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Lampiran 1. Surat izin penelitian



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI**

**UNIVERSITAS HASANUDDIN
FAKULTAS KEDOKTERAN GIGI**

Jalan Perintis Kemerdekaan Km. 10, Makassar 90245
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Laman www.unhas.ac.id Email fdhm@unhas.ac.id

Nomor : 02203/UN4.13/PT.01.04/2023

7 Juni 2023

Hal : Izin Penelitian

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

Dengan hormat kami sampaikan bahwa mahasiswa Program Studi Pendidikan Dokter Gigi Spesialis (PPDGS) Ilmu Bedah Mulut dan Maksilofasial 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 : drg. Kasma AS / J045202004
Waktu Penelitian : Januari s.d. Desember 2023
Tempat Penelitian : Rumah Sakit Gigi dan Mulut Pendidikan (RSGMP) Universitas Hasanuddin
Pembimbing : 1. Abdul Fauzi, drg., Sp.BM.M. Subsp. T.M.T.M.J (K)
2. Hadira, drg., M.KG. Sp.BM.M., Subsp. C.O.M. (K)
Judul Penelitian : Pengaruh Penggunaan Platelet Rich Fibrin (PRF) terhadap Regenerasi Tulang Pasca Tindakan Emuileksi Kista pada Rahang di Rumah Sakit Gigi dan Mulut Pendidikan (RSGMP) Universitas Hasanuddin Tahun 2023

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

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



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

Tembusan:

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



Lampiran 2. Etik Penelitian



REKOMENDASI PERSETUJUAN ETIK Nomor: 0080/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 17120821 | No Protokol Sponsor | |
| Peneliti Utama | drg. Kasma AS | Spesies | Pribadi |
| Judul Penelitian | Pengaruh Penggunaan <i>Plaster Rich Fibro</i> (PRF) Terhadap Regenerasi Tulang Pada Tindakan <i>Enokleasi</i> Kista Pada Rahang di RSGMP Unhas Tahun 2022 - 2024 | | |
| Ns. Versi Protokol | 1 | Tanggal Versi | 09 Mei 2023 |
| Ns. Versi Protokol | | Tanggal Versi | |
| Tempat Penelitian | RSGMP UNHAS | | |
| Dokumen Lain | | | |
| Jenis Review | <input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard | Masa Berlaku 16 Mei 2023-16 Mei 2024 | Trekuensi Review Lanjutan |
| Ketua Komisi Etik Penelitian | Nama: Dr. drg. Marhamah, M.Kes | Tanda Tangan | Tanggal |
| Sekretaris Komisi Etik Penelitian | Nama: drg. Muhammad Iqbal, Sp.Pro. | 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 laporan 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 3. Surat Pernyataan Kesediaan Menjadi Subyek Penelitian

SURAT PERNYATAAN KESEDIAAN MENJADI SUBYEK PENELITIAN

Dengan ini saya,

Nama : Ilham Ramadhan

Umur : 25

Jenis Kelamin : Laki-laki / Perempuan

Setelah mendapat penjelasan secukupnya mengenai manfaat dan resiko penelitian dengan judul :

“Pengaruh Penggunaan Platelet Rich Fibrin (PRF) Terhadap Regenerasi Tulang Pasca Tindakan Eukleasi Kista Pada Rahang di RSGMP Unhas ”

Dengan ini menyatakan bahwa saya bersedia dengan suka rela berpartisipasi menjadi subjek penelitian tersebut.

Demikian pernyataan ini saya buat dengan sebenarnya dengan penuh kesadaran dan tanpa paksaan.

Makassar, 9 Juli 2023

Peneliti,



(drg. Kasma AS)

Yang Berpartisipasi,



(.....Ilham Ramadhan.....)

Lampiran 4. Etik penelitian Pasien dengan histopatologi kista



RUMAH SAKIT UNHAS

JL PERINTIS KEMERDEKAAN KM. 10, MAKASSAR, SULAWESI SELATAN
(0411) 591-331
E-mail : info@rs.unhas.ac.id

Kepada Yth.

-

HASIL PEMERIKSAAN JARINGAN SEDANG

| | | | |
|-------------|---|-------------------|-------------------------|
| No.RM | : 209446 | No.Permintaan Lab | : PA202310020015 |
| Nama Pasien | : IBNU FADLI | Tgl.Permintaan | : 02-10-2023 |
| JK/Umur | : L / 34 Th 5 Bl 19 Hr | Jam Permintaan | : 13:11:37 |
| Alamat | : PERUM MANGGALA PERMAI, | Tgl. Keluar Hasil | : 02-10-2023 |
| No.Periksa | : 2023/10/02/000578 | Jam Keluar Hasil | : 13:12:10 |
| Diagnosa | : Odontogenic cyst regio 36-37 DD/ radicular cyst, Bone tumor suspek | Poli | : LAB. PATOLOGI ANATOMI |

Makroskopik :

Diterima 2 wadah.

