DAFTAR PUSTAKA

Addison, W. N., Nelea, V., Chicatun, F., Chien, Y., Tran-Khanh, N., Buschmann, M. D., Nazhat, S. N., Kaartinen, M. T., Vali, H., Tecklenburg, M. M., Franceschi, R. T., dan McKee, M. D., (2015) Extracellular matrix mineralization in murine MC3T3-E1 osteoblast cultures: An ultrastrctural, compositional, and comparative analysis with mouse bone, *Bone*, 71: 244-256.

Alfotawi, R., Naudi, K., Dalby, M.J., Tanner, K.E., McMahon, J.D. dan Ayoub, A. (2013) 'Assessment of cellular viability on calcium sulphate/hydroxyapatite injectable scaffolds', *Journal of Tissue Engineering*, 4(1), 1–12.

Aneksomboonpol, P., Mahardawi, B., Na Nan, P., Laoharungpisit, P., Kumchai, T., Wongsirichat, N. dan Aimjirakul, N. (2023) 'Surface structure characteristics of dental implants and their potential changes following installation: a literature review', *Journal of the Korean Association of Oral and Maxillofacial Surgeons*, 49(3), 114–124

Antanaviciute, L., Dubacq, S. dan Varet, O. (2018) 'An embedded application for cell culture confluency estimation using the incellis® smart cell imaging system', dalam *BioTechniques*, 64(3), 127. Eaton Publishing Company

Arsista, D. dan Eriwati, Y.K. (2018) 'Desain dan fungsi implan kedokteran gigi yang beredar di pasaran', *Jurnal Kedokteran Gigi Universitas Padjadjaran*, 30(3), 168–174.

Babbush, C.A., Hahn, J.A., Krauser, J.T. dan Rosenlicht, J.L. (2011) *Dental Implants: The Art and Science*. Edisi ke-2. Elsevier.

Bedair, T.M., Lee, C.K., Kim, D.S., Baek, S.W., Bedair, H.M., Joshi, H.P., Choi, U.Y., Park, K.H., Park, W., Han, I.B. dan Han, D.K. (2020) 'Magnesium hydroxide-incorporated PLGA composite attenuates inflammation and promotes BMP2-induced bone formation in spinal fusion', *Journal of Tissue Engineering*, 11.

Bilezikian, J. P., Martin, T. J., Clemens, T. L., Rosen, C. J., dan Seeman, E. (2020) *Principles of bone biology*. 4th edn. London: Academic Press.

Chataing, B., Usubillaga, A., Pérez, C.M., dan Méndez, R. (2012) Cytotoxic activity of acnistins upon human cancer cells. *PharmacologyOnLine*, 3, 139–149.

Davies, J.E. (2003) 'Understanding peri-implant endosseous healing', *Journal of Dental Education*, 67(8), 932–949.

Echeverry-Rendón, M., Stančič, B., Muizer, K., Duque, V., Calderon, D.J., Echeverria, F. dan Harmsen, M.C. (2022) 'Cytotoxicity assessment of surface-modified magnesium hydroxide nanoparticles', *ACS Omega*, 7(21), 17528–17537.

Fadhillah, U. E. (2024) Pengaruh Konsentrasi Magnesium Hidroksida sebagai Bahan *Coating* Implan Gigi Terhadap Viabilitas Sel Osteoblas, Skripsi, Fakultas Kedokteran Gigi, Universitas Gadjah Mada.

Galow, A.M., Rebl, A., Koczan, D., Bonk, S.M., Baumann, W. dan Gimsa, J. (2017) 'Increased osteoblast viability at alkaline pH in vitro provides a new perspective on bone regeneration', *Biochemistry and Biophysics Reports*, 10, 17–25.

Green, M.R. dan Sambrook, J. (2019) 'Estimation of cell number by hemocytometry counting', *Cold Spring Harbor Protocols*, 2019(11), 732–734.

Halbus, A.F., Horozov, T.S. dan Paunov, V.N. (2019) 'Controlling the antimicrobial action of surface-modified magnesium hydroxide nanoparticles', *Biomimetics*, 4(2).

