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Thema: Von Mythen und Dogmen im professionellen Zahnstein und Biofilmmangement

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Literatur

1. Dentino A, Lee S, Mailhot J, Hefti AF: Principles of periodontology. *Periodontol* 2000 2013; 61: 16-53
2. Ahmad Z: "Al-Zahrawi - The Father of Surgery" *ANZ Journal of Surgery*, 2007, **77** (Suppl. 1): A83, DOI: 10.1111/j.1445-2197.2007.04130.8.x)
3. Allen DL, Kerr DA.: Tissue response in the guinea pig to sterile and non-sterile calculus. *J Periodontol* 1965; 36: 121-126
4. Rabbani GM, Ash MM Jr, Caffesse R: The effectiveness of subgingival scaling and root planing in calculus removal. *J Periodontol.* 1981; 52 :119-123
5. Gellin RG, Miller MC, Javed T, Engler WO, Mishkin DJ: The effectiveness of the Titan-S sonic scaler versus curettes in the removal of subgingival calculus. A human surgical evaluation. *J Periodontol.* 1986; 57: 672-680.
6. Schwarz F, Bieling K, Venghaus S, Sculean A, Jepson S, Becker J: Influence of fluorescence-controlled Er:YAG laser radiation, the Vector system and hand instruments on periodontally diseased root surfaces in vivo. *J Clin Periodontol.*2006;33: 200-208.
7. Nyman S, Sarhead G, Ericsson J, Gottlow J, Karring: Role of "diseased" root cementum in healing following treatment of periodontal disease. An experimental study in the dog. *J Periodontal Res.* 1986; 21: 496-503
8. Aleo JJ, De Renzis FA, Farber P, Varboncoeur AP: The presence and biologic activity of cementum-bound endotoxin. *Journal of Periodontology* 1974; 45: 672-675
9. Moore J, Wilson M, Kieser JB: The distribution of bacterial lipopolysaccharide (endotoxin) in relation to periodontally involved root surfaces. *J Periodontol* 1986; 13: 748-51
10. Hughes FJ, Auger DW, Simales FC: Investigation of the distribution of cementum-associated lipopolysaccharides in periodontal disease by scanning electron microscope immunohistochemistry. *J Periodonol Res.* 1988; 23: 100- 106 et al. (1986, 1988) (Lit. Nr. 10)
11. Calabrese N, Galgut P, Morden N: Identification of *Aggregatibacter actinomycetemcomitans*, *Treponema denticola* and *Porphyromonas gingivalis* within human dental calculus: a pilot investigation. *J Int Acad Periodontol* 2007; 9: 118-128 et al. (2007) (Lit. Nr. 11)
12. Badersten A, Nilveus, R.; Egelberg J: Effect of nonsurgical periodontal therapy. II. Severely advanced periodontitis. *J Clin Periodontol* 1984; 11: 63-76.
13. Bäumer M, Kretschmar S: Ein Leitfaden für die unterstützende Parodontitistherapie (UPT). *ZMK* 2018; 34 (9):562-569
14. Graetz C, Bräuning A, Sälzer S: Biofilmmangement in Wissenschaft und Praxis. *Quintessenz Team-Journal* 2018; 48: 1-8
15. Ritz L, Hefti AF, Rateitschak KH: An in vitro investigation on the loss of root substance in scaling with various instruments. *J Clin Periodontol* 1991; 18: 643-647
16. Flemmig TF, Petersilka GJ, Mehl A, Rudiger S, Hickel R, Klaiber B: Working parameters of a sonic scaler influencing root substance removal in vitro. *Clin Oral Investig* 1997; 1: 55-60,
17. Flemmig TF, Petersilka GJ, Mehl A, Hickel R, Klaiber B: The effect of working parameters on root substance removal using a piezoelectric ultrasonic scaler in vitro. *J Periodontol* 1998a; 25: 158-163
18. Flemmig TF, Petersilka GJ, Mehl A, Hickel R, Klaiber B: Working parameters of a magnetostrictive ultrasonic scaler influencing root surface removal in vitro. *J Periodontol* 1998b; 69: 547-553

