

Tabakkonsum und Implantate: Was gibt es Neues?

- [1] <https://de.statista.com>, Zugriff am 23.11.2022.
- [2] [https://de.wikipedia.org/wiki/Liste der Lander nach Zigarettenkonsum](https://de.wikipedia.org/wiki/Liste_der_Lander_nach_Zigarettenkonsum), Zugriff 23.11.2022
- [3] WHO Report on the global tobacco epidemic 2021: Adressing new and emerging products. WHO: Geneva, Switzerland 2021; p.212.
- [4] Ramseier CA, Walter C. Tabakkonsum und orale Implantate. *Implantologie*. 2007; 15: 153-164
- [5] Ramseier CA, Warnakulasuriya S, Needleman IG, Gallagher JE, Lahtinen A, Ainamo A, Alajbeg I, Albert D, Al-Hazmi N, Antohe ME, Beck-Mannagetta J, Benzian H, Bergstrom J, Binnie V, Bornstein M, Buchler S, Carr A, Carrassi A, Casals Peidro E, Chapple I, Compton S, Crail J, Crews K, Davis JM, Dietrich T, Enmark B, Fine J, Gallagher J, Jenner T, Forna D, Fundak A, Gyenes M, Hovius M, Jacobs A, Kinnunen T, Knevel R, Koerber A, Labella R, Lulic M, Mattheos N, McEwen A, Ohrn K, Polychronopoulou A, Preshaw P, Radley N, Rosseel J, Schoonheim-Klein M, Suvan J, Ulbricht S, Verstappen P, Walter C, Warnakulasuriya S, Wennstrom J, Wickholm S, Zoitopoulos L. Consensus Report: 2nd European Workshop on Tobacco Prevention and Cessation for Oral Health Professionals. *Int Dent J*. 2010; 60: 3-6
- [6] Krull M, Walter C, Saxer UP, Bornstein MM, Ramseier CA. Effekte des Tabakkonsums auf die Allgemeingesundheit: relevante Kenntnisse fur die Zahnmedizin (I). *Schweiz Monatsschr Zahnmed*. 2008; 118: 525-40.
- [7] Krull M, Bornstein MM, Saxer UP, Walter C, Ramseier CA. Effekte des Tabakkonsums auf die Allgemeingesundheit: relevante Kenntnisse fur die Zahnmedizin (II). *Schweiz Monatsschr Zahnmed*. 2008; 118: 405-20.
- [8] Ramseier CA, Christen A, McGowan J, McCartan B, Minenna L, Ohrn K, Walter C. Tobacco Use Prevention and Cessation in Dental and Dental Hygiene Undergraduate Education. *Oral Health Prev Dent*. 2006; 4: 49-60.
- [9] Saxer UP, Walter C, Bornstein MM, Klingler K, Ramseier CA. Einfluss des Tabakkonsums auf das Parodont – ein Update (II) Teil 2: Klinische und radiologische Veranderungen des Parodonts sowie Folgen auf die Parodontaltherapie und orale Implantologie. *Schweiz Monatsschr Zahnmed*. 2007; 117: 153-169
- [10] Bornstein MM, Klingler K, Saxer UP, Walter C, Ramseier CA. Tabakassoziierte Veranderungen der Mundschleimhaut. *Schweiz Monatsschr Zahnmed*. 2006; 116: 1261-1274
- [11] Ramseier CA, Mattheos N, Needleman I, Watt R, Wickholm S, Co-Authors of the first European workshop`s position papers. Consensus Report. First European Workshop on Tobacco Use Prevention and Cessation for Oral Health Professionals. *Oral Health Prev Dent*. 2006; 4: 7-18
- [12] Walter C, Saxer UP, Bornstein MM, Klingler K, Ramseier CA. Einfluss des Tabakkonsums auf das Parodont – ein Update (I) Teil 1: Epidemiologische und pathogenetische Aspekte tabakbedingter Schadigungen am Parodont. *Schweiz Monatsschr Zahnmed*. 2007; 117: 45-60.
- [13] <https://pubmed.ncbi.nlm.nih.gov/>; Zugriff am 25.11.2022
- [14] Naseri R, Yaghini J, Feizi A. Levels of smoking and dental implants failure: A systematic review and meta-analysis. *J Clin Periodontol*. 2020; *J Clin Periodontol*. 2020; 47 (4): 518-528.