Halim, A.K. dan Poedjiastoeti, W. (2024) 'Penatalaksanaan pemasangan dental implant pada kasus kehilangan gigi posterior tunggal', *Jurnal Kedokteran Gigi Terpadu*, 6(1), 39–41.

Izumiya, M., Haniu, M., Ueda, K., Ishida, H., Ma, C., Ideta, H., Sobajima, A., Ueshiba, K., Uemura, T., Saito, N., dan Haniu, H., (2021) Evaluation of MC3T3-E1 Cell Osteogenesis in Different Cell Culture Media*, Int. J. Mol. Sci*., 22(7752): 1-12.

Kim, J.J., Lee, J.H., Kim, J.C., Lee, J.B. dan Yeo, I.S.L. (2020) 'Biological responses to the transitional area of dental implants', *Materials*, 13(1), 72.

Kravanja, K.A. dan Finšgar, M. (2022) 'A review of techniques for the application of bioactive coatings on metal-based implants', *Materials and Design*, 217.

Li, J., Zhang, X., Huang, H., Zhang, Z., Li, Y., dan Yang, J. (2016) Magnesium enhances osteogenic activity through the PI3K/Akt signaling pathway. *Acta Biomaterialia*, 36, 210–222.

Li, W., Zhou, J. dan Xu, Y. (2015) 'Study of the in vitro cytotoxicity testing of medical devices', *Biomedical Reports*, 3(5), 617–620.

Li, Z., Zheng, X., Wang, Y., Tao, T., Wang, Z., Yuan, L. dan Han, B. (2022) 'The biomimetics of Mg^{2+}-concentration-resolved microenvironment for bone and cartilage repairing materials design', *Biomimetics*, 7(4), 227.

Łosiewicz, B., Piotrowska, U. dan Gazińska, M. (2025) 'Developments in dental implant surface modification', *Coatings*, 15(1), 109.

Marvin, J.C., Gallegos, S.I., Parsaei, S. dan Rodrigues, D.C. (2019) 'In vitro evaluation of cell compatibility of dental cements used with titanium implant components', *Journal of Prosthodontics*, 28(2), e705–e712.

Masson-Meyers, D.S., Bumah, V.V. dan Enwemeka, C.S. (2016) 'A comparison of four methods for determining viability in human dermal fibroblasts irradiated with blue light', *Journal of Pharmacological and Toxicological Methods*, 79, 15–22.

Mescher, A.L. dan Junqueira, L.C.U. (2018) *Junqueira's Basic Histology: Text and Atlas*. McGraw-Hill Education.

National Research Council (2000) *Toxicological Risks of Selected Flame-Retardant Chemicals*. National Academy Press, Washington, D.C.

Newman, M.G. dan Takei, H.H. (2019) *Newman and Carranza's Clinical Periodontology*. Edisi ke-13. Elsevier.

Oshida, Y. (2021) *Magnesium Materials: From Mountain Bikes to Degradable Bone Grafts*. De Gruyter.

Pakpahan, A., Anggraeni, R. dan Korespondensi, P. (2023) *Uji Sitotoksisitas Ekstrak Etanol Kulit Pisang terhadap Sel Lini HSC-3*. 8(2).

Pallavi, M., Waterman, J., Koo, Y., Sankar, J. dan Yun, Y. (2019) 'In vitro cytotoxicity of possible corrosion products from Mg-based biodegradable metals', *Applied Sciences (Switzerland)*, 9(20).

Peeran, D.R.S.W. dan Ramalingam, D.R.K. (2021) *Essentials of Periodontics & Oral Implantology*. Saranraj JPS Publication.

Pinho, L.C., Alves, M.M., Colaço, B., Fernandes, M.H. dan Santos, C. (2021) 'Green-synthesized magnesium hydroxide nanoparticles induced osteoblastic differentiation in bone co-cultured cells', *Pharmaceuticals*, 14(12).

Ren, X., Li, Y., Zhao, Y., dan Zhang, L. (2025), Magnesium hydroxide coatings on magnesium alloys for biomedical applications: corrosion resistance and biocompatibility. *Surface and Coatings Technology*, 475, 130084.

