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Thema: Assoziation zwischen Parodontitis und Diabetes – Auswirkungen in der Patientenberatung

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Literatur

Al-Nowaiser AM, Al-Zoman H, Baskaradoss JK, Robert AA, Al-Zoman KH, Al-Sohail AM, Al-Suwayed AS, Ciancio SG, Al-Mubarak SA. Evaluation of adjunctive systemic doxycycline with non-surgical periodontal therapy within type 2 diabetic patients. Saudi Med J. 2014 Oct;35(10):1203-9.

Andriankaja OM, Joshipura K. Potential association between prediabetic conditions and gingival and/or periodontal inflammation. J Diabetes Investig. 2014 Jan 1;5(1):108-114.

Bouaziz W, Davideau JL, Tenenbaum H, Huck O. Adiposity Measurements and Non-Surgical Periodontal Therapy Outcomes. J Periodontol. 2015 Sep;86(9):1030-7.

Chapple ILC, Genco R, and on behalf of working group 2 of the joint EFP/AAP workshop. Diabetes and periodontal diseases: consensus report of the joint EFP/AAP workshop on periodontitis and systemic diseases. In: Tonetti M, Kornman KS eds. Periodontitis and Systemic Diseases – Proceedings of a workshop jointly held by the European Federation of Periodontology and American Academy of Periodontology 2013:106-112.

Chávarry NG, Vettore MV, Sansone C, Sheiham A. The relationship between diabetes mellitus and destructive periodontal disease: a meta-analysis. Oral Health Prev Dent. 2009;7(2):107-27.

Chen L, Wei B, Li J, Liu F, Xuan D, Xie B, Zhang J. Association of periodontal parameters with metabolic level and systemic inflammatory markers in patients with type 2 diabetes. J Periodontol. 2010;81:364–371.

Darré L, Vergnes JN, Gourdy P, Sixou M. Efficacy of periodontal treatment on glycaemic control in diabetic patients: A meta-analysis of interventional studies. Diabetes Metab. 2008 Nov;34(5):497-506.

Demmer RT, Desvarieux M, Holftreter B, Jacobs DR, Wallaschofski H, Nauck M, Völzke H, Kocher T. Periodontal status and A1c change. Longitudinal results from the study of health in Pomerania (SHIP). Diabetes Care 2010;33:1037-1043.

Demmer RT, Jacobs DR, Desvarieux M. Periodontal disease and incident type 2 diabetes: results from the First National Health and Nutrition Examination Survey and its epidemiologic follow-up study. Diabetes Care 2008;31:1373-1379.

Deschner J, Haak T, Jepsen S, Kocher T, Mehnert H, Meyle J, Schumm-Draeger PM, Tschöpe D. Diabetes mellitus und Parodontitis. Konsensuspapier: Wechselbeziehungen und klinische Implikation. Zahnärztliche Mitteilungen 2011;50-59 und Der Internist 2011;52:466-477.

Engelbreton S, Kocher T. Evidence that periodontal treatment improves diabetes outcomes: a systematic review and meta-analysis. J Periodontol. 2013 Apr;84(4 Suppl):S153-69.

Engelbrecht SP, Hyman LG, Michalowicz BS, Schoenfeld ER, Gelato MC, Hou W, Seaquist ER, Reddy MS, Lewis CE, Oates TW, Tripathy D, Katancik JA, Orlander PR, Paquette DW, Hanson NQ, Tsai MY. The effect of nonsurgical periodontal therapy on hemoglobin A1c levels in persons with type 2 diabetes and chronic periodontitis: a randomized clinical trial. *JAMA*. 2013 Dec 18;310(23):2523-32.

Golub LM, Elburki MS, Walker C, Ryan M, Sorsa T, Tenenbaum H, Goldberg M, Wolff M, Gu Y. Non-antibacterial tetracycline formulations: host-modulators in the treatment of periodontitis and relevant systemic diseases. *Int Dent J*. 2016 Jun;66(3):127-135.

Grossi SG, Genco RJ. Periodontal disease and diabetes mellitus: a two-way relationship. *Annals of Periodontology* 1998;3:51-61.

Grossi SG, Skrepcinski FB, DeCaro T, Robertson DC, Ho AW, Dunford RG, Genco RJ. Treatment of periodontal disease in diabetics reduces glycosylated hemoglobin. *J Periodontol*. 1997 Aug;68(8):713-9.

Gu Y, Lee HM, Sorsa T, Simon SR, Golub LM. Doxycycline [corrected] inhibits mononuclear cell-mediated connective tissue breakdown. *FEMS Immunol Med Microbiol*. 2010 Mar;58(2):218-25.

IDF Diabetes Atlas (6th ed.) International Diabetes Federation, Brussels, Belgium 2013.

Janket SJ, Wightman A, Baird AE, Van Dyke TE, Jones JA. Does periodontal treatment improve glycemic control in diabetic patients? A meta-analysis of intervention studies. *J Dent Res*. 2005 Dec;84(12):1154-9.

Kunzel C, Lalla E, Lamster I. Dentists' management of the diabetic patient: contrasting generalists and specialists. *Am J Public Health*. 2007 Apr;97(4):725-30.

Lalla E, Cheng B, Lal S, Kaplan S, Softness B, Greenberg E, Goland RS, Lamster IB. Diabetes mellitus promotes periodontal destruction in children. *J Clin Periodontol*. 2007 Apr;34(4):294-8.

