

## VI. DAFTAR PUSTAKA

- Abada, H.M., Farag, A.M., Alhadainny, H.A. dan Darrag, A.M., 2015, Push-out Bond Strength of Different Root Canal Obturation System to Root Canal Dentin, *Tanta Dental Journal*, 12:185-191.
- Agnihotri S.A., Mallikarjuna N.N., Aminabhavi T.M., 2004, Recent Advances on Chitosan-based Micro- and Nanoparticles in Drug Delivery, *J Control Release*, 100:5-28.
- Asrafh., Asnaashari M., Darmiani S., dan Birang R., 2014, Smear Layer Removal in the Apical Third of Root Canals by Two Chelating Agent and Laser: A Comparison in vitro Study, *Iranian Endodontic Journal*, 9(3): 210-214.
- Balaji TS., 2010. Effect of various root canal irrigants on removal of smear layer and debris-an SEM study, *Pakistan Oral Dent J.*, 30: 205-11.
- Barbizam, J.V.B., Trope, M., Tanomaru-Filho, M., Teixeira, E.C.N., Teixeira, F., B., 2011, Bond Strength of Different Endodontic Sealer to Dentin: Push-Out Test, *J Appl Oral Sci.*, 19(6): 644-7
- Berastegui, E., Molinos, E., Ortega J. 2017. To comparison of standard and new chelating solutions in endodontics. *J Dental Sci*, 2 (3): 131-8
- Bilge H.S., Erturk O., dan Piskin B., 2009, The Effect of Different Concentration of EDTA on Instrumented Root Canal Walls, *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.*, 108: 622- 627
- Carpio-Perochena, A., Bramante, C. M., Duarte, M. A. H., de Moura, M. R., Aouada, F. A., Kishen, A. 2015. Chelating and antibacterial properties of chitosan nanoparticles on dentin. *Restor Dent Endod*, 40 (3): 195-201
- Chandra, B.S., Khrishna V.G., 2010, *Grossman's Endodontic Practice Twelfth Edition*, Wolter Kluwer Health: New Delhi, India
- Chong, Bun San, 2010, *Harty's Endodontics in Clinical Practice Sixth Edition*, Churchill Livingstone Elsevier, London, UK.
- Darrag, A. M. 2014. Effectiveness of different final irrigation solutions on smear layer removal in intraradicular dentin. *Tanta Dental Journal*, 11: 93-99
- Del Carpio-Porchena, A., Bramante, C.M., Duarte, M.A.H., de Moura, M.R., Aouada, F.A., Kishen, A., 2015, Chelating and Antibacterial Properties of Chitosan Nanoparticle on Dentin, *Restorative Dentistry & Endodontic*, 1-7.

- Elsaka, S.E., dan Elnaghy, A.M., 2012, Antibacterial Activity of Calcium Hydroxide Combined with Chitosan Solution and the Outcomes on the Bond Strength of RealSeal Sealer to Radicular Dentin, *Journal of Biomedical Research*, 26: 1-7.
- Garg, N., dan Garg, A., 2014, *Textbook of Endodontic: Third Edition*, Jaypee Brothers Medical Publisher, New Delhi, India.
- Guerreiro-Tanomaru M., Loiola L.E., dan Morgenta R.D., 2013, Efficacy of Four Irrigation Needles in Cleaning The Apical Third of Root Canal, *Brazilian Dental Journal*, 24
- Gusiyska A, Dyulgerova, Vassileva R, Gyulbenkiyan E., 2016. The effectiveness of a chitosan citrate solution to remove the smear layer in root canal treatment- an in vitro study, *Int J of Science and Research*., 5: 1169-74.
- Haapasalo M, Shen Y, Qian W, Gao Y., 2010. Irrigation in endodontics, *Dent Clin North Am.*, 54: 291-312
- Hargreaves, K. M., dan Berman, L. H. 2016. *Cohen's Pathway of the Pulp. 11th edition*. Elsevier. Philadelphia
- Hosseini S, Kassaei MZ, Elahi SH, Bolhari B, 2016, A New Nano-Chitosan Irrigant with Superior Smear Layer Removal and Penetration. *Nanochem Res*, 2016; 1(2): 150-156.
- Hinton A., Ingram K.D., 2010 Comparison of the Antibacterial Activity of Chelating Agent Using the Agar Diffusion Method, *International Journal of Poultry Science*, 9(11):1023-1026.
- Ibrahim, A I. O., Moodley, D. S., Petrik, L., Patel, N. 2017. Use of antibacterial nanoparticles in endodontics. *SADJ*, 72 (3): 105-112
- Ingle, J. I., Bakland, L. K., Baumgartner, J. C. 2008. *Ingle's Endodontics 6*. BC Decker. Ontario
- Jaju S., Jaju P., 2011, Newer Root Canal Irrigants in Horizon: A Review International Journal of Dentistry
- Kandaswamy D dan Venkateshbabu N., 2010, Root Canal Irrigants, *Journal of Conservative Dentistry*, 13(4): 256-264.
- Kandil H.E., Labib A.H., dan Alhadainy H.A., 2014, Effect of Different Irrigant Solution on Microhardness and Smear Layer Removal of Root Canal Dentin. *Tanta Dental Journal*, 11:1-11.

