

DAFTAR PUSTAKA

- Afifah A, Nugraha AW, dan Larassati DP. (2023). Aplikasi Ekstrak Kolagen sebagai Minuman Kolagen. *Jurnal Agroindustri Pangan*, 2(2), 28–43.
- Agusmawanti P. (2016). Efektivitas Pemberian Ekstrak Jahe Merah (*Zingiber officinale*) terhadap Jumlah Sel Fibroblas dalam Proses Penyembuhan Ulkus pada Mukosa Mulut Tikus Putih Jantan (*Rattus novergicus*). *ODONTO Dental Journal*, 3(2), 98–104.
- Ahmad F dan Lata J. (2021). Collagen Matrix Membrane as a Biological Dressing in Defects of The Oral Mucosa. *National Journal of Maxillofacial Surgery*, 12(2), 199–205.
- Alhajj WA. (2020). Gingival Phenotypes and Their Relation to Age, Gender and Other Risk Factors. *BMC Oral Health*, 20(1), 1–8.
- Almeida T, Valverde T, Martins-júnior P, Ribeiro H, Kitten G, *et al.*, (2015). Morphological and Quantitative Study of Collagen Fibers in Healthy and Diseased Human Gingival Tissues. *Rom J Morphol Embryol*, 56(1), 33–40.
- Al-Shaer A, Lyons A, Ishikawa Y, Hudson BG, Boudko SP, *et al.*, (2021). Sequence-Dependent Mechanics of Collagen Reflect Its Structural and Functional Organization. *Biophysical Journal*, 120(18), 4013–4028.
- Anggraini CW, Aris MW, dan Pujiastuti P. (2016). Gambaran Status Kebersihan Rongga Mulut dan Status Gingiva Pasien RSGM Universitas Jember Oktober-November tahun 2015. *Jurnal Pustaka Kesehatan*, 4(3), 525–532.
- Aprilita AT dan Komala ON. (2024). Perbedaan Nilai Papillary Bleeding Index pada Pasien Periodontitis Berdasarkan Jenis Kelamin. *Padjadjaran Journal of Dental Researchers and Students*, 8(1), 105–111.
- Aravinthan A, Park JK, Hossain MA, Sharmila J, Kim HJ, *et al.*, (2018). Collagen-based Sponge Hastens Wound Healing via Decrease of Inflammatory Cytokines. *3 Biotech*, 8(12), 1–9.
- Asmawati A, Fachruddin A, dan Puspitas LD. (2023). Efektivitas Larutan Jeruk Nipis (*Citrus Aurantifolia*) terhadap Penurunan Peradangan Gingiva. *SENTRI: Jurnal Riset Ilmiah*, 2(5), 1422–1435.
- Binlath T, Thammanichanon P, Rittipakorn P, Thinsathid N, dan Jitprasertwong P. (2022). Collagen-Based Biomaterials in Periodontal Regeneration: Current Applications and Future Perspectives of Plant-Based Collagen. In *Biomimetics*, 7(2), 1-16.
- Brandao-Rangel MAR, Oliveira CR, da Silva Olímpio FR, Aimbire F, Mateus-Silva JR, *et al.*, (2022). Hydrolyzed Collagen Induces an Anti-Inflammatory

- Response That Induces Proliferation of Skin Fibroblast and Keratinocytes. *Nutrients*, 14(23), 1–13.
- Buduneli N, Bıyıkoglu B, dan Kinane DF. (2024). Utility of Gingival Crevicular Fluid Components for Periodontal Diagnosis. *Periodontology 2000*, 95(1), 156–175.
- Cahaya C dan Masulili SLC. (2015). Perkembangan Terkini Membran Guided Tissue Regeneration/Guided Bone Regeneration sebagai Terapi Regenerasi Jaringan Periodontal, 1, 1–11.
- Calder PC, Carr AC, Gombart AF, dan Eggersdorfer M. (2020). Optimal Nutritional Status for a Well-Functioning Immune System is an Important Factor to Protect Against Viral Infections. In *Nutrients*, 12(8), 1–3.
- Cao L, Zhang Z, Yuan D, Yu M, dan Min J. (2024). Tissue Engineering Applications of Recombinant Human Collagen. *Frontiers in Bioengineering and Biotechnology*, 12(1), 1–16.
