

## DAFTAR PUSTAKA

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## LAMPIRAN

### Lampiran 1. Surat Izin Penelitian



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
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Telepon (0411) 586012, Faximile (0411) 584641  
Laman [www.unhas.ac.id](http://www.unhas.ac.id) Email [fdhu@unhas.ac.id](mailto:fdhu@unhas.ac.id)

Nomor : 01676/UN4.13/PT.01.04/2023  
Hal : **Izin Penelitian**

4 Mei 2023

Yth.

1. Dekan Fakultas Kedokteran Gigi  
2. Dekan Fakultas Teknik  
Universitas Hasanuddin  
Makassar

Dengan hormat kami sampaikan bahwa mahasiswa Program Pendidikan Kedokteran Gigi (S1) Fakultas Kedokteran Gigi Universitas Hasanuddin bermaksud untuk melakukan penelitian.

Sehubungan dengan hal tersebut, mohon kiranya dapat diberikan **izin penelitian** kepada peneliti di bawah ini:

Nama / NIM : Yusnita Damayanti / J011201090  
Waktu Penelitian : Mei s.d. Juni 2023  
Tempat Penelitian : Laboratorium Konservasi Fakultas Kedokteran Gigi Universitas Hasanuddin,  
Laboratorium Oral Biologi Fakultas Kedokteran Gigi Universitas Hasanuddin,  
dan Laboratorium Metalurgi Fisik Fakultas Teknik Universitas Hasanuddin  
Judul Penelitian : Pengaruh Peningkatan Waktu Penguapan Pelarut *Two Step Self Etch Universal Adhesive* terhadap Kekuatan Ikat Tarik pada Dentin

Demikian permohonan kami, atas perhatian dan kerjasama yang baik diucapkan terima kasih.

Wakil Dekan Bidang Akademik dan Kemahasiswaan



**Acing Habibie Mude, drg., Ph.D., Sp.Pros (K).**  
NIP 198102072008121002

Tembusan:

1. Kepala Bagian Tata Usaha FKG Unhas;
2. Kepala Laboratorium Metalurgi Fisik Fakultas Teknik Unhas;
3. Kepala Laboratorium FKG Unhas.



## Lampiran 2. Surat Rekomendasi Etik Penelitian



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
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Nomor : 01657/UN4.13/TP.02.02/2023  
Hal : **Permohonan Rekomendasi Etik**

3 Mei 2023

Yth. **Direktur Rumah Sakit Gigi dan Mulut Pendidikan (RSGMP)**  
Universitas Hasanuddin  
Makassar

Dengan hormat kami sampaikan bahwa mahasiswa Pendidikan Dokter Gigi (S1) Fakultas Kedokteran Gigi Universitas Hasanuddin di bawah ini:

Nama / NIM : **Yusnita Damayanti / J011201090**  
Judul Penelitian : *Pengaruh Peningkatan Waktu Penguapan Pelarut Two Step Self Etch Universal Adhesive terhadap Kekuatan Ikat Tarik pada Dentin*

bermaksud melakukan penelitian di Laboratorium Konservasi Fakultas Kedokteran Gigi Universitas Hasanuddin, Laboratorium Oral Biologi Fakultas Kedokteran Gigi Universitas Hasanuddin, dan Laboratorium Metalurgi Fisik Fakultas Teknik Universitas Hasanuddin pada bulan Mei s.d. Juni 2023.

Untuk maksud tersebut di atas, mohon kiranya yang bersangkutan dapat diberikan surat rekomendasi Etik dalam rangka pelaksanaan penelitiannya.

