

DAFTAR PUSTAKA

- Ahmadzadeh, E., Talebnia, F., Tabatabaei, M., Ahmadzadeh, H., Mostaghaci, B., (2016), Osteoconductive composite graft based on bacterial synthesized hydroxyapatite nanoparticles doped with different ions: From synthesis to in vivo studies, *Nanomedicine: Nanotechnology, Biology and Medicine*, 12(5): 1387–1395.
- AL-Dulaimi, K., Banks, J., Nugyen, K., Al-Sabaawi, A., Tomeo-Reyes, I., Chandran, V., (2021), Segmentation of White Blood Cell, Nucleus and Cytoplasm in Digital Haematology Microscope Images: A Review—Challenges, Current and Future Potential Techniques, *IEEE Reviews in Biomedical Engineering*, 14, 290–306.
- Alfaro, S., Acuna, V., Ceriani, R., Cavieres, M. F., Weinsten-Opppenheimer, C. R., Campos-Estrada, C., (2022), Involvement of Inflammation and Its Resolution in Disease and Therapeutics, *International Journal of Molecular Sciences*, 23(10719): 1-30.
- Anggraini, M., (2019), Analisis Keputusan Konsumen Dalam Membeli Ayam Ras Pedaging (*Gallus domesticus*) di Kota Baturaja Kabupaten Ogan Komering Ulu, *JASEP*, 5(2): 57-63.
- Ansari, M., Naghib, S.M., Moztafzadeh, F., Salati, A., (2011), Synthesis and Characterization of Hydroxyapatite-Calcium Hydroxide for Dental Composites, *Ceramics-Silikaty*, 55(2): 123-126.
- Ayavoo, T., Murugesan, K., Gnanasekaran, A., (2021), Roles and mechanisms of stem cell in wound healing, *Stem Cell Investigation*, 8, 4–4.
- Balázs, A., Mall, M. A., (2019), Mucus obstruction and inflammation in early cystic fibrosis lung disease: Emerging role of the IL-1 signaling pathway, *Pediatric Pulmonology*, 54(S3).
- Bee, S. T., Hamid, Z. A., (2019), Characterization of chicken bone waste-derived hydroxyapatite and its functionality on chitosan membrane for guided bone regeneration, *Composites Part B-Engineering*, 163: 562–573.
- Bielecki, T., M Dohan Ehrenfest, D., A Everts, P., Wiczowski, A., (2012), The role of leukocytes from L-PRP/L-PRF in wound healing and immune defense: new perspectives, *Current pharmaceutical biotechnology*, 13(7), 1153-1162.

- Bonanthaya, K., Panneerselvam, E., Manuel, S., Kumar, V., V., Rai, A., (2021), *Oral and Maxillofacial Surgery for the Clinician, 1st ed.*, Springer, Singapore, hal. 262, 264, 265.
- Browning, L., Patel, M., Bring Horvath, E., Tawara, K., Jorcyk, C. L., (2018), IL-6 and ovarian cancer: inflammatory cytokines in promotion of metastasis, *Cancer Management and Research*, Volume 10, 6685–6693.
- Budi, H. S., Soesilowati, P., Imanina, Z., (2017), Gambaran histopatologi penyembuhan luka pencabutan gigi pada makrofag dan neovaskular dengan pemberian getah batang pisang ambon, *Majalah Kedokteran Gigi Indonesia*, 3(3): 121-127.
- Cañedo-Dorantes, L., Cañedo-Ayala, M., (2019), Skin Acute Wound Healing: A Comprehensive Review, *International Journal of Inflammation*, 2019, 1–15.
- Chen, G., Yu, Y., Wu, X., Wang, G., Ren, J., Zhao, Y., (2018), Bioinspired Multifunctional Hybrid Hydrogel Promotes Wound Healing, *Advanced Functional Materials*, 28(33): 1-10.
- Chow, O., Barbul, A., (2014), Immunonutrition: Role in Wound Healing and Tissue Regeneration, *Advances in Wound Care*, 3(1): 46–53.
- Dewi, A. H., Ana, I. D., (2018), The use of hydroxyapatite bone substitute grafting for alveolar ridge preservation, sinus augmentation, and periodontal bone defect: A systematic review, *Heliyon*.
- Dewi, S. R. P., Marlamsya, D. O., & Bikarindrasari, R., (2017), Efek antikaries ekstrak gambir pada tikus jantan galur wistar, *Majalah Kedokteran Gigi Indonesia*, 3(2): 83-92.
- Diker, N., Gulsever, S., Koroglu, T., Yilmaz Akcay, E., Oguz, Y., (2018), Effects of Hyaluronic Acid and Hydroxyapatite/Beta-tricalcium Phosphate in Combination on Bone Regeneration of a Critical-size Defect in an Experimental Model, *Journal of Craniofacial Surgery*, 29(4): 1087–1093.
- Dutta, S. R., Passi, D., Singh, P., Bhuibhar, A., (2014), Ceramic and non-ceramic hydroxyapatite as a bone graft material: a brief review, *Irish Journal of Medical Science*, 184(1), 101–106.
- Dwiastuti, S. A. P., (2013), Dental Extraction Technique Using Difficulty, *Jurnal Kesehatan Gigi*, 1(2): 115-119.