- Caton JG, Armitage G, Berglundh T, Chapple ILC, Jepsen S, *et al.*, (2018). A New Classification Scheme for Periodontal and Peri-Implant Diseases and Conditions. *Journal of Periodontology*, 89(1), 1–8.
- Chen Y. (2024). Gingivitis: Etiology, Treatment Modalities, and Preventive Strategies. *Journal of Dental Sciences*, 12(1), 9–10.
- Cobb CM dan Sottosanti JS. (2021). A Re-evaluation of Scaling and Root Planing. *Journal of Periodontology*, 92(10), 1370–1378.
- Desyaningrum H, Epsilawati L, dan Rusyanti Y. (2017). Karakteristik Kerusakan Tulang Alveolar pada Penderita Periodontitis Kronis dan Agresif dengan Pencitraan Cone Beam Computed Tomography. In *Padjadjaran J Dent Res Student*, 1(2), 139–144.
- Diah dan Shofiah, I. (2022). Pengaruh Kitosan Udang Kombinasi Kolagen Gurami terhadap Ketebalan Epitel Gingivitis. *E-Prodenta Journal of Dentistry*, 6(1), 547–555.
- Diatri Atiningsih E, Amananti W, dan Santoso J. (2021). Perbedaan Pemberian Dosis Gel Kolagen Tulang Ceker Ayam Broiler 5%, 10% dan 15% terhadap Waktu Penyembuhan Luka pada Kelinci. *Jurnal Ilmiah Farmasi*, 10(10), 1–9.
- Diller RB dan Tabor AJ. (2022). The Role of the Extracellular Matrix (ECM) in Wound Healing: A Review. In *Biomimetics*, 7(3), 1–15
- Dinas Kesehatan Kota Padang. (2018). *Laporan Tahunan Tahun 2018: Edisi 2019*. Dinas Kesehatan Kota Padang, 135–136.
- Eaton K dan Ower P. (2015). *Practical Periodontics* (1st ed., pp. 4–78). Elsevier Health Sciences.

- Edelmayer M, Wehner C, Ulm C, Zechner W, Shafer D, *et al.*, (2020). *Which substances loaded onto collagen scaffolds influence oral tissue regeneration?* 24(1), 3363–3394.
- Editha MS dan Zubardiah L. (2020). Distribusi Gingivitis pada Pasien Skizofrenia. *Jurnal Kedokteran Gigi Terpadu*, 2(1), 31–36.
- Elgezawi M, Haridy R, Almas K, Abdalla MA, Omar O, *et al.*, (2022). Matrix Metalloproteinases in Dental and Periodontal Tissues and Their Current Inhibitors: Developmental, Degradational and Pathological Aspects, *International Journal of Molecular Sciences*, 23(16), 1–17.
- Ermawati T, Harmono H, dan Kartikasari D. (2021). Effectiveness of Robusta Coffee Bean Extract Gel on Collagen Fibers Density in Post-Gingivectomy Wound Healing. *ODONTO Dental Journal*, 8(1), 45.
- Faizah A dan Anindhita M. (2021). Curettage Treatment in Cases of Gingivitis Et Causa Plaque and Dental Calculus: Case Report. *Prosiding University Research Colloquium*, 285–292.
- Feng Y dan Li HP. (2024). Optimizing Collagen-based Biomaterials for Periodontal Regeneration. In *Frontiers in Bioengineering and Biotechnology*, 12(1), 1–15.
- Fidler AL, Boudko SP, Rokas A, dan Hudson BG. (2018). The Triple Helix of Collagens. *Journal of Cell Science*, 131(7), 1–15.
- Fitri H, Fajrin FN, Kasuma N, dan Suharti N. (2019). Efek Pemberian Zink Pasca Scaling Root Planing terhadap Kadar MMP-8 Saliva pada Pasien Gingivitis. *Jurnal Kedokteran Gigi Universitas Baiturrahmah*, 6(2), 132–141.
- Gegout PY, Stutz C, dan Huck O. (2023). Gels as adjuvant to non-surgical periodontal therapy: A systematic review and meta-analysis. *Heliyon*, 9(7), 1.
- Hammami C dan Nasri W. (2021). Antibiotics in the Treatment of Periodontitis. *International Journal of Dentistry*, 1–8.
