

Literaturliste

Lasereinsatz in stark geschädigten endodontischen Szenarios

Miguel Rodrigues Martins, Manuel Fontes Carvalho, Irene Pina-Vaz, José Capelas, Miguel André Martins, Norbert Gutknecht

Endodontie Journal 1/2014

1. Kakehashi S, Stanley HR, Fitzgerald RJ (1965) The Effects of Surgical Exposures of Dental Pulps in Germ-Free and Conventional Laboratory Rats. *Oral Surg Oral Med Oral Pathol* 20:340-349
2. Bergenholtz G (1974) Micro-organisms from necrotic pulp of traumatized teeth. *Odontol Revy* 25 (4):347-358
3. Moller AJ, Fabricius L, Dahlen G, Ohman AE, Heyden G (1981) Influence on periapical tissues of indigenous oral bacteria and necrotic pulp tissue in monkeys. *Scand J Dent Res* 89 (6):475-484
4. Fabricius L, Dahlen G, Sundqvist G, Happonen RP, Moller AJ (2006) Influence of residual bacteria on periapical tissue healing after chemomechanical treatment and root filling of experimentally infected monkey teeth. *Eur J Oral Sci* 114 (4):278-285. doi:EOS380 [pii]10.1111/j.1600-0722.2006.00380.x
5. Engstrom B, Lundberg M (1965) The correlation between positive culture and the prognosis of root canal therapy after pulpectomy. *Odontol Revy* 16 (3):193-203
6. Sjogren U, Figdor D, Persson S, Sundqvist G (1997) Influence of infection at the time of root filling on the outcome of endodontic treatment of teeth with apical periodontitis. *Int Endod J* 30 (5):297-306
7. Katebzadeh N, Sigurdsson A, Trope M (2000) Radiographic evaluation of periapical healing after obturation of infected root canals: an in vivo study. *Int Endod J* 33 (1):60-66
8. Smith JJ, Wayman BE (1986) An evaluation of the antimicrobial effectiveness of citric acid as a root canal irrigant. *J Endod* 12 (2):54-58
9. Bystrom A, Sundqvist G (1985) The antibacterial action of sodium hypochlorite and EDTA in 60 cases of endodontic therapy. *Int Endod J* 18 (1):35-40
10. Orstavik D, Haapasalo M (1990) Disinfection by endodontic irrigants and dressings of experimentally infected dentinal tubules. *Endod Dent Traumatol* 6 (4):142-149
11. Stojicic S, Zivkovic S, Qian W, Zhang H, Haapasalo M (2010) Tissue dissolution by sodium hypochlorite: effect of concentration, temperature, agitation, and surfactant. *J Endod* 36 (9):1558-1562. doi:S0099-2399(10)00524-8 [pii]10.1016/j.joen.2010.06.021
12. Berutti E, Marini R, Angeretti A (1997) Penetration ability of different irrigants into dentinal tubules. *J Endod* 23 (12):725-727. doi:S0099-2399(97)80342-1 [pii]10.1016/S0099-2399(97)80342-1
13. Vahdaty A, Pitt Ford TR, Wilson RF (1993) Efficacy of chlorhexidine in disinfecting dentinal tubules in vitro. *Endod Dent Traumatol* 9 (6):243-248