Wadah I (kanan) berisi 2 jaringan. Jaringan I berukuran 0,6 x 0,5 x 0,3 cm, warna putih kecokelatan, konsistensi padat kenyal. Jaringan II berukuran 0,4 x 0,3 x 0,2 cm, warna putih kecokelatan, konsistensi padat keras. Dibuat 1 kaset semua cetak. (I)

Wadah II (kiri) berisi 1 jaringan berukuran 1,5 x 0,8 x 0,5 cm, warna coklat kehitaman, konsistensi padat kenyal, dibuat 1 kaset semua cetak.(II)

Mikroskopik :

I. Sediaan menunjukkan jaringan yang dilapisi sel epitel skuamous dan sebagian dilapisi epitel kuboid berlapis.

Dibawahnya tampak infiltrasi sel radang limfosit, sel plasma, foamy makrofag, histiosit, stroma jaringan ikat longgar dan jaringan tulang.Tampak pula ekstrasvasi eritrosit dan area perdarahan.

II. Sediaan menunjukkan jaringan yang dilapisi epitel squamous, terdapat struktur dinding kista terdiri dari trabekel tulang atau dentin.

Kesimpulan :

DAPAT MENYOKONG SUATU KISTA DENTIGEROUS

Kesan

HUH.23.1061

SEDIaan INI TELAH DIKONSULTASIKAN KEPADA dr. DJUMADI ACHMAD, Sp.PA (K)

Tanggal : 25/10/2023 11.00.34

Penanggung Jawab



(dr. Djumadi Achmad, Sp. PA (K))

Lampiran 5. Data pasien dengan pengukuran menggunakan Image J

Pengukuran I

KONTROL TANPA PERLAKUAN

| No | Nama | Pre Operasi | | Kontrol 1 Bulan | | Kontrol 3 Bulan | | Kontrol 6 Bulan | |
|----|------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|
| | | Defect area (mm ²) | Integrated Density | Defect area (mm ²) | Integrated Density | Defect area (mm ²) | Integrated Density | Defect area (mm ²) | Integrated Density |
| 1 | NL | 803 | 0 | 765 | 26.769 | 720 | 39.733 | 661 | 56.754 |
| 2 | JS | 478 | 0 | 437 | 12.363 | 416 | 21.884 | 358 | 28.086 |
| 3 | AN | 175 | 0 | 157 | 6.731 | 96 | 10.738 | 74 | 19.140 |
| 4 | PS | 607 | 0 | 593 | 12.122 | 540 | 18.293 | 492 | 43.036 |
| 5 | FA | 539 | 0 | 487 | 12.772 | 457 | 17.866 | 429 | 24.950 |
| 6 | JU | 717 | 0 | 684 | 15.231 | 647 | 25.130 | 622 | 36.418 |
| 7 | SA | 569 | 0 | 547 | 5.681 | 508 | 14.955 | 461 | 15.268 |

PERLAKUAN PLATELET-RICH FIBRIN

| No | Nama | Pre Operasi | | Kontrol 1 Bulan | | Kontrol 3 Bulan | | Kontrol 6 Bulan | |
|----|------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| | | Defect area (mm2) | Integrated Density | Defect area (mm2) | Integrated Density | Defect area (mm2) | Integrated Density | Defect area (mm2) | Integrated Density |
| 1 | IR | 868 | 0 | 206 | 52.612 | 118 | 66.979 | 0 | 126.568 |
| 2 | JU | 239 | 0 | 69 | 27.710 | 14 | 50.770 | 0 | 90.447 |
| 3 | JU | 226 | 0 | 24 | 15.242 | 10 | 27.888 | 0 | 49.096 |
| 4 | IF | 697 | 0 | 143 | 57.536 | 28 | 80.537 | 0 | 119.529 |
| 5 | MN | 594 | 0 | 92 | 48.512 | 26 | 61.642 | 0 | 82.055 |
| 6 | AA | 611 | 0 | 110 | 80.688 | 56 | 98.452 | 0 | 113.052 |
| 7 | AJ | 330 | 0 | 96 | 34.542 | 25 | 45.179 | 0 | 72.531 |

