

LAMPIRAN

Lampiran 1. Alat dan Bahan Penelitian

Camphorquinon



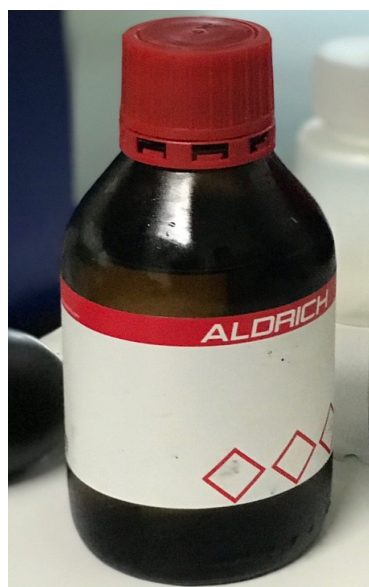
Nanosisal



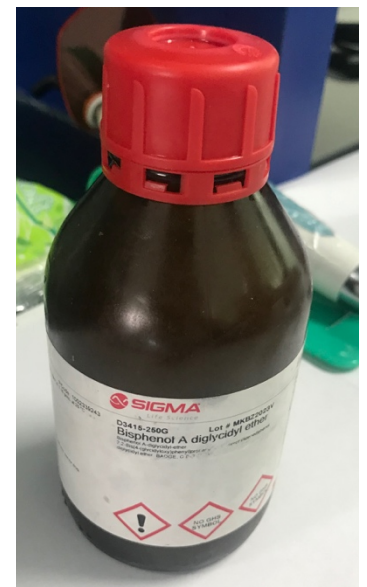
UDMA



Bis-GMA



TEGDMA

bisphenol A diglycidyl ether
Coupling Agent



Etsa



Microbrush



Bonding



Z350 XT 3MESPE



Vaseline



Seluloid Strip

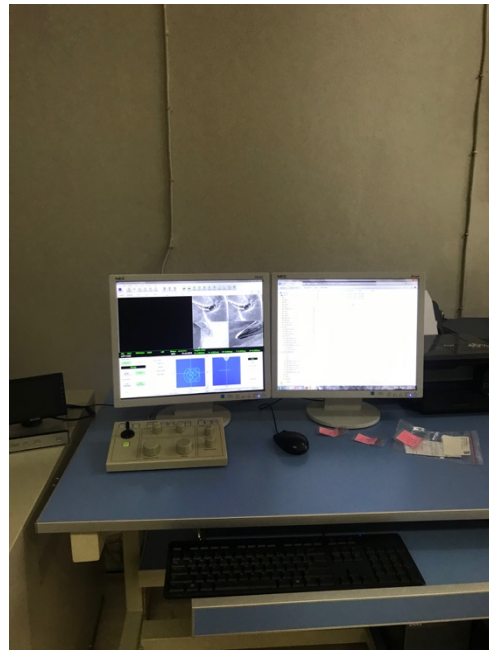


Light Cure LED



Gigi premolar pasca ekstraksi

Sampel berukuran (1cm x 1cm x 1cm)³



Uji analisis Scanning Electron Mircsope (SEM)

Lampiran 2. Hasil analisis ImageJ

A. Kelompok Nanosisal 60% (ImageJ)

	LABEL	AREA	MEAN	MIN	MAX	ANGLE	LENGTH
1		4.5	12.174	0	47.667	-66.371	8.667
2		3.75	52.433	13.912	95.667	-107.103	6.96
3		4.25	73.176	20.75	147.5	-93.576	8.028
4		3.5	42.957	7.84	77	-116.565	6.566
5		4.5	20.101	0.922	44.49	-86.634	8.692
6	Mean	4.1	40.168	8.685	82.465	-94.05	7.783
7	SD	0.454	24.669	8.793	42.091	19.356	0.978
8	Min	3.5	12.174	0	44.49	-116.565	6.566
9	Max	4.5	73.176	20.75	147.5	-66.371	8.692

B. Kelompok Nanosisal 60% + *Coupling Agent* (ImageJ)

	LABEL	AREA	MEAN	MIN	MAX	ANGLE	LENGTH
1		3.75	62.067	26.286	187	-81.87	7.071
2		3.5	41.751	13.822	77	-71.565	6.325
3		4	59.464	20.942	167	-74.055	7.28
4		3.5	55.987	10	210.893	-63.435	6.708
5		3.25	68.231	31	124	-80.538	6.083
6	Mean	3.6	57.5	20.41	153.179	-74.292	6.693
7	SD	0.285	9.876	8.642	53.199	7.446	0.499
8	Min	3.25	41.751	10	77	-81.87	6.083
9	Max	4	68.231	31	210.893	-63.435	7.28

C. Kelompok *Nanofiller* (ImageJ)

	LABEL	AREA	MEAN	MIN	MAX	ANGLE	LENGTH
1		4	48.417	1.235	116.556	-61.699	7.454
2		4.25	29.775	3.03E-13	83.111	-71.565	7.803
3		5.25	6.361	0	25	-87.138	10.022
4		4.25	38.872	0.146	195.347	-32.735	7.951
5		4.75	36.601	0.364	171.667	-118.072	8.807
6	Mean	4.5	32.005	0.349	118.336	-74.242	8.407
7	SD	0.5	15.813	0.517	68.43	31.523	1.031
8	Min	4	6.361	0	25	-118.072	7.454
9	Max	5.25	48.417	1.235	195.347	-32.735	10.022

