

DAFTAR PUSTAKA

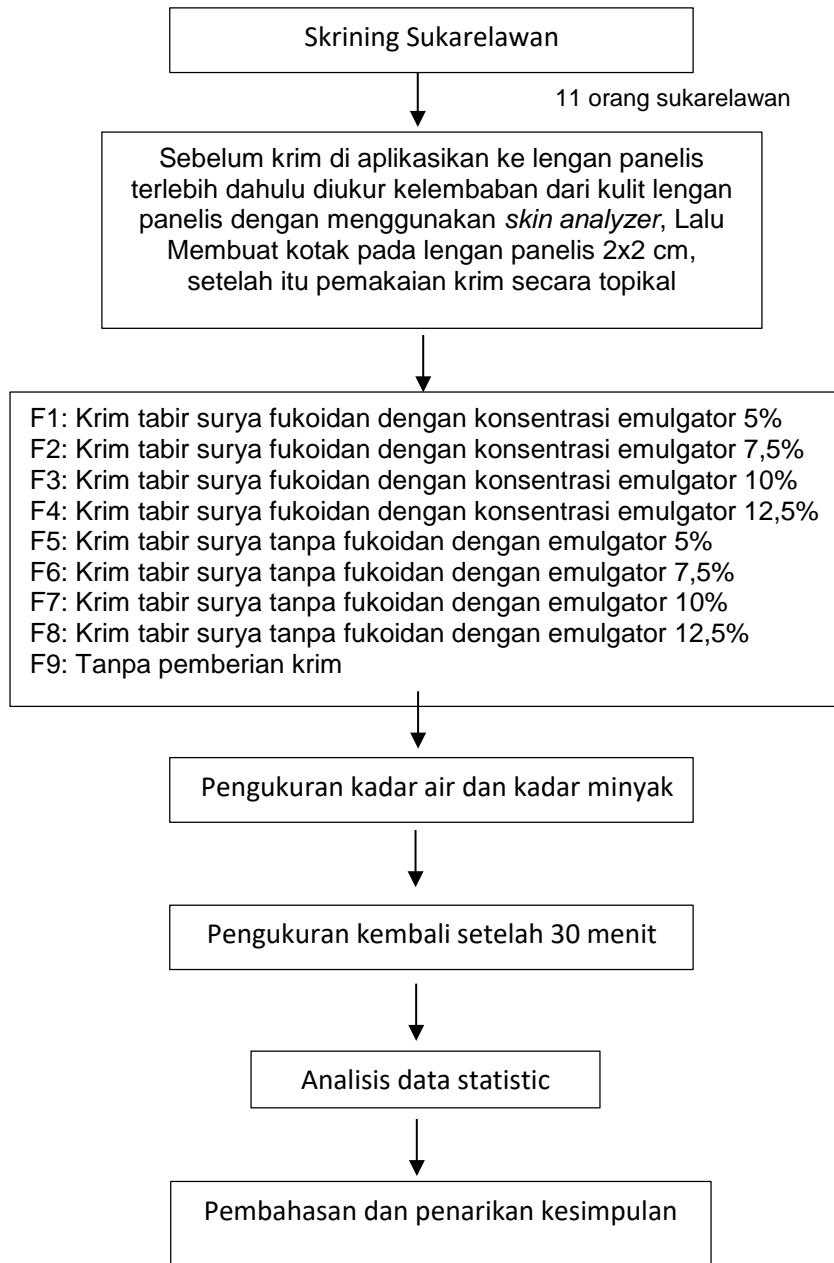
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LAMPIRAN

Lampiran 1. Uji Kelembaban



Lampiran 2. Nilai Selisih kenaikan kadar air

Kelompok Perlakuan	Nilai selisih
F1	$\pm 2,50\%$
F2	$\pm 2,51\%$
F3	$\pm 2,74\%$
F4	$\pm 2,63\%$
F5	$\pm 2,20\%$
F6	$\pm 2,41\%$
F7	$\pm 2,36\%$
F8	$\pm 2,31\%$
F9	$\pm 1,78\%$

Lampiran 3. Nilai Selisih kenaikan kadar minyak

Kelompok Perlakuan	Nilai selisih
F1	$\pm 2,71\%$
F2	$\pm 2,95\%$
F3	$\pm 2,68\%$
F4	$\pm 2,32\%$
F5	$\pm 2,74\%$
F6	$\pm 2,94\%$
F7	$\pm 2,65\%$
F8	$\pm 2,24\%$
F9	$\pm 1,08\%$

Lampiran 4. Hasil Pengukuran kadar air

Formula	Hari Ke-	Pengukuran Kelembaban			
		Sebelum 30 menit		Setelah 30 menit	
		Rata-rata	SD	Rata-rata	SD
F1	1	21,13 %	3,32	23,09 %	3,85
	2	21,13 %	4,26	22,47 %	3,75
	3	21,49 %	4,31	23,43 %	3,49
	4	22,44 %	4,01	24,47 %	3,96
	5	22,65 %	9,03	23,35 %	3,89
F2	1	20,00 %	4,27	22,17 %	4,70
	2	19,77 %	4,27	21,88 %	4,07
	3	20,35 %	3,76	22,54 %	4,04
	4	20,73 %	4,07	22,88 %	4,55
	5	21,3 %	3,86	23,62 %	3,82
F3	1	20,59 %	4,33	22,55 %	4,72
	2	20,56 %	4,16	22,47 %	4,12
	3	20,92 %	3,82	23,18 %	3,99
	4	21,71 %	3,64	23,93 %	4,21
	5	21,95 %	3,86	25,42 %	4,22
F4	1	21,13 %	4,43	23,09 %	4,84
	2	21,13 %	4,27	23,11 %	4,18
	3	21,49 %	3,90	23,71 %	4,22
	4	22,44 %	3,62	24,75 %	4,18
	5	22,65 %	3,83	25,55 %	3,70
F5	1	17,75 %	3,89	20,08 %	4,43
	2	18,02 %	3,78	19,84 %	3,81
	3	17,81 %	3,58	20,63 %	4,31
	4	19,30 %	3,38	21,81 %	3,71
	5	19,04 %	3,89	23,04 %	3,61
F6	1	18,31 %	3,88	20,85 %	4,68
	2	18,53 %	3,75	20,59 %	3,92
	3	18,38 %	3,67	21,21 %	4,32
	4	19,40 %	3,39	22,08 %	3,94
	5	19,01 %	4,03	21,75 %	3,68
F7	1	18,87 %	3,88	21,52 %	4,72
	2	19,86 %	3,85	21,76 %	3,74
	3	19,03 %	3,83	21,92 %	4,45
	4	19,91 %	3,45	22,55 %	4,12
	5	19,78 %	3,74	23,45 %	4,06
F8	1	19,44 %	3,81	22,00 %	4,73
	2	19,61 %	3,82	21,53 %	3,78
	3	19,66 %	3,76	22,38 %	4,39
	4	20,35 %	3,56	23,06 %	4,12
	5	20,45 %	3,89	23,73 %	4,28

	1	15,77 %	3,09	17,48 %	3,24
	2	15,86 %	3,13	17,06 %	2,31
F9	3	15,88 %	3,09	17,67 %	3,06
	4	16,82 %	2,65	18,13 %	2,63
	5	16,31 %	2,83	18,01 %	2,94

Lampiran 5. Hasil Pengukuran Kadar Minyak Sediaan Krim

Formula	Hari Ke-	Pengukuran Kelembaban			
		Sebelum 30 menit		Setelah 30 menit	
		Rata-rata	SD	Rata-rata	SD
F1	1	27,08	3,92	29,98	4,19
	2	27,15	3,93	29,85	4,34
	3	27,15	3,78	29,95	4,03
	4	27,33	3,76	30,05	4,09
	5	27,63	3,68	30,20	4,28
F2	1	29,04	4,29	32,20	4,07
	2	29,06	4,52	32,25	4,19
	3	28,92	4,67	32,30	4,02
	4	29,02	4,30	32,55	4,02
	5	29,07	4,30	32,38	3,72
F3	1	31,45	4,53	34,02	4,51
	2	31,88	5,02	34,19	4,56
	3	31,79	4,80	34,10	4,73
	4	31,95	4,90	33,95	4,04
	5	32,21	4,92	34,12	4,09
F4	1	33,31	3,85	35,92	4,41
	2	33,46	3,75	35,58	4,44
	3	33,62	3,49	35,68	4,63
	4	33,85	3,96	36,07	4,61
	5	33,84	3,89	36,07	4,59
F5	1	27,16	3,95	30,07	4,26
	2	27,15	4,11	30,20	4,31
	3	27,28	3,98	30,01	4,01
	4	27,34	4,05	27,19	9,03
	5	27,97	3,79	30,28	4,04
F6	1	29,17	4,31	32,47	3,98
	2	29,75	4,42	32,40	3,97
	3	29,48	4,80	32,24	3,91
	4	29,65	4,63	32,77	3,81
	5	29,56	4,99	31,96	4,01
F7	1	31,61	4,68	34,55	4,26
	2	32,36	5,48	34,37	4,55
	3	32,09	5,67	34,72	4,30
	4	32,47	5,98	34,53	4,23
	5	32,24	5,43	34,21	4,33
F8	1	32,64	5,04	35,63	4,51
	2	32,15	4,75	35,78	4,81

