


LAMPIRAN

Lampiran 1. Surat Keterangan Kelayakan Etika Penelitian

	KOMISI ETIKA PENELITIAN FAKULTAS KEDOKTERAN GIGI UNIVERSITAS GADJAH MADA Sekretariat: Fakultas Kedokteran Gigi UGM Jl. Denta Sekip Utara Yogyakarta Telp. 081239447900
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KETERANGAN KELAIKAN ETIK PENELITIAN
(“ETHICAL CLEARANCE”)
No.001117/KKEP/FGK-UGM/EC/2017

Setelah Tim Etik Penelitian Fakultas Kedokteran Gigi Universitas Gadjah Mada mempelajari dengan seksama rancangan penelitian yang diusulkan:

Judul : PERBEDAAN KEKUATAN TEKAN, KEKUATAN TRANSVERSAL DAN KEKUATAN TARIK BAHAN RESIN AKRILIK POLIMERISASI PANAS BERBAGAI KETEBALAN

Peneliti Utama : Desy Novianti

Penanggung Jawab Medis : drg. Laelia Dwi Anggraini, Sp.KGA

Unit/Lembaga : Program Studi Pendidikan Dokter Gigi Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta


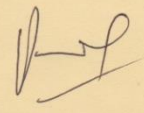
Lokasi Penelitian : 1. Laboratorium Teknik Gigi RSGM Prof Soedomo FKG UGM
2. Laboratorium Bahan Teknik Program Diploma Teknik Mesin Sekolah Vokasi UGM

Waktu Penelitian : Juni 2017 – Selesai


Maka dengan ini menyatakan bahwa penelitian tersebut telah memenuhi syarat atau laik etik.

Yogyakarta, 15 Juni 2017

Wakil Dekan Bidang Penelitian, Pengabdian Kepada Masyarakat dan Kerjasama	Ketua Komisi Etik Penelitian FKG UGM
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 drg. Trianna Wahyu Utami , MDSc., Ph.D	 Prof. Dr.drg. Pinandi Sri Pudyani, SU., Sp.Ort(K)
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Lampiran 2. Surat Ijin Penelitian dari Laboratorium Teknik Mesin UGM



LABORATORIUM BAHAN TEKNIK
 DEPARTEMEN TEKNIK MESIN DAN INDUSTRI
 FAKULTAS TEKNIK UNIVERSITAS GADJAH MADA
 Jl. Grafika No.2, Kampus UGM Yogyakarta, 55281
 Telp. (0274) 521673, Fax. (0274) 521673

SURAT KETERANGAN
 No : /Lab Bahan Teknik/DTMI/UGM/2018

Kami selaku pengelola Laboratorium Bahan Teknik Departemen Teknik Mesin dan Industri Universitas Gadjah Mada menerangkan bahwa mahasiswa tersebut di bawah ini :

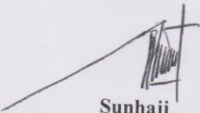
Nama : Desy Novianti
NIM : 20140340117
Program Studi : Pendidikan Dokter Gigi
Fakultas : Kedokteran dan Ilmu Kesehatan,
 Universitas Muhammadiyah Yogyakarta

Telah bebas dari segala tanggungan di laboratorium kami, dan telah selesai melakukan penelitian dengan judul :

“Perbedaan Kekuatan Tekan, Kekuatan Transversal, dan Kekuatan Tarik Bahan Resin Akrilik Polimerisasi Panas Berbagai Ukuran”

Demikian surat keterangan ini dibuat dengan sebenar – benarnya, untuk dimanfaatkan sebagaimana mestinya.

Yogyakarta, 22 Maret 2018
 PLP
 Bahan Teknik UGM


Sunhaji
 196506041986121001

Lampiran 3. Hasil Olah Data

Case Processing Summary

	Ketebalan	Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Kekuatan Transversal	1	5	100.0%	0	.0%	5	100.0%
	1.50	5	100.0%	0	.0%	5	100.0%
	1,5	5	100.0%	0	.0%	5	100.0%
	2.50	5	100.0%	0	.0%	5	100.0%

Tests of Normality

	Ketebalan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kekuatan Transversal	1	.233	5	.200*	.944	5	.693
	1.50	.218	5	.200*	.939	5	.656
	1,5	.219	5	.200*	.887	5	.341
	2.50	.226	5	.200*	.905	5	.439