- [15] Mustapha AD, Salame Z, Chrcanovic BR. Smoking and Dental Implants: A Systematic Review and Meta-Analysis. *Medicina (Kaunas)*. 2021; 58 (1): 39.
- [16] Chrcanovic BR, Albrektsson T, Wennerberg A. Smoking and dental implants: A systematic review and meta-analysis. *J Dent*. 2015; 43 (5): 487-98.
- [17] Moraschini V, Barboza Ed. Success of dental implants in smokers and non-smokers: a systematic review and meta-analysis. *Int J Oral Maxillofac Surg*. 2016; 45 (2): 205-15.
- [18] Chambrone L, Preshaw PM, Ferreira JD, Rodrigues JA, Cassoni A, Shibli JA. Effects of tobacco smoking on the survival rate of dental implants placed in areas of maxillary sinus floor augmentation: a systematic review. *Clin Oral Implants Res*. 2014; 25 (4): 408-16
- [19] Alfadda SA. Current Evidence on Dental Implants Outcomes in Smokers and Nonsmokers: A Systematic Review and Meta-Analysis. *J Oral Implantol*. 2018; 44 (5): 390-399.
- [20] Dietrich T, Hoffmann K. A comprehensive index for the modeling of smoking history in periodontal research. *J Dent Res*. 2004; 83 (11): 859-863.
- [21] Ramseier CA, Mirra D, Schütz C, Sculean A, Lang NP, Walter C, Salvi GE. Bleeding on Probing as it relates to smoking status in patients enrolled in supportive periodontal therapy for at least 5 years. *J Clin Periodontol*. 2015; 42: 150-9.
- [22] Berglundh T, Lindhe J, Marinello C, Ericsson I, Liljenberg B. Soft tissue reaction to de novo plaque formation on implants and teeth. An experimental study in the dog. *Clin Oral Implants Res*. 1992; 3 (1): 1-8.
- [23] Zitzmann NU, Berglundh T, Marinello CP, Lindhe J. Experimental peri-implant mucositis in man. *J Clin Periodontol*. 2001; 28 (6): 517-523.
- [24] Tonetti MS. Risk factors for osseodisintegration. *Periodontology 2000* 1998; 17: 55-62.
- [25] Tsai CC, Chen HS, Chen SL, Ho YP, Ho KY, Wu YM, Hung CC. Lipid peroxidation: A possible role in the induction and progression of chronic periodontitis. *J Periodont Res*. 2005; 40 (5): 378-384.
- [26] Zhang J, Liu Y, Shi J, Larson DF, Watson RR. Side-stream cigarette smoke induces dose-response in systemic inflammatory cytokine production and oxidative stress. *Exp Biol Med (Maywood)*. 2002 ;227 (9) :823-829.
- [27] Hanioka T, Tanaka M, Takaya K, Matsumori Y, Shizukuishi S. Pocket oxygen tension in smokers and non-smokers with periodontal disease. *J Periodontol*. 2000; 71 (4): 550-554.
- [28] Teughels W, van Eldere J, van Steenberghe D, Cassiman JJ, Fives-Taylor P, Quirynen M. Influence of nicotine and cotinine on epithelial colonization by periodontopathogens. *J Periodontol*. 2005; 76 (8): 1315-1322.
- [29] Walter C, Purucker P, Bernimoulin JP, Suttorp N, Meyer J, Weiger R. Critical assessment of microbiological diagnostics in periodontal diseases with special focus on *Porphyromonas gingivalis*. *Schweiz Monatsschr Zahnmed*. 2005; 115 (5) :415-424.
- [30] Hollinger JO, Schmitt JM, Hwang K, Soleymani P, Buck D. Impact of nicotine on bone healing. *J Biomed Mater Res*. 1999; 45 (4): 294-301.
- [31] Nociti FH jr, Nogueira-Filho GR, Tramontina VA, Machado MA, Barros SP, Sallum EA, Sallum AW. Histometric evaluation of the effect of nicotine administration on periodontal breakdown: An in vivo study. *J Periodont Res*. 2001; 36 (6): 361-366.
- [32] Cesar Neto JB, de Souza AP, Barbieri D, Moreno H jr, Sallum EA, Nociti FH jr. Matrix metalloproteinase-2 may be involved with increased bone loss associated with experimental periodontitis and smoking: A study in rats. *J Periodontol*. 2004; 75 (7): 995-1000.
- [33] Sewon L, Laine M, Karjalainen S, Doroguinakaia A, Lehtonen-Veromaa M. Salivary calcium reflects skeletal bone density of heavy smokers. *Arch Oral Biol*. 2004 ;49 (5): 355-358.
- [34] Krall EA, Dawson-Hughes B. Smoking increases bone loss and decreases intestinal calcium absorption. *J Bone Miner Res*. 1999; 14 (2): 215-220.
- [35] Tanaka H, Tanabe N, Shoji M, Suzuki N, Katono T, Sato S, Motohashi M, Maeno M.

Nicotine and lipopolysaccharide stimulate the formation of osteoclast-like cells by increasing macrophage colony-stimulating factor and prostaglandin E2 production by osteoblasts. *Life Sci.* 2006; 78 (15): 1733-1740.

