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## LAMPIRAN

### 1. Surat izin penelitian



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
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Nomor : 00214/UN4.13/PT.01.04/2024  
Hal : Izin Penelitian

12 Januari 2024

Yth.

1. Direktur Utama Rumah Sakit Perguruan Tinggi Negeri (RSPTN) Universitas Hasanuddin
2. Direktur Rumah Sakit Hewan Pendidikan Universitas Hasanuddin
3. Dekan Fakultas Kedokteran Universitas Brawijaya
4. Kepala Laboratorium Teknik Kimia, Politeknik Negeri Ujung Pandang
5. Kepala Laboratorium STIFA Makassar di Tempat

Dengan hormat kami sampaikan bahwa mahasiswa **Program Studi Pendidikan Dokter Gigi Spesialis (PPDGS) Konservasi Gigi** 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 : Dwi Puji Lestari / J025211001  
Waktu Penelitian : Januari s.d. Februari 2024  
Tempat Penelitian : Laboratorium Teknik Kimia Politeknik Negeri Ujung Pandang, Laboratorium STIFA Makassar, Rumah Sakit Hewan Pendidikan Fakultas Kedokteran Hewan Universitas Hasanuddin, Laboratorium Patologi Anatomi RSPTN Universitas Hasanuddin, dan Laboratorium Biologi Molekuler Fakultas Kedokteran Universitas Brawijaya, Malang  
Pembimbing : Dr. Juni Jekti Nugroho, drg., Sp.K.G., Subsp.KE (K).  
Judul Penelitian : Ekspresi Neutrofil dan TNF- $\alpha$  setelah Aplikasi Kombinasi Ekstrak Teripang Emas (*Stichopus hermannii*) dan Kalsium Hidroksida pada Pulpa Gigi Tikus Galur Wistar yang Terinflamasi

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.Pro.s., Subsp. OGST(K).  
NIP 198102072008121002

Tembusan:

1. Dekan FKG Unhas;
2. Kepala Bagian Tata Usaha FKG Unhas;
3. Kepala Laboratorium Patologi Anatomi RSPTN Unhas;
4. Kepala Laboratorium Biologi Molekuler Fakultas Kedokteran Universitas Brawijaya.



## 2. Surat rekomendasi persetujuan komite etik penelitian



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI  
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FAKULTAS KEDOKTERAN GIGI  
RUMAH SAKIT GIGI DAN MULUT PENDIDIKAN  
KOMITE ETIK PENELITIAN KESEHATAN  
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Contact Person: drg. Muhammad Ikbal, Sp.Prost/Nur Aedah AR TELP. 08134297101/08114919191



## REKOMENDASI PERSETUJUAN ETIK

Nomor: CC39/PL.09/KEPK FKG-RSGM UNHAS/2024

Tanggal: 13 Maret 2024

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

No. Protokol	UH 17121065	No Protokol Sponsor	
Peneliti Utama	Drg. Dwi Puji Lestari	Sponsor	Pribadi
Judul Peneliti	Eksresi Neutrofil dan TNF- $\alpha$ setelah Aplikasi Kombinasi Ekstrak Teripang Emas ( <i>Stichopus hermannii</i> ) dan Kalsium Hidroksida pada Pulpa Gigi Tikus Galur Wistar yang terinflamasi		
No. Versi Protokol	1	Tanggal Versi	26 Februari 2024
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	<ol style="list-style-type: none"> <li>Laboratorium Teknik Kimia Politeknik Negeri Ujung Pandang</li> <li>Klinik Hewan Pendidikan Universitas Hasanuddin, Makassar</li> <li>Laboratorium STIFA, Makassar</li> <li>Laboratorium Patologi Anatomi Rumah Sakit Pendidikan Universitas Hasanuddin Makassar</li> <li>Laboratorium Biokimia Biomolekuler Fakultas Kedokteran Universitas Brawijaya Malang</li> </ol>		
Dokumen Lain			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 13 Maret 2024-13 Maret 2025	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal 08 Januari 2024
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhammad Ikbal, Sp.Prost	Tanda Tangan 	Tanggal 08 Januari 2024