Lampiran 3. Hasil uji SPSS

Descriptives

filler			Statistic	Std. Error		
jarak_perlekatan	nanosisal	Mean	7,78260	,437389		
		95% Confidence Interval for Mean				
		Lower Bound	6,56821			
		Upper Bound	8,99699			
		5% Trimmed Mean	7,79967			
		Median	8,02800			
		Variance	,957			
		Std. Deviation	,978031			
		Minimum	6,566			
		Maximum	8,692			
		Range	2,126			
		Interquartile Range	1,917			
		Skewness	-,400	,913		
		Kurtosis	-2,606	2,000		
		nanosisal-coupling agent	nanosisal-coupling agent	Mean	6,69340	,223070
				95% Confidence Interval for Mean		
Lower Bound	6,07406					
Upper Bound	7,31274					
5% Trimmed Mean	6,69472					
Median	6,70800					
Variance	,249					
Std. Deviation	,498799					
Minimum	6,083					
Maximum	7,280					
Range	1,197					
Interquartile Range	,971					
Skewness	-,073			,913		
Kurtosis	-2,023			2,000		
nanofiller	nanofiller			Mean	8,40740	,460933
				95% Confidence Interval for Mean		
		Lower Bound	7,12764			
		Upper Bound	9,68716			
		5% Trimmed Mean	8,37067			
		Median	7,95100			
		Variance	1,062			
		Std. Deviation	1,030678			
		Minimum	7,454			
		Maximum	10,022			
		Range	2,568			
		Interquartile Range	1,786			
		Skewness	1,176	,913		
		Kurtosis	,667	2,000		

Tests of Normality

filler	Kolmogorov-Smirnov(a)			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
jarak_perlekatan nanosisal	,217	5	,200(*)	,871	5	,268
nanosisal-coupling agent	,175	5	,200(*)	,956	5	,783
nanofiller	,271	5	,200(*)	,894	5	,378

* This is a lower bound of the true significance.

a Lilliefors Significance Correction

Descriptives

jarak_perlekatan	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					nanosisal	5		
nanosisal-coupling agent	5	6,69340	,498799	,223070	6,07406	7,31274	6,083	7,280
nanofiller	5	8,40740	1,030678	,460933	7,12764	9,68716	7,454	10,022
Total	15	7,62780	1,088734	,281110	7,02488	8,23072	6,083	10,022

Test of Homogeneity of Variances

jarak_perlekatan

Levene Statistic	df1	df2	Sig.
2,030	2	12	,174

ANOVA

jarak_perlekatan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7,524	2	3,762	4,977	,027
Within Groups	9,071	12	,756		
Total	16,595	14			

Lampiran 4. Ethical Clearance


UMY UNIVERSITAS MUHAMMADIYAH YOGYAKARTA
Lingkar di Belah

FAKULTAS KEDOKTERAN DAN ILMU KESEHATAN

Nomor : 482/EP-FKIK-UMY/X/2018

KETERANGAN LOLOS UJI ETIK ETHICAL APPROVAL

Komite Etik Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta dalam upaya melindungi hak asasi dan kesejahteraan responden/subyek penelitian, telah mengkaji dengan teliti protokol berjudul :

The Ethics Committee of the Faculty of Medicine and Health Sciences, University of Muhammadiyah Yogyakarta, with regards of the protection of human rights and welfare in research, has carefully reviewed the research protocol entitled :

“Perbedaan Gambaran Mikrokoipis Perlekatan Resin Komposit Nanosisal 60%, Resin Komposit Nanosisal 60% ditambah Coupling Agent, dan Resin Komposit Nanofiller pada Email dan Dentin”

Peneliti Utama : Dwi Aji Nugroho
Principal Investigator : Aulia Rahmasari

Nama Institusi : Program Studi Kedokteran Gigi FKIK UMY
Name of the Institution

Negara : Indonesia
Country

Dan telah menyetujui protokol tersebut diatas.
And approved the above-mentioned protocol.

Yogyakarta, 17 Oktober 2018


 Ketua
 Chairperson
 Dr. dr. Titeek Hidayati, M.Kes.
 FSPH., FISC.M.

*Peneliti Berkewajiban :

1. Menjaga kerahasiaan identitas subyek penelitian
2. Memberitahukan status penelitian apabila :
 - a. Setelah masa berlakunya keterangan lolos uji etik (1 tahun sejak tanggal terbit), penelitian masih belum selesai, dalam hal ini *ethical clearance* harus diperpanjang
 - b. Penelitian berhenti di tengah jalan
3. Melaporkan kejadian serius yang tidak diinginkan (*serious adverse events*).
4. Peneliti tidak boleh melakukan tindakan apapun pada responden/subyek sebelum penelitian lolos uji etik.

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