

## DAFTAR PUSTAKA

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# LAMPIRAN

Lampiran 1. Dokumentasi Penelitian





## Lampiran 2. Rekomendasi Persetujuan Etik

V



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI  
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FAKULTAS KEDOKTERAN GIGI  
RUMAH SAKIT GIGI DAN MULUT PENDIDIKAN  
KOMISI ETIK PENELITIAN KESEHATAN  
Sekretariat : Lantai 1, Ruang Komisi Etik FKG-RSGMP Unhas  
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No. Reg. Protokol : 268/FGUHSI-105/04.XI/2024

### PEMBEBASAN ETIK ETHICAL EXEMPTION

No: 051/KEPK FKG-RSGMP UH/EE/XI/2024

Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Gigi Universitas Hasanuddin Makassar, dalam upaya melindungi hak asasi dan kesejahteraan subjek penelitian dan menjamin bahwa penelitian yang menggunakan formulir survei/registrasi/surveilans/Epidemiologi/Humaniora/Sosial Budaya/Bahan Biologi Tersimpan/Sel Puncu dan non klinis lainnya berjalan dengan memperhatikan implikasi etik, hukum, sosial dan non klinis lainnya yang berlaku, telah mengkaji dengan teliti proposal penelitian berjudul:

*The Health Research Ethics Commission Faculty of Dentistry Hasanuddin University Makassar, in order to protect the rights and welfare of the research subject, and to guaranty that the research using survey questionnaire/registry/surveillance/epidemiology/humaniora/social-cultural/archived biological materials /stem cell/other non-clinical materials, will carried out according to ethical, legal, social implications and other applicable regulations, has been thoroughly reviewed the proposal entitled:*

#### **“Analisis Laju Korosi Kawat Ortodonti Stainless Steel pada Media Kopi”**

Versi Protokol : 1  
Versi ICF : 1  
Nama Peneliti Utama : Ria Reski Ananda  
*Principal Researcher*  
Pembimbing/Peneliti Lain : Prof. Dr. Susilowati, drg., SU  
*Supervisor/Other Researcher*  
Lokasi Penelitian : 1. Laboratorium Mikrobiologi Fakultas Kedokteran  
*Research Site* Universitas Hasanuddin  
2. Laboratorium Kimia Analitik FMIPA Universitas Hasanuddin  
Nama Institusi : Fakultas Kedokteran Gigi Universitas Hasanuddin  
*Institution*  
Proposal tersebut dapat dibebaskan pelaksanaannya.  
*Hereby declare that the proposal is exempted.*  
Ditetapkan di : Makassar  
*Issued in*  
Tanggal : 13 November 2024  
*Date*  
Masa Berlaku : 13 November 2024 – 13 November 2025  
*Validity Period*

Ketua  
Chairman,  
  
Erni Marlina, drg., Ph.D., Sp.PM., Subsp.Inf.(K)  
NIP. 197506012009122001

### Lampiran 3. Surat Izin Penelitian



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Nomor : 01035/UN4.13/PT.01.04/2024  
Hal : Izin Penelitian

18 Februari 2024

Yth. Dekan Fakultas Matematika dan Ilmu Pengetahuan Alam (MIPA)  
Universitas Hasanuddin  
Makassar

Dengan hormat kami sampaikan bahwa sehubungan dengan kewajiban penyelesaian tugas akhir (Skripsi) mahasiswa Program Studi Pendidikan Dokter Gigi (S1) Fakultas Kedokteran Gigi Universitas Hasanuddin, maka mahasiswa kami bermaksud akan melakukan penelitian.

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

Nama / NIM : Ria Reski Ananda / J011211054  
Waktu Penelitian : Februari s.d. Maret 2024  
Tempat Penelitian : Laboratorium Analitik Fakultas Matematika dan Ilmu Pengetahuan Alam (MIPA) Universitas Hasanuddin  
Pembimbing : Prof. Dr. Susilowati, drg., SU.  
Judul Penelitian : Analisis Laju Korosi Kawat Ortodonti Stainless Steel pada Media Kopi

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

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

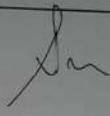
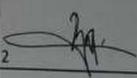
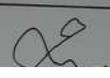


Acing Habibie Mude, drg., Ph.D., Sp.Pro., Subsp. OGST(K).  
NIP 198102072008121002

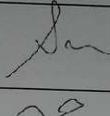
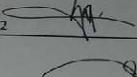
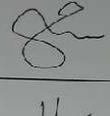
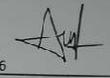
Tembusan:

