BAB 5
DAFTAR PUSTAKA

Adnen NAI, Halim NAA, Nor MAAM. 2017. Development of hydroxyapatite from Setiu coral via hydrothermal method. In: *AIP Conference Proceedings*. Vol 1885. American Institute of Physics Inc.;. doi:10.1063/1.5002345

Alhussary B, A.Taqa G, Taqa A. 2020. Preparation And Characterization Of Natural Nano Hydroxyapatite From Eggshell And Seashell And Its Effect On Bone Healing. J Appl Vet Sci.;5(2):25-32.

Ansari M. 2019. Bone tissue regeneration: biology, strategies and interface studies. Prog Biomater.;8(4):223–37.

Araújo M.G, Silva C.O, Misawa M, 2015. Alveolar socket healing: What can we learn? Periodontol 2000 68, 122–134. doi:10.1111/prd.12082

Arisandi, A., Tamam, B., & Fauzan, A. 2018. Profil Terumbu Karang Pulau Kangean, Kabupaten Sumenep, Indonesia. Coral Reef Profile of Kangean Island, Sumenep District, Indonesia. *Jurnal Ilmiah Perikanan Dan Kelautan*, *10*(2), 76–83. https://doi.org/10.20473/jipk.v10i2.10516

Ashfaq R, Kovács A, Berkó S, Budai-Szűcs M. 2024. Developments in Alloplastic Bone Grafts and Barrier Membrane Biomaterials for Periodontal Guided Tissue and Bone Regeneration Therapy. *Int J Mol Sci*.;25(14). doi:10.3390/ijms25147746

Barone, A., et al., 2021. Bone resorption following tooth extraction and the use of bone grafts in alveolar ridge preservation. *Clinical Oral Implants Research*, 32(4), pp. 499-507

Blair H. C, Larrouture Q.C, Li Y, Lin H, Beer-Stoltz D, Liu L, Tuan R.S, Robinson L.J, Schlesinger P.H, Nelson D.J, . 2017. Osteoblast Differentiation and Bone Matrix Formation In Vivo and In Vitro. Tissue Engineering & Regenerative Medicine Internasional Society: Part B Volume 23, Number 3. doi: 10.1089/ten.teb.2016.0454

Burke L, Reytar K, Spalding M, Perry A. 2012. Menengok Kembali Terumbu Karang Yang Terancam di Segitiga Terumbu Karang. World Resources Institute. ISBN 978-1-56973-798-9

Caecilia W, & Komara I. 2015. Socket Preservation. *Padjadjaran Journal of Dentistry*, *27*(3), 133.

Cestari F, Agostinacchio F, Galotta A, Chemello G, Motta A, Sglavo VM. 2021. Nano-hydroxyapatite derived from biogenic and bioinspired calcium carbonates: Synthesis and in vitro bioactivity. Nanomaterials.;11(2):1-14.

Chisci, G., Hatia, A., Chisci, E., Chisci, D., Gennaro, P., & Gabriele, G. 2023. Socket Preservation after Tooth Extraction: Particulate Autologous Bone vs. Deproteinized Bovine Bone. *Bioengineering*, *10*(4). https://doi.org/10.3390/bioengineering10040421

Chou J, Hao J. Marine Biomaterials as Drug Delivery System for Osteoporosis and Bone Tissue Regeneration. In: *Handbook of Bioceramics and Biocomposites*. Springer International Publishing; 2015:1-24. doi:10.1007/978-3-319-09230-0_57-1

Chung, J., et al. 2023. "Socket Preservation Techniques: A Review of Current Literature." *Journal of Oral and Maxillofacial Surgery, 81(4), 567-574*.

De Angelis P, De Rosa G, Manicone PF. 2022. Hard and soft tissue evaluation of alveolar ridge preservation compared to spontaneous healing: a retrospective clinical and volumetric analysis. *Int J Implant Dent*;8(1). doi:10.1186/s40729-022-00456-w

Decambron, A. *et al.*. 2017. 'A comparative study of tissue-engineered constructs from Acropora and Porites coral in a large animal bone defect model', *Bone and Joint Research*, 6(4), pp. 208–15. Available at: https://doi.org/10.1302/2046-3758.64.BJR-2016-0236.R1

Duy Huynh T, Gargiulo C, Cong Tran T, Quoc Vo V, Khanh Nguyen H. 2017. *Reconstruction Of Bone Defect With The Coral Scaffold And Osteoblast: An Experimental Study In Rabbits*.; Issue 04, 700-705 Volume 4.www.ejbps.com700