Demikian permohonan kami, atas perhatian dan kerjasama yang baik diucapkan terima kasih.

a.n. Dekan,  
Wakil Dekan Bidang Akademik dan Kemahasiswaan



**Acing Habibie Mude, drg., Ph.D., Sp.Prof (K).**  
NIP 198102072008121002


Tembusan:

1. Dekan FKG Unhas;
2. Kepala Bagian Tata Usaha FKG Unhas.






### Lampiran 3. Surat Persetujuan Etik Penelitian



**KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI**  
**UNIVERSITAS HASANUDDIN**  
**FAKULTAS KEDOKTERAN GIGI**  
**RUMAH SAKIT GIGI DAN MULUT**  
**KOMITE ETIK PENELITIAN KESEHATAN**  
 Sekretariat : Lantai 2, Gedung Lama RSGM Unhas  
 JL. Kandeana No. 5 Makassar  
 Contact Person: drg. Muhammad Ikbal, Sp.Prof/Nur Aedah AR TELP. 081342971011/08114919191





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**REKOMENDASI PERSETUJUAN ETIK**  
 Nomor: 0084/PL.09/KEPK FKG-RSGM UNHAS/2023

Tanggal: 16 Mei 2023

Dengan ini menyatakan bahwa protokol dan dokumen yang berhubungan dengan protokol berikut ini telah mendapatkan persetujuan etik:

No. Protokol	UH 17120825	No Protokol Sponsor	
Peneliti Utama	Yusnita Damayanti	Sponsor	Pribadi
Judul Peneliti	Pengaruh Peningkatan Waktu Penguapan Pelarut <i>Two Step SelfEtch Universal Adhesive</i> terhadap Kekuatan Ikatan Tarik pada Dentin		
No. Versi Protokol	1	Tanggal Versi	09 Mei 2023
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	1. Laboratorium Konservasi Fakultas Kedokteran Gigi Universitas Hasanuddin, 2. Laboratorium Oral Biologi Fakultas Kedokteran Gigi Universitas Hasanuddin, 3. Laboratorium Metalurgi Fisik Fakultas Teknik Universitas Hasanuddin		
Dokumen Lain			
Jenis Review	<input checked="" type="checkbox"/> Exempted <input type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 16 Mei 2023- 16 Mei 2024	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhammad Ikbal, Sp.Prof	Tanda Tangan 	Tanggal

**Kewajiban peneliti utama:**

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum diimplementasikan
- Menyerahkan laporan SAE ke Komisi Etik dalam 24 jam dan dilengkapi dalam 7 hari dan lapor SUSAR dalam 72 jam setelah peneliti utama menerima laporan.
- Menyerahkan laporan kemajuan (*progress report*) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah.
- Menyerahkan laporan akhir setelah penelitian berakhir.
- Melaporkan penyimpangan dari protokol yang disetujui (*protocol deviation/violation*)
- Mematuhi semua aturan yang berlaku.

## Lampiran 4. Surat Keterangan Telah Penelitian



LABORATORIUM METALURGI FISIK  
KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
UNIVERSITAS HASANUDDIN FAKULTAS TEKNIK  
Jalan Poros Malino KM, 6 Bontomarannu Gowa, 92171, Sulawesi Selatan

### SURAT KETERANGAN PENGUJIAN

Nomor : 002/DTM.UH/LMF/1/2023

Mahasiswa yang tersebut dibawah ini:

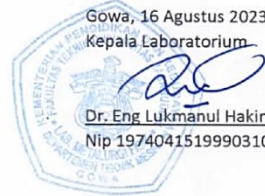
Nama : Yusnita Damayanti  
Nim : J011201090  
Program Studi : Program Pendidikan Dokter Gigi Fak. Kedokteran Gigi  
Universitas : Hasanuddin

Telah melaksanakan pengujian Tensile (Pengujian Kuat Tarik) pada bulan Juli 2023 untuk keperluan penelitian dalam rangka penyelesaian tugas akhir..

Demikian surat keterangan pengujian ini dibuat untuk digunakan sebagaimana mestinya.