	3	34,15	4,72	34,75	4,86
	4	33,68	5,05	36,02	3,96
	5	34,23	4,83	35,89	4,03
	1	24,67	5,04	25,88	4,60
	2	24,95	4,75	25,85	4,61
F9	3	24,95	5,07	25,95	4,58
	4	24,80	5,05	26,12	4,80
	5	25,15	4,83	26,14	4,63

Lampiran 6. Dokumentasi penelitian



Gambar 1. Alat skin analyser



Gambar 2. Pengolesan krim pada hari 1



Gambar 3. Pengukuran kelembaban dan kadar minyak hari 1 menggunakan alat skin analyser



Gambar 4. Pengukuran krim pada hari 2



Gambar5. Pengukuran kelembaban dan kadar minyak hari 3 menggunakan alat skin analyser



Gambar 6. Pengukuran krim pada hari 3



Gambar 7. Pengukuran kelembaban dan kadar minyak hari 4 menggunakan alat skin analyser



Gambar 8. Pemberian konsumsi kepada panelis



Gambar 9. Pengukuran kelembaban dan kadar minyak hari 5 menggunakan alat skin analyser



Gambar 10. Krim fukoidan yang digunakan

Lampiran 7. Perhitungan statistik

Perhitungan selisih nilai kadar air antar formula hari 1-5

Hari 1

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.140	11	.200*	.958	11	.747
F2	.170	11	.200*	.937	11	.489
F3	.189	11	.200*	.949	11	.636
F4	.183	11	.200*	.903	11	.203
F5	.132	11	.200*	.975	11	.933
F6	.169	11	.200*	.925	11	.365
F7	.144	11	.200*	.930	11	.414
F8	.179	11	.200*	.913	11	.263
F9	.183	11	.200*	.893	11	.152

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Perlakuan	.000	78.864	35	.000	.408	.630	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	9.407	8	1.176	1.608	.136
	Greenhouse-Geisser	9.407	3.265	2.881	1.608	.204
	Huynh-Feldt	9.407	5.036	1.868	1.608	.175
	Lower-bound	9.407	1.000	9.407	1.608	.233

Error(Perlakuan)	Sphericity Assumed	58.499	80	.731	
	Greenhouse-Geisser	58.499	32.652	1.792	
	Huynh-Feldt	58.499	50.362	1.162	
	Lower-bound	58.499	10.000	5.850	

Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.182	.175	1.000	-.948	.585
	3	.036	.247	1.000	-1.044	1.116
	4	-.136	.172	1.000	-.888	.615
	5	-.336	.413	1.000	-2.143	1.471
	6	-.618	.544	1.000	-2.996	1.760
	7	-.655	.348	1.000	-2.175	.866
	8	-.573	.368	1.000	-2.181	1.035
	9	.282	.490	1.000	-1.864	2.427
2	1	.182	.175	1.000	-.585	.948
	3	.218	.165	1.000	-.504	.940
	4	.045	.095	1.000	-.369	.460
	5	-.155	.312	1.000	-1.521	1.212
	6	-.436	.557	1.000	-2.874	2.001
	7	-.473	.290	1.000	-1.741	.795
	8	-.391	.313	1.000	-1.761	.979
	9	.464	.369	1.000	-1.150	2.077
3	1	-.036	.247	1.000	-1.116	1.044
	2	-.218	.165	1.000	-.940	.504
	4	-.173	.123	1.000	-.710	.365
	5	-.373	.275	1.000	-1.577	.832
	6	-.655	.545	1.000	-3.039	1.729
	7	-.691	.308	1.000	-2.039	.657
	8	-.609	.352	1.000	-2.150	.932
	9	.245	.382	1.000	-1.426	1.917
4	1	.136	.172	1.000	-.615	.888
	2	-.045	.095	1.000	-.460	.369
	3	.173	.123	1.000	-.365	.710
	5	-.200	.307	1.000	-1.543	1.143
	6	-.482	.527	1.000	-2.785	1.822
	7	-.518	.291	1.000	-1.790	.754

5	8		-0.436	.331	1.000	-1.884	1.011
	9		.418	.375	1.000	-1.223	2.059
	1		.336	.413	1.000	-1.471	2.143
	2		.155	.312	1.000	-1.212	1.521
	3		.373	.275	1.000	-.832	1.577
	4		.200	.307	1.000	-1.143	1.543
	6		-.282	.511	1.000	-2.519	1.956
	7		-.318	.243	1.000	-1.383	.747
	8		-.236	.272	1.000	-1.425	.953
6	9		.618	.368	1.000	-.994	2.230
	1		.618	.544	1.000	-1.760	2.996
	2		.436	.557	1.000	-2.001	2.874
	3		.655	.545	1.000	-1.729	3.039
	4		.482	.527	1.000	-1.822	2.785
	5		.282	.511	1.000	-1.956	2.519
	7		-.036	.447	1.000	-1.994	1.921
	8		.045	.452	1.000	-1.932	2.023
	9		.900	.490	1.000	-1.244	3.044
7	1		.655	.348	1.000	-.866	2.175
	2		.473	.290	1.000	-.795	1.741
	3		.691	.308	1.000	-.657	2.039
	4		.518	.291	1.000	-.754	1.790
	5		.318	.243	1.000	-.747	1.383
	6		.036	.447	1.000	-1.921	1.994
	8		.082	.088	1.000	-.304	.468
	9		.936	.387	1.000	-.756	2.629
	8	1		.573	.368	1.000	-1.035
2			.391	.313	1.000	-.979	1.761
3			.609	.352	1.000	-.932	2.150
4			.436	.331	1.000	-1.011	1.884
5			.236	.272	1.000	-.953	1.425
6			-.045	.452	1.000	-2.023	1.932
7			-.082	.088	1.000	-.468	.304
9			.855	.386	1.000	-.832	2.541
9		1		-.282	.490	1.000	-2.427
	2		-.464	.369	1.000	-2.077	1.150
	3		-.245	.382	1.000	-1.917	1.426
	4		-.418	.375	1.000	-2.059	1.223
	5		-.618	.368	1.000	-2.230	.994
	6		-.900	.490	1.000	-3.044	1.244

7		-.936	.387	1.000	-2.629	.756
8		-.855	.386	1.000	-2.541	.832

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 2

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.250	11	.054	.753	11	.002
F2	.117	11	.200 [*]	.954	11	.699
F3	.144	11	.200 [*]	.944	11	.571
F4	.133	11	.200 [*]	.965	11	.833
F5	.166	11	.200 [*]	.956	11	.719
F6	.129	11	.200 [*]	.969	11	.873
F7	.128	11	.200 [*]	.959	11	.759
F8	.167	11	.200 [*]	.966	11	.839
F9	.189	11	.200 [*]	.928	11	.391

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Perlakuan	.000	94.447	35	.000	.263	.335	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	4.331	8	.541	.585	.788
	Greenhouse-Geisser	4.331	2.105	2.058	.585	.574

	Huynh-Feldt	4.331	2.679	1.616	.585	.612
	Lower-bound	4.331	1.000	4.331	.585	.462
Error(Perlakuan)	Sphericity Assumed	74.062	80	.926		
	Greenhouse-Geisser	74.062	21.048	3.519		
	Huynh-Feldt	74.062	26.793	2.764		
	Lower-bound	74.062	10.000	7.406		

Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.645	.641	1.000	-3.451	2.160
	3	-.445	.537	1.000	-2.794	1.903
	4	-.518	.561	1.000	-2.972	1.936
	5	-.355	.744	1.000	-3.611	2.902
	6	-.582	.877	1.000	-4.419	3.256
	7	-.436	.597	1.000	-3.046	2.173
	8	-.455	.544	1.000	-2.836	1.927
	9	-.055	.643	1.000	-2.867	2.758
2	1	.645	.641	1.000	-2.160	3.451
	3	.200	.185	1.000	-.609	1.009
	4	.127	.172	1.000	-.626	.881
	5	.291	.291	1.000	-.983	1.565
	6	.064	.394	1.000	-1.659	1.787
	7	.209	.314	1.000	-1.164	1.582
	8	.191	.343	1.000	-1.309	1.691
	9	.591	.358	1.000	-.974	2.155
3	1	.445	.537	1.000	-1.903	2.794
	2	-.200	.185	1.000	-1.009	.609
	4	-.073	.086	1.000	-.451	.305
	5	.091	.305	1.000	-1.243	1.425
	6	-.136	.484	1.000	-2.254	1.982
	7	.009	.239	1.000	-1.037	1.055
	8	-.009	.249	1.000	-1.099	1.081
	9	.391	.342	1.000	-1.105	1.887
4	1	.518	.561	1.000	-1.936	2.972
	2	-.127	.172	1.000	-.881	.626
	3	.073	.086	1.000	-.305	.451
	5	.164	.259	1.000	-.971	1.299

	6	-.064	.461	1.000	-2.081	1.953
	7	.082	.204	1.000	-.812	.976
	8	.064	.229	1.000	-.936	1.063
	9	.464	.302	1.000	-.858	1.786
5	1	.355	.744	1.000	-2.902	3.611
	2	-.291	.291	1.000	-1.565	.983
	3	-.091	.305	1.000	-1.425	1.243
	4	-.164	.259	1.000	-1.299	.971
	6	-.227	.337	1.000	-1.701	1.246
	7	-.082	.189	1.000	-.909	.746
	8	-.100	.244	1.000	-1.168	.968
	9	.300	.248	1.000	-.783	1.383
6	1	.582	.877	1.000	-3.256	4.419
	2	-.064	.394	1.000	-1.787	1.659
	3	.136	.484	1.000	-1.982	2.254
	4	.064	.461	1.000	-1.953	2.081
	5	.227	.337	1.000	-1.246	1.701
	7	.145	.416	1.000	-1.674	1.965
	8	.127	.469	1.000	-1.926	2.181
	9	.527	.454	1.000	-1.458	2.513
7	1	.436	.597	1.000	-2.173	3.046
	2	-.209	.314	1.000	-1.582	1.164
	3	-.009	.239	1.000	-1.055	1.037
	4	-.082	.204	1.000	-.976	.812
	5	.082	.189	1.000	-.746	.909
	6	-.145	.416	1.000	-1.965	1.674
	8	-.018	.093	1.000	-.426	.390
	9	.382	.219	1.000	-.578	1.342
8	1	.455	.544	1.000	-1.927	2.836
	2	-.191	.343	1.000	-1.691	1.309
	3	.009	.249	1.000	-1.081	1.099
	4	-.064	.229	1.000	-1.063	.936
	5	.100	.244	1.000	-.968	1.168
	6	-.127	.469	1.000	-2.181	1.926
	7	.018	.093	1.000	-.390	.426
	9	.400	.214	1.000	-.536	1.336
9	1	.055	.643	1.000	-2.758	2.867
	2	-.591	.358	1.000	-2.155	.974
	3	-.391	.342	1.000	-1.887	1.105
	4	-.464	.302	1.000	-1.786	.858

5		- .300	.248	1.000	-1.383	.783
6		- .527	.454	1.000	-2.513	1.458
7		- .382	.219	1.000	-1.342	.578
8		- .400	.214	1.000	-1.336	.536

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 3

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.229	11	.113	.930	11	.413
F2	.152	11	.200 [*]	.922	11	.334
F3	.209	11	.197	.901	11	.189
F4	.212	11	.178	.918	11	.300
F5	.240	11	.077	.910	11	.241
F6	.176	11	.200 [*]	.881	11	.106
F7	.208	11	.199	.853	11	.047
F8	.181	11	.200 [*]	.918	11	.305
F9	.189	11	.200 [*]	.956	11	.717

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Perlakuan	.000	83.619	35	.000	.282	.368	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	7.532	8	.941	.784	.618
	Greenhouse-Geisser	7.532	2.255	3.340	.784	.483
	Huynh-Feldt	7.532	2.944	2.558	.784	.511
	Lower-bound	7.532	1.000	7.532	.784	.397
Error(Perlakuan)	Sphericity Assumed	96.124	80	1.202		
	Greenhouse-Geisser	96.124	22.548	4.263		
	Huynh-Feldt	96.124	29.441	3.265		
	Lower-bound	96.124	10.000	9.612		

Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	.073	.140	1.000	-.541	.686
	3	.000	.212	1.000	-.929	.929
	4	.045	.163	1.000	-.668	.759
	5	-.345	.380	1.000	-2.006	1.315
	6	-.545	.720	1.000	-3.694	2.603
	7	-.636	.405	1.000	-2.409	1.136
	8	-.455	.317	1.000	-1.842	.933
	9	.073	.581	1.000	-2.470	2.615
	2	1	-.073	.140	1.000	-.686
3		-.073	.145	1.000	-.708	.563
4		-.027	.099	1.000	-.461	.407
5		-.418	.423	1.000	-2.267	1.431
6		-.618	.708	1.000	-3.716	2.480
7		-.709	.431	1.000	-2.595	1.177
8		-.527	.368	1.000	-2.135	1.081
9		.000	.591	1.000	-2.584	2.584

3	1	.000	.212	1.000	-.929	.929
	2	.073	.145	1.000	-.563	.708
	4	.045	.137	1.000	-.554	.645
	5	-.345	.434	1.000	-2.245	1.554
	6	-.545	.691	1.000	-3.568	2.477
	7	-.636	.426	1.000	-2.498	1.226
	8	-.455	.452	1.000	-2.431	1.522
	9	.073	.577	1.000	-2.454	2.599
	4	1	-.045	.163	1.000	-.759
2		.027	.099	1.000	-.407	.461
3		-.045	.137	1.000	-.645	.554
5		-.391	.410	1.000	-2.186	1.405
6		-.591	.651	1.000	-3.440	2.258
7		-.682	.422	1.000	-2.527	1.164
8		-.500	.380	1.000	-2.162	1.162
9		.027	.536	1.000	-2.319	2.374
5		1	.345	.380	1.000	-1.315
	2	.418	.423	1.000	-1.431	2.267
	3	.345	.434	1.000	-1.554	2.245
	4	.391	.410	1.000	-1.405	2.186
	6	-.200	.472	1.000	-2.265	1.865
	7	-.291	.272	1.000	-1.482	.900
	8	-.109	.460	1.000	-2.123	1.905
	9	.418	.388	1.000	-1.281	2.117
	6	1	.545	.720	1.000	-2.603
2		.618	.708	1.000	-2.480	3.716
3		.545	.691	1.000	-2.477	3.568
4		.591	.651	1.000	-2.258	3.440
5		.200	.472	1.000	-1.865	2.265
7		-.091	.579	1.000	-2.625	2.443
8		.091	.752	1.000	-3.199	3.381
9		.618	.322	1.000	-.789	2.025
7		1	.636	.405	1.000	-1.136
	2	.709	.431	1.000	-1.177	2.595
	3	.636	.426	1.000	-1.226	2.498
	4	.682	.422	1.000	-1.164	2.527
	5	.291	.272	1.000	-.900	1.482
	6	.091	.579	1.000	-2.443	2.625
	8	.182	.432	1.000	-1.709	2.073
	9	.709	.475	1.000	-1.367	2.785

8	1	.455	.317	1.000	-.933	1.842
	2	.527	.368	1.000	-1.081	2.135
	3	.455	.452	1.000	-1.522	2.431
	4	.500	.380	1.000	-1.162	2.162
	5	.109	.460	1.000	-1.905	2.123
	6	-.091	.752	1.000	-3.381	3.199
	7	-.182	.432	1.000	-2.073	1.709
	9	.527	.668	1.000	-2.393	3.448
9	1	-.073	.581	1.000	-2.615	2.470
	2	.000	.591	1.000	-2.584	2.584
	3	-.073	.577	1.000	-2.599	2.454
	4	-.027	.536	1.000	-2.374	2.319
	5	-.418	.388	1.000	-2.117	1.281
	6	-.618	.322	1.000	-2.025	.789
	7	-.709	.475	1.000	-2.785	1.367
	8	-.527	.668	1.000	-3.448	2.393

