

9 Literaturverzeichnis

- ¹ Gera I. Periodontal treatment needs in Central and Eastern Europe. *J Int Acad Periodontol.* 2000;2:120-128
- ² Micheelis, W, Reich, E. Dritte Deutsche Mundgesundheitsstudie (DMS III). Köln: Deutscher Ärzte Verlag, 1999
- ³ Fine DH. Mouthrinses as adjuncts for plaque and gingivitis management. A Status report for the American Journal of Dentistry. *Am J Dent* 1988;1:259-263
- ⁴ Listgarten MA. Formation of dental plaque and other oral biofilms. In: Newman HH, Wilson M. (eds): *Dental Plaque Revisited*. Cardiff: Bioline 1999:187-210
- ⁵ Loe H, Theilade E, Jensen SB. Experimental gingivitis in man. *J Periodontol* 1965;36:177-187
- ⁶ Theilade E, Wright WH, Jensen SB, Loe H. Experimental gingivitis in man. II. A longitudinal clinical and bacteriological investigation. *J Periodont Res* 1966;1:1-13
- ⁷ Page RC. The role of inflammatory mediators in the pathogenesis of periodontal disease. *J Periodont Res.* 1991;26:230-261
- ⁸ Bernimoulin JP. Recent concepts in plaque formation. *J Clin Periodont* 2003;30:7-9
- ⁹ Friskopp J, Isacsson C. A quantitative microradiographic study of mineral content of supragingival and subgingival calculus. *Scand J Dent Res* 1984;92:25-32
- ¹⁰ DePaola LG, Overholser CD, Meiller TF, Minah GE, Niehaus C. Chemotherapeutic inhibition of supragingival dental plaque and gingivitis development. *J Clin Periodont* 1989;16:311-315
- ¹¹ Philstrom BL, Ammons WF. Treatment of gingivitis and periodontitis. *J Periodontol* 1997;68:1246-1253
- ¹² Roberts-Harry EA, Clerehugh V. Subgingival calculus: where are we now? A comparative review. *J Clin Periodontol* 2000;13:249-257
- ¹³ O'Leary TJ. The impact of research on scaling and root planing. *J Periodontol* 1986;57:69-75
- ¹⁴ Freemann E, Pearson GP. The repositioned flap. *Ontario Dentist* 1978;55:13-17

- ¹⁵ Baderstein A, Niveus R, Egelberg J. 4-year observations of basic periodontal therapy. *J Clin Periodontol* 1987;14:438-444
- ¹⁶ Breininger DR, O'Leary TJ, Blumenshine RV. Comparative effectiveness of ultrasonic and hand scaling for the removal of subgingival plaque and calculus. *J. Periodontol* 1987;58:9-18
- ¹⁷ Lindhe J, Westfelt E, Nyman S, Socransky SS, Haffajee AD. Long-term effect of surgical/non-surgical treatment of periodontal disease. *J Clin Periodontol* 1984;11:448-458
- ¹⁸ Ramfjord SP, Caffesse RG, Morrison EC, Hill RW, Kerry GJ, Appelberry EA, Nissle RR, Stults DL. 4 modalities of periodontal treatment compared over 5 years. *J Clin Periodontol* 1987;14:445-452
- ¹⁹ Smart GJ, Wilson M, Davies EH, Kieser JB. The assessment of ultrasonic root surface debridement by determination of residual endotoxin levels. *J Clin Periodontol* 1990;17:174-178
- ²⁰ Westfelt E. Rationale of mechanical plaque control. *J Clin Periodontol* 1996;23:263-267
- ²¹ Kopic TJ, O'Leary TJ, Kafrawy AH. Total calculus removal: An attainable objective? *J Periodontol* 1990;61:16-20
- ²² Flemmig TF, Petersilka GJ, Mehl A, Hickel R, Klaiber B. Working parameters of a magnetostrictive ultrasonic scaler influencing root substance removal in vitro. *J periodontol* 1998;69:547-553
- ²³ Sherman PR, Hutchens LH Jr., Jewson LG, Moriarty JM, Greco GW, McFall WT Jr. The effectiveness of subgingival scaling and root planing. I. Clinical detection of residual calculus. *J periodontol* 1990;61:3-8
- ²⁴ Jones SJ, Lozdan J, Boyde A. Tooth surfaces treated in situ with periodontal instruments. *Br Dent J* 1972;57:57-64
- ²⁵ Walker SL, Ash MM. A study of root planing by scanning electron microscopy. *Dent Hyg* 1976;50:109-114
- ²⁶ Folwaczny M, Heym R, Mehl A, Hickel R. The effectiveness of InGaAsP diode laser radiation to detect subgingival calculus as compared to an explorer. *J Periodontol* 2004;75:744-749

