

DAFTAR PUSTAKA

- Alagatu, A., Dhapade, D., Gajbhiye, M., Panjrekar, R., Raut, A., Awate, N., dan Priya, P., (2022) Detailed Study on Basic Methodology of Dental Implant and Surface Modification Techniques. *International Conference on Advances in Mechanical Engineering*. 1259: 1-6.
- Ananda, N., Dwi Sulistyani, L., dan Winiati Bachtiar, E., (2017) Pertimbangan Penggunaan Implan Gigi pada Lansia. *Insisiva Dental Journal: Majalah Kedokteran Gigi Insisiva*. 6(1): 47-55.
- Amukarimi, S., dan Mozafari, M., (2022) Biofegradable Magneium Biomaterials-Road to the Clinic. *Bioengineering*. 9(107): 1-20.
- Aranya, A., Pushalkar, S., Zhao, M., LeGeros, RZ., Zhang, Y., dan Saxena, D, (2017) Antibacterial and Bioactive Coatings on Titanium Implant Surfaces. *J Biomed Mater Res A*. 105(8): 2218-2227.
- Alotaibi, G. F., dan Bukhari, M. A., (2021) Factors dan Influencing Bacterial Biofilm Formation and Development. *American Journal of Biomedical Science & Research*. 617-626.
- Asri, R. I. M., Harum, W. S. W., Hassan, M. A., Ghani, A. A. C., dan Buyong, Z., (2016) A Review of Hydroxyapatite-based Coating Techniques: Sol-gel and Electrochemical Depositions on Biocompatible Metals. *Journal of The Mechanical Behavior of Biomedical Materials*. 57: 95-108.
- Astolfi, V., Ríos-Carrasco, B., Gil-Mur, F.J., Ríos-Santos, J.V., Bullón, B., Herrero-Climent, M., dan Bullón, P., (2022) Incidence of Peri-Implantitis and Relationship with Different Conditions: A Retrospective Study. *International Journal of Environmental Research and Public Health*. 19(7): 1-11.
- Anusavice, K., Shen, C. & Rawls, H., (2013) *Phillips' Science of Dental Materials*. 12th Ed.. Missouri: Elsevier Saunders. hal. 500-505.
- Bazaka, K., Jacob, M. V., Crawford, R.J., dan Ivanova, E.P., (2012) Efficient Surface Modification of Biomaterial to Prevent Biofilm Formation and the Attachment of Microorganisms. *Appl Microbiol and Biotechnol*. 95: 299–311.
- Bennison, L. R., Miller, C. N., Summers, R. J., Minnis, A. M. B., Sussman, G., dan McGuiness, W., (2017) The pH of wounds during healing and infection: a descriptive literature review. *Cambride Media*. 25(2): 63-69.
- Bosshardt, D.D., Brodbeck, U.R., Rathe, F., Stumpf, T., Imber, J.C., Weigl, P., dan Schlee, M., (2022) Evidence of Re-Osseointegration After

Electrolytic Cleaning and Regenerative Therapy of Peri-Implantitis in Humans: a Case Report With Four Implants. *Clinical Oral Investigations*. 26(4), 3735–3746.

Chouirfa, H., Bouloussa, H., Migonney, V., dan Falentin-Daudré, C., (2019) Review of Titanium Surface Modification Techniques and Coatings for Antibacterial Applications. *Acta Biomaterialia*. 83: 37–54.

Cruz, M. B., Silva N., Marques, J. F., Mata, A., Silva, F. S., dan Carames, J., (2022) Biomimetic Implant Surfaces and Their Role in Biological Intregation-A Concise Review. *Biomimetics*. 7(74): 1-15.

Demishtein, K., Reifen, R., dan Shemesh, M., (2019) Antimicrobial Properties of Magnesium Open Opportunities to Develop Healthier Food. *Nutrients*. 11(10): 1-8.

Dhir, S., (2013) Biofilm and Dental Implant: The Microbial Link. *Journal of Indian Society of Periodontology*. 17(1): 5–11.

