

DAFTAR PUSTAKA

- Ansel, H.C., Popovych, N.G., Llyod, V.A., 2005, *Pharmaceutical Dosage Forms and Drug Delivery Systems*, B.I. Publications, New Delhi, 407-408.
- Asmawati, Thalib, B., Thalib, A.M., Reni, D.S., Hasyim, R., 2018, Comparison of Blood Clam (*Anadara granosa*) Shell Paste, Shrimp (*Litopenaeus vannamei*) Shell Paste, and Casein Phosphopeptide-Amorphous Calcium Phosphate (CPP-ACP) Paste as Teeth Remineralization Material, *Journal of Dentomaxillofacial Science*, 3(3): 162-165.
- Busman, Arma, U., dan Nofriadi, 2014, Hubungan Aplikasi Casein Phosphopeptide Amorphous Calcium Phosphate (CPP-ACP) Terhadap Remineralisasi Gigi, *Jurnal B-Dent*, 1(1):18-23
- Cappenberg, H.A.W., 2008, Beberapa Aspek Biologi Kerang Hijau: *Perna viridis* Linnaeus 1758, *Oseana* 33(1):33-40.
- Cate, J.M.T., 2008, Remineralization of Deep Enamel Dentine Caries Lesions, *Australian Dental Journal* 53(3):281-285.
- Chen, L., Al-Bayatee, S., Khurshid, Z., Shavandi, A., dkk. 2021. *Hydroxyapatite in Oral Care Products—A Review*. *Materials* 2021, 14, 4865.
- Choi, H.J., Choi, Y.C., Kim, K.C., dan Choi, S.C., 2008, Remineralization Depth of CPP-ACP on Demineralization Human Enamel in Vitro, *J Korean Acad Pediatr Dent*, 35(2):278-286.
- Chu J., Feng, X., Guo, H., Zhang, T., dkk, 2018, Remineralization Efficacy of an Amelogenin-Based Synthetic Peptide on Carious Lesions, *Front. Physiol.* 9:842.
- Damayanti, I., 2015, Validasi Metode Spektrofotometer Serapan Atom (SSA) untuk Penetapan Kadar Kalsium dalam Tulang Femur Tikus, *Skripsi*, Jember: Universitas Jember.
- Day, R.A., dan Underwood, A.L., 2002, *Analisis Kimia Kuantitatif*, ed. 4, Jakarta, Indonesia: Erlangga.
- Ding L.J., Han S.L., Wang K., Zheng S.N., 2020, Remineralization of enamel caries by an amelogenin-derived peptide and fluoride in vitro, *Regenerative Biomaterials*, 2020, 283–292.

- Dissanayake, S.S.M., Ekambaram, M., Li, K.C., Harris, P.W.R., Brimble, M.A., 2020, Identification of Key Functional Motifs of Native Amelogenin Protein for Dental Enamel Remineralisation, *Molecules*, 25(4214):1-18.
- Dusevich, V., Melander, J.R, Eick, J.D., 2018, SEM in dental research, *Scanning Electron Microsc. Life Sci.*, 211: 1359–1386.
- Enax J. dan Epple M., 2018, Synthetic Hydroxyapatite as a Biomimetic Oral Care Agent, *Oral Health Prev Dent*, 6: 7-19.
- Eisenburger, M., Addy, M., Hughes, J.A., Sheillis, R.P., 2001, Effect of Time on the Remineralisation of Enamel by Synthetic Saliva aftr Citric Acid Erosion, *Caries Res*, 1(35): 215
- Evans, J.S., 2007, “*Tuning in*” to Mollusk Shell Nacre- and Prismatic-Associated Protein Terminal Sequences. Implications for Biomineralization and the Construction of High Performance Inorganic-Organic Composites, *Chem Rev*, 108: 4455-4462.
- Fahmy, H., dan Batubara, F. Y., 2019, Pengaruh Waktu Aplikasi Pasta Cangkang Telur Bebek Terhadap Kekerasan permukaan Enamel Gigi Setelah Apliasi Bleaching Hidrogen Peroksida 40%, *B-Dent Jurnal Kedokteran Gigi Universitas Baiturrahmah*, 9(2): 126-134.
- Farooq I., Moheet I.A., Imran Z., Farooq U., 2013, A review of novel dental caries preventive material: Casein phosphopeptide–amorphous calcium phosphate (CPP–ACP) complex, *King Saud University Journal of Dental Sciences*, 4: 47-51.
- Fatmawati, D.W.A., 2011, Hubungan Biofilm *Streptococcus mutans* terhadap Resiko Terjadinya Karies Gigi, *Stomatognatic (J.K.G Unej)*, 8(3):127-130.
- Featherstone, J.D.B., 2008, Dental Caries: A Dynamic Disease Process, *Australian Dental Journal*, (53): 286-291.
- Fitriah, E., Maryuningsih, Y., Roviati, E., 2018, Pemanfaatan Daging dan Cangkang Kerang Hijau (*Perna viridis*) Sebagai Bahan Olahan Pangan Tinggi Kalsium, *The 7th University Research Collegium 2018*, STIKES PKU Muhammadiyah Surakarta.
- Green, D.W., Lai, W.F., Jung, H.S., 2014, Evolving Marine Biomimetics for Regenerative Dentistry, *Mar. Drugs*, 12: 2877-2912.

