

DAFTAR PUSTAKA

- Alfaris, S. M., Dhahir, R. K., dan Al-Nima, A. M., (2022), Preparation, Evaluation of Propolis Extract Gel and exploring its Antioxidant, Antimicrobial Activity, *Phcog J.*, 14(6).
- Aslani, A., Zolfaghari, B., dan Davoodvandi, F., (2016), Design, formulation and evaluation of an oral gel from Punica granatum flower extract for the treatment of recurrent aphthous stomatitis, *Adv Pharm Bull*, 6(3): 391–398.
- Ardiansyah, R., Andria, M., dan Taurina, W., (2022), Pengaruh CMC-Na Terhadap Stabilitas Fisik Salep Kombinasi Ekstrak Ikan Gabus dan Ekstrak Teripang Emas. *Medical Sains: Jurnal Ilmiah Kefarmasian*, 7(3) 571–582.
- Banga, H.K., Kalra, P., Belokar, R.M., dan Kumar, R. (ed.), (2022), *Additive Manufacturing with Medical Applications*. edisi 1. CRC Press.
- Barreto, G.D.A., Cerqueira, J.C., Reis, J.H.D.O., Hodel, K.V.S., Gama, L.A., Anjos, J.P., Minafra-Rezende, C.S., Andrade, L.N., Amaral, R.G., Pessoa, C.D.O. dan Luciano, M.C.D.S., (2022), Evaluation of the Potential of Brazilian Red Propolis Extracts: An Analysis of the Chemical Composition and Biological Properties, *Appl Sci*, 12(22): 11741.
- Bhuyan, R., Bhuyan, S. K., Mohanty, J. N., Das, S., Juliana, N., dan Abu, I. F., (2022), Periodontitis and Its Inflammatory Changes Linked to Various Systemic Diseases: A Review of Its Underlying Mechanisms, *Biomedicines*, 10(10): 1–18.
- Bolamperti, S., Villa, I., dan Rubinacci, A., (2022), Bone remodeling: an operational process ensuring survival and bone mechanical competence, *Bone Research*, 10(1): 48.
- Chaparro, O., 2016, *Regenerative Medicine : A New Paradigma in Bone Regeneration*, InTech lisensi.
- Cho, Y. D., Kim, K. H., Lee, Y. M., Ku, Y., dan Seol, Y. J., (2021), Periodontal wound healing and tissue regeneration: a narrative review, *Pharmaceuticals*, 14(5): 456.
- Dave, P. H., Mahendra, J., Bedi, M., dan Namasivayam, A., (2023), Alveolar Bone Destruction in Periodontitis-An Overview, *Int J Drug Res Dent Sci*, 5(4): 21-28.