- Kanodia S., Matta M., dan Parmar G., 2014, Stereomicroscopic and scanning Electron Microscopic Evaluation of Glyde File Prep in Smear Layer Removal, *International Journal of Healthcare and Biomedical Research*, 2(2): 170-7.
- Kartikaningtyas, Aqila Tiara, 2018, *Pengaruh Konsentrasi & Waktu Kontak Kitosan Nanopartikel sebagai Larutan Irigasi Akhir Terhadap Kebersihan Saluran Akar*. Tesis PPDGS Konservasi UGM.
- Komariah, Ade, 2014, *Efektifitas Antibakteri NanoKitosan Terhadap Pertumbuhan Staphylococcus Aureus (in vitro)*. Prosiding Seminar Nasional XI Pendidikan Biologi FKIP UNS, 8-062.
- Massound, Soha F; Moussa, Sybel M; dan Hanafy, Seham A; Evaluation of the Microhardness of Root Canal Dentin After Different Irrigation Protocols; *Alexandria Dental Journal*, 2017: 42:73-79
- Mancini M., Cianconi L., 2013, SEM evaluation of Apical Intraradicular Dentine Cleanliness and Degree of Erosion After the Application of Three Irrigating Solution, *Open Journal of Stomatology*, 3(2).
- Mathew, AP., Pai, VS., Usha, G., Nading, RR., 2017, Comparative evaluation of smear layer removal by chitosan and ethylenediaminetetraacetic acid when used as irrigant and its effect on root dentine: An in vitro atomic force microscopic and energy-dispersive X-ray analysis. *J Conserv Dent*, 20 (4):245-250
- Mishra L., Kumar M., dan Subba R.C.V., 2012, Calcium Loss from Root Canal Dentin Following EDTA and Tetracycline HCL Treatment with or without Subsequent NaOCl Irrigation and Evaluation of Microhardness of Dentine. *IJOART*, 1(2): 45-50
- Niu W., Yoshioka T., dan Suda H., 2009, A Scanning electron microscope study of dentinal erosion by final irrigation with EDTA and NaOCl solutions. *Int Endod Journal*, 35. :934-9
- Neelakantan, P., Romero, M., Vera, J., Daood, U., Khan, A.U., Yan, A., Cheung G.S.P. 2017. Biofilms in endodontics: Current status and future directions. *International Journal of Molecular Sciences*, 18 (8): 1-21
- Patel, S dan Barnes, JJ, 2016, *Prinsip Endodontik Edisi 2*, EGC Jakarta
- Paul, M. L., Mazumdar, D., Niyogi, A., Baranwal, A. K. 2013. Comparative evaluation of the efficacy of different irrigants including MTAD under SEM. *J Conserv Dent*, 16: 336-41