- Gupta K., Taneja V., Kumar S., Bhat S., 2016, Remineralizing Agents –An Insight into the Current and Future Trends, *Int J Oral Health Med Res*, 3(2):55-58.
- Hegde, M.N., Gfloor, F., Devadiga, D., 2014, Resistance to demineralization of remineralizing agents on dentin – An Atomic Absorption spectrophotometric study, *Journal of Pierre Fauchard Academy (India Section)*, 20(2014):110-113.
- Hidayat, A.A., 2023, Pengaruh Gel Ekstrak Cangkang Kerang Hijau (*Perna viridis*) terhadap Peningkatan Kadar Kalsium Enamel Gigi Desidui, *Tesis*, Yogyakarta: Universitas Gadjah Mada.
- Riskesdas, 2018, *Infodatin: Pusat Data dan Informasi Kementerian Kesehatan RI*, Jakarta: Kementerian Kesehatan RI.
- Ingle, J.D., Crouch, S.R., 1988, *Spectrochemical Analysis*, New Jersey: Prentice-Hall International.
- Ismail, R., Cionita, T., Shing, W. L., Fitriyana, D. F., Siregar, J. P., Bayuseno, A. P., Nugraha, F. W., Muhamadin, R. C., Junid, R., dan Endot, N. A., 2022, Synthesis and Characterization of Calcium Carbonate Obtained from Green Mussel and Crab Shells as Biomaterials Candidate, *Materials*, 2022(15): 1-15.
- Kasuma, N., 2016, *Plak Gigi*, Padang, Indonesia: Andalas University Press. Kidd, E., dan Fejerskov, O., 2016, *Essentials of Dental Caries*, 4th Ed. Oxford, New York: Oxford University Press.
- Kolumban, A., Moldovan, M.T., Tig I.A., Chifor, I., 2021, An Evaluation of the Demineralizing Effects of Various Acidic Solutions, *Appl. Sci.*, 11: 8270.
- Kurihara, H., Kataumi, T.m Tanase, K., Eda, K., Ikeda, H., Ogihahra, T., Watanabe, K., dan Watanabe, S., 2017, Mineral Transfer Between Enamel and Artificial Saliva, *Dental, Oral, and Craniofacial Research*, 3(3)-1-4
- Langen, E.N., Rumampuk, J.F., Leman, M.A., 2017, Pengaruh Saliva Buatan dan Belimbing Wuluh (*Averrhoa bilimbi* L.) Terhadap Kekerasan Resin Komposit *Nano Hybrid*, *Pharmakon Jurnal Ilmiah Farmasi – UNSRAT*, 6(1):9-15.

- Lara-Carrillo, E., Lovera-Rojas, N., Morales-Luckie, R.A., Robles-Bermeo, N.L., Garcia-Fabila, M.M., de la Rosa-Santillana, R., Medina-Solis, C.E., 2018, The Effects of Remineralization via Fluoride Versus Low-Level Laser IR810 and Fluoride Agents on the Mineralization and Microhardness of Bovine Dental Enamel, *Journal of Applied Science*, 8(78):1-8.
- Liao, Z., Jiang, Y.T., Sun, Q., Fan, M.H., dkk, 2019, Microstructure and In-Depth Proteomic Analysis of *Perna viridis* Shell, *PLoS ONE*, 14(7): 1-37.
- Llena C., Calabuig, E., Sanz, J.L., Melo, M., 2020, Risk Factors Associated with Carious Lesions in Permanent First Molars in Children: A Seven-Year Retrospective Cohort Study, *Int. J. Environ. Res. Public Health*, 17:1421
- Mallya S.P., Mallya, S., 2020, Microbiology and Clinical Implications of Dental Caries: A Review, *J Evolution Med Dent Sci*, 9(48):3670-3675.
- Mariati, N.W., 2015, Pencegahan dan Perawatan Karies Rampan, *JBM*, 7(1):23-28.
- Messano, L. V. R., Gonçalves, J. E. A., Messano, H. F., Campos, S. H. C/ dan Coutinho, R., 2019, First Report of the Asian Green Mussel *Perna viridis* in Rio de Janeiro, Brazil: A New Record for the Southern Atlantic Ocean, *BioInvasions Record*, 8(3): 563-660
- Mettu, S., Srivinas, N., Sampath, R., Srinivas, N., 2015, Effect of Casein Phosphopeptide-amorphous calcium phosphate (CPP-ACP) on caries-like lesions in terms of time and nano-hardness: An in vitro study, *Journal of Indian Society of Pedodontics and Preventive Dentistry*, 33(4): 269-271
- Mishra, P., Pandey, PM., Singh, U., Gupta, A., Sahu, C., dan Keshri, A., 2019, Descriptive Statistic and Normality Test for Statistical Data, *Annals of Cardiac Anesthesia*, 22(1): 67-72)
- Musa, B., Raya, I., Natsi, H. 2016, Synthesis and Characterizations of Hydroxyapatite Derived Blood Clam Shells (*Anadara granosa*) and Its Potency to Dental Remineralizations, *International Journal of Applied Chemistry*, 12(4):527-538.
- Nawrocka, A., Piwonski, I., Sauro, S., Porcelli, A., 2021, Traditional Microscopic Techniques Employed in Dental Adhesion Research—Applications and Protocols of Specimen Preparation. *Biosensors* 2021(11):1-25.
- Noor, N.M., Nursam, H., Widodo, M.S., Risjani, Y, 2019, Biological Aspects of Green Mussels *Perna viridis* Cultivated on Raft Culture in Pasaran Coastal Waters Indonesia, *AACL Bioflux*, 12(2): 448-456.