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

**Lampiran 4. Daftar Hadir Pembimbing/Penguji Seminar Hasil Skripsi**

|  <b>DAFTAR HADIR</b> |  | No. Dokumen Undangan                  |   |
|---|--|---------------------------------------|---|
|   |  | No. Revisi                            |   |
|   |  | Tgl. Berkas Undangan                  |   |
|   |  | Halaman                               |   |
| FAKULTAS KEDOKTERAN GIGI UNHAS  |  | TEMPAT : Aula Baru Halimah RSGM Unhas |   |
| ACARA : Penguji Ujian Seminar Hasil Skripsi Departemen Ortodonti                                      |  |                                       |   |
| HARI/TANGGAL : Selasa, 15 Oktober 2024  |  | Waktu : 13.00 Wita - Selesai          |   |
| NO  | NAMA   |                                       |   |
| 1   | Prof. Dr. Jusiluwati, drg. SCA                             | 1                                     |    |
| 2   | Baharudin MR, drg, Sp. Ort., Subsp. DDTM (P)               |                                       | 2  |
| 3   | Dr. Eka Brwansyah, drg, M. Kes., Sp. Ort., Subsp. DDTM (P) | 3                                     |    |

**Lampiran 5. Daftar Hadir Peserta Seminar Hasil Skripsi**

|  <b>DAFTAR HADIR</b> |  | No. Dokumen Undangan                  |   |
|---|--|---------------------------------------|---|
|   |  | No. Revisi                            |   |
|   |  | Tgl. Berkas Undangan                  |   |
|   |  | Halaman                               |   |
| FAKULTAS KEDOKTERAN GIGI UNHAS  |  | TEMPAT : Aula Baru Halimah RSGM Unhas |   |
| ACARA : Penguji Ujian Seminar Hasil Skripsi Departemen Ortodonti                                      |  |                                       |   |
| HARI/TANGGAL : Selasa, 15 Oktober 2024  |  | Waktu : 13.00 Wita - Selesai          |   |
| NO  | NAMA   |                                       |   |
| 1   | Prof. Dr. Jusiluwati, drg. SCA                             | 1                                     |     |
| 2   | Baharudin MR, drg, Sp. Ort., Subsp. DDTM (P)               |                                       | 2  |
| 3   | Dr. Eka Brwansyah, drg, M. Kes., Sp. Ort., Subsp. DDTM (P) | 3                                     |    |
| 4   | Mrs Rahmadani Almoddin                                     |                                       | 4  |
| 5   | Khusrina Beuzayni  | 5                                     |    |
| 6   | Khusrina Nisa Rosdellain                                   |                                       | 6  |
| 7   |  | 7                                     |   |
| 8   |  |                                       | 8   |
| 9   |  | 9                                     |   |
| 10  |  |                                       | 10  |
| 11  |  | 11                                    |   |
| 12  |  |                                       | 12  |
| 13  |  | 13                                    |   |
| 14  |  |                                       | 14  |
| 15  |  | 15                                    |   |
|   |  |                                       | 16  |

Makassar, 15 Oktober 2024  
Dosen Pembimbing

## Lampiran 6. Kartu Kontrol Skripsi



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI  
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## KARTU KONTROL SKRIPSI

Nama : Ria Reski Ananda  
NIM : J011211054  
Dosen Pembimbing : Prof. Dr. Susilowati, drg., SU  
Judul : Pengaruh Media Kopi Terhadap Laju Korosi Kawat Ortodonti *Stainless Steel*

| No. | Hari/Tanggal      | Materi Konsultasi                    | Paraf      |           |
|-----|-------------------|--------------------------------------|------------|-----------|
|     |                   |                                      | Pembimbing | Mahasiswa |
| 1   | 6 September 2023  | Diskusi Judul                        |            |           |
| 2   | 11 September 2023 | Diskusi Judul                        |            |           |
| 3   | 18 September 2023 | Diskusi Judul                        |            |           |
| 4   | 26 September 2023 | ACC Judul                            |            |           |
| 5   | 2 Oktober 2023    | Diskusi Proposal Skripsi             |            |           |
| 6   | 18 Oktober 2023   | Diskusi Proposal Skripsi             |            |           |
| 7   | 21 November 2023  | Diskusi Proposal Skripsi             |            |           |
| 8   | 01 Februari 2024  | Seminar Proposal                     |            |           |
| 9   | 21 Maret 2024     | Diskusi Hasil dan Pembahasan Skripsi |            |           |
| 10  | 10 Juni 2024      | Diskusi Hasil dan Pembahasan Skripsi |            |           |
| 11  | 2 September 2024  | Diskusi Hasil dan Pembahasan Skripsi |            |           |
| 12  | 15 Oktober 2024   | Seminar Hasil                        |            |           |
| 13  | 20 November 2024  | ACC Skripsi                          |            |           |