Dong, H., Liu, H., Zhou, N., Li, Q., Yang, G., Chen, L., dan Mou, Y., (2020) Surface Modified Techniques and Emerging Functional Coating of Dental Implants. *Coatings*. 10(11): 1–25.

Esteves, G.M., Esteves, J., Resende, M., Mendes, L., dan Azevedo, A.S., (2022) Antimicrobial and Antibiofilm Coating of Dental Implants—Past and New Perspectives. *Antibiotics*. 11(2): 1-15.

Feng, H., Wang, G., Jin, W., Zhang, X., Huang, Y., Gao, A., Wu, H., Wu, G. & Chu, P.K., (2016) Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. *ACS Applied Materials and Interfaces*. 8(15): 9662–9673.

Halbus, A.F., Horozov, T.S., Paunov, V.N., (2019) Controlling the Antimicrobial Action of Surface Modified Magnesium Hydroxide Nanoparticles. *Biomimetics*. 4: 41.

Hanafiah, K.A., (2016) Rangan Percobaan dan Teori & Aplikasi. Jakarta: Rajawali Press. hal. 6-7.

Hobman, J. L. dan Crossman, L. C., (2014) Bacterial Antimicrobial Metal Ion Resistance. *Journal of Medical Microbiology*. 64: 471-479.

Idrees, M., Sawant, S., Karodia, N., dan Rahman, A., (2021) *Staphylococcus aureus* Biofilm: Morphology, Genetics, Pathogenesis, and Treatment Strategies. *International Journal of Environmental Research and Public Healt.*, 18(7602): 1-20.

- Kurnia, D. L., Ramadhani, A., dan Hudyono, R., (2014) Implant Gigi One-Piece vs Two-Pieces dalam Praktek Sehari-Hari. *Majalah Kedokteran Gigi Indonesia*. 21(2): 149-158.
- Kowalska-Krochmal, B. dan Dudek-Wicher, R., (2021) The Minimum Inhibitory Concentration of Antibiotics: Methods, Interpretation, Clinical Relevance. *Pathogens*. 10(2): 1–21.
- Lin, Z., Sun, X., dan Yang, H., (2021) The Role of Antibacterial Metallic Elements in Simultaneously Improving the Corrosion Resistance and Antibacterial Activity of Magnesium Alloys. *Materials and Design*. 198.
- Lu, X., Wu, Z., Xu, K., Wang, X., Wang, S., Qiu, H., Li, X., dan Chen, J., (2021) Multifunctional Coatings of Titanium Implants Toward Promoting Osseointegration and Preventing Infection: Recent Developments. *Frontiers in Bioengineering and Biotechnology*. 9: 783816.
- Minkiewicz-Zochniak A, Jarzynka S, Iwańska A, Strom K, Iwańczyk B, Bartel M, Mazur M, Pietruczuk-Padzik A, Konieczna M, Augustynowicz-Kopeć E, dan Oledzka, G., (2021) Biofilm Formation on Dental Implant Biomaterials by *Staphylococcus aureus* Strains Isolated from Patients with Cystic Fibrosis. *Materials*. 14(8):2030.
- Mohseni, E., Zalnezhad, E., dan Bushroa, A.R., (2014) Comparative Investigation on the Adhesion of Hydroxyapatite Coating on Ti-6Al-4V Implant: A Review Paper. *International Journal of Adhesion and Adhesives*. 48: 238–257.
- National Research Council, (2000) *Toxicological Risks of Selected Flame-Retardant Chemicals*. The National Academies Press. Washington, DC. hal. 132.
- Ningrum, A.N. dan Jumaeri, J., (2022) Preparation of magnesium oxide nanoparticles from a sea water bittern as an antibacterial agent against *Escherichia coli*. *Indonesian Journal of Chemical Science*. 11(1): 9–15.
- Parithimarkalaignan, S. dan Padmanabhan, T. V., (2013) Osseointegration: An Update. *Journal of Indian Prosthodontist Society*. 13(1), 2–6.
- Painter, K. L., Strange, E., Parkhill, J., Bamford, K. B., Armstrong-James, D., dan Edwards, A. M., (2015) *Staphylococcus aureus* Adapts to Oxidative Stress by Producing Resistant Small-Colony Variants via the SOS Response. *Journals ASMorg*. 83(5):1830-1844.
- Peeran, S., dan Ramalingam, P., (2021) *Essentials of Periodontics and Oral Implantology*. Saranraj JPS Publicatio. hal. 1-8.