14. Fogel HM, Pashley DH (1990) Dentin permeability: effects of endodontic procedures on root slabs. *J Endod* 16 (9):442-445. doi:S0099-2399(06)81888-1 [pii]10.1016/S0099-2399(06)81888-1
15. Drake DR, Wiemann AH, Rivera EM, Walton RE (1994) Bacterial retention in canal walls in vitro: effect of smear layer. *J Endod* 20 (2):78-82
16. Sathorn C, Parashos P, Messer HH (2005) Effectiveness of single- versus multiple-visit endodontic treatment of teeth with apical periodontitis: a systematic review and meta-analysis. *Int Endod J* 38 (6):347-355. doi:IEJ955 [pii]10.1111/j.1365-2591.2005.00955.x
17. Penesis VA, Fitzgerald PI, Fayad MI, Wenckus CS, BeGole EA, Johnson BR (2008) Outcome of one-visit and two-visit endodontic treatment of necrotic teeth with apical periodontitis: a randomized controlled trial with one-year evaluation. *J Endod* 34 (3):251-257. doi:S0099-2399(07)01167-3 [pii]10.1016/j.joen.2007.12.015
18. Siqueira JF, Jr., Lopes HP (1999) Mechanisms of antimicrobial activity of calcium hydroxide: a critical review. *Int Endod J* 32 (5):361-369
19. Dahlen G, Samuelsson W, Molander A, Reit C (2000) Identification and antimicrobial susceptibility of enterococci isolated from the root canal. *Oral Microbiol Immunol* 15 (5):309-312. doi:omi150507 [pii]
20. Azarpazhooh A, Limeback H (2008) The application of ozone in dentistry: a systematic review of literature. *J Dent* 36 (2):104-116. doi:S0300-5712(07)00241-2 [pii]10.1016/j.jdent.2007.11.008
21. Estrela C, Estrela CR, Decurcio DA, Hollanda AC, Silva JA (2007) Antimicrobial efficacy of ozonated water, gaseous ozone, sodium hypochlorite and chlorhexidine in infected human root canals. *Int Endod J* 40 (2):85-93. doi:IEJ1185 [pii]10.1111/j.1365-2591.2006.01185.x
22. Ahmad M, Pitt Ford TR, Crum LA, Walton AJ (1988) Ultrasonic debridement of root canals: acoustic cavitation and its relevance. *J Endod* 14 (10):486-493
23. Gutknecht N, van Gogswaardt D, Conrads G, Apel C, Schubert C, Lampert F (2000) Diode laser radiation and its bactericidal effect in root canal wall dentin. *J Clin Laser Med Surg* 18 (2):57-60
24. Martins MR, Carvalho MF, Vaz IP, Capelas JA, Martins MA, Gutknecht N (2013) Efficacy of Er,Cr:YSGG laser with endodontical radial firing tips on the outcome of endodontic treatment: blind randomized controlled clinical trial with six-month evaluation. *Lasers Med Sci* 28 (4):1049-1055. doi:10.1007/s10103-012-1172-6
25. Ramachandran Nair PN, Pajarola G, Schroeder HE (1996) Types and incidence of human periapical lesions obtained with extracted teeth. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 81 (1):93-102
26. Simon JH (1980) Incidence of periapical cysts in relation to the root canal. *J Endod* 6 (11):845-848. doi:S0099-2399(80)80039-2 [pii]10.1016/S0099-2399(80)80039-2
27. Goaz P, White SC (1994) *Oral radiology: principles and interpretation*. Mosby-Year Book, St. Louis
28. White SC, Sapp JP, Seto BG, Mankovich NJ (1994) Absence of radiometric differentiation between periapical cysts and granulomas. *Oral Surg Oral Med Oral Pathol* 78 (5):650-654

