56	2.49	2.37	2.29	2.20	2.11	2.05	1.97	1.94	1.88	1.84	1.81
42		4.07	3.22	2.83	2.59	2.44	2.32	2.24	2.17	2.11	2.06	2.02	1.90	1.94	1.89	1.82	1.78	1.73	1.68	1.64	1.60	1.57	1.54	1.51	1.49
		7.27	5.15	4.29	3.80	3.49	3.26	3.10	2.96	2.86	2.77	2.70	2.64	2.54	2.46	2.35	2.26	2.17	2.08	2.02	1.94	1.91	1.85	1.80	1.78
44		4.06	3.21	2.82	2.58	2.43	2.31	2.23	2.16	2.10	2.05	2.01	1.98	1.92	1.88	1.81	1.76	1.72	1.66	1.63	1.58	1.56	1.52	1.50	1.48
		7.24	5.12	4.26	3.78	3.46	3.24	3.07	2.94	2.84	2.75	2.68	2.62	2.52	2.44	2.32	2.24	2.15	2.06	2.09	1.92	1.88	1.82	1.78	1.75
46		4.05	3.20	2.81	2.57	2.42	2.30	2.22	2.14	2.09	2.04	2.00	1.97	1.91	1.87	1.80	1.75	1.71	1.65	1.62	1.57	1.54	1.51	1.48	1.46
		7.21	5.10	4.24	3.76	3.44	3.22	3.05	2.92	2.82	2.73	2.66	2.60	2.50	2.42	2.30	2.22	2.13	2.04	1.98	1.90	1.86	1.80	1.76	1.72
48		4.04	3.19	2.80	2.56	2.41	2.30	2.21	2.14	2.08	2.03	1.99	1.96	1.90	1.86	1.79	1.74	1.70	1.64	1.61	1.56	1.53	1.50	1.47	1.45
		7.19	5.08	4.22	3.74	3.42	3.20	3.04	2.90	2.80	2.71	2.64	2.58	2.48	2.40	2.28	2.20	2.11	2.02	1.96	1.88	1.84	1.78	1.73	1.70
50		4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07	2.02	1.98	1.95	1.90	1.85	1.78	1.74	1.69	1.63	1.60	1.55	1.52	1.48	1.46	1.44
		7.17	5.06	4.20	3.72	3.41	3.18	3.02	2.88	2.78	2.70	2.62	2.56	2.46	2.39	2.26	2.18	2.10	2.00	1.94	1.86	1.82	1.76	1.71	1.68
55		4.02	3.17	2.78	2.54	2.38	2.27	2.18	2.11	2.05	2.00	1.97	1.93	1.88	1.83	1.76	1.72	1.67	1.61	1.58	1.52	1.50	1.46	1.43	1.41
		7.12	5.01	4.16	3.68	3.37	3.15	2.98	2.85	2.75	2.66	2.59	2.53	2.43	2.35	2.23	2.15	2.06	1.96	1.90	1.82	1.78	1.71	1.66	1.64
60		4.00	3.15	2.76	2.52	2.37	2.25	2.17	2.10	2.04	1.99	1.95	1.92	1.86	1.81	1.75	1.70	1.65	1.59	1.56	1.50	1.48	1.44	1.41	1.39
		7.08	4.98	4.13	3.65	3.34	3.12	2.95	2.82	2.72	2.63	2.56	2.50	2.40	2.32	2.20	2.12	2.03	1.93	1.87	1.79	1.74	1.68	1.63	1.60
65		3.99	3.14	2.75	2.51	2.36	2.24	2.15	2.08	2.02	1.98	1.94	1.90	1.85	1.80	1.73	1.68	1.63	1.57	1.54	1.49	1.46	1.42	1.39	1.37
		7.04	4.95	4.10	3.62	3.31	3.09	2.93	2.79	2.70	2.61	2.54	2.47	2.37	2.30	2.18	2.09	2.00	1.90	1.84	1.76	1.71	1.64	1.60	1.56
70		3.98	3.13	2.74	2.50	2.35	2.22	2.14	2.07	2.01	1.97	1.93	1.89	1.84	1.79	1.72	1.67	1.62	1.56	1.53	1.47	1.45	1.40	1.37	1.35
		7.01	4.92	4.08	3.60	3.29	3.07	2.91	2.77	2.67	2.59	2.51	2.45	2.35	2.28	2.15	2.07	1.98	1.88	1.82	1.74	1.69	1.62	1.56	1.53
80		3.96	3.11	2.72	2.48	2.33	2.21	2.12	2.05	1.99	1.95	1.91	1.88	1.82	1.77	1.70	1.65	1.60	1.54	1.51	1.45	1.43	1.38	1.35	1.32
		6.96	4.88	4.04	3.56	3.25	3.04	2.87	2.74	2.64	2.55	2.48	2.41	2.32	2.24	2.11	2.03	1.94	1.84	1.78	1.70	1.65	1.57	1.52	1.49

Sumber: Scheffler (1987).

LAMPIRAN K
TABEL KORELASI

Tabel Korelasi (r)

DEGREES OF FREEDOM (DF)	5 PERCENT	1 PERCENT	DEGREES OF FREEDOM (DF)	5 PERCENT	1 PERCENT
1	.997	1.000	24	.388	.496
2	.950	.990	25	.381	.487
3	.878	.959	26	.374	.478
4	.811	.917	27	.367	.470
5	.754	.874	28	.361	.463
6	.707	.834	29	.355	.456
7	.666	.798	30	.349	.449
8	.632	.765	35	.325	.418
9	.602	.735	40	.304	.393
10	.576	.708	48	.288	.372
11	.553	.684	50	.273	.354
12	.532	.661	60	.250	.325
13	.514	.641	70	.232	.302
14	.497	.623	80	.217	.283
15	.482	.606	90	.205	.267
16	.468	.590	100	.195	.254
17	.456	.575	125	.174	.228
18	.444	.561	150	.159	.208
19	.433	.549	200	.138	.181
20	.423	.537	300	.113	.148
21	.413	.526	400	.098	.128
22	.404	.515	500	.088	.115
23	.396	.505	1000	.062	.081

Sumber: Soedigdo & Soedigdo (1977)