

DAFTAR PUSTAKA

- Abuhaimed, T.S. dan Neel, E.A.A., (2017) Sodium hypochlorite irrigation and its effect on bond strength to dentin. *BioMed Research International*. Hindawi. 1-8
- Al Haddad, A. dan Aziz Z.A., (2016) Bioceramic-based root canal silers: A review. *Int J Biomaterial*. Hindawi Pub. Co. 1-10
- Andrabi, S.M.U.N., Kumar, A., Zia, A., Iftekhar, H., Alam, S., dan Siddiqui, S., (2013) Effect of passive ultrasonic irrigation and manual dynamic irrigation on smear layer removal from root canals in a closed apex in vitro model. *J. Investig. Clin. Dent*. 5(3): 188-193
- Ballal, N.V., Kundabala, M., dan Bhat, K.S., (2010) A Comparative evaluation of postobturation apical seal following intracanal irrigation with maleic acid and EDTA: A dye leakage under vacuum study. *Oral Surg Oral Med Oral Path Oral Radiol Endod Mar*. 109(3): 126-133
- Basrani, B. dan Haapasalo, M., (2013) Update on endodontic irrigating solution, *Endodontic Topic*. (27): 74 – 103
- Baumgartner, J. C dan Cuenin, P. R., (1992) Efficacy of several concentration of sodium hypochlorite for root canal irrigation. *J. Endod*. 18(12): 605-612
- Bence, R., (1990) *Handbook of Clinical Endodontics*, St. Lois, CV. Mosby Company
- Bertassoni, L. E., Habelitz, S., Kinney, J. H., dan Marshall, S. J., (2009) Biomechanical perspective on the remineralization of dentin. *Caries Research*. 43:70-77
- Bharti, R. dan Chandra, A., (2021) Comparative evaluation of different antioxidants on reversal of microtensile bond strength of composite resin in endodontically treated tooth surface. *Journal of Clinical and Diagnostic Research*. 15(5): 43-46
- Boal, A. K. dan Patsalis F. I., (2017) Use of sodium thiosulfate to quench hypochlorite solutions prior to chlorate analysis. *Journal AWWA*. 109(10): 410-415
- Carrasco, R., Roman, R., Ojeda, M., dan Vergara, C., (2015) Sonic versus ultrasonic activation for the cleaning of the root canal after post space preparation: An in vitro study. *Journal Oral of Research*. 4(4): 255–262
- Chaugule V. B., Panse A. M., dan Gawali P. N., (2015) Adverse reaction of sodium hypochlorite during endodontic treatment of primary teeth. *International Journal of Clinical Pediatric Dentistry*. 8(2): 153-156

- Christopher, S. R., Mathai, V., Nair, R.S., dan Angelo, J.M., (2016) The effect of three different antioxidants on the dentinal tubular infiltration of resilon and real seal SE on sodium hypochlorite-treated root canal dentin: An in vitro study. *J Conserv Dent*. 19:161-165
- Clark-Holke, D., Walton, R., dan Rivera, E., (2003) Bacterial penetration through canals of endodontically treated teeth in the presence or absence of the smear layer. *J Dent*. 31(4): 275-281
- Cohen, S. dan Hargreaves, K.M., (2011) *Pathways of the Pulp* ed. 10 Mosby Elsevier. St. Louis. Missouri
- Correa, A.C.P., Jose, F.A.A., Brenda, P.F.A.G., dan Alexandre, A.Z., (2016) Sodium tiosulfat for recovery of bond strength to dentin treated with Sodium hipoklorit. *Journal Of Endodontic*. 42(2): 284-288.
- Creanor, S., (2018) *Dasar-Dasar Biologi Oral Klinis*. Penerbit Buku Kedokteran. Jakarta. EGC.pp 52-58
- Deviyanti, S., (2019) Antimicrobial potency of photoactivated disinfection toward enterococcus faecalis in root canal treatment. *Cakradonya Dent J*. 11(1): 33-37
- Dutra, F., Machado, J., Daniela, L., dan Alexandre., (2006) Evaluation of apical microleakage of teeth sealed with four different root canal sealers. *J Appl Oral Sci*. 14(5): 341-5
- Estrela, C., Estrela C. R. A., Barbin, E. L., Spano, J. C., Marchesan M. A., dan Pecora, J. D., (2002) Mechanism of action of sodium hypochlorite. *Braz Dent J*. 1(2): 113-117
- Ford, T.R.P., (2004) *Harty's Endodontics in Clinical Practise*. 5th ed. Elsevier. UK
- Fuentes, V., Ceballos, L., Osorio, R., Toledano, M., Carvalho, R. M., dan Pashley, D. H., (2004) Tensile strength and microhardness of treated human dentin. *Dent Mat*. 20(2): 522-529
- Freire, A., Souza, E.M., Caldas, D.B.M., Rosa, E.A.R., Bordin, C.F.W., Carvalho, R.M. dan Viera, S., (2009), Reaction Kinetic of Sodium Ascorbate and Dental Bleaching Gel. *J. Dent*. 37:932-936.
- Garg, N. dan Garg A., (2014) *Texbook of Endodontic*. 3rd ed. India. Jaypee Medical Brothers
- Grossman, L.I., Oliet, S., dan Del Rio, C.E., (1995) *Ilmu Endodontik dalam Praktek* . Ed 11. Jakarta. EGC.pp 196
- Gomes, B. P., Prado, M. D., dan Siano, R. A., (2018) Surface tension of root canal irrigants used in endodontic practice. *International Journal of Clinical Dentistry*. 11(2): 137-145