- Pedro, F. L. M., Costa, L.M.A.S., Filho, G.S., Guedes, O.A., Pereira, T.M.P., Borges, A.H. 2017. Assessment of the amount of calcium ions released after the use of different chelating agents and agitation protocols. *The Open Dentistry Journal*, 11: 133-9
- Pimenta, J. A., Zapparoli, D., Pécora, J. D., Cruz-Filho, A. M. 2012. Chitosan: effect of a new chelating agent on the microhardness of root dentin. *Brazilian Dental Journal*, 23(3): 212-217
- Power J.M. dan Sakaguchi R.L., 2006, *Craig's Restorative Dental Material*, 12 th ed., Mosby Elsevier, Missouri
- Ratih, Diatri N., 2017., Pengaruh Kitosan Nanopartikel sebagai Bahan Irigasi akhir terhadap Kerapatan Penutupan Apikal pada Obturasi Saluran Akar dan Kekerasan Mikro Dentin Saluran Akar., *Unpublish Data*.
- Rhazi, M., Desbrieres, J., Tolaimate, A., Rinaudo, M., Vottero, P., Alagui, A., El Meray, M. 2003. Influence of the nature of the metal ions on the complexation with chitosan: Application to the treatment of liquid waste. *Eur Polym J*, 38: 1532-1530
- Saito, K., Webb, T.D. dan Imamura, G.M., 2008, Effect of Shortened Irrigation Times with 17% Ethylene Diamine Tetraacetic Acid on Smear Layer Removal After Rotary Canal Instrumentation , *J. Endod*, 34(8): 1011-1014.
- Sen H.B., Eturk O., dan Piskin B., 2009, The Effect of Different Concentrations of EDTA on Instrumented Root Canal Walls. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology*, 108(4):622-7
- Shrestha A., Shi Z., Neoh K.G., Kishen A., 2010, Nanoparticulates for antibiofilm treatment and effect of aging on its antibacterial activity, *J Endod*, 36:1030– 5.
- Silva PV, Guedes DFC, Nakadi FV, Pecora JD, Cruz-Filho AM, 2012, Chitosan: A New Solution for Removal, *International Endodontic Journal Vol. 46 Issue 4*
- Silveira, L.F.M., Silveira, C.F., Martos, J., Castro, L.A.S. 2013. Evaluation of the different irrigation regimens with sodium hypochlorite and EDTA in removing the smear layer during root canal preparation. *Journal of Microscopy and Ultrastructure*, 1: 51-6
- Spanberg L., 2010. Instruments, Materials and Devices, In : *Cohen S., Burns R.C. Pathway of the Pulp Tenth Edition* , Mosby, Philadelphia.
- Suvarna S.K., Layton C., dan Bancroft J.D., 2013, *Bancroft's Theory and Practice of Histological Technique*, 7<sup>th</sup> ed., Elsevier, China.

- Tan W., Krishnaraj R., Desai T.A., 2001, Evaluation of nanostructured composite collagen-chitosan matrices for tissue engineering, *Tissue Eng*, 7:203–10.
- Topcuoglu, H.S., Tuncay, O., Demirbuga, S., Dincer, A.N. dan Arslan, H., 2014, The Effect of Different Final Irrigant Activation Techniques on The Bond Strength of An Epoxy Resin-Based Endodontic Sealer: A Preliminary Study, *J. Endod.*, 40(6): 862-866.
- Venghat, S., dan Hegde, M. N. 2016. Comparative evaluation of smear layer removal efficacy using QMix 2in1, chitosan, Smear Clear, and Glyde. *British Journal of Medicine and Medical Research*, 13 (4): 1-8
- Violich, D. R., dan Chandler, N. P. 2009. The smear layer in endodontics: A review. *Int Endodont J*, 43: 2-15
- Walton R.E. dan Torabinejad M., 2009, *Endodontics: Principles and Practice*. 4th ed., Elsevier Health Sciences, St.Louis, Missouri.