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 4

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
F1	.174	11	.200*	.935	11	.461
F2	.139	11	.200*	.954	11	.696
F3	.133	11	.200*	.947	11	.610
F4	.147	11	.200*	.916	11	.284
F5	.150	11	.200*	.958	11	.745
F6	.107	11	.200*	.974	11	.920
F7	.148	11	.200*	.922	11	.336
F8	.189	11	.200*	.956	11	.717
F9	.145	11	.200*	.944	11	.575

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Greenhouse-Geisser	Epsilon ^b Huynh-Feldt	Lower-bound
Perlakuan	.002	46.156	35	.164	.490	.846	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	8.340	8	1.042	1.579	.144
	Greenhouse-Geisser	8.340	3.921	2.127	1.579	.200
	Huynh-Feldt	8.340	6.767	1.232	1.579	.159
	Lower-bound	8.340	1.000	8.340	1.579	.238
Error(Perlakuan)	Sphericity Assumed	52.831	80	.660		
	Greenhouse-Geisser	52.831	39.214	1.347		
	Huynh-Feldt	52.831	67.671	.781		
	Lower-bound	52.831	10.000	5.283		

Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.036	.246	1.000	-1.112	1.039
	3	-.100	.359	1.000	-1.670	1.470
	4	-.200	.340	1.000	-1.686	1.286
	5	-.391	.371	1.000	-2.014	1.233
	6	-.591	.386	1.000	-2.281	1.099
	7	-.518	.405	1.000	-2.290	1.253
	8	-.591	.308	1.000	-1.938	.756
	9	.300	.357	1.000	-1.261	1.861
2	1	.036	.246	1.000	-1.039	1.112
	3	-.064	.252	1.000	-1.166	1.039
	4	-.164	.273	1.000	-1.358	1.031

	5		-.355	.306	1.000	-1.691	.982
	6		-.555	.387	1.000	-2.248	1.139
	7		-.482	.352	1.000	-2.022	1.058
	8		-.555	.285	1.000	-1.802	.693
	9		.336	.399	1.000	-1.409	2.082
3	1		.100	.359	1.000	-1.470	1.670
	2		.064	.252	1.000	-1.039	1.166
	4		-.100	.199	1.000	-.969	.769
	5		-.291	.335	1.000	-1.757	1.175
	6		-.491	.455	1.000	-2.481	1.499
	7		-.418	.380	1.000	-2.080	1.244
	8		-.491	.332	1.000	-1.941	.959
	9		.400	.451	1.000	-1.572	2.372
4	1		.200	.340	1.000	-1.286	1.686
	2		.164	.273	1.000	-1.031	1.358
	3		.100	.199	1.000	-.769	.969
	5		-.191	.250	1.000	-1.283	.901
	6		-.391	.448	1.000	-2.350	1.569
	7		-.318	.306	1.000	-1.657	1.020
	8		-.391	.257	1.000	-1.517	.735
	9		.500	.458	1.000	-1.506	2.506
5	1		.391	.371	1.000	-1.233	2.014
	2		.355	.306	1.000	-.982	1.691
	3		.291	.335	1.000	-1.175	1.757
	4		.191	.250	1.000	-.901	1.283
	6		-.200	.435	1.000	-2.105	1.705
	7		-.127	.184	1.000	-.932	.677
	8		-.200	.130	1.000	-.769	.369
	9		.691	.412	1.000	-1.113	2.495
6	1		.591	.386	1.000	-1.099	2.281
	2		.555	.387	1.000	-1.139	2.248
	3		.491	.455	1.000	-1.499	2.481
	4		.391	.448	1.000	-1.569	2.350
	5		.200	.435	1.000	-1.705	2.105
	7		.073	.407	1.000	-1.710	1.855
	8		.000	.376	1.000	-1.646	1.646
	9		.891	.335	.859	-.574	2.355
7	1		.518	.405	1.000	-1.253	2.290
	2		.482	.352	1.000	-1.058	2.022
	3		.418	.380	1.000	-1.244	2.080

	4	.318	.306	1.000	-1.020	1.657
	5	.127	.184	1.000	-.677	.932
	6	-.073	.407	1.000	-1.855	1.710
	8	-.073	.124	1.000	-.614	.468
	9	.818	.416	1.000	-1.001	2.637
8	1	.591	.308	1.000	-.756	1.938
	2	.555	.285	1.000	-.693	1.802
	3	.491	.332	1.000	-.959	1.941
	4	.391	.257	1.000	-.735	1.517
	5	.200	.130	1.000	-.369	.769
	6	.000	.376	1.000	-1.646	1.646
	7	.073	.124	1.000	-.468	.614
	9	.891	.363	1.000	-.697	2.479
9	1	-.300	.357	1.000	-1.861	1.261
	2	-.336	.399	1.000	-2.082	1.409
	3	-.400	.451	1.000	-2.372	1.572
	4	-.500	.458	1.000	-2.506	1.506
	5	-.691	.412	1.000	-2.495	1.113
	6	-.891	.335	.859	-2.355	.574
	7	-.818	.416	1.000	-2.637	1.001
	8	-.891	.363	1.000	-2.479	.697

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 5

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.189	11	.200*	.929	11	.403
F2	.192	11	.200*	.930	11	.409
F3	.167	11	.200*	.969	11	.881
F4	.184	11	.200*	.902	11	.196
F5	.248	11	.058	.863	11	.062
F6	.103	11	.200*	.983	11	.980
F7	.201	11	.200*	.906	11	.221
F8	.173	11	.200*	.886	11	.123
F9	.203	11	.200*	.933	11	.439

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Greenhouse-Geisser	Epsilon ^b	
						Huynh-Feldt	Lower-bound
Perlakuan	.008	34.112	35	.497	.443	.717	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
		Perlakuan	Sphericity Assumed	32.084	8	4.010
	Greenhouse-Geisser	32.084	3.546	9.048	2.843	.044
	Huynh-Feldt	32.084	5.734	5.595	2.843	.019
	Lower-bound	32.084	1.000	32.084	2.843	.123
Error(Perlakuan)	Sphericity Assumed	112.836	80	1.410		
	Greenhouse-Geisser	112.836	35.461	3.182		
	Huynh-Feldt	112.836	57.340	1.968		
	Lower-bound	112.836	10.000	11.284		

Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	-.545	.458	1.000	-2.551	1.460
	3	-.609	.467	1.000	-2.650	1.432
	4	-.045	.416	1.000	-1.866	1.775
	5	-.009	.504	1.000	-2.213	2.194
	6	.400	.565	1.000	-2.072	2.872
	7	-.800	.526	1.000	-3.099	1.499
	8	-.418	.678	1.000	-3.383	2.546
	9	1.164	.534	1.000	-1.173	3.500
2	1	.545	.458	1.000	-1.460	2.551
	3	-.064	.202	1.000	-.947	.820
	4	.500	.406	1.000	-1.275	2.275

	5	.536	.531	1.000	-1.788	2.861
	6	.945	.432	1.000	-.946	2.837
	7	-.255	.512	1.000	-2.494	1.985
	8	.127	.538	1.000	-2.226	2.480
	9	1.709	.480	1.000	-.391	3.809
3	1	.609	.467	1.000	-1.432	2.650
	2	.064	.202	1.000	-.820	.947
	4	.564	.426	1.000	-1.301	2.428
	5	.600	.491	1.000	-1.549	2.749
	6	1.009	.408	1.000	-.774	2.792
	7	-.191	.466	1.000	-2.231	1.849
	8	.191	.537	1.000	-2.156	2.538
	9	1.773	.491	1.000	-.375	3.921
4	1	.045	.416	1.000	-1.775	1.866
	2	-.500	.406	1.000	-2.275	1.275
	3	-.564	.426	1.000	-2.428	1.301
	5	.036	.577	1.000	-2.487	2.560
	6	.445	.488	1.000	-1.691	2.582
	7	-.755	.530	1.000	-3.075	1.566
	8	-.373	.587	1.000	-2.941	2.195
	9	1.209	.545	1.000	-1.175	3.593
5	1	.009	.504	1.000	-2.194	2.213
	2	-.536	.531	1.000	-2.861	1.788
	3	-.600	.491	1.000	-2.749	1.549
	4	-.036	.577	1.000	-2.560	2.487
	6	.409	.355	1.000	-1.143	1.961
	7	-.791	.667	1.000	-3.710	2.128
	8	-.409	.409	1.000	-2.199	1.381
	9	1.173	.304	.114	-.157	2.502
6	1	-.400	.565	1.000	-2.872	2.072
	2	-.945	.432	1.000	-2.837	.946
	3	-1.009	.408	1.000	-2.792	.774
	4	-.445	.488	1.000	-2.582	1.691
	5	-.409	.355	1.000	-1.961	1.143
	7	-1.200	.712	1.000	-4.316	1.916
	8	-.818	.388	1.000	-2.517	.881
	9	.764	.325	1.000	-.659	2.186
7	1	.800	.526	1.000	-1.499	3.099
	2	.255	.512	1.000	-1.985	2.494
	3	.191	.466	1.000	-1.849	2.231