- Gopikhrisna V., Ashok P., dan Kumar A.R.P., (2014) Influence of temperature and concentration on the dynamic viscosity of sodium hypochlorite with EDTA 17% and 2% chlorhexidine gluconate: an in vitro study. *Journal of Conservative Dentistry*. 17(1): 57-60
- Halim, E., (2021) Pengaruh kombinasi sodium hipoklorit dan sodium tiosulfat sebagai bahan irigasi saluran akar terhadap kedalaman penetrasi siler berbasis epoksi resin, Yogyakarta: Tesis Konservasi Gigi FKG Universitas Gadjah Mada
- Hammad, M., Qualthrough, A., dan Silikas, N., (2008) Three dimensional evaluation of effectiveness of hand and rotary instrumentation for retreatment of canals filled with different materials. *J. Endod.* 34(11): 1370-1373
- Hedge, J., Bashetty, K., Khrisnakumar., dan Gulati U., (2012) Quantity of sodium thiosulfate required to neutralize various concentration of sodium hypochlorite. *Asian Journal of Pharmaceutical and Health Sciences*. 2(3): 390-393
- Hu, X., Peng, Y., Sum, C.P., dan Ling, J., (2010) Effect of concentration and posure times of sodium hypochlorite on dentin deproteination: Attenuated total reflection fourier transform infrared spectroscopy study. *J. Endod.* 36(12): 2008-2011
- Huang, Y., Orhan, K., Celikten, B., Orhan, A. I., Tufenkci, P., dan Sevimey, S., (2017) Evaluation of the sealing ability of different root canal sealers: A combined SEM and micro CT study. *Journal of Applied Oral Science*. 26: 1-8
- Hulsmann, M. dan Rodig, T., (2009) *Problem in Desinfection of the Root Canal System, Problem in Endodontics*. Germany. Quintessence Publishing.pp 253-261
- Hulsmann, M., (2013) Effect of mechanical instrumentation and chemical irrigation on the root canal dentin and surrounding tissue. *Endodontic Topic*. (29): 55- 86
- Hoveland, E.J. dan Dumsha, Y.C., (1986) Leakage evaluation in vitro of the root canal sealer sealapex. *Int Endod J*. 19: 21–28
- Inan., Christine, W., Ratih, D.N., dan Hadriyanto, W., (2011) Pengaruh teknik obturasi saluran akar dengan kondensasi lateral, warm gutta percha dan carrier- based gutta percha terhadap kebocoran apikal. *J. Ked. Gi*. 2(3): 143-151
- Ingle, J., Bakland, L.K., dan Baumgartner, J.C., (2008) *Ingle's Endodontic*. 6th ed. BC Decker. Hamilton.pp 993-1090