- Nowak, A. J., In Christensen, J. R., In Mabry, T. R., In Townsend, J. A., & In Wells, M., 2019, *Pediatric dentistry: Infancy through adolescence*, Philadelphia: Elsevier.
- Palma, C. E., Mamon, S. J. B., Rubin, K. N. D., Lauron, J. M. B., Layawon, G. L., Jumayao, S. K. G., Lumauag, P. E. E., Rodrigo, S. M. D., Campos, J. P., dan Bandiola, T., M. B., 2017, A Comparative Study in The Calcium Content of the Shells of Oyster, Green Shell, Capoz Shell, and Nylon Shell From Panay Island, Philippines, *International Journal of Applied Pharmaceutical and Biological Research*, 2(4), 21-27.
- Pajor K., Pajchel L., Kolmas J., 2019, Hydroxyapatite and Fluorapatite in Conservative Dentistry and Oral Implantology—A Review, *Materials*, 12, 2683.
- Paudel, S., Kumar, S., Mallik, A., 2021, Atomic Absorption Spectroscopy: A Short Review, *EPRA International Journal of Research and Development (IJRD)*, 6(9): 322-327.
- Pecsok, R.L., Shields, L.D., Cairns, T., McWilliam, I.G., 1976, *Modern Methods of Chemical Analysis*, 2th ed, New York: John Wiley and Sons.
- Philip, N., 2018, State of the Art Enamel Remineralization Systems The Next Frontier in Caries Management, *Caries Res*, (53):284-295.
- Pitts NB, Zero DT, Marsh PD, Ekstrand K, Weintraub JA., 2017, Dental caries. *Nat Rev Dis Primers*, (17)25.
- Rachmawati, D., Kurniawati, C., Hakim, L., Roeswahjuni, N., 2019, Efek Remineralisasi Casein Phospopeptide-Amorphous Calcium Phospate (CPP-ACP) terhadap Enamel Gigi Sulung, *E-Prodenta Journal of Dentistry*, 3(2):257-262.
- Rahayu, Y.C., 2013, Peran Agen Remineralisasi pada Lesi Karies Dini, *Stomatognathic (J. K. G Unej)*, 10(1):25-30.
- Ramadhan, S., Tumisem, dan Susanto, 2016, Analisis Kadar Unsur dan Senyawa Kimia Limbah Cangkang Kerang Totok (*Geloina sp.*) Hasil Tangkapan Masyarakat Desa Bulupayung Kabupaten Cilacap di Sungai Serayu, *Prosiding Seminar Nasional Sains dan Entrepreneurship III Tahun 2016*, SAINS:274-285.
- Rather, S.H., Kazi, S., Kazi, S., 2020, The Role of Remineralizing Agents Used in Dentistry: An Update Then and Now, *Saudi J Biomed Res.*, 5(7):183-187.