	4	.755	.530	1.000	-1.566	3.075
	5	.791	.667	1.000	-2.128	3.710
	6	1.200	.712	1.000	-1.916	4.316
	8	.382	.752	1.000	-2.910	3.673
	9	1.964	.694	.645	-1.074	5.002
8	1	.418	.678	1.000	-2.546	3.383
	2	-.127	.538	1.000	-2.480	2.226
	3	-.191	.537	1.000	-2.538	2.156
	4	.373	.587	1.000	-2.195	2.941
	5	.409	.409	1.000	-1.381	2.199
	6	.818	.388	1.000	-.881	2.517
	7	-.382	.752	1.000	-3.673	2.910
	9	1.582*	.328	.672	.146	3.018
9	1	-1.164	.534	1.000	-3.500	1.173
	2	-1.709	.480	.186	-3.809	.391
	3	-1.773	.491	.172	-3.921	.375
	4	-1.209	.545	1.000	-3.593	1.175
	5	-1.173	.304	.114	-2.502	.157
	6	-.764	.325	1.000	-2.186	.659
	7	-1.964	.694	.645	-5.002	1.074
	8	-1.582*	.328	.675	-3.018	-.146

Based on estimated marginal means

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

b. Adjustment for multiple comparisons: Bonferroni.

Perhitungan selisih nilai kadar minyak antar formula hari 1-5

Hari 1

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.187	11	.200*	.879	11	.100
F2	.087	11	.200*	.977	11	.948
F3	.206	11	.200*	.925	11	.364
F4	.187	11	.200*	.910	11	.245
F5	.167	11	.200*	.906	11	.218
F6	.111	11	.200*	.955	11	.707
F7	.217	11	.156	.837	11	.028
F8	.194	11	.200*	.910	11	.243
F9	.247	11	.060	.780	11	.005

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Perlakuan	.000	89.336	35	.000	.291	.384	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	Df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	33.912	8	4.239	2.126	.043
	Greenhouse-Geisser	33.912	2.325	14.584	2.126	.136
	Huynh-Feldt	33.912	3.072	11.038	2.126	.116
	Lower-bound	33.912	1.000	33.912	2.126	.176
Error(Perlakuan)	Sphericity Assumed	159.526	80	1.994		
	Greenhouse-Geisser	159.526	23.253	6.860		
	Huynh-Feldt	159.526	30.722	5.193		

Lower-bound	159.526	10.000	15.953		
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Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference			95% Confidence Interval for Difference ^a	
		(I-J)	Std. Error	Sig. ^a	Lower Bound	Upper Bound
1	2	-.391	.343	1.000	-1.893	1.111
	3	-.173	.414	1.000	-1.985	1.640
	4	-.082	1.125	1.000	-5.004	4.840
	5	.009	.108	1.000	-.464	.483
	6	-.255	.364	1.000	-1.845	1.336
	7	.191	.425	1.000	-1.669	2.051
	8	.300	.505	1.000	-1.910	2.510
	9	1.700	.536	.358	-.645	4.045
	2	1	.391	.343	1.000	-1.111
3		.218	.269	1.000	-.958	1.395
4		.309	.887	1.000	-3.571	4.190
5		.400	.262	1.000	-.747	1.547
6		.136	.231	1.000	-.872	1.145
7		.582	.365	1.000	-1.013	2.176
8		.691	.383	1.000	-.985	2.367
9		2.091	.540	.111	-.270	4.452
3		1	.173	.414	1.000	-1.640
	2	-.218	.269	1.000	-1.395	.958
	4	.091	.922	1.000	-3.942	4.124
	5	.182	.326	1.000	-1.246	1.610
	6	-.082	.362	1.000	-1.667	1.503
	7	.364	.270	1.000	-.819	1.547
	8	.473	.341	1.000	-1.017	1.963
	9	1.873	.695	.812	-1.169	4.914
	4	1	.082	1.125	1.000	-4.840
2		-.309	.887	1.000	-4.190	3.571
3		-.091	.922	1.000	-4.124	3.942
5		.091	1.049	1.000	-4.499	4.680
6		-.173	.993	1.000	-4.516	4.170
7		.273	1.007	1.000	-4.132	4.677
8		.382	.919	1.000	-3.640	4.403
9		1.782	1.109	1.000	-3.071	6.635
5		1	-.009	.108	1.000	-.483
	2	-.400	.262	1.000	-1.547	.747

	3		-.182	.326	1.000	-1.610	1.246
	4		-.091	1.049	1.000	-4.680	4.499
	6		-.264	.304	1.000	-1.595	1.068
	7		.182	.360	1.000	-1.392	1.756
	8		.291	.437	1.000	-1.622	2.204
	9		1.691	.525	.331	-.607	3.989
6	1		.255	.364	1.000	-1.336	1.845
	2		-.136	.231	1.000	-1.145	.872
	3		.082	.362	1.000	-1.503	1.667
	4		.173	.993	1.000	-4.170	4.516
	5		.264	.304	1.000	-1.068	1.595
	7		.445	.303	1.000	-.878	1.769
	8		.555	.343	1.000	-.944	2.053
	9		1.955	.541	.171	-.413	4.322
7	1		-.191	.425	1.000	-2.051	1.669
	2		-.582	.365	1.000	-2.176	1.013
	3		-.364	.270	1.000	-1.547	.819
	4		-.273	1.007	1.000	-4.677	4.132
	5		-.182	.360	1.000	-1.756	1.392
	6		-.445	.303	1.000	-1.769	.878
	8		.109	.313	1.000	-1.258	1.477
	9		1.509	.717	1.000	-1.628	4.646
8	1		-.300	.505	1.000	-2.510	1.910
	2		-.691	.383	1.000	-2.367	.985
	3		-.473	.341	1.000	-1.963	1.017
	4		-.382	.919	1.000	-4.403	3.640
	5		-.291	.437	1.000	-2.204	1.622
	6		-.555	.343	1.000	-2.053	.944
	7		-.109	.313	1.000	-1.477	1.258
	9		1.400	.582	1.000	-1.148	3.948
9	1		-1.700	.536	.358	-4.045	.645
	2		-2.091	.540	.111	-4.452	.270
	3		-1.873	.695	.812	-4.914	1.169
	4		-1.782	1.109	1.000	-6.635	3.071
	5		-1.691	.525	.331	-3.989	.607
	6		-1.955	.541	.171	-4.322	.413
	7		-1.509	.717	1.000	-4.646	1.628
	8		-1.400	.582	1.000	-3.948	1.148

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 2

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.211	11	.183	.953	11	.679
F2	.136	11	.200*	.935	11	.459
F3	.221	11	.139	.898	11	.175
F4	.194	11	.200*	.939	11	.508
F5	.221	11	.138	.936	11	.472
F6	.159	11	.200*	.959	11	.765
F7	.177	11	.200*	.941	11	.531
F8	.178	11	.200*	.937	11	.486
F9	.113	11	.200*	.965	11	.827

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Perlakuan	.000	85.930	35	.000	.232	.282	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	13.798	8	1.725	.664	.721
	Greenhouse-Geisser	13.798	1.853	7.445	.664	.516
	Huynh-Feldt	13.798	2.257	6.114	.664	.542
	Lower-bound	13.798	1.000	13.798	.664	.434
Error(Perlakuan)	Sphericity Assumed	207.779	80	2.597		
	Greenhouse-Geisser	207.779	18.533	11.212		
	Huynh-Feldt	207.779	22.568	9.207		

