

Ausgabe: Endodontie Journal 4/2019

Thema: Einsatz kalziumsilikatbasierter Materialien in der Endodontie

Autor: Dr. Andreas Simka

Literatur

1. Tabassum, S. and F.R. Khan, Failure of endodontic treatment: The usual suspects. *Eur J Dent*, 2016. 10(1): p. 144-147.
2. Torabinejad, M., T.F. Watson, and T.R. Pitt Ford, Sealing ability of a mineral trioxide aggregate when used as a root end filling material. *J Endod*, 1993. 19(12): p. 591-5.
3. Collado-Gonzalez, M., et al., Cytotoxicity of GuttaFlow Bioseal, GuttaFlow2, MTA Fillapex, and AH Plus on Human Periodontal Ligament Stem Cells. *J Endod*, 2017. 43(5): p. 816-822.
4. Szczurko, G., et al., Effect of root canal sealers on human periodontal ligament fibroblast viability: ex vivo study. *Odontology*, 2018. 106(3): p. 245-256.
5. Rodriguez-Lozano, F.J., et al., Evaluation of cytocompatibility of calcium silicate-based endodontic sealers and their effects on the biological responses of mesenchymal dental stem cells. *Int Endod J*, 2017. 50(1): p. 67-76.
6. Jung, S., et al., Evaluation of the biocompatibility of root canal sealers on human periodontal ligament cells ex vivo. *Odontology*, 2019. 107(1): p. 54-63.
7. Pairokh, M. and M. Torabinejad, Mineral trioxide aggregate: a comprehensive literature review--Part III: Clinical applications, drawbacks, and mechanism of action. *J Endod*, 2010. 36(3): p. 400-13.
8. Villa-Machado, P.A., X. Botero-Ramirez, and S.I. Tobon-Arroyave, Retrospective follow-up assessment of prognostic variables associated with the outcome of periradicular surgery. *Int Endod J*, 2013. 46(11): p. 1063-76.
9. von Arx, T., S. Hanni, and S.S. Jensen, 5-year results comparing mineral trioxide aggregate and adhesive resin composite for root-end sealing in apical surgery. *J Endod*, 2014. 40(8): p. 1077-81.
10. Tay, F.R., et al., Calcium phosphate phase transformation produced by the interaction of the portland cement component of white mineral trioxide aggregate with a phosphate-containing fluid. *J Endod*, 2007. 33(11): p. 1347-51.
11. Gandolfi, M.G., et al., Development of the foremost light-curable calcium-silicate MTA cement as root-end in oral surgery. Chemical-physical properties, bioactivity and biological behavior. *Dent Mater*, 2011. 27(7): p. e134-57.
12. Gandolfi, M.G., et al., Calcium silicate and calcium hydroxide materials for pulp capping: biointeractivity, porosity, solubility and bioactivity of current formulations. *J Appl Biomater Funct Mater*, 2015. 13(1): p. 43-60.
13. Gandolfi, M.G., et al., Setting time and expansion in different soaking media of experimental accelerated calcium-silicate cements and ProRoot MTA. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*, 2009. 108(6): p. e39-45.
14. Storm, B., et al., Setting expansion of gray and white mineral trioxide aggregate and Portland cement. *J Endod*, 2008. 34(1): p. 80-2.
15. Tingey, M.C., P. Bush, and M.S. Levine, Analysis of mineral trioxide aggregate surface when set in the presence of fetal bovine serum. *J Endod*, 2008. 34(1): p. 45-9.
16. Kang, S.H., et al., Color changes of teeth after treatment with various mineral trioxide aggregate-based materials: an ex vivo study. *J Endod*, 2015. 41(5): p. 737-41.
17. Belobrov, I. and P. Parashos, Treatment of tooth discoloration after the use of white mineral trioxide aggregate. *J Endod*, 2011. 37(7): p. 1017-20.
18. Marciano, M.A., et al., Assessment of color stability of white mineral trioxide aggregate angelus and bismuth oxide in contact with tooth structure. *J Endod*, 2014. 40(8): p. 1235-40.
19. Camilleri, J., The chemical composition of mineral trioxide aggregate. *J Conserv Dent*, 2008. 11(4): p. 141-3.

20. Camilleri, J., et al., The constitution of mineral trioxide aggregate. *Dent Mater*, 2005. 21(4): p. 297-303.
21. Marconyak, L.J., Jr., et al., A Comparison of Coronal Tooth Discoloration Elicited by Various Endodontic Reparative Materials. *J Endod*, 2016. 42(3): p. 470-3.
22. Lucas, C.P., et al., Physicochemical Properties and Dentin Bond Strength of a Tricalcium Silicate-Based Retrograde Material. *Braz Dent J*, 2017. 28(1): p. 51-56.
23. Tanalp, J., et al., Comparison of the radiopacities of different root-end filling and repair materials. *ScientificWorldJournal*, 2013. 2013: p. 594950.
24. Camilleri, J., F. Sorrentino, and D. Damidot, Investigation of the hydration and bioactivity of radiopacified tricalcium silicate cement, Biodentine and MTA Angelus. *Dent Mater*, 2013. 29(5): p. 580-93.