## Lampiran 7. Analisis Data



**LABORATORIUM KIMIA ANALITIK**  
**DEPARTEMEN KIMIA**  
**FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**  
**UNIVERSITAS HASANUDDIN**

Kampus Unhas Tamalanrea Jl Perintis kemerdekaan Km.10 Tamalanrea Makassar 90245.

Tlp/fax:0411-586498, Alamat E-mail : L.kimiauh@indosat.net.id

No. : 03/LKA/HA-AAS/IV/20234  
 Nama : Ria Reski Ananda NIM : J011211054  
 Fakultas/Univ. : Kedokteran Gigi / Universitas Hasanuddin  
 Sampel : Filtrat rendaman kawat Ortodonti  
 Jumlah sampel : 12  
 Analisa : Besi (Fe) Tanggal Preparasi : 22-Apr-24  
 Tgl surat masuk : 22-Apr-24 Tanggal Analisa : 22-Apr-24  
 Tgl terima sampel : 22-Apr-24 Tanggal selesai : 23-Apr-24

| Optimasi Analisa Besi (Fe)             | [Fe] ppm | Absorban  | Kurva Kalibrasi Fe                     |
|--|----------|-----------|--|
| Type Alat: AAS Buck Scientific 205     | 0        | -0.003606 | $y = 0.0069x - 0.0011$<br>$R^2 = 0.99$ |
| Version 3.94C                          | 0.1      | 0.001046  |  |
| HCl Fe Hamamatsu                       | 0.5      | 0.003010  |  |
| P. gel. : 248,3 nm                     | 1        | 0.006348  |  |
| No Bkgnd Compensation                  | 3        | 0.019892  |  |
| Intgr Time : 3,0 S Bkg Gain : 1        | 5        | 0.032904  |  |
| Data Times : 56 mS Energy : 2,887      |          | 0.0100    |  |
| Ave HCL : 15 mA DC Suppr : on          |          | 0.0000    |  |
| Peak HCL : 60 mA Slit : 0,2 nm         |          |           |  |
| Min HCL Curr : 0,0 mA Meth. : Air/Acet |          |           |  |

| Kode Sampel | Absorban | [Fe] (mg/L) | Fp (kali) | [Fe] x fp (mg/L) | V. Awal (mL) | V. Akhir (mL) | [Fe] (mg/L) | Kadar Fe yang dilaporkan (mg/L) |
|-------------|----------|-------------|-----------|------------------|--------------|---------------|-------------|---------------------------------|
| I Saliva    | 0,0001   | 0,158       | 1         | 0,158            | 20           | 50            | 0,39        | 0,39                            |
| II Saliva   | 0,0001   | 0,178       | 1         | 0,178            | 20           | 50            | 0,44        | 0,44                            |
| III Saliva  | 0,0001   | 0,168       | 1         | 0,168            | 20           | 50            | 0,42        | 0,42                            |
| IV Saliva   | 0,0001   | 0,188       | 1         | 0,188            | 20           | 50            | 0,47        | 0,47                            |
| V 25%       | 0,0023   | 0,480       | 1         | 0,480            | 20           | 50            | 1,20        | 1,20                            |
| VI 25%      | 0,0023   | 0,504       | 1         | 0,504            | 20           | 50            | 1,26        | 1,26                            |
| VII 25%     | 0,0023   | 0,460       | 1         | 0,460            | 20           | 50            | 1,15        | 1,15                            |
| VIII 25%    | 0,0023   | 0,492       | 1         | 0,492            | 20           | 50            | 1,23        | 1,23                            |
| IX 50%      | 0,0047   | 0,832       | 1         | 0,832            | 20           | 50            | 2,08        | 2,08                            |
| X 50%       | 0,0047   | 0,804       | 1         | 0,804            | 20           | 50            | 2,01        | 2,01                            |
| XI 50%      | 0,0047   | 0,856       | 1         | 0,856            | 20           | 50            | 2,14        | 2,14                            |
| XII 50%     | 0,0047   | 0,868       | 1         | 0,868            | 20           | 50            | 2,17        | 2,17                            |