Lower-bound	207.779	10.000	20.778		
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Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	.409	.494	1.000	-1.751	2.569
	3	.473	.403	1.000	-1.288	2.234
	4	.709	1.324	1.000	-5.082	6.500
	5	.164	.314	1.000	-1.210	1.537
	6	-.136	.422	1.000	-1.980	1.708
	7	.455	.474	1.000	-1.618	2.527
	8	.936	.562	1.000	-1.521	3.394
	9	-.264	.389	1.000	-1.966	1.439
	2	1	-.409	.494	1.000	-2.569
3		.064	.291	1.000	-1.211	1.339
4		.300	1.033	1.000	-4.218	4.818
5		-.245	.467	1.000	-2.289	1.798
6		-.545	.249	1.000	-1.634	.543
7		.045	.459	1.000	-1.960	2.051
8		.527	.480	1.000	-1.573	2.628
9		-.673	.587	1.000	-3.243	1.897
3		1	-.473	.403	1.000	-2.234
	2	-.064	.291	1.000	-1.339	1.211
	4	.236	1.102	1.000	-4.583	5.056
	5	-.309	.304	1.000	-1.638	1.020
	6	-.609	.320	1.000	-2.008	.790
	7	-.018	.370	1.000	-1.636	1.599
	8	.464	.517	1.000	-1.797	2.724
	9	-.736	.420	1.000	-2.573	1.100
	4	1	-.709	1.324	1.000	-6.500
2		-.300	1.033	1.000	-4.818	4.218
3		-.236	1.102	1.000	-5.056	4.583
5		-.545	1.284	1.000	-6.164	5.073
6		-.845	1.140	1.000	-5.832	4.142
7		-.255	1.213	1.000	-5.562	5.053
8		.227	1.179	1.000	-4.928	5.383
9		-.973	1.404	1.000	-7.113	5.168
5		1	-.164	.314	1.000	-1.537
	2	.245	.467	1.000	-1.798	2.289

	3	.309	.304	1.000	-1.020	1.638
	4	.545	1.284	1.000	-5.073	6.164
	6	-.300	.409	1.000	-2.088	1.488
	7	.291	.397	1.000	-1.447	2.029
	8	.773	.462	1.000	-1.249	2.795
	9	-.427	.147	.555	-1.068	.214
6	1	.136	.422	1.000	-1.708	1.980
	2	.545	.249	1.000	-.543	1.634
	3	.609	.320	1.000	-.790	2.008
	4	.845	1.140	1.000	-4.142	5.832
	5	.300	.409	1.000	-1.488	2.088
	7	.591	.412	1.000	-1.211	2.393
	8	1.073	.427	1.000	-.796	2.942
	9	-.127	.529	1.000	-2.440	2.185
7	1	-.455	.474	1.000	-2.527	1.618
	2	-.045	.459	1.000	-2.051	1.960
	3	.018	.370	1.000	-1.599	1.636
	4	.255	1.213	1.000	-5.053	5.562
	5	-.291	.397	1.000	-2.029	1.447
	6	-.591	.412	1.000	-2.393	1.211
	8	.482	.414	1.000	-1.328	2.291
	9	-.718	.485	1.000	-2.838	1.402
8	1	-.936	.562	1.000	-3.394	1.521
	2	-.527	.480	1.000	-2.628	1.573
	3	-.464	.517	1.000	-2.724	1.797
	4	-.227	1.179	1.000	-5.383	4.928
	5	-.773	.462	1.000	-2.795	1.249
	6	-1.073	.427	1.000	-2.942	.796
	7	-.482	.414	1.000	-2.291	1.328
	9	-1.200	.540	1.000	-3.561	1.161
9	1	.264	.389	1.000	-1.439	1.966
	2	.673	.587	1.000	-1.897	3.243
	3	.736	.420	1.000	-1.100	2.573
	4	.973	1.404	1.000	-5.168	7.113
	5	.427	.147	.555	-.214	1.068
	6	.127	.529	1.000	-2.185	2.440
	7	.718	.485	1.000	-1.402	2.838
	8	1.200	.540	1.000	-1.161	3.561

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 3

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.185	11	.200*	.944	11	.568
F2	.193	11	.200*	.933	11	.445
F3	.159	11	.200*	.947	11	.612
F4	.134	11	.200*	.949	11	.634
F5	.153	11	.200*	.962	11	.793
F6	.196	11	.200*	.891	11	.143
F7	.171	11	.200*	.951	11	.661
F8	.143	11	.200*	.963	11	.812
F9	.181	11	.200*	.869	11	.074

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Greenhouse-Geisser	Epsilon ^b	
						Huynh-Feldt	Lower-bound
Perlakuan	.003	41.218	35	.514	.428	.677	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	33.534	8	4.192	2.273	.052
	Greenhouse-Geisser	33.534	3.421	9.804	2.273	.090
	Huynh-Feldt	33.534	5.415	6.193	2.273	.056
	Lower-bound	33.534	1.000	33.534	2.273	.163
Error(Perlakuan)	Sphericity Assumed	147.555	80	1.844		
	Greenhouse-Geisser	147.555	34.206	4.314		
	Huynh-Feldt	147.555	54.148	2.725		

Lower-bound	147.555	10.000	14.755		
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Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.027	.515	1.000	-2.279	2.224
	3	-.173	.603	1.000	-2.811	2.465
	4	.182	.367	1.000	-1.423	1.786
	5	-.073	.514	1.000	-2.320	2.174
	6	-.245	.479	1.000	-2.342	1.851
	7	.418	.711	1.000	-2.691	3.527
	8	.664	.524	1.000	-1.630	2.958
	9	1.727	.636	.780	-1.054	4.509
	2	1	.027	.515	1.000	-2.224
3		-.145	.493	1.000	-2.303	2.013
4		.209	.538	1.000	-2.145	2.563
5		-.045	.427	1.000	-1.913	1.822
6		-.218	.400	1.000	-1.969	1.533
7		.445	.522	1.000	-1.840	2.731
8		.691	.425	1.000	-1.167	2.549
9		1.755	.713	1.000	-1.364	4.873
3		1	.173	.603	1.000	-2.465
	2	.145	.493	1.000	-2.013	2.303
	4	.355	.550	1.000	-2.051	2.760
	5	.100	.544	1.000	-2.279	2.479
	6	-.073	.506	1.000	-2.287	2.142
	7	.591	.506	1.000	-1.623	2.805
	8	.836	.503	1.000	-1.364	3.037
	9	1.900	.894	1.000	-2.012	5.812
	4	1	-.182	.367	1.000	-1.786
2		-.209	.538	1.000	-2.563	2.145
3		-.355	.550	1.000	-2.760	2.051
5		-.255	.433	1.000	-2.149	1.640
6		-.427	.409	1.000	-2.217	1.362
7		.236	.662	1.000	-2.661	3.134
8		.482	.493	1.000	-1.673	2.637
9		1.545	.723	1.000	-1.617	4.708
5		1	.073	.514	1.000	-2.174
	2	.045	.427	1.000	-1.822	1.913

	3		-.100	.544	1.000	-2.479	2.279
	4		.255	.433	1.000	-1.640	2.149
	6		-.173	.487	1.000	-2.304	1.958
	7		.491	.621	1.000	-2.226	3.208
	8		.736	.458	1.000	-1.268	2.740
	9		1.800	.784	1.000	-1.630	5.230
6	1		.245	.479	1.000	-1.851	2.342
	2		.218	.400	1.000	-1.533	1.969
	3		.073	.506	1.000	-2.142	2.287
	4		.427	.409	1.000	-1.362	2.217
	5		.173	.487	1.000	-1.958	2.304
	7		.664	.468	1.000	-1.382	2.709
	8		.909	.258	.197	-.219	2.037
	9		1.973	.731	.806	-1.226	5.172
7	1		-.418	.711	1.000	-3.527	2.691
	2		-.445	.522	1.000	-2.731	1.840
	3		-.591	.506	1.000	-2.805	1.623
	4		-.236	.662	1.000	-3.134	2.661
	5		-.491	.621	1.000	-3.208	2.226
	6		-.664	.468	1.000	-2.709	1.382
	8		.245	.339	1.000	-1.238	1.729
	9		1.309	1.045	1.000	-3.260	5.878
8	1		-.664	.524	1.000	-2.958	1.630
	2		-.691	.425	1.000	-2.549	1.167
	3		-.836	.503	1.000	-3.037	1.364
	4		-.482	.493	1.000	-2.637	1.673
	5		-.736	.458	1.000	-2.740	1.268
	6		-.909	.258	.197	-2.037	.219
	7		-.245	.339	1.000	-1.729	1.238
	9		1.064	.775	1.000	-2.325	4.452
9	1		-1.727	.636	.780	-4.509	1.054
	2		-1.755	.713	1.000	-4.873	1.364
	3		-1.900	.894	1.000	-5.812	2.012
	4		-1.545	.723	1.000	-4.708	1.617
	5		-1.800	.784	1.000	-5.230	1.630
	6		-1.973	.731	.806	-5.172	1.226
	7		-1.309	1.045	1.000	-5.878	3.260
	8		-1.064	.775	1.000	-4.452	2.325

