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**Thema:** Einfluss der Ernährung auf die parodontale Gesundheit

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**Literatur:**

- Baumgartner, S., Imfeld, T., Schicht, O., Rath, C., Persson, R.E., Persson, G.R., 2009. The impact of the stone age diet on gingival conditions in the absence of oral hygiene. *J. Periodontol.* 80, 759–768. doi:10.1902/jop.2009.080376
- Brexx, M.C., Fröhlicher, I., Gehr, P., Lang, N.P., 1988. Stereological observations on long-term experimental gingivitis in man. *J. Clin. Periodontol.* 15, 621–627.
- Chapple, I.L.C., 2009. Potential mechanisms underpinning the nutritional modulation of periodontal inflammation. *J Am Dent Assoc* 140, 178–184.
- Chee, B., Park, B., Fitzsimmons, T., Coates, A.M., Bartold, P.M., 2016. Omega-3 fatty acids as an adjunct for periodontal therapy-a review. *Clin Oral Investig* 20, 879–894. doi:10.1007/s00784-016-1750-2
- Cullinan, M.P., Hamlet, S.M., Westerman, B., Palmer, J.E., Faddy, M.J., Seymour, G.J., 2003. Acquisition and loss of *Porphyromonas gingivalis*, *Actinobacillus actinomycetemcomitans* and *Prevotella intermedia* over a 5-year period: effect of a triclosan/copolymer dentifrice. *J. Clin. Periodontol.* 30, 532–541.
- Dodington, D.W., Fritz, P.C., Sullivan, P.J., Ward, W.E., 2015. Higher Intakes of Fruits and Vegetables,  $\beta$ -Carotene, Vitamin C,  $\alpha$ -Tocopherol, EPA, and DHA Are Positively Associated with Periodontal Healing after Nonsurgical Periodontal Therapy in Nonsmokers but Not in Smokers. *J. Nutr.* 145, 2512–2519. doi:10.3945/jn.115.211524
- Greer, A., 2012. An anti-inflammatory diet: the next frontier in preventive medicine. *JAAPA* 25, 38, 40, 42 passim.
- Hajishengallis, G., 2014. Immunomicrobial pathogenesis of periodontitis: keystones, pathobionts, and host response. *Trends Immunol.* 35, 3–11. doi:10.1016/j.it.2013.09.001
- Hauner, H., Bechthold, A., Boeing, H., Brönstrup, A., Buyken, A., Leschik-Bonnet, E., Linseisen, J., Schulze, M., Strohm, D., Wolfram, G., 2012. Evidence-Based Guideline of the German Nutrition Society: Carbohydrate Intake and Prevention of Nutrition-Related Diseases. *Annals of Nutrition and Metabolism* 60, 1–58. doi:10.1159/000335326
- Hujoel, P., 2009. Dietary carbohydrates and dental-systemic diseases. *J. Dent. Res.* 88, 490–502. doi:10.1177/0022034509337700
- Jockel-Schneider, Y., Goßner, S.K., Petersen, N., Stölzel, P., Hägele, F., Schweiggert, R.M., Haubitz, I., Eigenthaler, M., Carle, R., Schlagenhaut, U., 2016. Stimulation of the nitrate-nitrite-NO-metabolism by repeated lettuce juice consumption decreases gingival inflammation in periodontal recall patients: a randomized, double-blinded, placebo-controlled clinical trial. *J. Clin. Periodontol.* 43, 603–608. doi:10.1111/jcpe.12542
- Löe, H., Silness, J., 1963. Periodontal Disease in pregnancy. I. Prevalence and severity. *Acta Odontol. Scand.* 21, 533–551.
- Löe, H., Theilade, E., Jensen, S.B., 1965. Experimental gingivitis in man. *J Periodontol* 36, 177–187.

- Marsh, P.D., 2006. Dental plaque as a biofilm and a microbial community - implications for health and disease. *BMC Oral Health* 6 Suppl 1, S14. doi:10.1186/1472-6831-6-S1-S14
- Merchant, A.T., Pitiphat, W., Franz, M., Joshipura, K.J., 2006. Whole-grain and fiber intakes and periodontitis risk in men. *Am. J. Clin. Nutr.* 83, 1395–1400.
- Serhan, C.N., Chiang, N., Dalli, J., 2015. The resolution code of acute inflammation: Novel pro-resolving lipid mediators in resolution. *Semin. Immunol.* 27, 200–215. doi:10.1016/j.smim.2015.03.004
- Silness, J., Løe, H., 1964. Periodontal Disease in pregnancy. II. Correlation between oral hygiene and periodontal condition. *Acta Odontol. Scand.* 22, 121–135.
- Socransky, S.S., Haffajee, A.D., 1992. The bacterial etiology of destructive periodontal disease: current concepts. *J. Periodontol.* 63, 322–331. doi:10.1902/jop.1992.63.4s.322
- Staudte, H., Kranz, S., Völpel, A., Schütze, J., Sigusch, B.W., 2012. Comparison of nutrient intake between patients with periodontitis and healthy subjects. *Quintessence Int* 43, 907–916.
- Staufenbiel, I., Weinspach, K., Förster, G., Geurtsen, W., Günay, H., 2013. Periodontal conditions in vegetarians: a clinical study. *Eur J Clin Nutr* 67, 836–840. doi:10.1038/ejcn.2013.101
- Van der Velden, U., Kuzmanova, D., Chapple, I.L.C., 2011. Micronutritional approaches to periodontal therapy. *J. Clin. Periodontol.* 38 Suppl 11, 142–158. doi:10.1111/j.1600-051X.2010.01663.x
- van Woudenberg, G.J., Theofylaktopoulou, D., Kuijsten, A., Ferreira, I., van Greevenbroek, M.M., van der Kallen, C.J., Schalkwijk, C.G., Stehouwer, C.D.A., Ocké, M.C., Nijpels, G., Dekker, J.M., Blaak, E.E., Feskens, E.J.M., 2013. Adapted dietary inflammatory index and its association with a summary score for low-grade inflammation and markers of glucose metabolism: the Cohort study on Diabetes and Atherosclerosis Maastricht (CODAM) and the Hoorn study. *Am. J. Clin. Nutr.* 98, 1533–1542. doi:10.3945/ajcn.112.056333
- Woelber, J.P., Bremer, K., Vach, K., König, D., Hellwig, E., Ratka-Krüger, P., Al-Ahmad, A., Tennert, C., 2016. An oral health optimized diet can reduce gingival and periodontal inflammation in humans - a randomized controlled pilot study. *BMC Oral Health* 17, 28. doi:10.1186/s12903-016-0257-1