Mengetahui,  
Kepala,

Dr. Djauhal Basir, M.Si  
NIP. 197403192008011010

Makassar, 25 April 2024

PLR

Fibiyanthy, S.Si., M.Si  
NIP. 198102022006042001

| Bahan/ Kelompok Perlakuan | Satuan | Kandungan ion Fe (mg/L) |
|---------------------------|--------|-------------------------|
| I Larutan saliva          | Mg/L   | 0.39                    |
| II Larutan saliva         | Mg/L   | 0.43                    |
| III Larutan saliva        | Mg/L   | 0.42                    |
| IV Larutan saliva         | Mg/L   | 0.47                    |
| V 25%                     | Mg/L   | 1.20                    |
| VI 25%                    | Mg/L   | 1.26                    |
| VII 25%                   | Mg/L   | 1.15                    |
| VIII 25%                  | Mg/L   | 1.23                    |
| IX 50%                    | Mg/L   | 2.08                    |
| X 50%                     | Mg/L   | 2.01                    |
| XI 50%                    | Mg/L   | 2.14                    |
| XII 50%                   | Mg/L   | 2.17                    |

| Descriptives   |    |        |                |            |                                  |             |         |         |
|----------------|----|--------|----------------|------------|----------------------------------|-------------|---------|---------|
| Data           |    |        |                |            | 95% Confidence Interval for Mean |             |         |         |
|                | N  | Mean   | Std. Deviation | Std. Error | Lower Bound                      | Upper Bound | Minimum | Maximum |
| Larutan saliva | 4  | .4275  | .03304         | .01652     | .3749                            | .4801       | .39     | .47     |
| 25%            | 4  | 1.2100 | .04690         | .02345     | 1.1354                           | 1.2846      | 1.15    | 1.26    |
| 50%            | 4  | 2.1000 | .07071         | .03536     | 1.9875                           | 2.2125      | 2.01    | 2.17    |
| Total          | 12 | 1.2458 | .71523         | .20647     | .7914                            | 1.7003      | .39     | 2.17    |

| Tests of Normality |                |                                 |    |      |              |    |      |
|--------------------|----------------|---------------------------------|----|------|--------------|----|------|
| Data               | Kelompok       | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |      |
|                    |                | Statistic                       | df | Sig. | Statistic    | df | Sig. |
|                    | Larutan saliva | .220                            | 4  | .    | .980         | 4  | .900 |
|                    | 25%            | .166                            | 4  | .    | .984         | 4  | .925 |
|                    | 50%            | .214                            | 4  | .    | .959         | 4  | .773 |

a. Lilliefors Significance Correction

## Test of Homogeneity of Variance

|      |                                      | Levene Statistic | df1 | df2   | Sig. |
|------|--------------------------------------|------------------|-----|-------|------|
| Data | Based on Mean                        | 1.654            | 2   | 9     | .245 |
|      | Based on Median                      | 1.518            | 2   | 9     | .270 |
|      | Based on Median and with adjusted df | 1.518            | 2   | 7.738 | .278 |
|      | Based on Trimmed mean                | 1.652            | 2   | 9     | .245 |

## Descriptives

| Kelompok                         |                | Statistic                        | Std. Error  |        |        |
|----------------------------------|----------------|----------------------------------|-------------|--------|--------|
| Data                             | Larutan saliva | Mean                             | .4275       | .01652 |        |
|                                  |                | 95% Confidence Interval for Mean | Lower Bound | .3749  |        |
|                                  |                |                                  | Upper Bound | .4801  |        |
|                                  |                | 5% Trimmed Mean                  | .4272       |        |        |
|                                  |                | Median                           | .4250       |        |        |
|                                  |                | Variance                         | .001        |        |        |
|                                  |                | Std. Deviation                   | .03304      |        |        |
|                                  |                | Minimum                          | .39         |        |        |
|                                  |                | Maximum                          | .47         |        |        |
|                                  |                | Range                            | .08         |        |        |
|                                  |                | Interquartile Range              | .06         |        |        |
|                                  |                | Skewness                         | .437        | 1.014  |        |
|                                  |                | Kurtosis                         | 1.166       | 2.619  |        |
|                                  |                | 25%                              |             | Mean   | 1.2100 |
| 95% Confidence Interval for Mean | Lower Bound    |                                  |             | 1.1354 |        |
|                                  | Upper Bound    |                                  |             | 1.2846 |        |
| 5% Trimmed Mean                  | 1.2106         |                                  |             |        |        |
| Median                           | 1.2150         |                                  |             |        |        |
| Variance                         | .002           |                                  |             |        |        |
| Std. Deviation                   | .04690         |                                  |             |        |        |
| Minimum                          | 1.15           |                                  |             |        |        |
| Maximum                          | 1.26           |                                  |             |        |        |