29. Nair PN (1998) New perspectives on radicular cysts: do they heal? *Int Endod J* 31 (3):155-160
30. Nobuhara WK, del Rio CE (1993) Incidence of periradicular pathoses in endodontic treatment failures. *J Endod* 19 (6):315-318
31. Spatafore CM, Griffin JA, Jr., Keyes GG, Wearden S, Skidmore AE (1990) Periapical biopsy report: an analysis of over a 10-year period. *J Endod* 16 (5):239-241
32. Sjogren U, Hagglund B, Sundqvist G, Wing K (1990) Factors affecting the long-term results of endodontic treatment. *J Endod* 16 (10):498-504. doi:S0099-2399(07)80180-4 [pii]10.1016/S0099-2399(07)80180-4
33. Chugal NM, Clive JM, Spangberg LS (2001) A prognostic model for assessment of the outcome of endodontic treatment: Effect of biologic and diagnostic variables. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 91 (3):342-352. doi:S1079-2104(01)17575-X [pii]10.1067/moe.2001.113106
34. Ramskold LO, Fong CD, Stromberg T (1997) Thermal effects and antibacterial properties of energy levels required to sterilize stained root canals with an Nd:YAG laser. *J Endod* 23 (2):96-100. doi:S0099-2399(97)80253-1 [pii]10.1016/S0099-2399(97)80253-1
35. Franzen R, Esteves-Oliveira M, Meister J, Wallerang A, Vanweersch L, Lampert F, Gutknecht N (2009) Decontamination of deep dentin by means of erbium, chromium:yttrium-scandium-gallium-garnet laser irradiation. *Lasers Med Sci* 24 (1):75-80. doi:10.1007/s10103-007-0522-2
36. Gutknecht N, Franzen R, Schippers M, Lampert F (2004) Bactericidal effect of a 980-nm diode laser in the root canal wall dentin of bovine teeth. *J Clin Laser Med Surg* 22 (1):9-13. doi:10.1089/104454704773660912
37. Stabholz A, Zeltser R, Sela M, Peretz B, Moshonov J, Ziskind D (2003) The use of lasers in dentistry, principles of operation and clinical applications. *Compend Contin Educ Dent* 24 (12):935-948
38. Stabholz A (2003) The role of laser technology in modern endodontics. In: Ishikawa I FJ, Aoki A (ed) *Lasers in Dentistry, revolution of dental treatment in the new millennium*, vol 1248. Elsevier Science, B.V., pp 21-27
39. Gordon W, Atabakhsh VA, Meza F, Doms A, Nissan R, Rizoju I, Stevens RH (2007) The antimicrobial efficacy of the erbium, chromium:yttrium-scandium-gallium-garnet laser with radial emitting tips on root canal dentin walls infected with *Enterococcus faecalis*. *J Am Dent Assoc* 138 (7):992-1002. doi:138/7/992 [pii]
40. Schoop U, Barylyak A, Goharkhay K, Beer F, Wernisch J, Georgopoulos A, Sperr W, Moritz A (2009) The impact of an erbium, chromium:yttrium-scandium-gallium-garnet laser with radial-firing tips on endodontic treatment. *Lasers Med Sci* 24 (1):59-65. doi:10.1007/s10103-007-0520-4
41. George R, Walsh LJ (2010) Thermal effects from modified endodontic laser tips used in the apical third of root canals with erbium-doped yttrium aluminium garnet and erbium, chromium-doped yttrium scandium gallium garnet lasers. *Photomed Laser Surg* 28 (2):161-165. doi:10.1089/pho.2008.2423

42. Blanken J, De Moor RJ, Meire M, Verdaasdonk R (2009) Laser induced explosive vapor and cavitation resulting in effective irrigation of the root canal. Part 1: a visualization study. *Lasers Surg Med* 41 (7):514-519. doi:10.1002/lsm.20798
43. De Moor RJ, Blanken J, Meire M, Verdaasdonk R (2009) Laser induced explosive vapor and cavitation resulting in effective irrigation of the root canal. Part 2: evaluation of the efficacy. *Lasers Surg Med* 41 (7):520-523. doi:10.1002/lsm.20797
44. De Moor RJ, Meire M, Goharkhay K, Moritz A, Vanobbergen J (2010) Efficacy of ultrasonic versus laser-activated irrigation to remove artificially placed dentin debris plugs. *J Endod* 36 (9):1580-1583. doi:S0099-2399(10)00510-8 [pii] 10.1016/j.joen.2010.06.007
45. Bender IB, Seltzer S (2003) Roentgenographic and direct observation of experimental lesions in bone: II. 1961. *J Endod* 29 (11):707-712; discussion 701