- Handayani IT dan Karyadi E. (2021). Kuretase sebagai Perawatan Gingivitis Marginalis Lokalisata pada Gigi Anterior Mandibula. *Prosiding Dental Seminar Universitas Muhammadiyah Surakarta (DENSIUM)*, 5, 85–92.
- Handini AF, Pratiwi R, dan Danifatis Sunnah T. (2021). Regenerasi Sel Ligamen Periodontal dengan Kolagen Sisik Ikan Nila (*Oreochromis niloticus*). *Medali Journal*, 3(1), 44–50.
- Hao Y, Zhao B, Wu D, Ge X, dan Han J. (2024). Recombinant Humanized Collagen Type XVII Promotes Oral Ulcer Healing via Anti-Inflammation and Accelerate Tissue Healing. *Journal of Inflammation Research*, 17, 4993–5004.
- Harniati ED dan Turdinawati Y. (2024). Kesehatan Mulut pada Ibu Hamil dengan Anemia. *Jurnal Inovasi dan Pengabdian Masyarakat Indonesia*, 3(1), 35–40.

- Haryani IGAD, Wedagama DM, dan Hervina. (2022). The Effectiveness of Rinsing with Celery Leafs (*Apium graveolens L.*) Extract 10% and Chlorhexidine Gluconate 0,1% to Accelerate Post-Scaling Gingivitis Healing. *Odonto Dental Journal*, 9(1), 51–56.
- Haryani W dan Siregar IH. (2022). Modul Gingivitis (T. Purnama, Ed.; 1st ed.). *Jurnal Kesehatan Gigi*. 3–4.
- Hernández M, Mayer MPA, dan Santi-Rocca J. (2022). The Human Microbiota in Periodontitis. *Frontiers in Cellular and Infection Microbiology*, 12(1), 1–3.
- Hidayat MF, Pudjiastuti P, dan Supriyadi. (2023). Radiografi Profil Kehilangan Tulang Alveolar pada Pasien Periodontitis Kronis. *Padjadjaran Journal of Dental Researchers and Students*, 7(2), 206–211.
- Hikmah N. (2015). Profil Osteoblas dan Osteoklas Tulang Alveolar pada Model Tikus Diabetes Tahap Awal dengan Aplikasi Gaya Ortodonti yang Berbeda. *El-Hayah: Jurnal Biologi*, 5(2), 97–102.
- Imai K, Kato H, Taguchi Y, dan Umeda M. (2019). Biological Effects of Shikonin in Human Gingival Fibroblasts via ERK 1/2 Signaling Pathway. *Molecules*, 24(19), 1–13.
- Isrofah, Sagiran, dan Afandi M. (2015). Efektivitas Salep Ekstrak Daun Binahong terhadap Proses Penyembuhan Luka Bakar Derajat 2 Termal pada Tikus Putih. *Muhammadiyah Journal of Nursing*, 2(1), 27–39.
- Kamal Asaad N dan Abbood HM. (2023). Comparing Gingival Inflammation and Salivary Acidity to Hormonal Variation During Menstruation. *Saudi Dental Journal*, 35(3), 251–254.
- Karamoy D, Pangemanan DHC, Mintjelungan CN, dan Khoman J. (2019). Perbedaan Intensitas Nyeri saat Tindakan Skeling Ultrasonik Berdasarkan Kriteria OHI-S di RSGM Universitas Sam Ratulangi. *E-GIGI*, 7(2), 44–48.
- Kasaj A. (2018). *Gingival Recession Management: a Clinical Manual* (1st ed.). Springer, 3.
- Kaziród K, Hunek A, Zapała M, Wiśniewska-Skomra J, Chmielarz K, *et al.*, (2023). Collagen supplementation - does it bring real benefits? *Quality in Sport*, 13(1), 88–107.
- Kemenkes RI. (2019). *Laporan Nasional Riskesdas 2018*. Badan Penelitian dan Pengembangan Kesehatan, 211.
- Kikuchi T, Hayashi JI, dan Mitani A. (2022). Next-Generation Examination, Diagnosis, and Personalized Medicine in Periodontal Disease. *Journal of Personalized Medicine*, 12(10), 1–21.
- Klewin-Steinböck S dan Wyganowska M. (2023). Reduction in Gingival Bleeding after Atelocollagen Injection in Patients with Hashimoto's Disease.