- Pratama, S. A., dan Permatasari, R. I., (2021) Pengaruh Penerapan Standar Operasional Prosedur dan Kompetensi Terhadap Produktivitas Kerja Karyawan Divisi Ekspor PT. Dua Kuda Indonesia, *Jurnal Ilmiah M-Progress*, 1(11): 38-47.
- Prathapachandran, J., dan Suresh, N., (2012) Management of Peri-Implantitis. *Dental Research Journal*. 9(5): 516-521.
- Qin, H., Zhao, Y., Cheng, M., Wang, Q., Wang, J., Jiang, Y., An, Z., dan Zhang, X., (2015) Anti-biofilm properties of magnesium metal *via* alkaline pH. *RSC Adv*. 5, 21434-21444.
- Rodríguez-Sánchez, J., Pacha-Olivenza, M.Á. & González-Martín, M.L., (2019) Bactericidal effect of magnesium ions over planktonic and sessile *Staphylococcus epidermidis* and *Escherichia coli*. *Materials Chemistry and Physics*. 221: 342–348.
- Sari, N., Apridamayanti, P., Sari, R., (2018) Penentuan Nilai MIC Ekstrak Etanol Kulit Lidah Buaya (*Aloe vera* Linn) Terhadap Isolat Bakteri *Pseudomonas aeruginosa* Resisten Antibiotik. *Jurnal Pendidikan Informatika dan Sains*. 7(2): 219-232.
- Silva, R, Agrelli, A., Andrade, AN., Mendes-Marques, CL., Arruda IRS., Santos, LRL., Vasconcelos, NF., Machado, G., (2022) Titanium Dental Implants: An Overview of Applied Nanobiotechnology to Improve Biocompatibility and Prevent Infections. *Materials (Basel)*. 15(9):3150.
- Soedarto, (2015) *Mikrobiologi Kedokteran*. Jakarta: CV. Sagung Seto. hal: 194-195.
- Song, W., Seta, J., Chen, L., Bergum, C., Zhou, Z., Kanneganti, P., Kast, RE., Auner, GW., Shen, M., Marke, I DC., Ren, W., dan Yu, X., (2017) Doxycycline-Loaded Coaxial Nanofiber Coating of Titanium Implants Enhances Osseointegration and Inhibits *Staphylococcus Aureus* Infection. *Biomed Mater*. 12(4).
- Thiebot, N., Hamdani, A., Blanchet, F., Dame, M., Tawfik, S., Mbapou, E., Kaddouh, A.A., dan Alantar, A., (2022) Implant Failure Rate and the Prevalence of Associated Risk Factors: A 6-Year Retrospective Observational Survey. *Journal of Oral Medicine and Oral Surgery*. 28(2): 1-8.
- Thomas III, K. J. dan Rice, C. V., (2014) Revised Model of Calcium and Magnesium Binding to the Bacterial Cell Wall. *Biometals*. 27(6): 1361-1370.
- Yusmaniar, Wardiyah & Khairun, N., (2017) *Mikrobiologi dan Parasitologi*. Jakarta: Kementerian Kesehatan Republik Indonesia. hal.48.

- Weinrick, B., Dunman, P. M., McAleese, F., Murphy, E., Projan, S. J., Fang, Y., dan Novick, R. P., (2004) Effect of Mild Acid on Gene Expression in *Staphylococcus aureus*. *Journal of Bacteriology*. 186(24): 8407-8423.
- Zhao, D., Witte, F., Lu, F., Wang, J., Li, J., dan Qin, L., (2017) Current status in clinical applications of magnesium-based orthopaedic implants; A review from clinical translational perspective. *Biomaterials*. 112: 287-232.