Farina R, & Trombelli L. 2013. Wound healing of extraction sockets. *Endod Top*, *25*, 16–18. Online library Endodontic Topics 25(1):195-228. doi:10.1002/9781118704509.ch8

Fendi F, Abdullah B, Suryani S, Raya I, Tahir D, Iswahyudi I. 2023. Hydroxyapatite based for bone tissue engineering: innovation and new insights in 3D printing technology. *Polymer Bulletin*. Published online. doi:10.1007/s00289-023-04794-6

Fernandez de Grado, G., Keller, L., Idoux-Gillet, Y., Wagner, Q., Musset, A. M., Benkirane-Jessel, N., Bornert, F., & Offner, D. 2018. Bone substitutes: a review of their characteristics, clinical use, and perspectives for large bone defects management. In *Journal of Tissue Engineering* (Vol. 9). SAGE Publications Ltd. https://doi.org/10.1177/2041731418776819

Fu, K., Xu, Q., Czernuszka, J., Triffitt, J. T., & Xia, Z. 2013. Characterization of a biodegradable coralline hydroxyapatite/calcium carbonate composite and its clinical implementation. *Biomedical Materials (Bristol)*, *8*(6). https://doi.org/10.1088/1748-6041/8/6/065007

Fugazzotto, P.A., et al., 2022. Post-extraction socket healing and bone regeneration: Clinical and histological perspectives. *Oral Health & Preventive Dentistry*, 20(3), pp. 179-188.

Gentili C, Palamà MEF, Sexton G, et al. 2024. Sustainably cultured coral scaffold supports human bone marrow mesenchymal stromal cell osteogenesis. *Regen Ther*.;26:366-381. doi:10.1016/j.reth.2024.06.002

Giyanto, Abrar M, Hadi TA, Budiyanto A, Hafizt M, Salatalohy A, M Y Iswari. 2017. Status Terumbu Karang Indonesia 2017 Giyanto Muhammad Abrar Tri Aryono Hadi Agus Budiyanto Muhammad Hafizt Abdullah Salatalohy Marindah Yulia Iswari COREMAP-CTI Pusat Penelitian Oseanografi – LIPI.

Gomes P de S, Daugela P, Poskevicius L, Mariano L, Fernandes MH. 2019. Molecular and Cellular Aspects of Socket Healing in the Absence and Presence of Graft Materials and Autologous Platelet Concentrates: a Focused Review. J Oral Maxillofac Res;10(3):1-18.

Julia V, Ayu Maharani D, Latief BS. 2017.The Use of Coral Scaffold in Oral and Maxillofacial Surgery: A Review. https://www.researchgate.net/publication/316551879

Jensen S S, Broggini N, & Hjorting-Hansen E. 2006. one healing and graft resoprtion of autograft, anorganic bovine bone and ß- ticalcium phosphate. A histologic and

histomorphometric study in the mandibles of minipigs. *Clin Oral Implants Res*, *17*, 237–243. doi: 10.1111/j.1600-0501.2005.01257.x

Kamadjaja MJ, Tumali BA, Laksono H. 2020. Effect of Socket Preservation Using Crab Shell-Based Hydroxyapatite in Wistar Rats. *Recent Advances in Biology and Medicine*. 6:1. doi:10.18639/RABM.2020.1116232

Karacan I, Cox N, Dowd A. 2021. The synthesis of hydroxyapatite from artificially grown Red Sea hydrozoan coral for antimicrobacterial drug delivery system applications. *Journal of the Australian Ceramic Society (2021) 57:399–407*. Published online:399-407. doi:10.1007/s41779-020-00554-1/Published

Khaddour AS, Ghiță RE, Ionescu M. 2024. Healing of Extraction Sites after Alveolar Ridge Preservation Using Advanced Platelet-Rich Fibrin: A Retrospective Study. *Bioengineering*.;11(6). doi:10.3390/bioengineering11060566

Khanijou M, Seriwatanachai D, Boonsiriseth K. 2019. Bone graft material derived from extracted tooth: A review literature. J Oral Maxillofac Surgery, Med Pathol.;31(1):1-7.