- [36] Jorde R, Stunes AK, Kubiak J, Grimnes G, Thorsby PM, Syversen U. Smoking and other determinants of bone turnover. *PLoS ONE.* 2019; 14 (11): e0225539.
- [37] Bergstrom J, Preber H. The influence of cigarette smoking on the development of experimental gingivitis. *J Periodont Res.* 1986; 21 (6): 668-676.
- [38] Dietrich T, Bernimoulin JP, Glynn RJ. The effect of cigarette smoking on gingival bleeding. *J Periodontol.* 2004; 75 (1):16- 22.
- [39] Amerio E, Blasi G, Valles C, Blanc V, Álvarez G, Arredondo A, Nart J, Monje A: Impact of smoking on peri-implant bleeding on probing. *Clin Implant Dent Relat Res.* 2022; 24 (2): 151-165.
- [40] van Winkelhoff AJ, Bosch-Tijhof CJ, Winkel EG, van der Reijden WA. Smoking affects the subgingival microflora in periodontitis. *J Periodontol.* 2001; 72 (5): 666-671.
- [41] Haffajee AD, Socransky SS. Relationship of cigarette smoking to the subgingival microbiota. *J Clin Periodontol.* 2001; 28 (5): 377-388.
- [42] Mirbod SM, Ahing SI, Pruthi VK. Immunohistochemical study of vestibular gingival blood vessel density and internal circumference in smokers and non-smokers. *J Periodontol.* 2001; 72 (10): 1318-1323.
- [43] Rezavandi K, Palmer RM, Odell EW, Scott DA, Wilson RF. Expression of ICAM-1 and E-selectin in gingival tissues of smokers and non-smokers with periodontitis. *J Oral Pathol Med.* 2002; 31 (1): 59-64.
- [44] Lindeboom JA, Mathura KR, Harkisoen S, van den Akker HP, Ince C. Effect of smoking on the gingival capillary density: assessment of gingival capillary density with orthogonal polarization spectral imaging. *J Clin Periodontol.* 2005; 32 (12): 1208-1212.
- [45] Mirbod SM, Ahing SI, V K Pruthi VK *J Periodontol* Immunohistochemical study of vestibular gingival blood vessel density and internal circumference in smokers and non-smokers. *J Periodontol.* 2001; 72 (10): 1318-23.
- [46] Güntsch A, Eler M, Preshaw PM, Sigusch BW, Klinger G, Glockmann E. Effect of smoking on crevicular polymorphonuclear neutrophil function in periodontally healthy subjects. *J Periodont Res.* 2006; 41 (3): 184-188.
- [47] Ryder MI, Wu TC, Kallaos SS, Hyun W. Alterations of neutrophil f-actin kinetics by tobacco smoke: implications for periodontal diseases. *J Periodont Res.* 2002; 37 (4): 286-292.
- [48] Pauletto NC, Liede K, Nieminen A, Larjava H, Uitto VJ. Effect of cigarette smoking on oral elastase activity in adult periodontitis patients. *J Periodontol.* 2000; 71 (1): 58-62.
- [49] Qiu F, Liang CL, Liu H, Zeng YQ, Hou S, Huang S, Lai X, Dai Z. Impacts of cigarette smoking on immune responsiveness: Up and down or upside down? *Oncotarget.* 2017; 8 (1): 268-284.
- [50] Michalowicz BS, Aeppli DP, Kuba RK, Bereuter JE, Conry JP, Segal NL, Bouchard TJ jr, Pihlstrom BL. A twin study of genetic variation in proportional radiographic alveolar bone height. *J Dent Res.* 1991; 70 (11): 1431-1435.
- [51] Michalowicz BS, Wolff LF, Klump D, Hinrichs JE, Aeppli DM, Bouchard TJ jr, Pihlstrom BL. Periodontal bacteria in adult twins. *J Periodontol.* 1999; 70 (3): 263-273.
- [52] Zitzmann NU, Walter C, Berglundh T. Ätiologie, Diagnostik und Therapie der Periimplantitis – eine Übersicht. *Dtsch Zahnärztl Z.* 2006; 61: 642-650.
- [53] Feloutzis A, Lang NP, Tonetti MS, Burgin W, Brägger U, Buser D, Duff GW, Kornman KS. IL-1 gene polymorphism and smoking as risk factors for peri-implant bone loss in a well-maintained population. *Clin Oral Implants Res.* 2003; 14 (1): 10-17.
- [54] Gruica B, Wang HY, Lang NP, Buser D. Impact of IL-1 genotype and smoking status on the prognosis of osseointegrated implants. *Clin Oral Implants Res.* 2004; 15 (4): 393-400.

- [55] Santiago Junior JF, Bigueti CC, Matsumoto MA, Abu Halawa Kudo G, Parra da Silva RB, Pinto Saraiva P, Fakhouri WD. Can Genetic Factors Compromise the Success of Dental Implants? A Systematic Review and Meta-Analysis. *Genes (Basel)*. 2018; 9 (9): 444.
- [56] Fiore MC: US public health service clinical practice guideline: treating tobacco use and dependence. *Respir Care*. 2000 ; 45: 1200-1262.
- [57] Caton JG, Armitage G, Berglundh T, Chapple ILC, Jepsen S, Kornman KS, Mealey BL, Papapanou PN, Sanz M, Tonetti MS. A new classification scheme for periodontal and peri-implant diseases and conditions - Introduction and key changes from the 1999 classification. *J Clin Periodontol*. 2018; 45 Suppl 20: S1-S8.