- Junior, L. C. L. D, Roberta F. C, Juliana, S. S. M, Emmanuel, J. N. L. S., dan Juliana, M. S. B., (2021) Effect of sodium tiosulfat on interfacial adaptation and penetration of an epoxy resin-based root canal siler. *Iranian Endodontic Journal*. 16(1): 33-37
- Kim, H. R., Kim, Y.K., dan Kwon, T.Y., (2016) Post space preparation timing of root canals sealed with AH Plus sealer. *Restorative Dentistry & Endodontics*. 27-33
- Kirti, Kaur, G., Rathi, S, dan Sanjul., (2018) Stereo microscope: Usage in dentistry- A review. *Oral Pathology and Micobiologi*. 10(04): 47-48
- Kucukay, I. K., Kucukay, S., dan Bayrli, G., (1993) Factors affecting apical leakage assessment. *J Endod*. 19(7): 362-365
- Lei, Y., Sinha, A., dan Vyavahare, N., (2013) Efficacy of reversal of aortic calcification by chelating agents. *Calcif Tissue Int*. 93(5): 1-9
- Luukko, K., Kettunen, P., Fristad, I., dan Berggreen, E., (2011) *Structure and Function of the Dentin-Pulp Complex* dalam Cohen, S. dan Hargreaves, K.M, *Pathways of the Pulp*. ed. 10. Mosby Elsevier. St. Louis. Missouri.pp 458-462
- Ma, X., Yu, J., Yan, R., Yan, M., Xu, Q., (2019) Promoting effect of crystal water leading to catalyst-free synthesis of heteroaryl thioether from heteroaryl chloride, sodium thiosulfate pentahydrate, and alcohol. *J. Org. Chem*. 84: 11294-11300
- Machado, C. M. L., Braitt, A. H., dan Rodrigues, E. A., (2014) Analysis of active chlorine releasing and pH of sodium hypochlorite solutions used in Endodontics. *RSBO*. 11(3): 252-259
- Mali, S. R., Sabina, S., dan Abhijeet, P., (2020) In vitro comparison of three different antioxidants on endodontic siler infiltration. *International Journal of Advanced Sciences and Technology*. 29(8): 3184-3190
- Mamootil, K. dan Messer, H.H., (2007) Penetration of dentinal tubules by endodontic sealer cements in extracted teeth an in vitro. *Int Endod J*. (40): 873-881
- Mannocci, F., Pilecki, P., Bertelli, E., dan Watson, T.F., (2004) Density of dentinal tubulus affect the tensile strength of root dentin, *Dent. Mater*. 20: 293-296
- Mc Cabe, M. dan Walls, W. G., (2008) *Applied dental materials*. Blackwell Publishing. Australia.pp 230-231
- Marion, J. J. C., Manhaes, F. C., Bajo, H., Duque, T. M., (2012) Efficiency of different concentrations of sodium hypochlorite during endodontic treatment. *Dental Press Endo*. 2(4): 32-37

- McGeer, P. L., McGeer, E. G., dan Lee, M., (2016) Medical uses of sodium thiosulfate. *Journal of neurology and neuromedicine*. 1(3): 28-30
- Miletic, I., (2002) Bacterial and fungal microleakage of AH 26 and AH plus root canal sealers. *Int Endod J*. 35:428-432
- Mutal, L. dan Gani, O., (2005) Presence of pores and vacuoles in set endodontic sealers. *Int Endod J*. 38: 690 – 693
- Neelakantan, P., Subbara, C., dan De-Deus, G., (2011) The impact of root dentine conditioning on sealing ability and push-out bond strength of an epoxy resin root canal sealer. *Int Endod J*. 44: 491– 498
- Neelakantan, P., Sharma, S., Shemesh, H., dan Wesselink, P.R., (2015) Influence of irrigation sequence on the adhesion of root canal sealers to dentin: A fourier transform infrared spectroscopy and push-out bond strength analysis. *J Endod*. 41: 1108-1111
- Noviyanti., Hadrianto, W., dan Nugraheni, T., (2013) Pengaruh penggunaan larutan sodium klorida 0,9%, alkohol 96% dan air destilasi sebagai bahan intermediate flushes saluran akar terhadap kebocoran apikal obturasi saluran akar. *J Ked Gigi*. 4(2): 94-101
- Nugrohowati., dan Tananda, H.D., (2009) Peran irigan terhadap lapisan smear dinding saluran akar. *JITEKGI*. 6(1):9-12
- Ørstavik, D., (2014) Endodontic filling material. *Endodontic Topic*. (31):53-67
- Pameijer, C. H., Barnett, F., Zmener, O., dan Schein, B., (2010) Methacrylate based resin endodontics sealers: A paradigm shift in endodontics. A Peer Reviewed Publication
- Palazzi, F., Morra, M., Mohammadi, Z., Grandini, S., Giardino, L., (2011) Comparison of the surface tension of 5,25% sodium hypochlorite solution with three new sodium hypochlorite-based endodontics irrigants. *Int Endo J*, 1-7
- Pasch, A., Schaffner, T., dan Hyunh-Do, U., (2008) Sodium thiosulfate prevents vascular calcifications in uremic rats. *Kidney International*, 74: 1444–1453
- Pashley, D. H., dan Liewehr, F. R., (2006) Structure and functions of dentin-pulp complex. In: Cohen S, Hargreaves KM, editors. *Pathways of the pulp*. 9th ed. Missouri: Mosby Elsevier. 461
- Patel, S., Hans, M. K., Chander, S., dan Ahluwalia, A. S., (2015) Antioxidants in endodontics: Strategic review. *Journal of Clinical and Diagnostic Research*. 9(5): 12-15

