

**Ausgabe:** Endodontie Journal 2/2020

**Thema:** Effektive Perforationbehandlung an einem Unterkiefermolar

**Autoren:** Dr. Christoph Schoppmeier, Dr. Christoph Zirkel

---

### Literatur

- 1 Hülsmann, M.S., E, Probleme in der Endodontie. Perforationen, ed. C. Bargholz. 2007, Berlin: Quintessenz Verlag.
- 2 Tsesis, I., et al., Prevalence and associated periodontal status of teeth with root perforation: a retrospective study of 2,002 patients' medical records. J Endod, 2010. 36(5): p. 797-800.
- 3 Kvinnsland, I., et al., A clinical and roentgenological study of 55 cases of root perforation. Int Endod J, 1989. 22(2): p. 75-84.
- 4 Bargholz, C., Die klinische Anwendung von Mineral Trioxide Aggregate. Endodontie, 2004. 13: p. 225-232.
- 5 Main, C., et al., Repair of root perforations using mineral trioxide aggregate: a long-term study. J Endod, 2004. 30(2): p. 80-3.
- 6 Torabinejad, M., et al., Physical and chemical properties of a new root-end filling material. J Endod, 1995. 21(7): p. 349-53.
- 7 Zhu, Q., et al., Effect of smear layer and direction of dentinal tubules on osteoblast adhesion to human dentin tissue. J Endod, 2000. 26(6): p. 318-20.
- 8 Yaltirik, M., et al., Reactions of connective tissue to mineral trioxide aggregate and amalgam. J Endod, 2004. 30(2): p. 95-9.
- 9 Economides, N., et al., Short-term periradicular tissue response to mineral trioxide aggregate (MTA) as root-end filling material. Int Endod J, 2003. 36(1): p. 44-8.
- 10 Lemon, R.R., Nonsurgical repair of perforation defects. Internal matrix concept. Dent Clin North Am, 1992. 36(2): p. 439-57.
- 11 Bargholz, C., Perforation repair with mineral trioxide aggregate: a modified matrix concept. Int Endod J, 2005. 38(1): p. 59-69.
- 12 Ree, M. and R. Schwartz, Management of perforations: four cases from two private practices with medium- to long-term recalls. J Endod, 2012. 38(10): p. 1422-7.
- 13 Chen, I., et al., A New Calcium Silicate-based Bioceramic Material Promotes Human Osteo- and Odontogenic Stem Cell Proliferation and Survival via the Extracellular Signal-regulated Kinase Signaling Pathway. J Endod, 2016. 42(3): p. 480-6.
- 14 Kohli, M.R., et al., Spectrophotometric Analysis of Coronal Tooth Discoloration Induced by Various Bioceramic Cements and Other Endodontic Materials. J Endod, 2015. 41(11): p. 1862-6.
- 15 Pace, R., V. Giuliani, and G. Pagavino, Mineral trioxide aggregate as repair material for furcal perforation: case series. J Endod, 2008. 34(9): p. 1130-3.
- 16 Krupp, C., et al., Treatment outcome after repair of root perforations with mineral trioxide aggregate: a retrospective evaluation of 90 teeth. J Endod, 2013. 39(11): p. 1364-8.

- 17 Fuss, Z. and M. Trope, Root perforations: classification and treatment choices based on prognostic factors. *Endod Dent Traumatol*, 1996. 12(6): p. 255-64.
- 18 Asa'ad, F., Shared decision-making (SDM) in dentistry: A concise narrative review. *J Eval Clin Pract*, 2019.
- 19 Ahmad, I.A., Rubber dam usage for endodontic treatment: a review. *Int Endod J*, 2009. 42(11): p. 963-72.
- 20 Love, R.M., Bacterial adhesins--their role in tubule invasion and endodontic disease. *Aust Endod J*, 2002. 28(1): p. 25-8.
- 21 Mohammadi, Z., et al., Establishing Apical Patency: To be or not to be? *J Contemp Dent Pract*, 2017. 18(4): p. 326-329.
- 22 Senia, E.S., F.J. Marshall, and S. Rosen, The solvent action of sodium hypochlorite on pulp tissue of extracted teeth. *Oral Surg Oral Med Oral Pathol*, 1971. 31(1): p. 96-103.
- 23 Neuhaus, K.W., et al., Antibacterial Efficacy of a New Sonic Irrigation Device for Root Canal Disinfection. *J Endod*, 2016. 42(12): p. 1799-1803.
- 24 Mozo, S., et al., Effectiveness of passive ultrasonic irrigation in improving elimination of smear layer and opening dentinal tubules. *J Clin Exp Dent*, 2014. 6(1): p. e47-52.
- 25 Goldman, M., et al., New method of irrigation during endodontic treatment. *J Endod*, 1976. 2(9): p. 257-60.
- 26 Shuping, G.B., et al., Reduction of intracanal bacteria using nickel-titanium rotary instrumentation and various medications. *J Endod*, 2000. 26(12): p. 751-5.
- 27 Safavi, K.E. and F.C. Nichols, Effect of calcium hydroxide on bacterial lipopolysaccharide. *J Endod*, 1993. 19(2): p. 76-8.
- 28 Sivakumar, J.S., B.N. Suresh Kumar, and P.V. Shyamala, Role of provisional restorations in endodontic therapy. *J Pharm Bioallied Sci*, 2013. 5(Suppl 1): p. S120-4.
- 29 Goodman, A., H. Schilder, and W. Aldrich, The thermomechanical properties of gutta-percha. II. The history and molecular chemistry of gutta-percha. *Oral Surg Oral Med Oral Pathol*, 1974. 37(6): p. 954-61.
- 30 Abuhaimeed, T.S. and E.A. Abou Neel, Sodium Hypochlorite Irrigation and Its Effect on Bond Strength to Dentin. *Biomed Res Int*, 2017. 2017: p. 1930360.