Katsimbri, P. 2017. The biology of normal bone remodelling. In *European Journal of Cancer Care* (Vol. 26, Issue 6). Blackwell Publishing Ltd. https://doi.org/10.1111/ecc.12740

Kim, J., et al. 2020. *Evaluation of Bone Regeneration in Extraction Sockets with Hydroxyapatite*. International Journal of Oral and Maxillofacial Surgery

Kim JM, Lin C, Stavre Z, Greenblatt MB, Shim JH. 2020. Osteoblast Osteoclast Communication and Bone Homeostasis. Cells.;9(9):1-14.

Kumar R, V., Udayshankar, V., Prakash, P., & Jain, V. 2019. Bone graft materials used in dental implants: A review. *IP Annals of Prosthodontics and Restorative Dentistry*, *5*(3), 58–62. https://doi.org/10.18231/j.aprd.2019.014

Kumar, V. M., Govind, G. K., Siva, B., Marish, P., Ashwin, S., & Kiran, M. 2016. Corals as bone substitutes. In *Journal of International Oral Health* (Vol. 8, Issue 1). doi:10.4103/0976-7428.199492

L. B. Osorio, L. M. de Menezes, & J. H. Assaf. 2016. Post-extraction evaluation of sockets with one plate loss – a microtomographic and histological study. *Clinical Oral Implants Research*, *27*(1), 31–38.

Liu, X., Ma, P. X. 2013. *Hydroxyapatite nanoparticles in bone tissue engineering: Applications and safety concerns*. Journal of Biomedical Materials Research Part A, 101(8), 2339-2348. DOI: 10.1002/jbm.a.34427

Liang W, Ding P, Li G, Lu E, Zhao Z. 2021. Hydroxyapatite Nanoparticles Facilitate Osteoblast Differentiation and Bone Formation Within Sagittal Suture During Expansion in Rats. Drug Design, Development and Therapy,Dovepress:15 905–917. doi:10.2147/DDDT.S299641

LM Sykes, C Bradfield, K Naidu, 2021. Alveolar bone resorption following tooth extraction characteristically illustrated. South African Dental Journal 76, 545–549.

Luthfi, O. M. 2015. Identifikasi Morfologi Karang Massive Porites Di Perairan Laut Selatan Jawa. https://www.researchgate.net/publication/309231593

Macha IJ, Ben-Nissan B. 2018. Marine skeletons: Towards hard tissue repair and regeneration. *Mar Drugs*.;16(7). doi:10.3390/md16070225

Manassero, M. 2013. 'Bone regeneration in sheep using acropora coral, a natural resorbable scaffold, and autologous mesenchymal stem cells', *Tissue Engineering*

- *Part A*,19(13–14), pp. 1554–1563. Available at: https://doi.org/10.1089/ten.tea.2012.0008.

Maiorana C, Poli PP, Deflorian M. 2017Alveolar socket preservation with demineralised bovine bone mineral and a collagen matrix. *J Periodontal Implant Sci*.;47(4):194-210. doi:10.5051/jpis.2017.47.4.194

McPherson RA, Vickers PG, Slater GL. 2019. Bone Grafting with Coralline Hydroxyapatite. *EC Dent Sci*.;18(10):2413-2423.

Mikos, A.G., et al., 2020. Osteoblasts in bone tissue engineering. *Advanced Drug Delivery Reviews*, 58(4), pp. 426-436.

Miron R J, Hedbom N, & Saulacic Y. 2011. Osteogenic Potential of Autogenous Bone Grafts Harvested with Four Different Surgical Techniques. *J Dent Res*, *90*, 1428.

Mo X , Zhang D, Liu K, Zhao X, Li X, Wang W. 2023. Nano-Hydroxyapatite Composite Scaffolds Loaded with Bioactive Factors and Drugs for Bone Tissue Engineering. Int. J. Mol. Sci. 2023, 24, 1291. https://doi.org/10.3390/ijms24021291

Pascawinata A, Labanni A, Revilla G , Sahputra R E & Arief S. 2023. Increased Number of Osteoblasts and New Bone Formation in Rat's Tooth Socket Implanted with Nanocrystalline Hydroxyapatite from Pensi Shells. Journal of International Dental and Medical Research, 16(4). https://doi.org/10.2139/ssrn.4316447

Pountos, I., & Giannoudis, P. V. 2016. Is there a role of coral bone substitutes in bone repair? In *Injury* (Vol. 47, Issue 12, pp. 2606–2613). Elsevier Ltd. https://doi.org/10.1016/j.injury.2016.10.025