- Ellis, S., (2018), *Immunology of Wound Healing*, SpringerLink, <https://link.springer.com/article/10.1007/s13671-018-0234-9>, (01/02/2023).
- Feng, X., McDonald, J. M., (2011), Disorders of Bone Remodeling. *National Institute of Health*, 6(1), 121–145. Freire, M. O., Van Dyke, T. E., 2013, Natural resolution of inflammation, *Periodontology 2000*, 63(1): 149–164.
- Feng, Y., Chai, J., Chu W., Ma, L., Zhang, P., Duan, H., (2013), Combination of Ketamine and Xylazine Exacerbates Cardiac Dysfunction in Severely Scalded Rats During The Shock Stage, *Exp Ther Med*, 6(3): 641-648.
- Fernández, R. F., Bucchi, C., Navarro, P., Beltrán, V., Borie, E., (2015), Bone grafts utilized in dentistry: an analysis of patients' preferences, *BMC Medical Ethics*, 16(1): 1-6.
- Fillingham, Y., Jacobs, J., (2016), Bone grafts and their substitutes, *The bone & joint journal*, 98(1): 6-9.
- Finlay, A. Y., Griffiths, T. W., Belmo, S., Chowdhury, M. M. U., (2021), Why we should abandon the misused descriptor 'erythema', *The British Journal of Dermatology*, 185(6), 1240.
- Gao, J., Hao, L., Bingbing, N., Zhu, Y., Guan, J., Ren, H., Yu, H., Zhu, Y., Duan, J., (2022), Biopaper Based on Ultralong Hydroxyapatite Nanowires and Cellulose Fibers Promotes Skin Wound Healing by Inducing Angiogenesis, *Coatings*, 12(4): 479.
- Gayathri, S. B., Kamaraj, P., (2011), Macrophage and Osteoblast Response to Micro and Nano Hydroxyapatite-A Review, *Nano Vision*, 1(1):1-13.
- Ghosh, P., Bhattacharjee, D., Nasipuri, M., (2016), Blood smear analyzer for white blood cell counting: A hybrid microscopic image analyzing technique, *Applied Soft Computing*, 46: 629–638.
- Gonzales, A. C. d. O., Andrade, Z. d. A., Costa, T. F., Medrado, A. R. A. P., (2016), Wound Healing, *An Bras Dermatol*, 91(5): 614-20.
- Goutianos, G., Tzioura, A., Kyparos, A., Paschalis, V., Margaritelis, N. V., Veskoukis, A. S., Zafeiridis, A., Dipla, K., Nikolaidis, M. G., Vrabas, I. S., (2015), The rat adequately reflects human responses to exercise

in blood biochemical profile: a comparative study, *Physiological Reports*, 3(2): e12293.

Gunawan, F., Sularsih, Soemartono, (2015), Perbedaan Kitosan Berat Molekul Rendah dan Tinggi Terhadap Jumlah Sel Limfosit pada Proses Penyembuhan Luka Pencabutan Gigi, *Denta Jurnal Kedokteran Gigi*, 9(1): 113-121.