|     |                                  |             |        |        |
|-----|----------------------------------|-------------|--------|--------|
|     | Range                            |             | .11    |        |
|     | Interquartile Range              |             | .09    |        |
|     | Skewness                         |             | -.543  | 1.014  |
|     | Kurtosis                         |             | -.153  | 2.619  |
| 50% | Mean                             |             | 2.1000 | .03536 |
|     | 95% Confidence Interval for Mean | Lower Bound | 1.9875 |        |
|     |                                  | Upper Bound | 2.2125 |        |
|     | 5% Trimmed Mean                  |             | 2.1011 |        |
|     | Median                           |             | 2.1100 |        |
|     | Variance                         |             | .005   |        |
|     | Std. Deviation                   |             | .07071 |        |
|     | Minimum                          |             | 2.01   |        |
|     | Maximum                          |             | 2.17   |        |
|     | Range                            |             | .16    |        |
|     | Interquartile Range              |             | .14    |        |
|     | Skewness                         |             | -.622  | 1.014  |
|     | Kurtosis                         |             | -1.188 | 2.619  |

| ANOVA          |                |    |             |         |      |
|----------------|----------------|----|-------------|---------|------|
| Data           |                |    |             |         |      |
|                | Sum of Squares | df | Mean Square | F       | Sig. |
| Between Groups | 5.602          | 2  | 2.801       | 1.013E3 | .000 |
| Within Groups  | .025           | 9  | .003        |         |      |
| Total          | 5.627          | 11 |             |         |      |

| Multiple Comparisons |              |                       |            |      |                         |             |
|----------------------|--------------|-----------------------|------------|------|-------------------------|-------------|
| Data                 |              |                       |            |      |                         |             |
| Tukey HSD            |              |                       |            |      |                         |             |
| (J) Kelompok         | (I) Kelompok | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |             |
|                      |              |                       |            |      | Lower Bound             | Upper Bound |
| Larutan saliva       | 25%          | -.78250 <sup>*</sup>  | .03717     | .000 | -.8863                  | -.6787      |

|  |               |                       |        |      |         |         |
|--|---------------|-----------------------|--------|------|---------|---------|
|  | 50%           | -1.67250 <sup>*</sup> | .03717 | .000 | -1.7763 | -1.5687 |
| 25%  | Lautan saliva | .78250 <sup>*</sup>   | .03717 | .000 | .6787   | .8863   |
|  | 50%           | -.89000 <sup>*</sup>  | .03717 | .000 | -.9938  | -.7862  |
| 50%  | Lautan saliva | 1.67250 <sup>*</sup>  | .03717 | .000 | 1.5687  | 1.7763  |
|  | 25%           | .89000 <sup>*</sup>   | .03717 | .000 | .7862   | .9938   |
| *. The mean difference is significant at the 0.05 level. |               |                       |        |      |         |         |

## ***CURRICULUM VITAE***

### **A. Data Pribadi**

1. Nama : Ria Reski Ananda
2. Tempat, tgl. Lahir : Paselloreng, 16 April 2003
3. Alamat : Jl. Sahabat 5 No.20
4. Kewarganegaraan : Warga Negara Indonesia

### **B. Riwayat Pendidikan**

1. TK Desa Paselloreng
2. SDN 197 Desa Paselloreng
3. MTs. As'Adiyah Puteri 1 Pusat Sengkang
4. SMAN 7 Wajo

### **C. Pekerjaan dan Riwayat Pekerjaan**

- Jenis Pekerjaan : Mahasiswa
- NIP atau identitas lain (NIK) : 7313135604030001
- Pangkat/Jabatan : Mahasiswa S1 Fakultas Kedokteran Gigi Universitas Hasanuddin

### **D. Karya ilmiah yang telah dipublikasikan (misalnya oada jurnal):**

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### **E. Makalah pada Seminar/Konfrensi Ilmiah Nasioanl dan Internasional**

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