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 4

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.130	11	.200*	.965	11	.831
F2	.123	11	.200*	.947	11	.604
F3	.175	11	.200*	.930	11	.409
F4	.228	11	.116	.819	11	.017
F5	.190	11	.200*	.963	11	.812
F6	.124	11	.200*	.985	11	.988
F7	.096	11	.200*	.959	11	.755
F8	.133	11	.200*	.976	11	.938
F9	.175	11	.200*	.904	11	.207

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Perlakuan	.000	55.250	35	.034	.451	.736	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	23.105	8	2.888	2.256	.031
	Greenhouse-Geisser	23.105	3.605	6.408	2.256	.088
	Huynh-Feldt	23.105	5.889	3.923	2.256	.051
	Lower-bound	23.105	1.000	23.105	2.256	.164
Error(Perlakuan)	Sphericity Assumed	102.408	80	1.280		
	Greenhouse-Geisser	102.408	36.055	2.840		
	Huynh-Feldt	102.408	58.894	1.739		

Lower-bound	102.408	10.000	10.241		
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Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Interval for Difference ^a	
					Lower Bound	Upper Bound
1	2	-.445	.411	1.000	-2.244	1.353
	3	.355	.477	1.000	-1.734	2.443
	4	-.018	.337	1.000	-1.493	1.456
	5	-.145	.324	1.000	-1.562	1.271
	6	-.364	.494	1.000	-2.526	1.798
	7	-.027	.455	1.000	-2.019	1.964
	8	.364	.670	1.000	-2.569	3.296
	9	1.264	.583	1.000	-1.286	3.813
	2	1	.445	.411	1.000	-1.353
3		.800	.380	1.000	-.862	2.462
4		.427	.381	1.000	-1.240	2.095
5		.300	.292	1.000	-.979	1.579
6		.082	.473	1.000	-1.988	2.151
7		.418	.384	1.000	-1.263	2.099
8		.809	.451	1.000	-1.165	2.783
9		1.709	.653	.926	-1.148	4.566
3		1	-.355	.477	1.000	-2.443
	2	-.800	.380	1.000	-2.462	.862
	4	-.373	.480	1.000	-2.474	1.729
	5	-.500	.361	1.000	-2.077	1.077
	6	-.718	.411	1.000	-2.515	1.079
	7	-.382	.178	1.000	-1.160	.396
	8	.009	.408	1.000	-1.778	1.796
	9	.909	.752	1.000	-2.382	4.200
	4	1	.018	.337	1.000	-1.456
2		-.427	.381	1.000	-2.095	1.240
3		.373	.480	1.000	-1.729	2.474
5		-.127	.339	1.000	-1.611	1.357
6		-.345	.305	1.000	-1.681	.990
7		-.009	.425	1.000	-1.866	1.848
8		.382	.597	1.000	-2.231	2.995
9		1.282	.498	1.000	-.898	3.462
5		1	.145	.324	1.000	-1.271
	2	-.300	.292	1.000	-1.579	.979

	3	.500	.361	1.000	-1.077	2.077
	4	.127	.339	1.000	-1.357	1.611
	6	-.218	.420	1.000	-2.056	1.620
	7	.118	.368	1.000	-1.490	1.726
	8	.509	.457	1.000	-1.489	2.507
	9	1.409	.651	1.000	-1.439	4.257
6	1	.364	.494	1.000	-1.798	2.526
	2	-.082	.473	1.000	-2.151	1.988
	3	.718	.411	1.000	-1.079	2.515
	4	.345	.305	1.000	-.990	1.681
	5	.218	.420	1.000	-1.620	2.056
	7	.336	.311	1.000	-1.025	1.697
	8	.727	.530	1.000	-1.593	3.047
	9	1.627	.585	.697	-.931	4.186
7	1	.027	.455	1.000	-1.964	2.019
	2	-.418	.384	1.000	-2.099	1.263
	3	.382	.178	1.000	-.396	1.160
	4	.009	.425	1.000	-1.848	1.866
	5	-.118	.368	1.000	-1.726	1.490
	6	-.336	.311	1.000	-1.697	1.025
	8	.391	.464	1.000	-1.640	2.422
	9	1.291	.655	1.000	-1.573	4.154
8	1	-.364	.670	1.000	-3.296	2.569
	2	-.809	.451	1.000	-2.783	1.165
	3	-.009	.408	1.000	-1.796	1.778
	4	-.382	.597	1.000	-2.995	2.231
	5	-.509	.457	1.000	-2.507	1.489
	6	-.727	.530	1.000	-3.047	1.593
	7	-.391	.464	1.000	-2.422	1.640
	9	.900	.742	1.000	-2.348	4.148
9	1	-1.264	.583	1.000	-3.813	1.286
	2	-1.709	.653	.926	-4.566	1.148
	3	-.909	.752	1.000	-4.200	2.382
	4	-1.282	.498	1.000	-3.462	.898
	5	-1.409	.651	1.000	-4.257	1.439
	6	-1.627	.585	.697	-4.186	.931
	7	-1.291	.655	1.000	-4.154	1.573
	8	-.900	.742	1.000	-4.148	2.348

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Hari 5

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1	.163	11	.200*	.942	11	.540
F2	.171	11	.200*	.951	11	.659
F3	.182	11	.200*	.918	11	.303
F4	.141	11	.200*	.982	11	.975
F5	.179	11	.200*	.941	11	.533
F6	.190	11	.200*	.891	11	.144
F7	.164	11	.200*	.953	11	.683
F8	.175	11	.200*	.944	11	.565
F9	.167	11	.200*	.929	11	.400

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

a. Lilliefors Significance Correction

Mauchly's Test of Sphericity^a

Measure: Krim

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Greenhouse-Geisser	Epsilon ^b	
						Huynh-Feldt	Lower-bound
Perlakuan	.002	44.691	35	.203	.494	.857	.125

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Perlakuan

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: Krim

Source		Type III Sum of Squares		df	Mean Square	F	Sig.
Perlakuan	Sphericity Assumed	70.202	8	8.775	4.465	.000	
	Greenhouse-Geisser	70.202	3.952	17.762	4.465	.005	
	Huynh-Feldt	70.202	6.858	10.236	4.465	.000	
	Lower-bound	70.202	1.000	70.202	4.465	.061	
Error(Perlakuan)	Sphericity Assumed	157.243	80	1.966			
	Greenhouse-Geisser	157.243	39.524	3.978			
	Huynh-Feldt	157.243	68.584	2.293			
	Lower-bound	157.243	10.000	15.724			

Pairwise Comparisons

Measure: Krim

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	.736	.380	1.000	-.928	2.401
	3	1.136	.602	1.000	-1.498	3.771
	4	-.264	.225	1.000	-1.246	.719
	5	1.200	.462	.954	-.819	3.219
	6	1.327*	.257	.015	.203	2.451
	7	.755	.696	1.000	-2.289	3.798
	8	1.536	.754	1.000	-1.764	4.837
	9	2.791	.658	.062	-.088	5.670
	2	1	-.736	.380	1.000	-2.401
3		.400	.546	1.000	-1.990	2.790
4		-1.000	.426	1.000	-2.864	.864
5		.464	.511	1.000	-1.773	2.700
6		.591	.415	1.000	-1.225	2.407
7		.018	.715	1.000	-3.109	3.145
8		.800	.692	1.000	-2.226	3.826
9		2.055	.744	.721	-1.199	5.308
3		1	-1.136	.602	1.000	-3.771
	2	-.400	.546	1.000	-2.790	1.990
	4	-1.400	.560	1.000	-3.850	1.050
	5	.064	.535	1.000	-2.278	2.406
	6	.191	.587	1.000	-2.375	2.757
	7	-.382	.620	1.000	-3.095	2.332
	8	.400	.559	1.000	-2.046	2.846
	9	1.655	.731	1.000	-1.542	4.851
	4	1	.264	.225	1.000	-.719
2		1.000	.426	1.000	-.864	2.864
3		1.400	.560	1.000	-1.050	3.850
5		1.464	.457	.338	-.534	3.461
6		1.591*	.352	.040	.052	3.130
7		1.018	.573	1.000	-1.490	3.526
8		1.800	.665	.793	-1.108	4.708
9		3.055*	.658	.033	.175	5.934
5		1	-1.200	.462	.954	-3.219
	2	-.464	.511	1.000	-2.700	1.773
	3	-.064	.535	1.000	-2.406	2.278