- International Journal of Environmental Research and Public Health*, 20(4), 1–9.
- Komori T, Ono M, Hara ES, Ueda J, Nguyen HTT, *et al.*, (2018). Type IV Collagen $\alpha 6$ Chain is A Regulator of Keratin 10 in Keratinization of Oral Mucosal Epithelium. *Scientific Reports*, 8(1), 1–11.
- Koppolu P, Almutairi H, Al Yousef S, Ansary N, Noushad M, *et al.*, (2024). Relationship of Skin Complexion with Gingival Tissue Color and Hyperpigmentation. A multi-ethnic comparative study. *BMC Oral Health*, 24(1), 1–8.
- Krismariono A. (2018). Prinsip-prinsip Dasar Scaling dan Root Planing dalam Perawatan Periodontal. *Periodontic Journal*, 1(1), 1–5.
- Kumar PM, Nagate RR, Chaturvedi S, Al-Ahmari MMM, Al-Qarni MA, *et al.*, (2024). Importance of Periodontal Phenotype in Periodontics and Restorative. *BMC Oral Health*, 24(1), 1–10.
- Kusnadi K, Herdiana Y, Rochima E, Putra ON, Gazzali AM, *et al.*, (2024). Collagen-Based Nanoparticles as Drug Delivery System in Wound Healing Applications. *International Journal of Nanomedicine*, 19(1), 11321–11341.
- Lang NP dan Bartold PM. (2018). Periodontal health. *Journal of Periodontology*, 89(1), 9–16.
- Lestari U, Syamsurizal, dan Herru WN. (2024). Efektivitas Kombinasi Pasta Gigi Arang Aktif Cangkang Sawit (*Elaeis guineensis* J.) dengan Allantoin terhadap Gingivitis Tikus Putih Jantan (*Rattus norvegicus*). *Medical International Journal*, 1(1), 1–11.
- Li P dan Wu G. (2018). Roles of Dietary Glycine, Proline, and Hydroxyproline in Collagen Synthesis and Animal Growth. In *Amino Acids*, 50(1), 29–38.
- Li T, Zhou Z, Xie Y, Cai W, Zhu X, *et al.*, (2025). Engineering Strong and Tough Collagen Hydrogels and Tissue Constructs via Twisting and Crosslinking. *Cell Reports Physical Science*, 6(3), 1–13.
- Liang F, Zhou Y, Zhang Z, Zhang Z, dan Shen J. (2023). Association of Vitamin D in Individuals with Periodontitis. *BMC Oral Health*, 23(1), 1–14.
- Lifshits LA, Rabin M, Tohar R, Netti F, Gabay M, *et al.*, (2023). Enhancement of Collagen-I Levels in Human Gingival Fibroblasts by Small Molecule Activation of HIF-1 α . *Journal of Agricultural and Food Chemistry*, 71(20), 7829–7835.
- Luca MM, Buzatu R, dan Bumbu BA. (2024). Evaluating the Protective Role of Vitamin A Supplementation in Periodontal Health: A Comprehensive Systematic Review and Meta-Analysis. *Journal of Clinical Medicine*, 13(16), 1–11.

- Mahanonda R, Champaiboon C, Subbalekha K, Sa-Ard-Iam N, Rattanathammatada W, *et al.*, (2016). Human Memory B Cells in Healthy Gingiva, Gingivitis, and Periodontitis. *The Journal of Immunology*, 197(3), 715–725.
- Mak KM, Png CYM, dan Lee DJ. (2016). Type V Collagen in Health, Disease, and Fibrosis. *Anatomical Record*, 299(5), 613–629.
- Manalip PH, Anindita PS, dan Tendean LEN. (2020). Gambaran Kebiasaan Bernapas melalui Mulut dan Gigi Berjejal Anterior pada Siswa SD Negeri 46 Manado. *E-GiGi*, 8(1), 22–27.
- Mappeare F, Paramma ZI, dan Pawinru AS. (2023). Root Resorption due to Orthodontic Treatment. *Makassar Dental Journal*, 12(1), 133–138.
- Marconi GD, Fonticoli L, Rajan TS, Lanuti P, Della Rocca Y, *et al.*, (2021). Transforming Growth Factor-Beta1 and Human Gingival Fibroblast-to-Myofibroblast Differentiation: Molecular and Morphological Modifications. *Frontiers in Physiology*, 12(1), 1–10.