- Revankar, V.T., Saranyan, R., Chakravarthy, Y., Manivannan E., 2021, Remineralising Potential of Marine Skeletal Species-*Perna viridis* Powder Extract on Human Teeth Enamel: An In-vitro Study, *Journal of Clinical and Diagnostic Research*, 15(2): 10-13.
- Roberts, W.E., Mangum, J.E., dan Schneider, P.M., 2022, Pathophysiology of Demineralization, Part II: Enamel White Spots, Cavitated Caries, and Bone Infection, *Current Osteoporosis Reports*, 20:106-119.
- Rodriguez, M.A.M., Villarreal, M.M., Ramirez, E.N., Rodriguez, R.C., Ramirez, E.L., Cepeda, M.A.A.N., Martinez, K.D.R., Soto, J.M.S., 2022, White Spot Lesions: Pediatric dentistry approach, *International Journal of Applied Dental Sciences*, 8(2): 172-175.
- Sari, M., dan Yusuf, Y., 2018, Synthesis and Characterization of Hydroxyapatite based on Green Mussel Shells (*Perna viridis*) with Calcination Temperature Variation Using the Precipitation Method, *International Journal of Nanoelectronics and Materials*, 11(3):357-370.
- Schlueter, N., Hara, A., Shellis, R.P., Ganss, C., 2011, Methods for the Measurement and Characterization of Erosion in Enamel and Dentine, *Caries Research*, 45(1): 13-23.
- Setijanto, D., Putri, N. N., Bramantoro., Berniyanti, T., Sosiawan, A., Palupi, R., dan Wning, G. R. S., 2017, Casein Phospopeptide Amorphous Calcium Phosphate Fluoride (CPP-ACPF) as an Enamel Remineralization, *The 7th International Meeting and The 4th Joint Scientific Meeting in Dentistry*, 17-21.
- Sharma, S.K., Mudgal, S.K., Thakur, K., Gaur, R., 2019, How to calculate sample size for observational and experimental nursing research studies?, *National Journal of Physiology, Pharmacy, and Pharmacology*, 10(1):1-8.
- Shavandi, A., El-Din, A., Bekhit, A., Ali, A., 2014, Synthesis of nano-hydroxyapatite (nHA) from waste mussel shells using a rapid microwave method, *Materials, Chemistry and Physics*, (3):1-10.
- Sibarani, M.R., 2014, Karies: Etiologi, Karakteristik Klinis dan Tatalaksana, *Majalah Kedokteran UKI*, 30(1):14-22.
- Sitthisettapong T, Phantumvanit P, Huebner C, Derouen T., 2012, Effect of CPP-ACP paste on dental caries in primary teeth: a randomized trial, *J Dent Res.*, 91(9):847-52.

- Takahashi, N., dan Nyvad, B., 2011, The Role of Bacteria in the Caries Process: Ecological Perspectives, *J Dent Res*, 90: 294.
- Thierens, L., Moerman, S., Van Elst, C., Vercruyse, C., 2019, The in vitro Remineralizing Effect of CPP-ACP and CPP-ACPF After 6 and 12 Weeks on Initial Caries Lesion, *J Appl Oral Sci.*, 27:e20180589.
- Vieira, A. E. M., Danelon, M., Camara, D. M., Rosselli, E. R., Stock, S. R., Cannon, M. L., Xiao, X., De Carlo, F., Delbem, A. C. B., 2017, In Vitro of Amorphous Calcium Phosphate Paste Applied for Extended Periods of Time on Enamel Remineralization, *J. Appl. Oral. Sci.*, 24(6):596-603
- Verma, A., Singh, S., Kaur, R., Jain, U.K., 2013, Topical Gels as Drug Delivery Systems: A Review, *Int. J. Pharm. Sci. Rev*, 23(2):374-382.
- Waode, R.A., 2018, Analisis Kalsium Gigi Desidui dengan Metode Spektrofotometri Serapan Atom Akibat Konsumsi Air PDAM di Kecamatan Pagak sebagai Penyebab Karies Gigi, *Skripsi*, Malang: Universitas Brawijaya.
- Widyaningtyas, V., Rahayu, Y.C., Barid, I., 2014, Analisis Peningkatan Remineralisasi Enamel Gigi setelah Direndam dalam Susu Kedelai Murni (*Glycine max* (L.) Merrill) Menggunakan Scanning Electron Microscope (SEM), *Jurnal Pustaka Kesehatan*, 2(2): 258-259
- Wiryani, M., Sujatmiko, B., Bikarindrasari, R., 2016, Pengaruh lama aplikasi bahan remineralisasi casein phosphopeptide-amorphous calcium phosphate fluoride (CPP-ACPF) terhadap kekerasan email, *Majalah Kedokteran Gigi Indonesia*, 2(3):141-147.
- Xu, J., Shi, H., Luo, J., Yao, H., Wang, P., Li, Z., Wei, J., 2022, Advanced materials for enamel remineralization, *Frontiers in Bioengineering and Biotechnology*, 10-18.
- Zhou, Y., Zhu, Y., dan Wong, W. K., 2023, Statistical Test of Homogeneity of Variance for Clinical Trials and Recommendations, *Contemporary Clinical Trials Communications*, 33(2023): 1-11.