- ²⁷ Ando Y, Aoki A, Watanabe H, Ishikawa I. Bactericidal effect of erbium:YAG laser on periodontopathic bacteria. *Lasers Surg Med* 1996;19:190-200
- ²⁸ Aoki A, Ando Y, Watanabe H, Ishikawa I. In vitro studies on laser scaling of subgingival calculus with an erbium:YAG laser. *J Periodontol* 1994;65:1097-1106
- ²⁹ Folwaczny M, George G, Thiele L, Mehl A, Hickel R. Root surface roughness following Er:YAG laser irradiation at different radiation energies and working tip angulations. *J Clin Periodontol* 2002;29:598-603
- ³⁰ Folwaczny M, Mehl A, Aggstaller H, Hickel R. Antimicrobial effects of 2.94 micrometer Er:YAG laser radiation on root surfaces:An in vitro study. *J Clin Periodontol* 2002;29:73-78
- ³¹ Schwarz F, Sculean A, Georg T, Reich E. Periodontal treatment with an Er:YAG laser compared to scaling and root planing. A controlled study. *J Clin Periodontol* 2001;72:361-367
- ³² Gaspirc B, Skaleric U. Morphology, chemical structure, and diffusion processes of root surface after Er:YAG and Nd:YAG laser irradiation. *J Clin Periodontol* 2001;28:508-516
- ³³ Sasaki KM, Aoki A, Ichinose S, Ishikawa I. Morphological analysis of cementum and root dentin after Er:YAG laser irradiation. *Lasers Surg Med* 2002;31:79-85
- ³⁴ Schwarz F, Putz N, Georg T, Reich E. Effect of an Er:YAG laser on periodontally involved root surfaces: An in vivo and in vitro SEM comparison. *Lasers Surg Med* 2001;29:328-335
- ³⁵ Low SB. Clinical considerations in non surgical mechanical therapy. *Periodontology* 2000 1995;9:23-26
- ³⁶ Clerehugh V, Abdeia R, Hull PS. The effect of subgingival calculus on the validity of clinical probing measurements. *J Dent* 1996;24:329-333
- ³⁷ Harten, H-U.:Physik für Mediziner; Berlin; Heidelberg; New York; London; Paris; Tokyo; Hong Kong; Barcelona; Budapest: Springer-Verlag 1995;7:342-343
- ³⁸ Gutknecht, N. Lasertherapie in der zahnärztlichen Praxis/die Anwendung unterschiedlicher Laserstypen in ihren jeweiligen Spezialgebieten. Berlin: Quintessenz-Verl., 1999

- ³⁹ Krause F, Braun A, Frentzen M. The possibility of detecting subgingival calculus by laser-fluorescence in vitro. *Lasers Med Sci* 2003;18:32-35
- ⁴⁰ Benedict HC. Note on the fluoreszenz of teeth in ultraviolet rays. *Science* 1928;68:442-444
- ⁴¹ Buchalla W, Lennon AM, Attin T. Fluorescence spectroscopy of dental calculus. *J Periodont Res* 2004;39:327-332
- ⁴² <http://de.wikipedia.org/wiki/Fluoreszenz>
- ⁴³ Braun A, Graefen O, Nolden R, Frentzen M. Comparative study of conventional caries diagnosis versus laser fluorescence measurements. *Dtsch Zahnärztl Z* 2000;55:248-251
- ⁴⁴ Lussi A, Longbottom C, Braig F, Reich E. Clinical performance of the laser-fluorescence system. Diagnodent for detection of occlusal caries. *Caries Res* 1999;33:299
- ⁴⁵ Lussi A, Imwinkelried S, Pitts NB, Longbottom C, Reich E. Performance and reproducibility of a laser fluorescence system for the detection of occlusal caries in vitro. *Caries Res* 1999;33:261-266
- ⁴⁶ Hibst R, Paulus R. Caries detection by red excited fluorescence: investigations on fluorophores. *Caries Res* 1999;33:295
- ⁴⁷ KaVo Newsletter. www.kavo.com/newsletter. KaVo Dental GmbH, Biberach August 2005
- ⁴⁸ Produktbroschüre KaVo KEY Laser® 3. KaVo Biberach
- ⁴⁹ Folwaczny M, Thiele L, Mehl A, Hickel R. The effect of working Tipp angulation on root substance removal using Er:YAG laser radiation: An in vitro study. *J Clin Periodontol* 2001;28:220-226
- ⁵⁰ Werner J. *Medizinische Statistik*. München, Wien, Baltimore; Urban&Schwarzenberg, 1984
- ⁵¹ Altman DG, Machin D, Bryant TN, Gardner MF. *Statistics with confidence*. BMJ-Books
- ⁵² Folwaczny M, Heym R, Mehl A, Hickel R. The Effectiveness of InGaAsP Diode Laser radiation to detect subgingival calculus as compared to an explorer. *J Periodontol* 2004;75:744-749