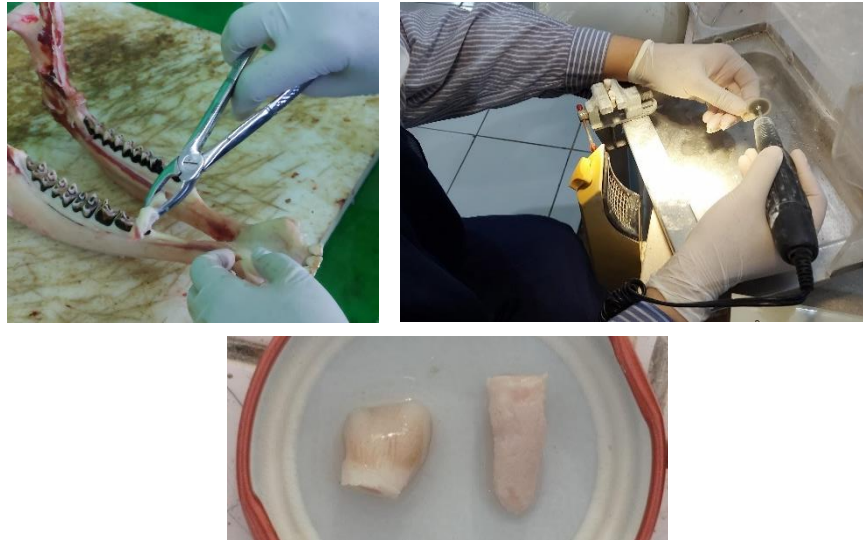
Gowa, 16 Agustus 2023  
Kepala Laboratorium

  
Dr. Eng Lukmanul Hakim Arma, ST., MT  
Nip 197404151999031001



## Lampiran 5. Dokumentasi Kegiatan Penelitian

(1) Ekstraksi dan pemotongan sampel gigi sapi



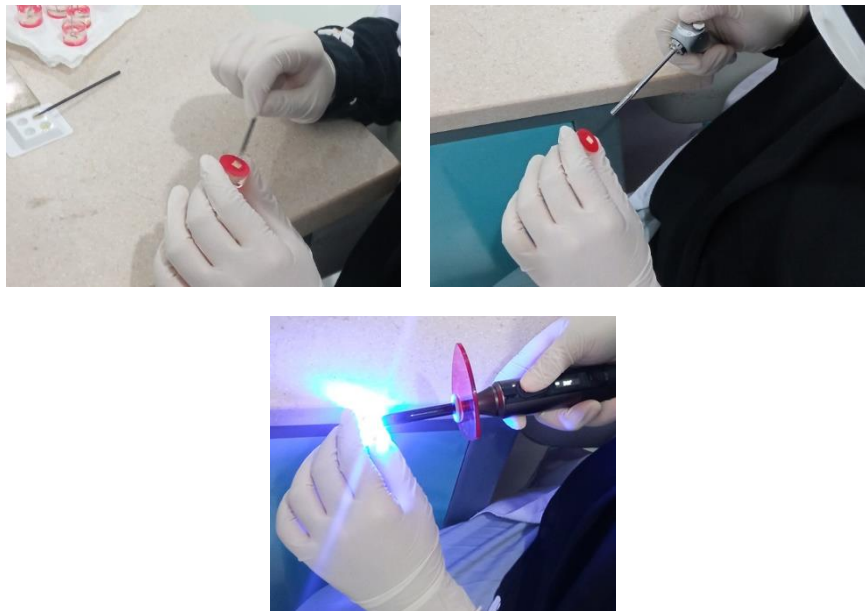
(2) Penanaman gigi dalam pipa akrilik dan dihaluskan hingga permukaan dentin



(3) Sampel dicuci menggunakan alat ultrasonik dan aplikasi kuteks pada permukaan sampel



(4) Aplikasi adhesive dan restorasi sampel



(5) Inkubasi sampel



(6) Uji tarik sampel





### Lampiran 6. Lembar Hasil Penelitian

<b>SAMPEL</b>	<b>KLP 1</b>	<b>KLP 2</b>	<b>KLP 3</b>
1	36.3894	45.6014	66.5461
2	35.6054	48.4130	74.1329
3	42.8621	51.1631	71.6714
4	39.3089	45.5986	73.7561
5	37.5224	47.5797	72.2303
6	34.1024	46.8214	67.1428
7	40.2912	47.5982	71.9973
8	38.4617	42.8621	73.3024
9	34.6740	44.5700	66.7836