- Deng, Z., Fan, T., Xiao, C., Tian, H., Zheng, Y., Li, C., dan He, J., (2024), TGF- β signaling in health, disease, and therapeutics, *Signal Transduction and Targeted Therapy*, 9(1): 61.
- Desyaningrum, H., Epsilawati, L., dan Rusyanti, Y., (2017), Karakteristik kerusakan tulang alveolar pada penderita periodontitis kronis dan agresif dengan pencitraan cone beam computed tomography, *PJoD*, 1(2): 139-144.
- Faizah, A., dan Anindhita, M., (2021), Curettage Treatment In Cases Of Gingivitis Et Causa Plaque And Dental Calculus 41, 42: Case Report, *Pros Univ Res Colloq*, 285-292.
- Fatimatuzzahro, N., Prasetya, R. C., dan Puri, S., (2021), Potensi ekstrak sutra laba-laba *Argiope modesta* 5% sebagai bahan anti inflamasi pada luka gingiva tikus Wistar Potential of 5% extract of *Argiope modesta* silk as an anti-inflammatory agent in the gingival wound of Wistar rats, *PJoD*, 5(2): 133-139.
- Gasner, N.S. dan Schure, R.S., (2023), Periodontal disease, In *StatPearls [Internet]*, StatPearls Publishing.
- Guvva, S., Patil, M., dan Mehta, D., (2017), Rat as laboratory animal model in periodontology. *Int J Oral Health Sci*, 7(2): 68-75.
- Handayani, B., dan Brahmanta, A., (2018) Jumlah Osteoblas pada Daerah Tarikan dengan Pemberian Ekstrak Propolis Sebagai Pencegahan Relaps Ortodonti. *Denta Jurnal Kedokteran Gigi*. 12(1): 28-33.
- Harsas, N. A., Safira, D., Aldilavita, H., Yukiko, I., Alfarikhi, M. P., Saadi, M. T., dan Muchlisya, S., (2021), Curettage treatment on stage III and IV periodontitis patients, *JIDA*, 4(1): 47-54.
- Hidayat, M. F., dan Pudjiastuti, P., (2023), Radiografi profil kehilangan tulang alveolar pada pasien periodontitis kronis: studi deskriptif. *PJoD*, 7(2): 206-211.
- Hozzein, W. N., Badr, G., Al Ghamdi, A. A., Sayed, A., Al-Waili, N. S., dan Garraud, O., (2015), Topical application of propolis enhances cutaneous wound healing by promoting TGF-beta/Smad-mediated collagen production in a streptozotocin-induced type I diabetic mouse model, *Cellular Physiology and Biochemistry*, 37(3): 940-954.
- Katariya, C., dan Rajasekar, A., (2024), Efficacy of Locally Delivered Aloe Vera Hydrogel in Patients With Chronic Periodontitis: A Prospective Clinical Study, *Cureus*, 16: 4.

- Kasagi, S., dan Chen, W, (2013), TGF-beta1 on osteoimmunology and the bone component cells, *Cell & Bioscience*, 3: 1-7.
- Kementerian Kesehatan RI. *Pokok Pokok Hasil Riskesdas (Riset Kesehatan Dasar)*, 2018, Jakarta : Kementerian Kesehatan RI; 2019, hal. 201- 205.
- Kinane, D. F., Stathopoulou, P. G., dan Papapanou, P. N., (2017), Periodontal diseases, *Nat Rev Dis Primers*, 3(1): 1-14.
- Kızıldağ, A., Arabacı, T., Albayrak, M., Taşdemir, U., Şenel, E., Dalyanoglu, M., dan Demirci, E., (2019), Therapeutic effects of caffeic acid phenethyl ester on alveolar bone loss in rats with endotoxin-induced periodontitis, *Journal of dental sciences*, 14(4): 339-345.
- Komang, M. S. W. N., Putu, T. N. L., dan Nengah, A. I., (2014), Studi Pengaruh Lamanya Pemaparan Medan Magnet terhadap Jumlah Sel Darah Putih (Leukosit) pada Tikus Putih (*Rattus norvegicus*), *Bul Fis*, 15(1): 31-38.
- Kresnoadi, U., dan Prabowo, T. S. Y., (2020), Expression of interleukin-1 β and TGF-B due to induction with natural propolis extract and bovine bone graft combination in tooth extraction sockets leading to alveolar bone regeneration, *J Int Dent Med Res*, 13(3): 935-8.
- Krismariono, A., (2009), Prinsip-prinsip dasar scaling dan root planing dalam perawatan periodontal. *Periodontic J*, 1(1):1-5.
- Kwon, T., Lamster, I.B. dan Levin, L., (2021), Current concepts in the management of periodontitis, *Int Dent J*, 71(6): 462-476.
- López-Valverde, N., Pardal-Peláez, B., López-Valverde, A., Flores-Fraile, J., Herrero-Hernández, S., Macedo-de-Sousa, B., Herrero-Payo, J. dan Ramírez, J.M., (2021), Effectiveness of propolis in the treatment of periodontal disease: updated systematic review with meta-analysis, *Antioxidants*, 10(2): 269.
- Loos, B. G., dan Van Dyke, T. E., (2020), The role of inflammation and genetics in periodontal disease, *Periodontol 2000*, 83(1): 26-39.
- Malaha, N., Sartika, D., Pannyiwi, R., Zaenal, Z., dan Zakiah, V., (2023), Efektifitas Sediaan Biospray Revolutik Terhadap Ekspresi Sitokin Transforming Growth Factor-B (TGF-B) Dalam Proses Penyembuhan Luka. *SAINTEKES: Jurnal Sains, Teknologi Dan Kesehatan*, 2(2), 178-185.
- Marchianti, A. C. N., Sakinah, E. N., Elfiah, U., Putri, N. K. S., Wahyuliswari, D. I., Maulana, M., dan Ulfa, E. U., (2021), Gel formulations of Merremia