Riss, T.L., Moravec, R.A., Niles, A.L., Duellman, S., Benink, H.A., Worzella, T.J. dan Minor, L. (2016) Cell viability assays. In: *Assay Guidance Manual*. Bethesda (MD): Eli Lilly & Company and the National Center for Advancing Translational Sciences.

Sakaguchi, R.L., Ferracane, J.L. dan Powers, J.M. (2019) *Craig's Restorative Dental Materials*. Elsevier.

Shen, C., Rawls, H.R. dan Esquivel-Upshaw, J.F. (2022) *Phillips' Science of Dental Materials*. Edisi ke-13. Elsevier.

Shokrzadeh, M. dan Modanloo, M. (2017) 'An overview of the most common methods for assessing cell viability', *Journal of Research in Medical and Dental Science*, 5(2), 33.

Tang, W., Fischer, N.G., Kong, X., Sang, T. dan Ye, Z. (2024) 'Hybrid coatings on dental and orthopedic titanium implants', *BMEMat*, 1–27.

Thermo Fisher Scientific (2005) *MP 03224 LIVE/DEAD® Viability/Cytotoxicity Kit Product Information*.

Vega-Jiménez, A.L., González-Alva, P., Rodríguez-Hernández, A.P., Vázquez-Olmos, A.R. dan Paz-Díaz, B. (2024) 'Oxide nanoparticles based in magnesium as a potential dental tool to inhibit bacterial activity and promote osteoblast viability', *Dental Materials Journal*, 43(1), 11–19.

Wagner, W.R. (2020) *Biomaterials Science: An Introduction to Materials in Medicine*. Academic Press.

Wang, Y., Liu, Y., Li, X., Wang, F., Huang, Y., Liu, Y. dan Zhu, Y. (2023) 'Investigation of the biosafety of antibacterial $Mg(OH)_2$ nanoparticles to a normal biological system', *Journal of Functional Biomaterials*, 14(4).

Wennerberg, A., dan Albrektsson, T. (2021) Effects of titanium surface topography on bone integration: a systematic review. *Clinical Oral Implants Research*, 32(suppl. 21), pp. 1–20.

Willbold, E., Kalla, K., Janning, C., Bartsch, I., Bobe, K., Brauneis, M., Haupt, M., Reebmann, M., Schwarze, M., Remennik, S., Shechtman, D., Nellesen, J., Tillmann, W. dan Witte, F. (2024) 'Dissolving magnesium hydroxide implants enhance mainly cancellous bone formation', *Acta Biomaterialia*, 185, 73–84.

Wu, L., Feyerabend, F., Schilling, A.F., Willumeit-Römer, R. dan Luthringer, B.J.C. (2015) 'Effects of extracellular magnesium extract on proliferation and differentiation of human osteoblasts and osteoclasts', *Acta Biomaterialia*, 27, 294–304.

Wulandari, S., Nisa, Y.S., Indarti, S. dan Sayekti, R.R.R. (2021) 'Sterilisasi peralatan dan media kultur jaringan', *Agrinova*, 4(2), 16–19.

Yazid, F., Pratama, A. R., dan Nugroho, A. E. (2022) Biocompatibility evaluation of magnesium-based biomaterials for dental implant applications. *Journal of Biomaterials Research*, 106(5), 1342–1352.

Yuliati, Y., Soesilawati, P., Nastiti, A.P., Firdauzy, M.A.B., Alias, A., Haque, N. dan Author, C. (2021) 'Guided bone regeneration to improve osseointegration in dental implant', *Malaysian Journal of Medicine and Health Sciences*, 17(Suppl 6), 2636–9346.

Zhang, X., Zu, H., Zhao, D., Yang, K., Tian, S., Yu, X., Lu, F., Liu, B., Yu, N., Wang, B., Wang, W., Huang, S., Wang, Y., Wang, Z. dan Zhang, Z. (2017) 'TRPM7 regulates Mg ions to promote osteoinduction of human osteoblast via PI3K pathway', *Acta Biomaterialia*, 63, 369–382.

Zheng, Y. (2016) *Magnesium Alloys as Degradable Biomaterials*. CRC Press.