Guo, S., DiPietro, L. A., (2010), Factors Affecting Wound Healing. *Journal of Dental Research*, 89(3), 219–229.

Guyton, A. C., Hall, J. E., (2014), *Buku Ajar Fisiologi Kedokteran*, Edisi 12, Jakarta, EGC, hal. 19.

Hann, J., Bueb, J. -L., Tolle, F., Bréchar, S., (2019), Calcium signaling and regulation of neutrophil functions: Still a long way to go, *Journal of Leukocyte Biology*.

Harahap, H., Iriany, Meldha, Z., (2017), Characterization of Hydroxyapatite from Chicken Bone via Precipitation, *Key Engineering Materials*, 744: 485-489.

Himammi, A. N., Hartono, B. T., (2020), Ekstraksi Gigi Posterior dengan Kondisi Periodontitis Kronis Sebagai Persiapan Pembuatan Gigi Tiruan Lengkap pada Pasien Diabetes Mellitus, *Jurnal Kesehatan Gigi*, 8(1): 6-10.

Hovsepian-Khatcherian, M., Villarroel-Dorrego, M., Marquez, M., (2019), Procedure and Care in the Exodontia of Molars in Albino Rats for Experimental Purposes, *International Journal of Dentistry and Oral Health*, 6(1): 1-5.

Kantharia, N., Naik, S., Apte, S., Kheur, M., Kheur, S., Kale, B., (2014), Nano-hydroxyapatite and its contemporary applications, *Bone*, 34(15.2): 1-71.

Kartika, A. A., Siregar, H. C. H., Fuah, A. M., (2013), Strategi Pengembangan Usaha Ternak Tikus (*Rattus norvegicus*) dan Mencit (*Mus musculus*) di Fakultas Peternakan IPB, *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan*, 1(3): 147-154.

Kementerian Kesehatan RI, (2018), *Riset Kesehatan Dasar (RISKESDAS) 2018*, Badan Penelitian dan Pengembangan Kesehatan, Jakarta.

- Khairunnisa, S. F., Ningtyas, A. A., Haykal, S. A., Sari, M., (2018), Efektivitas getah pohon pisang (*Musa paradisiaca*) pada penyembuhan luka soket pasca pencabutan gigi, *Jurnal Kedokteran Gigi Universitas Padjadjaran*, 30(2), 107-112.
- Kheirallah, M., Almeshaly, H., (2016), Bone Graft Substitutes for Bone Defect Regeneration. A Collective Review, *Int J Dentistry Oral Sci*, 3(5): 247-257.
- Komang, M. S. W. N., Putu, T. N. L., dan Nengah, A., (2014), Studi Pengaruh Lamanya Pemaparan Medan Magnet Terhadap Jumlah Sel Darah Putih (Leukosit) Pada Tikus Putih (*Rattus norvegicus*), *Buletin Fisika*, 15(1): 31-38.
- Kumar, J., Jain, V., Kishore, S., Pal, H., (2016), Journey of bone graft materials in periodontal therapy: A chronological review, *Journal of Dental and Allied Sciences*, 5(1): 30.
- Kumar, V., (2020), Phagocytosis: Phenotypically Simple Yet a Mechanistically Complex Process, *International Reviews of Immunology*, 1–33.
- Kumar, K. H., Subha, T. J., Ahila, K. G., Ravindran, B., Chang, S., Mahmoud, A. N., Mohammed, O. A., Rathi, M. A., (2021), Spectral characterization of hydroxyapatite extracted from Black Sumatra and Fighting cock bone samples: A comparative analysis, *Saudi Journal of Biological Sciences*, 28(1): 840–846.
- Kumar, P., Fathima, G., Vinitha, B., (2013), Bone grafts in dentistry, *Journal of Pharmacy and Bioallied Sciences*, 5(5): 125.
- Lande, R., Kepel, B. J., Siagian, K. V., (2015), Gambaran Faktor Risiko dan Komplikasi Pencabutan Gigi di RSGM PSPDG-FK UNSRAT, *Jurnal e-Gigi*, 3(2): 476-481.
- Landen, N. X., Li, D., Stable, M., (2016), Transition from inflammation to proliferation: a critical step during wound healing, *Cell and Molecular Life Sciences*, 73: 3861-3885.
- Larouche, J., Sheoran, S., Maruyama, K., Martino, M. M., (2018), Immune Regulation of Skin Wound Healing: Mechanisms and Novel Therapeutic Targets, *Advances in Wound Care*, 7(7): 209–231.
- Lee, S. H., Choi, M., Chung, J., Choi, S., Park, S. K., Kim, Y. M., (2022), Povidone iodine suppresses LPS-induced inflammation by inhibiting

TLR4/MyD88 formation in airway epithelial cells, *Scientific Reports*, 12(1).