Purnama, D., Bujana Kusuma, A., Fajar Negara, B. S., 2020. Pesona Renta, P., Loberto Pakpahan, B., Ilmu Kelautan, J., & Perikanan dan Ilmu Kelautan, F.. Keanekaragaman Jenis Karang Pada Kedalaman 1-5 Meter Diperairan Pulau Tikus, Kota Bengkulu. *Jurnal Enggano*, *5*(3), 529–547. https://doi.org/10.31186/jenggano.5.3.529-547

Raja N, Oktawati S, Setiawati D, Rukmana A, Endang S. 2022. Socket Preservation Using Bovine Bone Graft and Pericardium Membrane: A Case Report. *KnE Medicine*. Published online April 25, 54-60. doi:10.18502/kme.v2i1.10837

Rahman MA, Halfar J, Shinjo R. X-Ray Diffraction Is a Promising Tool to Characterize Coral Skeletons. *Advances in Materials Physics and Chemistry*. 2013;03(01):120-125. doi:10.4236/ampc.2013.31a015

Rakhmatia YD, Ayukawa Y, Furuhashi A, Koyano K. 2018. Carbonate apatite containing statin enhances bone formation in healing incisal extraction sockets in rats. *Materials*.;11(7). doi:10.3390/ma11071201

Ramesh, N., Moratti, S. C., & Dias, G. J. 2018. Hydroxyapatite–polymer biocomposites for bone regeneration: A review of current trends. In *Journal of Biomedical Materials Research - Part B Applied Biomaterials* (Vol. 106, Issue 5, pp. 2046–2057). John Wiley and Sons Inc. https://doi.org/10.1002/jbm.b.33950

Razali NS, Younis LT, Hassan MIA. 2022. The Application of Hydroxyapatite in Socket Preservation: A Review of the Past and Current Advancement. *J Pharm Res Int*. Published online January 24,:7-14. doi:10.9734/jpri/2022/v34i4a35394

Rink, J., and Torgerson, M., 2022. Post-extraction healing and bone regeneration: A review. *Journal of Periodontology*, 93(1), pp. 12-19

Robling, A.G., et al., 2021. Mechanosensation and osteoblast regulation. *Journal of Bone and Mineral Research*, 35(3), pp. 537-547

Rodriguez, A. E., & Nowzari, H. 2019. The long-term risks and complications of bovine-derived xenografts: A case series. *Journal of Indian Society of Periodontology*, *23*(5), 487–492. https://doi.org/10.4103/jisp.jisp_656_18

Rosenberg N, Rosenberg O, Soudry M. 2012. Osteoblasts in Bone Physiology – Mini Review. *Rambam Maimonides Med J*. 3(2). doi:10.5041/rmmj.10080

Rossi R , Carli E, Bambini F , Mummolo S, Licini C, Memè L. 2023. The Use of Nano-Hydroxyapatite (NH) for Socket Preservation: Communication of an Upcoming Multicenter Study with the Presentation of a Pilot Case Report. Biomaterials Research. Medicina mdpi Journal. https://doi.org/10.3390/medicina59111978

Sculean A, Stavropoulos A, Bosshardt DD. Self-regenerative capacity of intra-oral bone defects. *J Clin Periodontol*. 2019;46(S21):70-81. doi:10.1111/jcpe.13075

Shapiro, F., Wu, J.Y., 2019. Woven bone overview: Structural classification based on its integral role in developmental, repair and pathological bone formation throughout vertebrate groups. Eur Cell Mater 38, 137–167. https://doi.org/10.22203/eCM.v038a11

Sheikh Z, J., Qureshi, A.M., Alshahrani et al., 2017. Collagen based barrier membranes for periodontal guided bone regeneration applications. Odontology 105, 1–12. doi:10.1007/s10266-016-0267-0

Shi, Y., Pan, T., Zhu, W., Yan, C., & Xia, Z. (2020). Artificial bone scaffolds of coral imitation prepared by selective laser sintering. *Journal of the Mechanical Behavior of Biomedical Materials*, *104*. https://doi.org/10.1016/j.jmbbm.2020.103664

Siswanto, Hikmawati, D., Benecdita, N., & Nurmala, S. 2020. Synthesis of Hydroxyapatite Based on Nano Coral Using precipitation Method for Bone Substitution. *Journal of Physics: Conference Series*, *1445*(1). https://doi.org/10.1088/1742-6596/1445/1/012015

Siswanto, Hikmawati, D., Kulsum, U., Rudyardjo, D. I., Apsari, R., Aminatun. 2020. Biocompatibility and osteoconductivity of scaffold porous composite collagen-hydroxyapatite based coral for bone regeneration. *Open Chemistry*, *18*(1), 584–590. https://doi.org/10.1515/chem-2020-0080

Song R, Murphy M, & Li C. 2018. Current develop- ment of biodegradable polymeric materials for biomedical applications. *Drug Des Devel Ther*, *12*, 3117–3145.