## 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.

3. Hasil analisis uji statistik menggunakan SPSS 26 for Windows  
Uji Anova

		Mean	SD	Median	Minimum	Maximum	Nilai p
NETR	CaOH2 (1)	10.33	1.21	6.50	5.00	8.00	0.000*
	CaOH2+K1 (1)	10.33	1.21	6.50	5.00	8.00	
	CaOH2+K2 (1)	10.00	1.41	6.00	4.00	8.00	
	CaOH2+K3 (1)	10.00	1.41	6.00	4.00	8.00	
	CaOH2 (3)	9.17	1.60	9.00	7.00	11.00	
	CaOH2+K1 (3)	5.00	0.89	5.00	4.00	6.00	
	CaOH2+K2 (3)	3.67	1.03	4.00	2.00	5.00	
	CaOH2+K3 (3)	3.67	1.21	3.50	2.00	5.00	
	CaOH2 (5)	8.83	1.47	8.50	7.00	11.00	
	CaOH2+K1 (5)	4.00	1.41	4.00	2.00	6.00	
	CaOH2+K2 (5)	2.50	1.05	2.50	1.00	4.00	
CaOH2+K3 (5)	2.00	0.89	2.00	1.00	3.00		
TNFa	CaOH2 (1)	5.67	1.21	5.50	4.00	7.00	0.000*
	CaOH2+K1 (1)	5.17	1.17	5.00	4.00	7.00	
	CaOH2+K2 (1)	5.17	1.17	5.00	4.00	7.00	
	CaOH2+K3 (1)	5.00	1.41	5.00	3.00	7.00	
	CaOH2 (3)	9.00	1.17	8.00	6.00	9.00	
	CaOH2+K1 (3)	5.17	1.17	5.00	4.00	7.00	
	CaOH2+K2 (3)	3.33	0.82	3.50	2.00	4.00	
	CaOH2+K3 (3)	3.17	1.17	3.00	2.00	5.00	
	CaOH2 (5)	7.83	1.41	9.00	7.00	11.00	
	CaOH2+K1 (5)	3.50	1.05	3.50	2.00	5.00	
	CaOH2+K2 (5)	3.00	0.89	3.00	2.00	4.00	
CaOH2+K3 (5)	3.00	0.89	3.00	2.00	4.00		
IL4	CaOH2 (1)	4.00	0.89	4.00	3.00	5.00	0.000*
	CaOH2+K1 (1)	4.00	0.89	4.00	3.00	5.00	
	CaOH2+K2 (1)	5.17	1.17	5.00	4.00	7.00	
	CaOH2+K3 (1)	5.17	1.17	5.00	4.00	7.00	
	CaOH2 (3)	3.50	1.05	3.50	2.00	5.00	
	CaOH2+K1 (3)	4.50	1.05	4.50	3.00	6.00	
	CaOH2+K2 (3)	6.17	1.33	6.00	4.00	8.00	
	CaOH2+K3 (3)	7.33	1.21	7.50	6.00	9.00	
	CaOH2 (5)	2.50	1.05	2.50	1.00	4.00	
	CaOH2+K1 (5)	5.67	1.21	5.50	4.00	7.00	
	CaOH2+K2 (5)	7.67	1.21	7.50	6.00	9.00	
CaOH2+K3 (5)	7.83	1.17	8.00	6.00	9.00		