Lalla E, Cheng B, Lal S, Tucker S, Greenberg E, Goland R, Lamster IB. Periodontal changes in children and adolescents with diabetes: a case-control study. *Diabetes Care*. 2006 Feb;29(2):295-9.

Lalla E, Kunzel C, Burkett S, Cheng B, Lamster IB. Identification of unrecognized diabetes and pre-diabetes in a dental setting. *J Dent Res*. 2011 Jul;90(7):855-60.

Lamster IB, Cheng B, Burkett S, Lalla E. Periodontal findings in individuals with newly identified pre-diabetes or diabetes mellitus. *J Clin Periodontol*. 2014;41:1055-60.

Liew AK, Punnanithinont N, Lee YC, Yang J. Effect of non-surgical periodontal treatment on HbA1c: a meta-analysis of randomized controlled trials. *Aust Dent J*. 2013 Sep;58(3):350-7.

Löe H. Periodontal disease. The sixth complication of diabetes mellitus. *Diabetes Care*. 1993 Jan;16(1):329-34.

Merchant AT, Pitiphat W, Rimm EB, Joshipura K. Increased physical activity decreases periodontitis risk in men. *Eur J Epidemiol*. 2003;18(9):891-8.

Morita T, Yamazaki Y, Mita A, Takada K, Seto M, Nishinoue N, Sasaki Y, Motohashi M, Maeno M. A cohort study on the association between periodontal disease and the development of metabolic syndrome. *J Periodontol*. 2010;81:512-519.

Nathan DM, Buse JB, Davidson MB, Ferrannini E, Holman RR, Sherwin R, Zinman B. Medical management of hyperglycaemia in type 2 diabetes mellitus: a consensus algorithm for the initiation and adjustment of therapy. A consensus statement from the American Diabetes Association and the European Association for the Study of Diabetes. *Diabetologia* 2008;52:17-30.

Ramamurthy NS, Zebrowski EJ, Golub LM. Collagenolytic activity of gingivae from alloxan-diabetic rats. *Diabetes* 1973 22: 272–274.

Ryan ME, Ramamurthy NS, Golub LM. Tetracyclines inhibit protein glycation in experimental diabetes. *Adv Dent Res* 1998;12:152-158.

Saito T, Shimazaki Y, Kiyohara Y, Kato I, Kubo M, Iida M, Koga T. The severity of periodontal disease is associated with the development of glucose intolerance in non-diabetics: the Hisayama study. *J Dent Res*. 2004;83:485-490.

Saito T, Shimazaki Y. Metabolic disorders related to obesity and periodontal disease. *Periodontol* 2000. 2007;43:254-66.

Santos CMML, Lira-Junior R, Fischer RG, Santos APP, Oliveira BH. Systemic Antibiotics in Periodontal Treatment of Diabetic Patients: A Systematic Review. *PLoS ONE* 2015;10(12): e0145262. doi:10.1371/journal.pone.0145262.

Schnell S, Hahner P, Gaßmann G. Information of diabetes patients on the risk of periodontitis by general practitioners and diabetologists. Posterpräsentation, 20th International Symposium on Dental Hygiene 23.-26.06.2016, Basel.

Sgolastra F, Severino M, Pietropaoli D, Gatto R, Monaco A. Effectiveness of periodontal treatment to improve metabolic control in patients with chronic periodontitis and type 2 diabetes: a meta-analysis of randomized clinical trials. *J Periodontol*. 2013 Jul;84(7):958-73.

Simpson TC, Needleman I, Wild SH, Moles DR, Mills EJ. Treatment of periodontal disease for glycaemic control in people with diabetes. *Cochrane Database Syst Rev*. 2010 May 12;(5):CD004714.

Simpson TC, Weldon JC, Worthington HV, Needleman I, Wild SH, Moles DR, Stevenson B, Furness S, Iheozor-Ejiofor Z. Treatment of periodontal disease for glycaemic control in people with diabetes mellitus. *Cochrane Database Syst Rev*. 2015 Nov 6;(11):CD004714.

Suvan JE, Petrie A, Nibali L, Darbar U, Rakmanee T, Donos N, D'Aiuto F. Association between overweight/obesity and increased risk of periodontitis. *J Clin Periodontol*. 2015;42:733-739.

Tamayo T, Rathmann W. Epidemiologie des Diabetes in Deutschland. In: *Deutscher Gesundheitsbericht Diabetes 2015*, hrsg. von diabetesDe – Deutsche Diabetes-Hilfe 2015:8-16.

Tamayo T, Rosenbauer J, Wild SH, Spijkerman AM, Baan C, Forouhi NG, Herder C, Rathmann W. Diabetes in Europe: an update. *Diabetes Res Clin Pract* 2014;103:206-217.

Taylor GW, Burt BA, Becker MP, Genco RJ, Shlossman M. Glycemic control and alveolar bone loss progression in type 2 diabetes. *Ann Periodontol*. 1998 Jul;3(1):30-9.

Teeuw WJ, Gerdes VE, Loos BG. Effect of periodontal treatment on glycemic control of diabetic patients: a systematic review and meta-analysis. *Diabetes Care*. 2010 Feb;33(2):421-7.