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

a. Lilliefors Significance Correction

Descriptives

Kekuatan Transversal

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	5	95.25773	5.50545870	2.462116	88.4218021	102.0936618	86.59794	101.2887
1.50	5	100.2234	.74207962	.33186809	99.3019793	101.1448064	99.36775	101.3746
1,5	5	112.6296	4.07601222	1.822848	107.5685869	117.6906622	109.0206	119.0051
2.50	5	111.3123	5.87911411	2.629220	104.0124110	118.6121797	103.1690	117.2784
Total	20	104.8558	8.60433916	1.923989	100.8288065	108.8827159	86.59794	119.0051

Test of Homogeneity of Variances

Kekuatan Transversal

Levene Statistic	df 1	df 2	Sig.
2.354	3	16	.111

ANOVA

Kekuatan Transversal

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1078.504	3	359.501	17.528	.000
Within Groups	328.154	16	20.510		
Total	1406.658	19			

Descriptives

Ketebalan			Statistic	Std. Error	
Kekuatan Transversal	1	Mean	95.25773	2.462116	
		95% Confidence Interval for Mean	88.42180		
		Lower Bound	102.0937		
		Upper Bound			
		5% Trimmed Mean	95.40378		
		Median	95.87629		
		Variance	30.310		
		Std. Deviation	5.505459		
		Minimum	86.59794		
		Maximum	101.2887		
		Range	14.69072		
		Interquartile Range	9.27835		
		Skewness	-1.012		.913
		Kurtosis	1.554		2.000
1.50	1.50	Mean	100.2234	.33186809	
		95% Confidence Interval for Mean	99.30198		
		Lower Bound	101.1448		
		Upper Bound			
		5% Trimmed Mean	100.2070		
		Median	100.0000		
		Variance	.551		
		Std. Deviation	.74207962		
		Minimum	99.36775		
		Maximum	101.3746		
		Range	2.00682		
		Interquartile Range	1.21892		
		Skewness	.895		.913
		Kurtosis	1.479		2.000
1,5	1,5	Mean	112.6296	1.822848	
		95% Confidence Interval for Mean	107.5686		
		Lower Bound	117.6907		
		Upper Bound			
		5% Trimmed Mean	112.4759		
		Median	112.5000		
		Variance	16.614		
		Std. Deviation	4.076012		
		Minimum	109.0206		
		Maximum	119.0051		
		Range	9.98448		
		Interquartile Range	7.14754		
		Skewness	1.051		.913
		Kurtosis	.912		2.000
2.50	2.50	Mean	111.3123	2.629220	
		95% Confidence Interval for Mean	104.0124		
		Lower Bound	118.6122		
		Upper Bound			
		5% Trimmed Mean	111.4333		
		Median	109.9278		
		Variance	34.564		
		Std. Deviation	5.879114		
		Minimum	103.1690		
		Maximum	117.2784		
		Range	14.10931		
		Interquartile Range	10.80233		
		Skewness	-.346		.913
		Kurtosis	-1.076		2.000

Multiple Comparisons

Dependent Variable: Kekuatan Transversal

LSD

(I) Ketebalan	(J) Ketebalan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1.00	1.50	-4.96566	2.86424	.102	-11.0376	1.1063
	2.00	-17.37189*	2.86424	.000	-23.4438	-11.3000
	2.50	-16.05456*	2.86424	.000	-22.1265	-9.9826
1.50	1.00	4.96566	2.86424	.102	-1.1063	11.0376
	2.00	-12.40623*	2.86424	.001	-18.4781	-6.3343
	2.50	-11.08890*	2.86424	.001	-17.1608	-5.0170
2.00	1.00	17.37189*	2.86424	.000	11.3000	23.4438
	1.50	12.40623*	2.86424	.001	6.3343	18.4781
	2.50	1.31733	2.86424	.652	-4.7546	7.3892
2.50	1.00	16.05456*	2.86424	.000	9.9826	22.1265
	1.50	11.08890*	2.86424	.001	5.0170	17.1608
	2.00	-1.31733	2.86424	.652	-7.3892	4.7546

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

Case Processing Summary

Ketebalan	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Kekuatan Tarik 1	5	100.0%	0	.0%	5	100.0%
1.5	5	100.0%	0	.0%	5	100.0%
2	5	100.0%	0	.0%	5	100.0%
2.5	5	100.0%	0	.0%	5	100.0%

Tests of Normality

Ketebalan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kekuatan Tarik 1	.294	5	.181	.792	5	.070
1.5	.300	5	.161	.837	5	.157
2	.191	5	.200*	.920	5	.531
2.5	.296	5	.176	.852	5	.202