Stumbras A, Kuliesius P, Januzis G, Juodzbalys G. 2019. Alveolar Ridge Preservation after Tooth Extraction Using Different Bone Graft Materials and Autologous Platelet Concentrates: a Systematic Review. *J Oral Maxillofac Res*;10(1). doi:10.5037/jomr.2019.10102

Titsinides S, Agrogiannis G, Karatzas T. 2018. Bone grafting materials in dentoalveolar reconstruction: A comprehensive review. Jpn Dent Sci Rev. Published online 2018:1-7.

Turco, G., Porrelli, D., Marsich, E., Vecchies, F., Lombardi, T., Stacchi, C., Lenarda, R. Di, 2018. Three-dimensional bone substitutes for oral and maxillofacial surgery: Biological and structural characterization. J Funct Biomater 9. https://doi.org/10.3390/jfb9040062

Udeabor, S. E., Heselich, A., Al-Maawi, S., Alqahtani, A. F., Sader, R., & Ghanaati, S. 2023. Current Knowledge on the Healing of the Extraction Socket: A Narrative Review. In *Bioengineering* (Vol. 10, Issue 10). Multidisciplinary Digital Publishing Institute (MDPI). https://doi.org/10.3390/bioengineering10101145

Vaikundamoorthy, R. and Sundaramoorthy, R. .2016. 'Marine steroid derived from Acropora formosa enhances mitochondrial-mediated apoptosis in non-small cell lung cancer cells'. Available at:https://doi.org/10.1007/s13277-016-4947-8.

Valente, J. F. A., Valente, T. A. M., Alves, P., Ferreira, P., Silva, A., & Correia, I. J. 2012. Alginate based scaffolds for bone tissue engineering. *Materials Science and Engineering C*, *32*(8), 2596–2603. https://doi.org/10.1016/j.msec.2012.08.001

Wu, P., et al. 2023. *Enhancement of bone regeneration by hydroxyapatite powder combined with fibroblast growth factor in vivo*. Journal of Biomedical Materials Research, 111(3), 593-602.

Yafie M, Yusuf S, Haris A, Rani C, Rasyid A. 2022. Biodiversitas Genus Acropora (Ordo Scleractinia) di Kepulauan Spermonde.Coral Triangle Indonesia. Jurnal Ilmu Kelautan Kepulauan, 5 (2) ; 585-597. P-ISSN 2656-7687.

Yang, S., Li, Y., Liu, C., Wu, Y., Wan, Z., Shen, D., 2022. Pathogenesis and treatment of wound healing in patients with diabetes after tooth extraction. Front Endocrinol (Lausanne) 13. https://doi.org/10.3389/fendo.2022.949535

Zastulka A, Clichici S, Tomoaia-Cotisel M, et al. 2023. Recent Trends in Hydroxyapatite Supplementation for Osteoregenerative Purposes. *Materials*.;16(3). doi:10.3390/ma16031303

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. In *Molecules* (Vol. 26, Issue 10). MDPI AG. https://doi.org/10.3390/molecules26103007

Zhou F, Zheng X, Xie M, Mo A, Wu H. 2017. Radiographic and Histological Evaluation of the Healing of Extraction Sockets Filled with Bovine-Derived Xenograft: An Experimental Study in Rats. Implant Dent.;26(3):400-404. doi:10.1097/ID.0000000000000573

Zubaidah N, Pratiwi DD, Masa MMSN, Setiawatie EM, Kunarti S. 2022. The Osteogenesis Mechanisms of Dental Alveolar Bone Socket Post Induction with Hydroxyapatite Bovine Tooth Graft: An Animal Experimental in Rattus norvegicus Strain Wistar. *Eur J Dent*. Published online. doi:10.1055/s-0042-1756691

Zurba, N. 2019. *Pengenalan Terumbu Karang Sebagai Pondasi Utama Laut Kita*. https://www.researchgate.net/publication/335128603