## Lampiran 7. Olah Data Penelitian dengan SPSS

### Tests of Normality

kelompok	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
tbs kelompok 1	.121	9	.200*	.966	9	.858
kelompok 2	.130	9	.200*	.978	9	.953
kelompok 3	.254	9	.098	.864	9	.105

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

a. Lilliefors Significance Correction

### Descriptives

tbs

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kelompok 1	9	37.6900	2.84517	.94839	35.5030	39.8770	34.10	42.86
kelompok 2	9	46.6889	2.40093	.80031	44.8434	48.5344	42.86	51.16
kelompok 3	9	70.9511	3.26755	1.08918	68.4394	73.4628	66.55	75.13
Total	27	51.7767	14.57620	2.80519	46.0105	57.5428	34.10	75.13

post hoc

### Test of Homogeneity of Variances

tbs		Levene Statistic	df1	df2	Sig.
		Based on Mean	.914	2	24
Based on Median	.337	2	24	.717	
Based on Median and with adjusted df	.337	2	20.765	.718	
Based on trimmed mean	.890	2	24	.424	

### ANOVA

tbs

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5327.811	2	2663.905	325.709	.000
Within Groups	196.291	24	8.179		
Total	5524.102	26			

## Post Hoc Tests

### Multiple Comparisons

Dependent Variable: tbs

Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kelompok 1	kelompok 2	-8.99889 <sup>*</sup>	1.34815	.000	-12.3656	-5.6322
	kelompok 3	-33.26111 <sup>*</sup>	1.34815	.000	-36.6278	-29.8944
kelompok 2	kelompok 1	8.99889 <sup>*</sup>	1.34815	.000	5.6322	12.3656
	kelompok 3	-24.26222 <sup>*</sup>	1.34815	.000	-27.6289	-20.8955
kelompok 3	kelompok 1	33.26111 <sup>*</sup>	1.34815	.000	29.8944	36.6278
	kelompok 2	24.26222 <sup>*</sup>	1.34815	.000	20.8955	27.6289

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

### Homogeneous Subsets

tbs

Tukey HSD<sup>a</sup>

kelompok	N	Subset for alpha = 0.05		
		1	2	3
kelompok 1	9	37.6900		
kelompok 2	9		46.6889	
kelompok 3	9			70.9511
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9.000.



## Lampiran 8. Kartu Kontrol Bimbingan Skripsi











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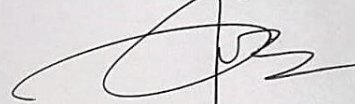
### KARTU KONTROL SKRIPSI

Nama : Yusnita Damayanti  
 NIM : J011201090  
 Dosen Pembimbing : drg. Noor Hikmah, Sp. KG (K)  
 Judul : Pengaruh Peningkatan Waktu Penguapan Pelarut *Two Step Self-Etch Universal Adhesive* terhadap Kekuatan Ikatan Tarik pada Dentin

No.	Tanggal	Materi Konsultasi	Paraf	
			Pembimbing	Mahasiswa
1.	23/09/22	Penyerahan Surat Penugasan Skripsi		
2.	4/10/22	Pengajuan judul skripsi		
3.	22/10/22	Pengajuan dan acc judul skripsi		
4.	2/11/22	Diskusi dan revisi BAB 1		
5.	18/11/22	Diskusi dan revisi BAB 1-3		
6.	9/12/22	Diskusi BAB 1-4		
7.	3/1/23	Pengajuan pembuatan surat undangan seminar proposal		
8.	10/1/23	Seminar Proposal		
9.	17/07/23	Diskusi BAB 5-6		

10.	30 / 9 / 23	Pengajuan pembuatan surat undangan seminar hasil		
11.	2 / 10 / 23	Seminar Hasil		
12.	27 / 10 / 23	Mengirimkan hasil revisi seminar hasil		
13.	8 / 11 / 23	Acc Skripsi keseluruhan		

Makassar, 8 November 2023  
Pembimbing



drg. Noor Hikmah, Sp. KG (K)