Pengukuran II

KONTROL TANPA PERLAKUAN

| No | Nama | Pre Operasi | | Kontrol 1 Bulan | | Kontrol 3 Bulan | | Kontrol 6 Bulan | |
|----|------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|
| | | Defect area (mm ²) | Integrated Density | Defect area (mm ²) | Integrated Density | Defect area (mm ²) | Integrated Density | Defect area (mm ²) | Integrated Density |
| 1 | NL | 830 | 0 | 781 | 26.176 | 730 | 37.907 | 644 | 53.154 |
| 2 | JS | 477 | 0 | 460 | 12.670 | 414 | 21.110 | 362 | 28.022 |
| 3 | AN | 180 | 0 | 156 | 6.538 | 93 | 11.002 | 75 | 19.446 |
| 4 | PS | 607 | 0 | 593 | 11.754 | 540 | 18.700 | 492 | 25.249 |
| 5 | FA | 544 | 0 | 478 | 13.213 | 459 | 17.750 | 423 | 25.108 |
| 6 | JU | 727 | 0 | 685 | 18.583 | 644 | 24.099 | 621 | 35.155 |
| 7 | SA | 575 | 0 | 549 | 5.656 | 516 | 15.365 | 453 | 23.161 |

PERLAKUAN PLATELET-RICH FIBRIN

| No | Nama | Pre Operasi | | Kontrol 1 Bulan | | Kontrol 3 Bulan | | Kontrol 6 Bulan | |
|----|------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| | | Defect area (mm2) | Integrated Density | Defect area (mm2) | Integrated Density | Defect area (mm2) | Integrated Density | Defect area (mm2) | Integrated Density |
| 1 | IR | 845 | 0 | 221 | 50.296 | 113 | 64.885 | 0 | 124.379 |
| 2 | JU | 267 | 0 | 82 | 24.569 | 15 | 55.137 | 0 | 85.626 |
| 3 | JU | 233 | 0 | 27 | 17.604 | 16 | 29.291 | 5 | 47.236 |
| 4 | IF | 647 | 0 | 129 | 54.542 | 25 | 78.965 | 12 | 115.829 |
| 5 | MN | 595 | 0 | 100 | 47.182 | 27 | 62.234 | 0 | 82.153 |
| 6 | AA | 614 | 0 | 111 | 51.774 | 60 | 68.501 | 0 | 111.948 |
| 7 | AJ | 338 | 0 | 81 | 35.055 | 18 | 45.792 | 0 | 72.621 |

Lampiran 6. Hasil Analisis SPSS

| Kelompok | Intervensi | | | | | Kontrol | | | | | Nilai p |
|------------------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|---------|
| | Mean | SD | Median | Minimum | Maximum | Mean | SD | Median | Minimum | Maximum | |
| Defect_Pre | 507,43 | 237,91 | 594,50 | 229,50 | 856,50 | 559,14 | 203,24 | 572,00 | 177,50 | 816,50 | 0.670* |
| Defect_1 | 106,50 | 58,15 | 96,00 | 25,50 | 213,50 | 526,57 | 198,13 | 548,00 | 156,50 | 773,00 | 0.003** |
| Defect_3 | 39,36 | 36,76 | 26,50 | 13,00 | 115,50 | 484,29 | 202,17 | 512,00 | 94,50 | 725,00 | 0.003** |
| Defect_6 | 1,21 | 2,31 | 0,00 | 0,00 | 6,00 | 440,50 | 192,04 | 457,00 | 74,50 | 652,50 | 0.001** |
| Integrated_Pre | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 1.000** |
| Integrated_1 | 42.704,57 | 17.615,93 | 47.847,00 | 16.423,00 | 66.231,00 | 13.304,21 | 6.973,25 | 12.516,50 | 5.668,50 | 26.472,50 | 0.001* |
| Integrated_3 | 59.732,29 | 19.264,10 | 61.938,00 | 28.589,50 | 83.476,50 | 21.038,00 | 8.981,77 | 18.496,50 | 10.870,00 | 38.820,00 | 0.000* |
| Integrated_6 | 92.362,14 | 27.723,55 | 88.036,50 | 48.166,00 | 125.473,50 | 30.924,79 | 12.428,62 | 28.054,00 | 19.214,50 | 54.954,00 | 0.000* |
| Defect_Pre_1 | -400,93 | 186,83 | -498,50 | -643,00 | -177,50 | -32,57 | 15,31 | -29,00 | -59,00 | -14,00 | 0.002** |
| Defect_Pre_3 | -468,07 | 209,61 | -554,50 | -741,00 | -216,50 | -74,86 | 11,94 | -76,50 | -91,50 | -60,00 | 0.002** |
| Defect_Pre_6 | -506,21 | 237,72 | -594,50 | -856,50 | -227,00 | -118,64 | 21,09 | -115,00 | -164,00 | -100,50 | 0.002** |
| Defect_1_3 | -67,14 | 31,60 | -67,00 | -109,50 | -12,50 | -42,29 | 12,78 | -39,00 | -62,00 | -24,50 | 0.078* |
| Defect_1_6 | -105,29 | 58,27 | -96,00 | -213,50 | -23,00 | -86,07 | 21,84 | -88,50 | -120,50 | -56,50 | 0.430* |
| Defect_3_6 | -38,14 | 37,47 | -21,50 | -115,50 | -10,50 | -43,79 | 19,10 | -48,00 | -72,50 | -20,00 | 0.337** |
| Integrated_Pre_1 | 42.704,57 | 17.615,93 | 47.847,00 | 16.423,00 | 66.231,00 | 13.304,21 | 6.973,25 | 12.516,50 | 5.668,50 | 26.472,50 | 0.004* |
| Integrated_Pre_3 | 59.732,29 | 19.264,10 | 61.938,00 | 28.589,50 | 83.476,50 | 21.038,00 | 8.981,77 | 18.496,50 | 10.870,00 | 38.820,00 | 0.000* |
| Integrated_Pre_6 | 92.362,14 | 27.723,55 | 88.036,50 | 48.166,00 | 125.473,50 | 30.924,79 | 12.428,62 | 28.054,00 | 19.214,50 | 54.954,00 | 0.000* |
| Integrated_1_3 | 17.027,71 | 6.047,86 | 14.478,00 | 10.687,00 | 26.814,00 | 7.733,79 | 2.830,39 | 7.707,50 | 4.235,50 | 12.347,50 | 0.003* |
| Integrated_1_6 | 49.657,57 | 16.317,75 | 46.269,00 | 31.743,00 | 74.019,50 | 17.620,57 | 6.018,06 | 15.537,50 | 12.036,50 | 28.481,50 | 0.001* |
| Integrated_3_6 | 32.629,86 | 13.709,81 | 29.023,50 | 19.576,50 | 59.541,50 | 9.886,79 | 4.622,41 | 8.423,00 | 4.054,50 | 16.134,00 | 0.001* |