mammosa (Lour.) accelerated wound healing of the wound in diabetic rats, *J Tradit Complement Med*, 11(1): 38–45.

Megawati, M., dan Yacobus, A. R., (2019), Formulasi dan Uji Stabilitas Fisik Sediaan Gel Ekstrak Kulit Buah Rambutan (*Nephelium lappaceum* L.) Sebagai Obat Sariawan Menggunakan Variasi Konsentrasi Basis Carbopol, *JFS*, 5(1): 05-10.

Mokoena, D., Kumar, S. S. D., Houreld, N. N., dan Abrahamse, H., (2018), Role of photobiomodulation on the activation of the Smad pathway via TGF- β in wound healing. *Journal of Photochemistry and Photobiology B: Biology*, 189: 138-144.

Morand, D. N., Davideau, J. L., Clauss, F., Jessel, N., Tenenbaum, H., dan Huck, O., (2017), Cytokines during periodontal wound healing: potential application for new therapeutic approach, *Oral Dis*, 23(3): 300–311.

Muñoz-Carrillo, J. L., Hernández-Reyes, V. E., García-Huerta, O. E., Chávez-Ruvalcaba, F., Chávez-Ruvalcaba, M. I., Chávez-Ruvalcaba, K. M., dan Díaz-Alfaro, L., (2019), Pathogenesis of periodontal disease, Dalam *Periodontal Disease: Diagnostic and Adjunctive Non-Surgical Considerations*^{6th} ed., London, Intech Open, hal. 1-24.

Newman, M.G., Takei, H.H., Klokkevold, dan Carranza, F.A., (2019), P.R., *Newman and Carranza's Clinical Periodontology*^{13th} ed., Philadelphia, Elsevier, hal. 64, 160, 243-247, 350, 715.

Poniatowski, Ł. A., Wojdasiewicz, P., Gasik, R., dan Szukiewicz, D., (2015), Transforming growth factor Beta family: insight into the role of growth factors in regulation of fracture healing biology and potential clinical applications, *Mediators of inflammation*, 2015.

Poppolo Deus, F., dan Ouanounou, A., (2022), Chlorhexidine in Dentistry: Pharmacology, Uses, and Adverse Effects, *Int Dent JI*, 72(3): 269-277.

Prihandini, W. Y., dan Faizah, A., 2022, Perawatan Kuretase Gingiva pada Gigi Kaninus Kanan Rahang Atas, *JIKG*, 5(1): 1-6.

Puspasari, A., Harijanti, K., Soebadi, B., Hendarti, H. T., Radithia, D., dan Ernawati, D. S., (2018), Effects of topical application of propolis extract on fibroblast growth factor-2 and fibroblast expression in the traumatic ulcers of diabetic *Rattus norvegicus*, *JOMFP*, 22(1): 54-58.

Ramirez, H., Patel, S. B., dan Pastar, I., (2014), The role of TGF β signaling in wound epithelialization, *Advances in wound care*, 3(7): 482-491.

