

Ausgabe: ZWP Zahnarzt Wirtschaft Praxis 11/17

Thema: Das orale Mikrobiom – Parodontitis gezielt diagnostizieren und behandeln

Autor: Dr. Sylke Dombrowa

Literatur

1. Abusleme L, Dupuy AK, Dutzan N, Silva N, Burleson J., Strausbaugh .D, Gamonal and Diaz, PI. The subgingival microbiome in health and periodontitis and its relationship with community biomass and inflammation. *The ISME Journal* 7, 1016–1025 (2013).
2. Amano A: Host-parasite interactions in periodontitis: microbial pathogenicity and innate immunity. *Periodontology* 2000 54, 9 – 14 (2010).
3. Beikler T, Karch H, Flemmig T: Wissenschaftliche Stellungnahme DGZMK: Adjuvante Antibiotika in der Parodontistherapie. *DZZ* (2003).
4. Colombo AP, Boches K, Cotton SL, Goodson JM, Kent R, Haffajee AD, Socransky S., Hasturk H, van Dyke TE, Paster B: Comparisons of Subgingival Microbial Profiles of Refractory Periodontitis, Severe Periodontitis and Periodontal Health using the Human Oral Microbe Identification Microarray (HOMIM). *J Periodontol.* 80(9), 1421–1432 (2009).
5. Diaz PI, Hoare A, Hong BY: Subgingival microbiome shifts and community dynamics in periodontal diseases. *CDA Journal* 44 (7), 421 – 435 (2016).
6. Dombrowa, S.: Sinnhaftigkeit der mikrobiologischen Diagnostik in der Therapie von Parodontitis und Periimplantitis. *ZMK* 7/8, 422 – 426 (2010).
7. Eick S, Selmann T, Pfister W: Efficacy of antibiotics to strains of periodontopathogenic bacteria within a single species biofilm – an in vitro study. *J Clin. Periodontol.* 31, 376–383 (2004).
8. Ezzo P, Cutler CW: Microorganisms as risk indicators for periodontal disease. *Periodontol.* 2000, 32, 24–35 (2003).
9. Haffajee AD, Socransky SS, Gunsolley JC: Systemic anti-infective periodontal therapy. A systemic review. *Ann Periodontol.* 8 (1) 115-81 (2003).
10. Hajishengallis G: Periodontitis: from microbial immune subversion to systemic inflammation. *Nature Reviews Immunology* 15, 30-44 (2015).
11. Hajishengallis G, Darveau RP, Curtis MA: The Keystone Pathogen Hypothesis. *Nat Rev Microbiol.* 10 (10), 717–725 (2012).
12. Herreras, D, Alonso B, León R, Roldán S, Sanz M: Antimicrobial therapy in periodontitis: the use of systemic antimicrobials against the subgingival biofilm. *J Clin Periodontol.* 35 (8), 45–66 (2008).
13. Hong BY, Furtado Araujo MV, Strausbaugh LD, Terzi E, Ioannidou E, Diaz PI: Microbiome profiles in periodontitis in relation to host and disease characteristics. *PLoS ONE* 10 (5), 1 – 14.
14. Kilian M, Chapple ILC, Hannig M, Marsh PD, Meuric V, Pedersen A M L, Tonetti M, Wade WG, Zaura E: The oral microbiome – an update for oral healthcare professionals. *British Dental Journal* (10), 657 – 666 (2016).
15. Marsh PD: Microbial ecology of dental plaque and its significance in health and disease. *Adv Dent Res* 8 (2), 263–271 (1994).
16. Marsh PD, Zaura E: Dental biofilm: ecological interactions in health and disease. *J Clin Periodontol* 44 (Suppl. 18), 12–22 (2017).

17. Palmer RJ: Composition and development of oral bacterial communities. *Periodontol* 2000 64, 3 - 24 (2014)
18. Paster BJ, Olsen I, Aas JA, Dewhirst FE: The breadth of bacterial diversity in the human periodontal pocket and other oral sites. *Periodontology* 2000 42, 80–87 (2006).
19. Position Paper: Systemic Antibiotics in Periodontics. *J. Periodontol* 75, 1553–1565 (2004).
20. Quirynen M, Mongardini C, Pauwels M, Bollen CML, van Elderle J, van Steenberghe D: One stage full- versus partial-mouth disinfection in the treatment of chronic adult or generalized early-onset periodontitis. II. Long-term impact on microbial load. *J. Periodontol* 70, 646–656 (1999).
21. Sender R, Fuchs S, Milo R: Revised Estimates for the Number of Human and Bacteria Cells in the Body. *PLoS Biol* 14(8), 1-14 (2016).
22. Shi B, Chang M, Martin J, Mitreva M, Lux R, Klokkevold P, Sodergren E, Weinstock M, Haake SK, Li H: Dynamic changes in the subgingival microbiome and their potential for diagnosis and prognosis of periodontitis. *mBio* 6(1), 1-11 (2015).
23. Socransky SS, Haffajee AD, Cugini MA, Smith C, Kent RL: Microbial complexes in subgingival plaque. *J. Clin. Periodontol.* 25, 134–144 (1998).
24. Socransky SS, Smith C, Haffajee AD: Subgingival microbial profiles in refractory periodontal disease. *J Clin Periodontol* 29, 260–268 (2002).
25. The Human Microbiome Project Consortium: Structure, function and diversity of the healthy human microbiome. *Nature* 486, 207–214 (2012).
26. Van Winkelhoff AJ, Winkel EG: Microbiological diagnostics in periodontics: biological significance and clinical validity. *Periodontology* 2000 39, 40–52 (2005).
27. Wade WG: Has the use of molecular methods for the characterization of the human oral microbiome changed our understanding of the role of bacteria in the pathogenesis of periodontal disease? *J Clin Periodontol* 38 (Suppl. 11), 7–16 (2011).