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

a. Lilliefors Significance Correction

Descriptives

Kekuatan Tarik

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	5	55.0267	5.62966	2.51766	48.0366	62.0169	45.58	59.03
1.5	5	56.5053	3.05992	1.36844	52.7059	60.3047	53.76	60.40
2	5	63.0460	4.55426	2.03673	57.3911	68.7008	56.13	67.33
2.5	5	54.7232	3.27628	1.46520	50.6552	58.7913	51.51	58.74
Total	20	57.3253	5.21833	1.16685	54.8831	59.7676	45.58	67.33

Test of Homogeneity of Variances

Kekuatan Tarik

Levene Statistic	df 1	df 2	Sig.
.543	3	16	.660

ANOVA

Kekuatan Tarik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	227.263	3	75.754	4.178	.023
Within Groups	290.126	16	18.133		
Total	517.389	19			

Multiple Comparisons

Dependent Variable: Kekuatan Tarik

	(I) Ketebalan	(J) Ketebalan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	1	1.5	-1.47854	2.69317	.945	-9.1837	6.2267
		2	-8.01923*	2.69317	.040	-15.7244	-.3140
		2.5	.30351	2.69317	.999	-7.4017	8.0087
	1.5	1	1.47854	2.69317	.945	-6.2267	9.1837
		2	-6.54068	2.69317	.111	-14.2459	1.1645
		2.5	1.78206	2.69317	.910	-5.9231	9.4873
	2	1	8.01923*	2.69317	.040	.3140	15.7244
		1.5	6.54068	2.69317	.111	-1.1645	14.2459
		2.5	8.32274*	2.69317	.032	.6175	16.0279
	2.5	1	-.30351	2.69317	.999	-8.0087	7.4017
		1.5	-1.78206	2.69317	.910	-9.4873	5.9231
		2	-8.32274*	2.69317	.032	-16.0279	-.6175
LSD	1	1.5	-1.47854	2.69317	.591	-7.1878	4.2307
		2	-8.01923*	2.69317	.009	-13.7285	-2.3100
		2.5	.30351	2.69317	.912	-5.4057	6.0128
	1.5	1	1.47854	2.69317	.591	-4.2307	7.1878
		2	-6.54068*	2.69317	.027	-12.2499	-.8314
		2.5	1.78206	2.69317	.518	-3.9272	7.4913
	2	1	8.01923*	2.69317	.009	2.3100	13.7285
		1.5	6.54068*	2.69317	.027	.8314	12.2499
		2.5	8.32274*	2.69317	.007	2.6135	14.0320
	2.5	1	-.30351	2.69317	.912	-6.0128	5.4057
		1.5	-1.78206	2.69317	.518	-7.4913	3.9272
		2	-8.32274*	2.69317	.007	-14.0320	-2.6135

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

Descriptives

Ketebalan		Statistic	Std. Error
Kekuatan Tarik	1	Mean	55.0267
		95% Confidence Interval for Mean	48.0366
		Lower Bound	62.0169
		Upper Bound	
		5% Trimmed Mean	55.3288
		Median	57.8889
		Variance	31.693
		Std. Deviation	5.62966
		Minimum	45.58
		Maximum	59.03
		Range	13.45
		Interquartile Range	8.96
		Skewness	-1.662
Kurtosis	2.497	2.000	
1.5	1.5	Mean	56.5053
		95% Confidence Interval for Mean	52.7059
		Lower Bound	60.3047
		Upper Bound	
		5% Trimmed Mean	56.4410
		Median	54.9011
		Variance	9.363
		Std. Deviation	3.05992
		Minimum	53.76
		Maximum	60.40
		Range	6.64
		Interquartile Range	5.78
		Skewness	.620
Kurtosis	-2.716	2.000	
2	2	Mean	63.0460
		95% Confidence Interval for Mean	57.3911
		Lower Bound	68.7008
		Upper Bound	
		5% Trimmed Mean	63.1922
		Median	63.6715
		Variance	20.741
		Std. Deviation	4.55426
		Minimum	56.13
		Maximum	67.33
		Range	11.20
		Interquartile Range	8.28
		Skewness	-.910
Kurtosis	.180	2.000	
2.5	2.5	Mean	54.7232
		95% Confidence Interval for Mean	50.6552
		Lower Bound	58.7913
		Upper Bound	
		5% Trimmed Mean	54.6783
		Median	53.0441
		Variance	10.734
		Std. Deviation	3.27628
		Minimum	51.51
		Maximum	58.74
		Range	7.23
		Interquartile Range	6.19
		Skewness	.529
Kurtosis	-2.809	2.000	