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Antibacterial and clinical outcome in retreatment of teeth with infection: The impact of pre-operative infection and bacterial reduction on the clinical outcome

The reported success rate of endodontic retreatment of root-filled teeth with apical periodontitis has been reported to vary from 62% to 84%. This is 10-20% lower than for initial treatment of necrotic unfilled teeth. The main goal of endodontic treatment is the elimination of the microbial load or its reduction to a level that allows healing to take place. During this presentation, potential causes of failure during endodontic (re)treatment will be discussed. Furthermore, the role of irrigation solutions such as sodium hypochlorite and chlorhexidine at various concentrations will be explored. The focus will be the translation of microbiological research findings into clinical practice. This presentation will explore the impact of preoperative infection and the efficacy of antibacterial treatment during retreatment of previously root canal treated teeth and their long-term prognosis.

Recent Publications

1. Zandi, Homan; Petronijevec, Nikola; Mdala, Ibrahimu; Kristoffersen, Anne Karin; Enersen, Morten & Rocas, Isabela N. et al (2019). Outcome of endodontic retreatment Using 2 root canal irrigants and influence of infection on healing as determined by a molecular method: A Randomized Clinical Trial. *Journal of Endodontics*. ISSN 0099-2399. 45(9), p. 1089–1098.e5.
2. Zandi, Homan; Kristoffersen, Anne Karin; Ørstavik, Dag; Rocas, Isabela; Siqueira, Jose F. & Enersen, Morten (2018). Microbial Analysis of Endodontic Infections in Root-filled Teeth with Apical Periodontitis before and after Irrigation using Pyrosequencing. *Journal of Endodontics*. ISSN 0099-2399. 44(3), p. 372–378.
3. Rodrigues, Renata Costa Val; Zandi, Homan; Kristoffersen, Anne Karin; Enersen, Morten; Mdala, Ibrahimu & Ørstavik, Dag et al. (2017). Influence of the apical preparation size and the irrigant type on bacterial reduction in root canal - treated teeth with apical periodontitis. *Journal of Endodontics*. ISSN 0099-2399. 43(7), p. 1058–1063.

Biography

Homan Zandi studied dentistry at the University of Oslo, Norway, and graduated in 1996. He received his specialist degree in Endodontics in 2003 in Oslo. He has worked as a part time clinical instructor at the Department of endodontics in Oslo since 2002. He presently teaches in clinical and surgical training of the endodontics post graduate program in Oslo. He has published articles on endotoxins in gram negative infections. He also works in a private practice limited to Endodontics.

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