- Martini AAK. (2017). Pengaruh Aplikasi H₂O₂ 35% pada Gingiva Tikus Putih Jantan (*Rattus novergicus*). *Interdental Jurnal Kedokteran Gigi*, 13, 25–28.
- Mathew-Steiner SS, Roy S, dan Sen CK. (2021). Collagen in Wound Healing. In *Bioengineering*, 8(5), 1–15.
- Meliawati F, Paramitha N, Sidiqa AN, dan Nasroen SL. (2022). Aplikasi Gel Serbuk Membran Telur Ayam Ras 10% (*Gallus gallus domesticus*) terhadap Penyembuhan Luka Sayat Gingiva Tikus galur Wistar. *Jurnal Kedokteran Gigi Universitas Padjadjaran*, 34(2), 109–115.
- Mustapa Bidjuni, I Ketut Harapan, dan Ni Luh Rizky Astiti. (2023). Tingkat Pengetahuan tentang Cara Memelihara Kesehatan Gigi dan Mulut dengan Kejadian Gingivitis Masa Pubertas pada Siswa Kelas VII A SMPN 8 Manado. *Dental Health Journal*, 10(2), 61–77.
- Nataris AS dan Santik YDP. (2017). Faktor Kejadian Gingivitis pada Ibu Hamil. *Higeia Journal of Public Health Research and Development*, 1(3), 117–128.
- Newman MG, Takei HH, dan Klokkevold PR. (2019). *Newman and Carranza's Clinical Periodontology* (F. A. Carranza, Ed.; 13th ed., pp. 237–287). Elsevier.
- Ossowska A, Kusiak A, dan Świetlik D. (2022). Evaluation of the Progression of Periodontitis with the Use of Neural Networks. *Journal of Clinical Medicine*, 11(16), 1–12.
- Pandey V, Kumar D, Nisha S, Gupta A, Verma T, *et al.*, (2021). Evaluation of Anti-plaque and Anti-inflammatory Effects of Oral Curcumin Gel as Adjunct to Scaling and Root Planing. *International Journal of Applied and Basic Medical Research*, 11(2), 90.
- Prihandini WY dan Faizah A. (2022). Perawatan Kuretase Gingiva pada Gigi Kaninus Kanan Rahang Atas. *JIKG (Jurnal Ilmu Kedokteran Gigi)*, 5(1), 1–6.

- Primadina N, Basori A, dan Perdanakusuma DS. (2019). Proses Penyembuhan Luka ditinjau dari Aspek Mekanisme Seluler dan Molekuler. *Qanun Medika*, 3(1), 31–43.
- Purnama Nurhakim, Emma Kamelia, dan Cahyo Nugroho. (2022). Knowledge of Dental and Oral Hygiene with Gingivitis in Adolescents. *The Incisor (Indonesian Journal of Care's in Oral Health)*, 6(1), 185–194.
- Purwaningsih E, Shoumi F, dan Ulfah SF. (2021). Faktor Gingivitis pada Remaja Berdasarkan Jenis Kelamin. *Indonesian Journal of Health and Medical*, 1(4), 566–569.
- Putra WA, Karnila R, dan Diharmi A. (2021). Aktivitas Ekstrak Kasar Enzim Kolagenase dari Organ dalam Ikan Malong (*Congresox talabon*) pada pH Berbeda. *Jurnal Teknologi dan Industri Pertanian Indonesia*, 13(1), 27–30.
- Rahman VR, Bratadiredja MA, dan Saptarini NM. (2021). Potensi Kolagen sebagai Bahan Aktif Sediaan Farmasi. *Majalah Farmasetika*, 6(3), 253–286.
- Rahmitasari F. (2018). Scaffold 3D Kitosan dan Kolagen sebagai Graft pada Kasus Kerusakan Tulang. *Jurnal Material Kedokteran Gigi*. 5(2), 1–7.
- Rajabimashhadi Z, Gallo N, Salvatore L, dan Lionetto F. (2023). Collagen Derived from Fish Industry Waste: Progresses and Challenges. In *Polymers*, 15(3), 1–28.