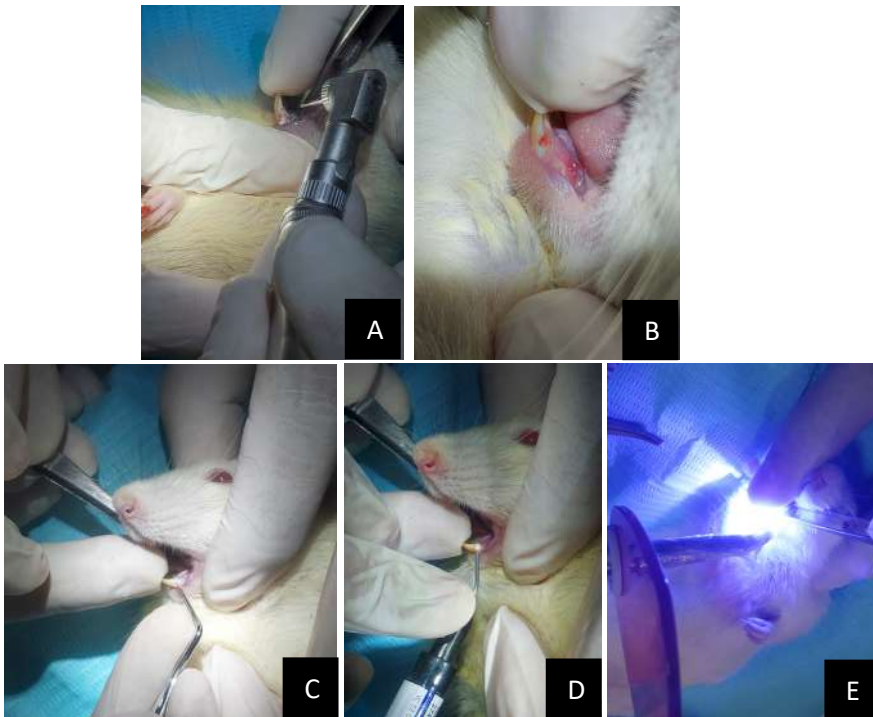
#### 4. Dokumentasi Penelitian

Proses pembuatan ekstrak teripang emas (*Stichopus hermannii*)



Gambar A. Teripang emas (*Stichopus hermannii*), B. Daging teripang emas (*Stichopus hermannii*) di blender, C. Proses maserasi, D. Hasil ekstrak teripang emas (*Stichopus hermannii*) setelah di *freeze drying*, E. Proses evaporasi, H. Gel ekstrak teripang emas (*Stichopus hermannii*)

## Prosedur Aplikasi Bahan Uji ke Hewan Coba



Gambar A. Preparasi gigi tikus wistar, B. Preparasi kavitas klas 1, C. Aplikasi bahan uji, D. Restorasi gigi (RMGIC), E. RMGIC di *light-cured*

## Prosedur Dekapitasi Hewan Coba



Gambar A. Proses eutanasia hewan coba, B. Proses ekstraksi pada hewan coba, C. Pemotongan rahang bawah hewan coba, D. Sampel untuk dibuat sampel preparat

## 5. Riwayat Hidup Penulis

### A. Data Pribadi

1. Nama : Dwi Puji Lestari
2. TTL : Ujung Pandang, 2 Mei 1986
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### B. Riwayat Pendidikan

1. SD INPRES BTN IKIP I 1992-1998
2. SLTP Islam Athirah Makassar 1998-2001
3. SMAN 1 Makassar 2001-2004
4. S1 (S.KG) FKG Universitas Hasanuddin 2004-2008
5. Profesi (drg.) PSPDG FK Universitas Hasanuddin 2008-2011
6. PPDGS Konservasi Gigi FKG Universitas Hasanuddin 2021-2024

### C. Riwayat Pekerjaan

1. Pegawai Negeri Sipil (PNS) Provinsi Sulawesi Selatan

### D. Karya Ilmiah terpublikasi

1. Lestari DP, Nugroho JJ. (2023). Management of asymptomatic irreversible with single visit endodontic treatment: A case report. *J Case Rep Dent Med*, vol. 5(1), pp. 11-14. <https://doi.org/10.20956/jcrdm.v5i1.189>