- ⁵³ Krause F, Braun A, Frentzen. The possibility of detecting subgingival calculus by laser-fluorescence in vitro. *Lasers Med Sci* 2003;18:32-35
- ⁵⁴ Folwaczny M, Heym R, Mehl R, Hickel R. Subgingival calculus detection with fluorescence induced by 655nm InGaAsP diode laser radiation. *J Periodontol* 2002;73:597-601
- ⁵⁵ Walker SL, Ash MM. A study of root planing by scanning electron microscopy. *Dent Hyg* 1976;50:109
- ⁵⁶ Otero-Cagide FJ, Long BA. Comparative in vitro effectiveness of closed root debritement with fine instruments on specific areas of mandibular first molar furcations. I. Root trunk and furcation entrance. *J Periodontol* 1997;68:1093-1097
- ⁵⁷ Sherman PR, Hutchens Jr. LH, Jewson LG, Moriarty JM, Greco GW, McFall WT. The effectiveness of subgingival scaling and root planing. I. Clinical detection of residual calculus. *J Periodontol* 1990;61:3-8
- ⁵⁸ Pippin DJ, Feil P. Interrater agreement on subgingival calculus detection following scaling. *J Dent Educ* 1992;56:322-326
- ⁵⁹ Rabbani GM, Ash MM, Caffesse RG. The effectiveness of subgingival scaling and root planing in calculus removal. *J Periodontol* 1981;52:119
- ⁶⁰ Lussi A, Imwinkelried S, Pitts NB, Longbottom C, Reich E. Performance and reproducibility of a laser fluorescence system for detection of occlusal caries in vitro. *Caries Res* 1999;33:261-266
- ⁶¹ Shi XQ, Welander U, Angmar-Ansson B. Occlusal caries detection with KaVo Diagnodent and radiography: An in vitro comparison. *Caries Res* 2000;34:151-158
- ⁶² Featherstone JDB. Caries detection and prevention with laser energy. *Dent Clin North Am* 2000;44:955-969
- ⁶³ Buchalla W, Lennon AM, Attin T. Fluorescence spectroscopy of dental calculus. *J Periodont Res* 2004;39:327-332
- ⁶⁴ Sherman PR, Hutchens Jr. LH, Jewson LG. The effectiveness of subgingival scaling and root planing II. Clinical responses related to residual calculus. *J Periodontol* 1990;61:9-15

- ⁶⁵ Fujikawa K, O'Leary TJ, Kafrawy AH. The effect of retained subgingival calculus on healing after flap surgery. *J Periodontol* 1988;59:170
- ⁶⁶ Kopic TJ, O'Leary TJ, Kafrawy AH. Total calculus removal: an attainable objective? *J Periodontol* 1990;61:16-20
- ⁶⁷ Breininger DR, O'Leary TJ, Blumenshine RVH. Comparative effectiveness of ultrasonic and hand scaling for the removal of subgingival plaque and calculus. *J Periodontol* 1987;58:9-18
- ⁶⁸ Weigel C, Bragger U, Hammerle CH, Mombelli A, Lang NP. Maintenance of new attachment 1 and 4 years following guided tissue regeneration and conventional therapy. *J Clin Periodontol* 1996;22:661-669
- ⁶⁹ Cortellini P, Paolo G, Pini Prato G, Tonetti MS. Longterm stability of clinical attachment following guided tissue regeneration and conventional therapy. *J Clin Periodontol* 1996;23:106-111