- Ramadhani Y, Rahmasari RRP, Prajnasari KN, Alhakim MM, Aljunaid M, *et al.*, (2022). A Mucoadhesive Gingival Patch with Epigallocatechin-3-gallate Green Tea (*Camellia sinensis*) as an Alternative Adjunct Therapy for Periodontal Disease. *Dental Journal*, 55(2), 114–119.
- Reddyindd PS. (2018). *Essentials of Clinical Periodontology and Periodontics* (5th ed., pp. 172–181). Jaypee Brothers Medical Publisher.
- Ricardo AN dan Oktariana D. (2024). Peran Makrofag dalam Penyembuhan Luka Oral. *Jurnal Kesehatan Gigi Dan Mulut (JKGM)*, 6(1), 6–11.
- Rodrigues CV, Sousa RO, Carvalho AC, Alves AL, Marques CF, *et al.*, (2023). Potential of Atlantic Codfish (*Gadus morhua*) Skin Collagen for Skincare Biomaterials. *Molecules*, 28(8), 1–17.
- Rohani S dan Purwoko M. (2021). Isolation and Characterization of Wound Healing Compounds from Chloroform Extract of Binahong Leaves (*Anredera cordifolia* (Ten.) Steenis). *Magna Medika Berkala Ilmiah Kedokteran Dan Kesehatan*, 8(1), 40–59.
- Roman J. (2023). Fibroblasts—Warriors at the Intersection of Wound Healing and Disrepair. *Biomolecules*, 13(6), 1–19.
- Romasco T, Mandrillo PM, Morsut E, Tumedei M, Mandatori D, *et al.*, (2023). Morpho-Functional Effect of a New Collagen-Based Medical Device on Human Gingival Fibroblasts. *Biomedicines*, 11(3), 1–16.

- Sabatini S, Maiorani C, Bassignani J, Cotellessa S, Di Trani G, *et al.*, (2024). Effectiveness of Ultrasonic and Manual Instrumentation in Nonsurgical Periodontal Therapy. In *Applied Sciences (Switzerland)*, 14(5), 1–23.
- Safitri DN. (2020). Tingkat Keparahan Gingivitis pada Ibu Hamil. *Jurnal Ilmu Kesehatan Masyarakat*, 4(3), 470–479.
- Santosa AH, Kintawati S, dan Sugiaman VK. (2022). Effect of Resorbable Collagen Plug (RCP) on Extraction Wound Healing. *E-GiGi*, 10(1), 81.
- Saputri D. (2018). Gambaran Radiograf pada Penyakit Periodontal. 3(1), 16–21.
- Sbricoli L, Guazzo R, Annunziata M, Gobbato L, Bressan E, *et al.*, (2020). Selection of Collagen Membranes for Bone Regeneration: A literature review. *Materials*, 13(3), 1–16.
- Sembiring D, Adhani R, dan Hatta I. (2018). Hubungan antara Oral Hygiene pada Wanita Pasca Menopause dengan Skor Gingival Indeks di Panti Sosial Tresna Werdha Budi Sejahtera Banjarbaru. *Jurnal Kedokteran Gigi*, 2(1), 108–112.
- Simancas Escorcía V, Leal Betancur J, dan Díaz Caballero A. (2020). Expression of Type III Collagen in Hypertrophic Gingival Tissue of Patients with Orthodontic Treatment. *Revista Facultad de Odontología*, 32(2), 53–63.
- Singh DK, Kumar G, Pathi J, Jalaluddin M, dan Jena S. (2021). A Comparative Evaluation between the Efficacy of Scaling dan Root Planing (SRP) with Local Delivery of Chlorhexidine Gluconate and SRP Alone in Periodontal Pocket Reduction Therapy. *Journal of Pharmaceutical Research International*, 33(53), 67–78.
- Singhal R. (2017). *Fundamentals of Periodontology* (pp. 17–30). In A. Agarwal, V. Agarwal, R. Khanna, D. Mehrotra, P. Rastogi, A. Sharma, dan S. Tripathi, Eds. Wolters Kluwer.
- Sionkowska A, Lewandowska K, dan Adamiak K. (2020). The Influence of UV Light on Rheological Properties of Collagen Extracted from Silver Carp Skin. *Materials*, 13(19), 1–10.