	4	-1.464	.457	.338	-3.461	.534
	6	.127	.625	1.000	-2.605	2.859
	7	-.445	.557	1.000	-2.884	1.993
	8	.336	.577	1.000	-2.186	2.859
	9	1.591	.618	.999	-1.114	4.296
6	1	-1.327*	.257	.015	-2.451	-.203
	2	-.591	.415	1.000	-2.407	1.225
	3	-.191	.587	1.000	-2.757	2.375
	4	-1.591*	.352	.040	-3.130	-.052
	5	-.127	.625	1.000	-2.859	2.605
	7	-.573	.741	1.000	-3.816	2.671
	8	.209	.828	1.000	-3.415	3.833
	9	1.464	.641	1.000	-1.340	4.267
7	1	-.755	.696	1.000	-3.798	2.289
	2	-.018	.715	1.000	-3.145	3.109
	3	.382	.620	1.000	-2.332	3.095
	4	-1.018	.573	1.000	-3.526	1.490
	5	.445	.557	1.000	-1.993	2.884
	6	.573	.741	1.000	-2.671	3.816
	8	.782	.497	1.000	-1.390	2.954
	9	2.036	.639	.350	-.761	4.833
8	1	-1.536	.754	1.000	-4.837	1.764
	2	-.800	.692	1.000	-3.826	2.226
	3	-.400	.559	1.000	-2.846	2.046
	4	-1.800	.665	.793	-4.708	1.108
	5	-.336	.577	1.000	-2.859	2.186
	6	-.209	.828	1.000	-3.833	3.415
	7	-.782	.497	1.000	-2.954	1.390
	9	1.255	.811	1.000	-2.294	4.803
9	1	-2.791	.658	.062	-5.670	.088
	2	-2.055	.744	.721	-5.308	1.199
	3	-1.655	.731	1.000	-4.851	1.542
	4	-3.055*	.658	.033	-5.934	-.175
	5	-1.591	.618	.999	-4.296	1.114
	6	-1.464	.641	1.000	-4.267	1.340
	7	-2.036	.639	.350	-4.833	.761
	8	-1.255	.811	1.000	-4.803	2.294

Based on estimated marginal means

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

b. Adjustment for multiple comparisons: Bonferroni.

Lampiran 6. Sertifikat Mengenai Pelatihan Uji Klinik (GCP) Dosen Pembimbing (penunjang pengawasan selama pengujian Uji Kelembaban)

**FORMULIR PERSETUJUAN SETELAH PENJELASAN
(PSP) (INFORMED CONSENT)**

Selamat pagi Bapak / Ibu /Saudara(i), saya Annisa Kurnia Pratiwi selaku tim penelitian dari Prof. Dr. rer-nat. Marianti A. Manggau, Apt. bermaksud untuk melakukan penelitian Uji Efek Kelembaban, Kehalusan, Kerutan Kulit dan Kadar Minyak dari Krim Tabir Surya Tipe M/A dari Senyawa Fukoidan dengan Variasi Konsentrasi Phytocream sebagai Emulgator pada Manusia

Adapun tujuan dalam penelitian ini untuk mengetahui Uji Efek Melembabkan Dari Krim Tabir Surya Tipe M/A Tipe Dari Senyawa Fukoidan Dengan Variasi Konsentrasi Variasi Phytocream® Sebagai Emulgator Pada Manusia Dalam hal ini, dibutuhkan 11 orang sukarelawan masing-masing sukarelawan terdiri atas 9 bagian formula yaitu (Krim tabir surya fukoidan dengan konsentrasi emulgator 5%, Krim tabir surya fukoidan dengan konsentrasi emulgator 7,5%, Krim tabir surya fukoidan dengan konsentrasi emulgator 10%, Krim tabir surya fukoidan dengan konsentrasi emulgator 12,5%, Krim tabir surya tanpa fukoidan dengan emulgator 5%, Krim tabir surya tanpa fukoidan dengan emulgator 7,5%, Krim tabir surya tanpa fukoidan dengan emulgator 10%, Krim tabir surya tanpa fukoidan dengan emulgator 12,5%, Tanpa Perlakuan. Setiap pengujian diberi ukuran 2 cm x 2cm lalu dioleskan krim pada lengan bawah panelis lalu di cek menggunakan alat *skin analyzer*

Untuk efek samping yang mungkin akan terjadi pada sukarelawan seperti gatal gatal pada kulit. Mengenai Jelaskan mengenai kriteria inklusi, eksklusi Kriteria inklusi: sukarelawan yang berumur diatas 20 tahun dengan kondisi kesehatan yang relevan (sehat) dan sukarelawan setuju dengan menandatangani surat untuk mengikuti ketentuan yang ditentukan dalam informed concent. Kriteria eksklusi: noda atau tanda (misalnya tato, bekas luka, terbakar sinar matahari) di tempat pengujian yang dapat mengganggu, obat-obatan yang dapat mempengaruhi respon kulit atau riwayat medis sebelumnya, kulit yang teriritasi di area uji, dan penyakit kulit apapun yang dapat mengganggu tujuan penelitian. Pengujian hanya berlangsung selama 5 hari berturut-turut.

Jika terjadi hal-hal diluar keinginan maka biaya RS jika harus masuk rumah sakit, ganti rugi jika terjadi kecacatan, kematian, efek samping berat akan ditanggung oleh peneliti. Pada saat hari pengujian maka akan ada pemberian kompensasi kepada partisipan seperti makan siang pada saat hari pengujian.

FORMULIR PERSETUJUAN SETELAH PENJELASAN

Saya yang bertandatangan di bawah ini :

Nama :
 Umur :
 Masa Kerja :
 Satuan :
 Alamat :

setelah mendengar/membaca dan mengerti penjelasan yang diberikan mengenai tujuan, manfaat, dan apa yang akan dilakukan pada penelitian ini, menyatakan setuju untuk ikut dalam penelitian ini secara sukarela tanpa paksaan.

Saya tahu bahwa keikutsertaan saya ini bersifat sukarela tanpa paksaan, sehingga saya bisa menolak ikut atau mengundurkan diri dari penelitian ini. Saya berhak bertanya atau meminta penjelasan pada peneliti bila masih ada hal yang belum jelas atau masih ada hal yang ingin saya ketahui tentang penelitian ini.

Saya juga mengerti bahwa semua biaya yang dikeluarkan sehubungan dengan penelitian ini, akan ditanggung oleh peneliti. Saya percaya bahwa keamanan dan kerahasiaan data penelitian akan terjamin dan saya dengan ini menyetujui semua data saya yang dihasilkan pada penelitian ini untuk disajikan dalam bentuk lisan maupun tulisan.

Dengan membubuhkan tandatangan saya di bawah ini, saya menegaskan keikutsertaan saya secara sukarela dalam studi penelitian ini.

	Nama	Tanda tangan	Tgl/Bln/Thn
Responden
/Wali
Saksi

(Tanda Tangan Saksi diperlukan hanya jika Partisipan tidak dapat memberikan consent/persetujuan

sehingga menggunakan wali yang sah secara hukum, yaitu untuk partisipan berikut:

1. Berusia di bawah 20 tahun
2. Usia lanjut
3. Gangguan mental
4. Pasien tidak sadar
5. Dan lain-lain kondisi yang tidak memungkinkan memberikan persetujuan

Tanggal : _____

Page 3 of 4

Consent Subtitle: _____
 Consent Version: _____

**Lampiran 7. Sertifikat Mengenai Pelatihan Uji Klinik (GCP) Dosen
Pembimbing (penunjang pengawasan selama pengujian
Uji Kelembaban)**

S E R T I F I K A T
DIBERIKAN KEPADA

Prof. Dr. rer. nat. Marianti A. Manggau, Apt.

ATAS PARTISIPASINYA SEBAGAI

PESERTA

Pelatihan Good Clinical Practice (GCP)
Program Studi Doktor Fakultas Kedokteran Universitas Hasanuddin
Makassar, 25 - 26 Februari 2021




Prof. Dr. dr. Suryani As'ad, M.Sc., Sp.GK(K)
Ketua KEPK FKUH,RSUH dan RSWS


dr. Agussalim Bukhari, M.Med., PhD., SpCK(K)
Ketua Prodi Doktor FK UNHAS