19. Haas M, Koller M, Arefnia B: Rauheit und Substanzverlust von Zahnoberflächen nach Biofilmentfernung mit unterschiedlichen Bearbeitungsverfahren. *dental journal* 2018; 04: 62-68
20. Camboni S, Donnet M: Tooth Surface Comparison after Air Polishing and Rubber Cup: A Scanning Electron Microscopy Study. *J Clin Dent* 2016; 27: 13–18
21. Wennström JL, Tomasi C, Bertelle A, Dellasega E: Full mouth ultrasonic debridement versus quadrant scaling and root planing as an initial approach in the treatment of chronic periodontitis. *J Clin Periodontol* 2005; 32: 851-859
22. Petersilka GJ, Steinmann D, Häberlein I, Heinecke A, Flemmig TF (2003b): Subgingival plaque removal in buccal and lingual sites using a novel low abrasive air-polishing powder. *Journal of Clinical Periodontology* 2003; 30: 328-333
23. Flemmig TF, Arushanov D, Daubert D, Rothen M, Mueller G, Leroux BG: Randomized controlled trial assessing efficacy and safety of glycine powder air-polishing in moderate to deep periodontal pockets. *Journal of Periodontology* 2012; 83: 444-452.
24. Hägi T, Klemensberger S, Bereiter R, Cosgarea R, Flury S, Lussi A, Sculean A, Eick S: The relative effects of Root-Debridement on Biofilm-Removal and Hard-Substance-Alterations using new in-vitro pocket model. *Journal phone* 2015; PLOS ONE/DOI:10.1371/.0131056
25. Petersilka G, Heckel R, Koch R, Ehmke B, Arweiler N: Evaluation of an ex vivo porcine model to investigate the effect of low abrasive airpolishing. *Clinical Oral Investigations*: doi.org/10.1007/s00784-018-2536-5 June 2018
26. Wennström JL, Dahlen G, Ramberg P: Subgingival debridement of periodontal pockets by air polishing in comparison with ultrasonic instrumentation during maintenance therapy. *J Clin Periodontol* 2011; 38: 820-827
27. Barnes C, Covey D., Watanabe H., Simentich B., Schulte J., Chen H.: An in vitro comparison of the effects of various Air Polishing Powders on enamel and selected esthetic restorative material. *J Clin Dent* 2014; 25:76-87
28. Bozbay E, Dominici F, Gokbuget AY, Cintan S, Guida L, Aydi MS, Mariotti A, Pilloni A: Preservation of root cementum: a comparative evaluation of power-driven versus hand instruments. *Int J Dent Hygiene* September 2016 DOI: 10.1111/idh.12249
29. Bühler J, Amato M, Weiger R, Walter C.: A systematic review on the effects of airpolishing devices on oral tissues. *Int J Dent Hygiene* 2015; DOI:10.1111/idh.12120
30. Sculean A, Bastendorf K-D, Becker C, Bush B, Einwag J, Lanoway C, Platzner U, Schmage P, Schoeneich B, Walter C, Wennström JL, Flemmig TF: A paradigm shift in mechanical biofilm management? Subgingival air polishing: a new way to improve mechanical biofilm management in the dental practice. *Quintessence International* 2013; 44: 475-477
31. Axelsson P, Lindhe J.: Effect on controlled oral hygiene procedures on caries and periodontal disease in adults. *J Clin Periodontol* 1978; 5: 133-151
32. Axelsson P, Lindhe J.: Effect of controlled oral hygiene procedures on caries and periodontal disease in adults. Results after 6 years. *J Clin Periodontol* 1981; 8: 239-248.
33. Strafela-Bastendorf N, Bastendorf KD: Professionelle Biofilmentfernung-Tipps für den Praxisalltag. *Quintessenz* 2016; 67: 1069-1075