- Smith PC, Martínez C, Martínez J, dan McCulloch CA. (2019). Role of Fibroblast Populations in Periodontal Wound Healing and Tissue Remodeling. In *Frontiers in Physiology*, 10(1), 1–11.
- Soares SC, Roux LJ, Castro AR, Silva CC, Rodrigues R, *et al.*, (2023). Oral Manifestations: A Warning-Sign in Children with Hematological Disease Acute Lymphocytic Leukemia. In *Hematology Reports*, 15(3), 491–502.
- Sousa RO, Martins E, Carvalho DN, Alves AL, Oliveira C, *et al.*, (2020). Collagen from Atlantic cod (*Gadus morhua*) Skins Extracted Using CO2 Acidified Water with Potential Application in Healthcare. *Journal of Polymer Research*, 27(3), 1–9.

- Spatafora G, Li Y, He X, Cowan A, dan Tanner ACR. (2024). The Evolving Microbiome of Dental Caries. In *Microorganisms*, 12(1), 1–45.
- Staufenbiel I, Adam K, Hahn A, Kerlikowsky F, Flohr M, *et al.*, (2023). Influence of Nutrition and Physical Activity on Local and Systemic Inflammatory Signs in Experimentally Induced Gingivitis. *Nutrients*, 15(1), 1–13.
- Stavropoulos A, Bertl K, Spineli LM, Sculean A, Cortellini P, *et al.*, (2021). Medium and Long-term Clinical Benefits of Periodontal Regenerative/reconstructive Procedures in Intrabony Defects: Systematic review and network meta-analysis of randomized controlled clinical studies. In *Journal of Clinical Periodontology*, 48(3), 410–430.
- Suarez F. (2021). *Periodontics The Complete* (pp. 35–42). In M. Zaffron, Ed. Quintessence Publishing USA.
- Subagja Yani DA dan Neliana. (2022). Pengaruh Gel Kolagen Sisik Ikan Kakap Merah (*Lutjanus russellii*) terhadap Penyembuhan Luka Bakar pada Tikus Putih Jantan (*Rattus norvegicus*), Syntax Literate: *Jurnal Ilmiah Indonesia*. 7(4), 3637–3644.
- Sukanti E, Eriyati, Yenti A, Faisal M, dan Dewi T. (2024). Hubungan Kebersihan Gigi dan Mulut dengan Kondisi Gingiva pada Siswa SMP. *Jurnal Menara Medika*, 6(2), 336–343.
- Sunarjo L, Siregar IHY, dan Supriyana. (2019). Peranan Pengolesan Pasta Kulit Manggis terhadap Pembentukan Jaringan Ikat Kolagen dalam Kesembuhan Ulkus Mukosa Mulut. *Jurnal Kesehatan Gigi*, 6(1), 56–62.
- Supriatna A, Tammama T, dan Khoirunnisa FS. (2023). Description of Saliva Melatonin Levels in Gingivitis Patients at Rsgm Unjani Cimahi Indonesia, 3(1), 79–88.
- Suryana B, Asmawati, Fathiah, Sofyan S, Jumain MAS, *et al.*, (2023). *Periodonsia* (Sulastrianah dan Erwin, Eds.; 1st ed., pp. 35–47). Eureka Media Aksara.
- Syahrul, Abdullah R, dan Majid A. (2020). Program Penerapan Pelaporan Indikator Mutu dan Keselamatan Pasien di Rumah Sakit Daerah Tipe C Provinsi Sulawesi Selatan: Sebuah Pengabdian Masyarakat. *J-Dinamika: Jurnal Pengabdian Masyarakat*, 5(1), 124–130.
- Tada A dan Miura H. (2019). The Relationship between Vitamin C and Periodontal Diseases. *International Journal of Environmental Research and Public Health*, 16(14), 1–15.
- Tangka'a RRB, Suling PL, dan Mintjelungan CN. (2015). Gambaran Status Gingiva pada Penderita Leukemia di RSUP Prof. Dr. R. D. Kandou Manado. *Jurnal E-Gigi*, 3(1), 121–129.
- Tetan-El D, Adam AM, dan Jubhari EH. (2021). Gingival Diseases: Plaque Induced and Non-Plaque Induced. *Makassar Dental Journal*, 10(1), 88–95.

