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Literatur zum Artikel "AH Plus und AH Plus Jet in der praktischen Anwendung".

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3. Roggendorf M, Ebert J, Petschelt A: Microleakage of a new gutta-percha root canal filling material. *Int Endod J* 35 (2002), p. 94 - R46
4. Roggendorf M, Ebert J, Petschelt A: Do brushes have an effect on root canal cleanliness? *Dent Res* 81 (Spec Iss A) (2002) 3468
5. Roggendorf M, Ebert J, Schulz C, Petschelt A: Microleakage evaluation of polyvinylsiloxane-based endodontic filling materials using various filling methods. *J Dent Res* 82 (Spec Iss A) (2003) 0971
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7. Roggendorf M, Ebert J, Frankenberger R, Petschelt A: Apical leakage and sealer extrusion following seven different methods of sealer placement. *Int Endod J* 36 (2003), p. 941 - R62
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10. Nikolaenko SA, Lohbauer U, Roggendorf M, Petschelt A, Dasch W, Frankenberger R: Influence of c-factor and layering technique on microtensile bond strength to dentin. *Dent Mater* 20 (2004), 579-585
11. Roggendorf MJ, Ebert J, Herbstleb E, Kentsch C, Petschelt A, Frankenberger R: Apical leakage of root canal fillings under influence of contamination with different irrigating solutions. *Dtsch Zahnärztl Z* 60 (2005) Suppl. A 161 - P 184

12. Roggendorf MJ, Ebert J, Petschelt A, Frankenberger R: Epiphany - influence of cone taper and placement technique on the apical seal. *Int Endod J* 38 (2005), p. 928 - R32
13. Taranu R, Wegeger U, Roggendorf MJ, Ebert J, Petschelt A, Frankenberger R: Leakage analysis of three modern root filling materials after 90 days of storage. *Int Endod J* 38 (2005), p. 927 - R31
14. Ebert J, Roggendorf MJ, Karl C, Petschelt A, Frankenberger R: Adhesive coronal seal after different dentine pretreatment following AH Plus root canal filling. *Int Endod J* 38 (2005), p. 929 - R34
15. Mayer B, Roggendorf MJ, Ebert J, Petschelt A, Frankenberger R: Influence of sealer placement on apical sealer extrusion of two root canal sealers. *Int Endod J* 38 (2005), p. 928 - R33

Nachstehend die Literaturstellen zu FibreFill und Abstracts

Economides, N, Kokorikos, I, Kolokouris, I, Panagiotis, B and Gogos, C: Comparative study of apical sealing ability of a new resin-based root canal sealer. *J Endod* 30:6, 403-5 (2004).

The purpose of this study was to compare the microleakage of two root canal sealers, Fibrefill (resin-based sealer) and calciobiotic root canal sealer (CRCS; calcium hydroxide-based sealer), with and without the presence of smear layer. The model used for the measurement of microleakage was a fluid transport model. Sixty human extracted teeth were used in this study. The teeth were divided into four groups and treated as follows. In group A, the smear layer was left intact, and canals were obturated with gutta-percha and Fibrefill. In group B, the smear layer was removed, and canals were obturated with gutta-percha and Fibrefill. In group C, the smear layer was left intact, and the canals were obturated with gutta-percha and CRCS. In group D, the smear layer was removed, and canals were obturated with gutta-percha and CRCS. Microleakage was measured at 7 days, 1 month, and 2 months. The results showed that the Fibrefill groups with and without smear layer leaked significantly less than the CRCS groups at all experimental times. No significant difference was found between the groups of same materials, but the microleakage values were less when the smear layer was removed.

Shipper, G and Trope, M: In vitro microbial leakage of endodontically treated teeth using new and standard obturation techniques. *J Endod* 30:3, 154-8 (2004).

Coronal microbial leakage is an important cause of apical periodontitis and thus should be prevented if possible. The purpose of this study was to compare microbial leakage of new and standard obturation techniques over a 30-day period. A split chamber microbial leakage model was used in which *Streptococcus mutans* placed in the upper chamber

could reach the lower chamber only through the obturated canal. Leakage was assessed every day for 30 days. One hundred forty single-rooted human teeth were used in this study, equally split between lateral, vertical, and Obtura II condensation; SimpliFill with Obtura II condensation; FibreFill; and a combination of FibreFill and SimpliFill. Cochran-Mantel-Haenszel row mean score statistics showed a high statistical significance when all groups were compared ( $p < 0.0001$ ). Microbial leakage occurred more quickly in lateral and vertical condensation techniques compared with SimpliFill and FibreFill techniques. A combination of an apical plug of gutta-percha with SimpliFill and a FibreFill coronal seal was the best obturation technique used (SimpliFill-FibreFill group).