- Pherchyonok, V.T., dan Grobler, S.R., (2015) Tooth-bleaching: mechanism, biological aspects and antioxidants. *International J. of Dent. and Oral Health*, 1-5.
- Philips, P. M., Shindu. J., dan Nainan, M. T., (2018) Efficacy of anti oxidants when used for distinctive time to re establish bond strength. *Journal of Conservative and Endodontics*. 3(1): 14-18
- Plotino, G., Cortese, T., Grande N. M., Leonardi D. P., Giorgio G. D., Testarelli, L., dan Gambarini G., (2016) New technologies to improve root canal disinfection. *Brazilian Dental Journal*. 27(1): 3–8
- Poggio, C., Arciola, C. R., dan Dagna, A., (2010) Solubility of root canal sealers: A Comparative Study. *Int J Artif Organs*. 33(9): 676-681
- Pommel, L. dan Camps, J., (2001) In vitro apical leakage of system B compared with other filling techniques. *J Endod*. 27(7): 449-451
- Prasansuttiporn, T., Nakajima, M., Kunawarote, S., dan Foxton, R. M., (2011) Effect of reducing agents on bond strength to NaOCl-treated dentin. *Dental Materials*. 27(3): 229–234
- Pratama, R., (2019) Tegangan Permukaan dan Antarmuka Pengaruhi Kestabilan Suspensi Antasida. <https://farmasetika.com> (25/10/2019).
- Ramadhiani, C. N., Santosa, P., dan Mulyawati, E., (2016) Pengaruh kombinasi larutan irigasi terhadap kebocoran apikal pada obturasi saluran akar menggunakan siler resin epoksi dan mineral trioxide aggregate. *Jurnal Kedokteran Gigi*. 7(2): 19–25
- Rao, R. N., (2009) *Advanced Endodontics*. Jaypee Brother Medical Publishers (P) Ltd, New Delhi. India
- Roopa, P., Joshi, S., dan Dhaded, N., (2014) Evaluation of efficiency and effectiveness of 3 technique removal of fiber post: An invitro study. *J of Evoluotion of Med and Dent Sci*. 3(39): 9979-9989
- Ruddle, C. J., (2008) Endodontic disinfection tsunami irrigation. *Clin Evid*. 1-10
- Sahebi, S., Sobhnamayan, F., Moazami, F., dan Naseri, M., (2020) Assesment of sodium tiosulfat neutralizing effect on micro-hardness of dentin treated with sodium hipoklorit. *BMC Oral Health*. 20: 326
- Sampaio, F. C., Alencar, A. H., Guedes, O. A., Veloso, H. H. P., Santos, T. O., dan Estrela, C., (2014) Chemical elements characterization of root canal sealers using scanning electron microscopy and energy dispersive X-ray analysis. *Oral Health Dent Management*. (13)1: 27-34