* Uji t Independen

** Uji Mann Whitney

| Kelompok | Intervensi | | | | | Nilai p | Kontrol | | | | | Nilai p |
|----------------|------------|-----------|-----------|-----------|------------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| | Mean | SD | Median | Minimum | Maximum | | Mean | SD | Median | Minimum | Maximum | |
| Defect_Pre | 507,43 | 237,91 | 594,50 | 229,50 | 856,50 | 0.000** | 559,14 | 203,24 | 572,00 | 177,50 | 816,50 | 0.000* |
| Defect_1 | 106,50 | 58,15 | 96,00 | 25,50 | 213,50 | | 526,57 | 198,13 | 548,00 | 156,50 | 773,00 | |
| Defect_3 | 39,36 | 36,76 | 26,50 | 13,00 | 115,50 | | 484,29 | 202,17 | 512,00 | 94,50 | 725,00 | |
| Defect_6 | 1,21 | 2,31 | 0,00 | 0,00 | 6,00 | | 440,50 | 192,04 | 457,00 | 74,50 | 652,50 | |
| Integrated_Pre | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.000** | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.000** |
| Integrated_1 | 42.704,57 | 17.615,93 | 47.847,00 | 16.423,00 | 66.231,00 | | 13.304,21 | 6.973,25 | 12.516,50 | 5.668,50 | 26.472,50 | |
| Integrated_3 | 59.732,29 | 19.264,10 | 61.938,00 | 28.589,50 | 83.476,50 | | 21.038,00 | 8.981,77 | 18.496,50 | 10.870,00 | 38.820,00 | |
| Integrated_6 | 92.362,14 | 27.723,55 | 88.036,50 | 48.166,00 | 125.473,50 | | 30.924,79 | 12.428,62 | 28.054,00 | 19.214,50 | 54.954,00 | |

* Uji Repeated Anova

** Uji Friedman

Lampiran 7. Riwayat hidup penulis



A. Data Pribadi

1. Nama : Kasma AS
2. Tempat, Tanggal Lahir : Sungguminasa, 3 Oktober 1988
3. Alamat : Perumahan Bumi Pratama Residence BLV A/17,
Tamangapa Raya III, Kec. Manggala,
Kel. Bangkala, Makassar, Sulawesi Selatan
4. Kewarganegaraan : Indonesia

B. Riwayat Pendidikan

1. SD Inpres Karampuang, Gowa Tahun 1994 - 1997
2. SD Negeri Kalukuang, Gowa Tahun 1997 - 2000
3. SMP Negeri 6 Makassar Tahun 2000 - 2003
4. SMA Negeri 17 Makassar Tahun 2003 - 2006
5. S1 (S.Kg) Fakultas Kedokteran Gigi Universitas Padjadjaran, Bandung
Tahun 2006 - 2010
6. Profesi (drg.) Fakultas Kedokteran Gigi Universitas Padjadjaran, Bandung
Tahun 2010 - 2012
7. PPDGS Bedah Mulut dan Maksilofasial Universitas Hasanuddin, Makassar
Tahun 2020 - sekarang