- Rollando, R., dan Sitepu, R., (2018), Efek Antibakteri dari Kombinasi Minyak Atsiri Masoyi dan Kayu Manis, *Jurnal Kefarmasian Indonesia*, 8(1): 1-8.
- Saputri, D., (2018), Gambaran radiograf pada penyakit periodontal, *JDS*, 3(1): 16-21.
- Shaharudin, A., dan Aziz, Z., (2016), Effectiveness of hyaluronic acid and its derivatives on chronic wounds: a systematic review, *J Wound Care*, 25(10): 585-592.
- Sivolella, S., Biagi, M.D., Brunello, G., Ricci, S., Tadic, D., Marinc, C., Lops, D., Ferroni, L., Gardin, C., Bressan, E., dan Zavan, B., (2013), Delivery Systems and Role of Growth Factors for Alveolar Bone Regeneration in Dentistry. *Intech*, 13:742
- Suchetha, A., Tanwar, E., Sapna, N., Bhat, D., dan Spandana, A., (2017), Alveolar bone in disease, *IP Int J Periodontol Implantol*, 2, 136-140.
- Suryono, S., Hasmy, N. S., Pertiwi, T. L., dan Benyamin, B., (2017), Propolis 10%-Gel as a Topical Drug Candidate on Gingivitis, *International J Medicine and Pharmacy*, 5(1):12-17.
- Suryono, S., Resha Wulandari, F., Andini, H., Widjaja, J., dan Dwisetyo Nugraheni, T., (2020), Methodology in Wistar rats periodontitis induction: A modified ligation technique with injection of bacteria, *Int J Oral Health Sci*. 10: 36-40.
- Thangavelu, A., Kaspar, S. S., Kathirvelu, R. P., Srinivasan, B., Srinivasan, S., dan Sundram, R., (2020), Chlorhexidine: an elixir for periodontics, *J Pharm Bioallied Sci*, 12(1): S57-S59.
- Wagh, V. D., (2013), Propolis: A wonder bees product and its pharmacological potentials, *Adv Pharmacol Sci*, 20(3): 1-11.
- Wallace, H. A., Basehore, B. M., dan Zito, P. M., (2017), Wound healing phases, In *StatPearls [Internet]*, StatPearls Publishing.
- Widjiastuti, I., Suardita, K., dan Saraswati, W., (2014), The expressions of NF- κ B and TGF β -1 on odontoblast-like cells of human dental pulp injected with propolis extracts, *Dent J (Majalah Kedokt Gigi)*, 47(1): 13-18.
- Widjiastuti, I., Subiyanto, A., Ningtyas, E. K., Popyandra, R., Kurniawan, M. G., dan Retnaningsih, F. D., (2020), Propolis extract as pulp capping material enhances odontoblast-like cell thickness and type 1 collagen expression (in vivo), *Dent J (Majalah Kedokt Gigi)*, 53(1): 1-5.

- Wijaya, J., dan Sari, R., (2024), The Beneficial Effects of Propolis on Osteoblast Differentiation: a Literature Review, *IJKG*, 20(1): 96-102.
- Wijayanto, R., Herawati, D., dan Sudibyo, (2014), Perbedaan Efektivitas Topikal Gel Asam Hialuronat dan Gel Metronidazol terhadap Penyembuhan Jaringan Periodontal Setelah pada Periodontitis Kronis Kuretase. *Jurnal Kedokteran Gigi*. 5(2086–0218):307–325.
- Wu, M., Chen, G., dan Li, Y. P., (2016), TGF- β and BMP signaling in osteoblast, skeletal development, and bone formation, homeostasis and disease, *Bone research*, 4(1): 1-21.
- Wu, M., Wu, S., Chen, W., dan Li, Y. P., (2024), The roles and regulatory mechanisms of TGF- β and BMP signaling in bone and cartilage development, homeostasis and disease, *Cell Research*, 34(2): 101-123.
- Wulandaria, P., Hutagalunga, M. R., dan Perdanakusumaa, D. S., (2021), Deteksi kadar transforming growth factor (TGF- β) pada luka akut. *JRE*, 6(1): 1-13.
- Zhang, W., Ju, J., Rigney, T., dan Tribble, G., (2014), Porphyromonas gingivalis infection increases osteoclastic bone resorption and osteoblastic bone formation in a periodontitis mouse model, *BMC Oral Health*, 14: 1-9.