Luna-Domínguez, J. H., Tellez-Jiménez, H., Hernández-Cocoletzi, H., García-Hernández, M., Melo-Banda, J., Nygren, H., (2018), Development and in vivo response of hydroxyapatite/whitlockite from chicken bones as bone substitute using a chitosan membrane for guided bone regeneration, *Ceramics International*, 44(18), 22583–22591.

Mardiyantoro, F., Munika, K., Sutanti, V., Cahyati, M., Pratiwi, A. R., (2018), *Penyembuhan luka rongga mulut*, Universitas Brawijaya Press, Malang, hal. 3.

Maulina, Ajizah, D. N., Fitriana, I. N., Setiawati, A., Khotimah, K., Listianingrum, D., Kusumardani, R., (2022), Pemanfaatan Tulang Ayam Sebagai Adsorben Methylene, *Jurnal Zarah*, 10(2): 73-79.

Maynard, R.L., dan Downes, N., (2019), *Anatomy and Histology of the Laboratory Rat in Toxicology and Biomedical Research*, Elsevier, UK, hal. 3.

Mescher, A., (2018), *Junqueira's Basic Histology: Text and Atlas, 15th ed.*, McGraw Hill Professional, Blomington, hal. 242.

Modlinska, K., Pisula, W., (2020), The Norway rat, from an obnoxious pest to a laboratory pet, *ELife*, 9: 1-13.

Molloy, E. J., (2021), The Doctor's Dilemma: lessons from GB Shaw in a modern pandemic COVID-19, *Pediatric Research*, 89(3), 701–703.

Ningsih, J. R., Haniastuti, T., Handajani, J., (2019), Re-Epitelisasi Luka Soket Pasca Pencabutan Gigi Setelah Pemberian Gel Getah Pisang Raja (*Musa sapientum L*) Kajian histologis pada marmut (*Cavia cobaya*), *Jurnal Ilmu kedokteran Gigi*, 2(1): 1-6.

Nugroho, A. A., Septiana, D., Lestari, S., Sugiyarto, D. R., (2020), Pola Interaksi Tingkah Laku Induk Ayam Betina dan Anak Ayam, *Jurnal Teknosains*, 14(1): 89-96.

Nuradi, Budiman, E. J., (2018), Analisis Kadar Kalsium (Ca) pada Ceker Ayam Kampung dan Ceker Ayam Potong dengan Metode Spektrofotometri Serapan Atom, *Jurnal Media Analisis Kesehatan*, 9(2):141-148.