- Schmaltz, G. dan Preben, H., (2013) Root Filling Materials. Bergenholtz G, Bindsvlev PH, Reit C (Editor), *Textbook of endodontology*. 2nd ed. West Sussex. United Kingdom: Wiley Blackwell. 193-219
- Schwartz, R., (2006) Adhesive dentistry and endodontics. part 2: bonding in the root canal system- the promise and the problems: A review. *J Endod*. 32: 1125-1129
- Shinde, T., Kokate, S., dan Hedge, V., (2014) Comparative assessment of apical healing ability of three different endodontic sealer : A scanning elektron microscopic study. *J pierre Fauchard A cod Cindiasction*. 28: 78-82
- Silva, R. V., Silviera, F. F., dan Horta, M. C., (2015) Filling effectiveness and dentinal penetration of endodontic sealers: A stereo and confocal laser scanning microscopy study. *Brazilian Dental Journal*: 26(5): 541-546
- Siqueira, J. F., Rôças, I. N., dan Ricucci, D., (2019) Microbial and nonmicrobial etiologies of endodontic diseases, *Ingle II, Rotstein I. Endodontics*. 7th ed. Raleigh. pp 85-109
- Sirtes, G., Walimo, T., Schaetzle, M., (2005) The effects of temperature on sodium hypochlorite short-term stability, pulp dissolution capacity, and antimicrobial efficacy. *J Endod*. 31: 669-671
- Slutzky-Goldberg, I., Maree, M., Liberman, R dan Heling, I., (2004) Effect of sodium hypochlorite on dentin microhardness. *Journal of endodontics*. 30(12): 880-882
- Sonu, K. R., Girish, T. N., Ponnappa, K. C., Kishan, K. V, dan Thameem, P. K., (2016) Comparative evaluation of dentinal infiltration of three different endodontic silers with and without smear layer removal” - scanning electron microscopic study. *Saudi Endod J*. 6: 16-20
- Stock, C. J. R., Walker, R. T., dan Gulabivala, K., (2004) *Endodontics*. 3rd ed. Elsevier. Mosby. UK
- Stojicic, S., Zivkovic, S., dan Qian, W., (2010) Tissue dissolution by sodium hypochlorite: Effect of concentration, temperature, agitation, and surfactant. *JOE*. 36(9)
- Tay, F. R., Loushine, R. J., Monticelli, F., Weller, R. N., Breschi, L., Ferrari, M., dan Pashley, D. H., (2005) Effectiveness of resin coated gutta perca cones and a dual cured, hydrophilic methacrylate resin based silerin obturating root canals. *J Endod*. 31: 659-664
- Tartari, T., Oda, D. F., Silva, T.L., Moraes, I.G., Duarte, M. A. H., Bramante, C.M., (2015) Mixture of alkaline tetrasodium EDTA with sodium hypochlorite promotes in vitro smear layer removal and organic matter dissolution during biomechanical preparation. *International Endodontic Journal*. 1-9

- Tomson, P. L., Simon, S. R., (2016) Contemporary cleaning and shaping. *Prim Dent J.* 5(2): 46–53
- Topbas, C. dan Adiguzel, O., (2017) Endodontic irrigation solutions: A review, *International Dental Research.* 7(3): 54
- Torres, C.R.G., Koga, A.F., dan Borges, A.B., (2006) The Effect of Antioxidant Agents on Neutralizers of Bleaching Agents on Enamel Bond Strength, *Braz J. Oral Sci.* 26(16):971-976
- Tronstad, L., (2003) *Clinical Endodontics A Textbook*. Second revised edition, Germany. Georg Thieme Verlag
- Tuncer, A. K., dan Tuncer, S., (2012) Effect of different final irrigation solutions on dentinal tubule penetration depth and percentage of root canal sealer. *J Endodontic.* 38(6): 860-863
- Tyagi, S., Mishra, P., dan Tyagi, P., (2013) Evolution of root canal sealers: An insight story. *Europ J Gener Dentis.* 2(3): 199-218.
- Ueno, K., Wada, Y., dan Iwahashi, Y., (2020) Combination of intravenous and intralesional sodium thiosulfate for treatment of calciphylaxis. *Int. J. Surg Wound Care.* 1: 120-124
- Ulusoy, O. I., Nayir, Y., Çelik, K., dan Yaman, S. D., (2014) Apical microleakage of different root canal sealers after use of maleic acid and EDTA as final irrigants. *Braz Oral Res* (28):48
- Verissimo, D. M. dan Vale, M. S., (2006) Methodologies for assessment of apical and coronal leakage of endodontic filling materials: A critical review. *Journal of Oral Sciences.* 48(3): 93-98
- Walton, R. E. dan Torabinejad, M., (2009) *Endodontic Principles and Practise*. 4th ed, Saunders. Elsevier Inc. St. Lois, Missouri
- Weine, F.S., (2004) *Endodontic Therapy*, St. Louis, CV. Mosby Company
- Wintarsih, O., Patosoedarmo, M., dan Santoso, P., (2009) Kebocoran apikal pada irigasi dengan EDTA lebih kecil dibandingkan yang tanpa EDTA. *Jurnal PDGI.* 58(2): 14-19
- Wright, P. P., Kahler, B., dan Walsh, L.J., (2017) Alkaline sodium hypochlorite irrigant and its chemical interactions. *MDPI journal.* 10(1147): 1-8
- Yavuz, I. dan Aydin, A. H., (2005) New method for measurement of surface areas of microleakage at the primary teeth by biomolecule characteristics of clarkboalmethylene blue. *Biotechnol Bioeng.* 19(1): 181 – 187