- Tonetti MS, Jepsen S, Jin L, dan Otomo-Corgel J. (2017). Impact of The Global Burden of Periodontal Diseases on Health, Nutrition and Wellbeing of Mankind: A call for global action. *Journal of Clinical Periodontology*, 44(5), 456–462.
- Trombelli L, Farina R, dan Tatakis DN. (2018). *Plaque-induced gingivitis: Case definition and diagnostic considerations*, 89(1), 46–73.
- Ulliana, Fathiah, Haryani N, Afdilla N, Femala HD, *et al.*, (2023). *Kesehatan Gigi dan Mulut* (Sulastrianah dan Erwin, Eds.; 1st ed., pp. 37–45). Eureka Media Aksara.
- Umniyati H dan Kirana ED. (2024). Pengaruh Menopause terhadap Xerostomia pada Wanita di Posbindu Puskesmas Bojong Nangka, Kabupaten Tangerang. *Malahayati Health Student Journal*, 4(11), 4774–4782.
- Wang H. (2021). A Review of the Effects of Collagen Treatment in Clinical Studies. In X. Hu (Ed.), *Polymers*, 13(22), 1–20.
- WHO. (2024). *Global Strategy and Action Plan on Oral Health 2023-2030*. Geneva: World Health Organization, 38–40.
- Wibowo FD dan Utami MD. (2022). Kerusakan Tulang Alveolar Tipe Horizontal pada Wanita Muda dengan Penyakit Periodontal disertai Diabetes Melitus Tipe-1 Tidak Terkontrol. *Mulawarman Dental Journal*, 2(1), 51–57.
- Widayanti A, Fauziah DA, dan Setiadi RN. (2016). Formulasi Sediaan Gel Kolagen Ikan Tuna (*Thunnus albacares*) dengan Hidroksipropil Metilselulosa (HPMC) sebagai Gelling Agent. *Farmasains*, 3(1), 1–6.
- Widjaja A, Syaif A, dan Hendrawati. (2023). Tumor Necrosis Factor-Alpha A Potential Therapeutic Target for Periodontitis and Diabetes Mellitus. *Interdental Jurnal Kedokteran Gigi (IJKG)*, 19(2), 148–157.
- Wijayanti DA, Herawati D, Karina VM, dan Murdiastuti K. (2024). Chitosan Collagen Hydrogel: A Potential Scaffold Biomaterial for Periodontal Regenerative Treatment. *Interdental Jurnal Kedokteran Gigi (IJKG)*, 20(1), 124–132.
- Winiati E, Alwiyanasyah AN, Sebastian J, Owen K, dan Anggun RG. (2024). Efficacy of Non-Surgical Therapy on IL-6 Levels in Patients with Chronic Periodontitis. *Dentika: Dental Journal*, 27(1), 49–57.
- Wulandari A, Arma U, dan Ningrum V. (2024). Efektivitas Penggunaan Aplikasi Digital Dental Calculator terhadap Durasi Waktu Pengukuran Gingival Index. *Jurnal Kedokteran Gigi Universitas Padjadjaran*, 36(2), 159–166.
- Yashima A, Morozumi T, Yoshie H, Hokari T, Izumi Y, *et al.*, (2019). Biological Responses Following One-stage Full-Mouth Scaling and Root Planing with and without Azithromycin. *Journal of Periodontal Research*, 54(6), 1–11.

- Yuditha S dan Meilansari V. (2021). Penggunaan Aloe vera (Lidah Buaya) sebagai Terapi Alternatif Stomatitis Aftosa Rekuren Tipe Minor. *M-Dental Education and Research Journal*, 1(3), 145–156.
- Zachariadou C, Hart T, Hooper D, dan Mariotti A. (2022). Defining The Healthy Human Gingival Collagen Transcriptome. *Journal of Periodontology*, 94(5), 606–615.
- Zainuddin SLA, Latib N, Taib H, Ahmad B, Sabarudin MA, *et al.*, (2024). Effectiveness of Conventional Periodontal Treatment with Tetracycline Fiber Versus Minocycline Gel Application Subgingivally in Periodontitis Patients. *Cureus*, 16(2), 3–10.
- Zhu J, Li Z, Zou Y, Lu G, Ronca A, *et al.*, (2022). Advanced Application of Collagen-Based Biomaterials in Tissue Repair and Restoration. In *Journal of Leather Science and Engineering*, 4(30), 1–19.