- Oki, A. S., Amalia, N., Tantiana, (2020), Wound healing acceleration in inflammation phase of post-tooth extraction after aerobic and anaerobic exercise, *Science & Sports*, 1-6.
- Oliveira, H. L., Da Rosa, W. L. O., Cuevas-Suárez, C. E., Carreño, N. L. V., da Silva, A. F., Guim, T. N., Piva, E., (2017), Histological Evaluation of Bone Repair with Hydroxyapatite: A Systematic Review, *Calcified Tissue International*, 101(4): 341–354.
- Oryan, A., Mohammadalipour, A., Moshiri, A., Tabandeh, M. R., (2013), Avocado/soybean unsaponifiables: a novel regulator of cutaneous wound healing, modelling and remodelling, *International Wound Journal*, 12(6): 674–685.
- Patil, J. H., Vishnumurthy, K. A., Kusanur, R., Melavanki, R., (2022), Synthesis and characterization of chitosan-hydroxyapatite composite for bone graft applications, *Journal of the Indian Chemical Society*, 100308.
- Payung, H., (2015), Gambaran Kontraindikasi Pencabutan Gigi di RSGM UNSRAT Tahun 2014, *Jurnal Kedokteran Komunitas dan Topik*, 3(3): 170-179.
- Peiseler, M., Kubes, P., (2018), Macrophages play an essential role in trauma-induced sterile inflammation and tissue repair, *European Journal of Trauma and Emergency Surgery*, 44(3): 335–349.
- Prabawa, S., Putri, D. K. R., Kawiji, Yudhistira, B., (2021), Pengaruh Variasi Waktu Ozonisasi dan Suhu Penyimpanan Terhadap Karakteristik Fisika, Kimia, dan Sensoris Pada Daging Ayam Pedaging (*Gallus domesticus*), *Jurnal Ilmiah Rekayasa Pertanian dan Biosistem*, 9(2): 168-184.
- Prabowo, W. H., Najatullah, Prasetyo, A., Susilaningsih, N., (2019), Efek Caffeine Terhadap Jumlah Sel Inflamasi pada Penyembuhan Luka Skin Graft pada Tikus Sprague Dawley, *Media Kesehatan Masyarakat Indonesia*, 18(2): 7-13.
- Purnama, H., Sriwidodo, Ratnawulan, S., (2017), Review Sistematis: Proses Penyembuhan dan Perawatan Luka, *Farmaka*, 15(2): 251-258.
- Puspita, S., Hanifatunnisa, L. S., Dharmayanti, A. W. S., Maharani, E. S., Saleh, E., (2022), Effect of Fibroin Sponge on Alveolar Bone Remodeling Process Post Tooth Extraction, *Odonto Dental Journal*, 9(1): 7-15.

- Raeder, K., Jachan, D. E., Müller-Werdan, U., Lahmann, N. A., (2020), Prevalence and risk factors of chronic wounds in nursing homes in Germany, *International Wound Journal*, 17(5), 1128–1134.
- Ranamanggala, J. A., Laily, D. I., Annisa, Y. N., Cahyaningrum, S. E., (2020), Artikel Review: Potensi Hidroksiapatit Dari Tulang Ayam Sebagai Pelapis Implan Gigi, *Jurnal Kimia Riset*, 5(2): 141-150.
- Ribatti, D., Tamma, R., (2019), Giulio Gabbiani and the discovery of myofibroblasts, *Inflammation Research*, 68(3), 241–245.
- Rinawati, Agustina, R., Suhartono, E., (2015), Penyembuhan Luka dengan Penurunan Eritema Pada Tikus Putih (*Rattus norvegicus*) yang Diberikan Getah Batang Jarak Cina (*Jatropha multifida L.*), *Penyembuhan Luka dengan Penurunan Eritema*, 3(1): 1-11.
- Rodrigues, M., Kosaric, N., Bonham, C. A., Gurtner, G. C., (2019), Wound Healing: A Cellular Perspective, *Physiological Reviews*, 99(1): 665–706.
- Selders, G. S., Fetz, A. E., Radic, M. Z., Bowlin, G. L., (2017), An overview of the role of neutrophils in innate immunity, inflammation and host-biomaterial integration. *Regenerative Biomaterials*, 4(1): 55–68.
- Sengupta, P., (2013), The laboratory rat: Relating its age with human's, *Int J Prev Med*, 4(6): 24-30.
- Sherwood, L., (2013), Introduction to Human Physiology, 8th ed., Canada, Brooks/Cole, hal. 434, 435, 440, 441.
- Shirwaiker, R. A., Purser, M. F., Wisk, R. A., (2014), Scaffolding hydrogels for rapid prototyping based tissue engineering, *Rapid Prototyping of Biomaterials*, 176–200.
- Singh, S., Young, A., McNaught, C. E., (2017), The physiology of wound healing, *Surgery (Oxford)*, 35(9), 473–477.
- Sitanaya, R. I., (2016), *Exodontia (Dasar-Dasar Ilmu Pencabutan Gigi)*, Deepublish, Yogyakarta, hal. 3-4.
- Snyder, R. J., Lantis, J., Kirsner, R. S., Shah, V., Molyneaux, M., Carter, M. J., (2016), Macrophages: A review of their role in wound healing and their therapeutic use, *Wound Repair and Regeneration*, 24(4), 613–629.

- Soemarmo, R. L. A., (2011), Remodeling Tulang Alveolar Untuk Reimplantasi dan Transplantasi Gigi Anterior Pada Kehilangan Tulang Hebat Paska Trauma, *Maj Ked Gi*, 18(1): 77-81.
- Stunova, A., Vistejnova, L, (2018), Dermal fibroblasts—A heterogeneous population with regulatory function in wound healing. *Cytokine & Growth Factor Reviews*, 39, 137–150.
- Subramaniam, T., Fauzi, M. B., Lokanathan, Y., Law, J. X., (2021), The Role of Calcium in Wound Healing, *International Journal of Molecular Sciences*, 22(12): 6486.
- Suchy, P., Strakova, E., Herzig, I., Steinhäuser, L., Kralik, G., Zapletal, D., (2009), Chemical Composition of Bone Tissue in Broiler Chickens Intended for Slaughter, *Czech J. Anim. Sci.*, (7): 324-330.
- Sukarni, Priyono, D., Mita, Junaidi, (2021), Analisis Faktor yang Memengaruhi Penyembuhan Luka Diabetes, *Jurnal Luka Indonesia*, 9(1): 14-21.
- Sularsih, (2018), Penggunaan *scaffold kitosan-aloe vera* terhadap proliferasi sel fibroblas pada penyembuhan luka pasca pencabutan gigi cavia cobaya, *Jurnal Material Kedokteran Gigi*, 7(2): 24-32.
- Tan, W. L., Wong, T. L. T., Wong, M. C. M., Lang, N. P., (2011), A systematic review of post-extractional alveolar hard and soft tissue dimensional changes in humans, *Clinical Oral Implants Research*, 23, 1–21.
- Thakur, T., Bhide, A., Chaudhury, A., Thota, A., Kasala, L., Hulikal, N., (2018), Effects of Tobacco Smoking on Innate Immunity: A Study Based on Neutrophil Phagocytic Index, *Indian Journal Physiol Pharmacol*, 62(2): 182-186.
- Umiarti, A. T., (2020), *Manajemen Pemeliharaan Broiler*, Pustaka Larasan, Denpasar, hal. 6.
- Tram, N. X.T., Ishikawa, K., Minh, T. H., Benson, D., Tsuru, K., (2021), Characterization of carbonate apatite derived from chicken bone and its in-vitro evaluation using MC3T3-E1 cells, *Material Research Express*, 8(2), 025401.
- Velnar, T., Bailey, T., Smrkolj, V., 2009, The Wound Healing Process: an Overview of the Cellular and Molecular Mechanisms, *The Journal of International Medical Research*, 37(5): 1528 – 1542.

- Verma, R., Kumar, C., Verma, R., (2012), Study on current perspective of Inflammation, *Journal Of Scientific & Innovative Research*, 1(2): 60-73.
- Viaña-Mendieta, P., Sánchez, M. L., Benavides, J, (2022), Rational selection of bioactive principles for wound healing applications: Growth factors and antioxidants, *International Wound Journal*, 19(1): 100-113.
- Wardani, S. C., Hapsari, D. N., Fatima, (2020), Perbandingan Morfologi dan Rasio Ca/P Serbuk Hidroksiapatit dari Tulang Ikan Cakalang (Katsuwonus Pelamis) dengan Hidroksiapatit Sisik Ikan, *E-Prodenta Journal of Dentistry*, 4(2): 314-320.
- Williams, D. F., (2016), Biocompatibility Pathways: Biomaterials-Induced Sterile Inflammation, Mechanotransduction, and Principles of Biocompatibility Control, *ACS Biomaterials Science & Engineering*, 3(1): 2–35.
- Zelová, H., & Hošek, J., (2013), TNF- α signalling and inflammation: interactions between old acquaintances, *Inflammation Research*, 62(7): 641–651.
- Zhao, R., Yang, R., Cooper, P. R., Khurshid, Z., Shavandi, A., Ratnayake, J., (2021), Bone Grafts and Substitutes in Dentistry: A Review of Current Trends and Developments, *Molecules*, 26(10): 3007.