

Literatur

“Wechselwirkungen von rheumatoider Arthritis und Parodontitis“

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- [1] Aas JA, Paster BJ, Stokes LN, Olsen I, Dewhirst FE. Defining the normal bacterial flora of the oral cavity. *J Clin Microbiol.* 2005 Nov;43(11):5721-32.
- [2] Almståhl A, Wikström M. Microflora in oral ecosystems in subjects with hyposalivation due to medicines or of unknown origin. *Oral Health Prev Dent.* 2005;3(2):67–76.
- [3] Al-Nawas B, Grötz KA. Risikopatienten in der zahnärztlichen Praxis. *Bundesgesundheitsbl.* 2011;54(9-10):1066–72.
- [4] Bertsche T, Schulz M. Adalimumab - humaner Antikörper gegen TNF- α . *Pharmazeutische Zeitung* 2004;149(6)
- [5] Biyikoğlu B, Buduneli N, Aksu K, Nalbantsoy A, Lappin DF, Evrenosoğlu E, Kinane DF. Periodontal therapy in chronic periodontitis lowers gingival crevicular fluid interleukin-1beta and DAS28 in rheumatoid arthritis patients. *Rheumatol Int.* 2013;33(10):2607–16.
- [6] Blaizot A, Monsarrat P, Constantin A, Vergnes JN, de Grado GF, Nabet C, Cantagrel A, Sixou M. Oral health-related quality of life among outpatients with rheumatoid arthritis. *Int Dent J.* 2013;63(3):145–53.
- [7] Boehnke WH, Radeke HH (2007). *Biologics in General Medicine.* Berlin, Heidelberg, Springer Verlag.
- [8] Calderaro DC, Corrêa JD, Ferreira GA, Barbosa IG, Martins CC, Silva TA, Teixeira AL. Influence of periodontal treatment on rheumatoid arthritis: a systematic review and meta-analysis. *Rev Bras Reumatol.* 2016 Nov 26. pii: S0482-5004(16)30144-9. doi: 10.1016/j.rbr.2016.10.002. [Epub ahead of print]
- [9] Cimasoni G., *Crevicular Fluid Update.* (1983): Basel. Karger
- [10] Darveau, RP. Periodontitis: a polymicrobial disruption of host homeostasis. *Nature Reviews Microbiology* 2010;8(7):481-490.
- [11] Deschner J, Eick S. Ätiologie und Pathogenese der Parodontitis. *zm* 2011;101(10A):42-46.
- [12] Detert J, Pischon N, Burmester GR, Buttgerit F. Pathogenese der Parodontitis bei rheumatischen Erkrankungen. *Z Rheumatol* 2010(69):109–16.
- [13] Detert J, Pischon N, Burmester GR, Buttgerit F. The association between rheumatoid arthritis and periodontal disease. *Arthritis Res Ther.* 2010;12(5):218.
- [14] Deutsche Gesellschaft für Parodontologie. (2011): *Parodontitis 2010. Das Risikokompandium.* Berlin: Quintessenz Verlags-GmbH.

- [15] Engelberg J., The topography and permeability of vessels at the dentogingival junction in dogs. *J Periodont Res* 1967;38:380-387.
- [16] Erciyas K, Sezer U, Ustün K, Pehlivan Y, Kisacik B, Senyurt SZ, Tarakçioğlu M, Onat AM. Effects of periodontal therapy on disease activity and systemic inflammation in rheumatoid arthritis patients. *Oral Dis.* 2013;19(4):394–400.
- [17] Feist E, Dörner T, Hansen A. Indikation und Option neuer immunmodulatorischer Therapien beim Sjögren-Syndrom. *Zeitschrift für Rheumatologie.* 2007;66(8)679–85.
- [18] Forster A. (2010): Aktuelle Aspekte in der Therapie der rheumatoiden Arthritis, 2. Auflage; Bremen, London, Boston, UNI-MED Verlag AG
- [19] Gleissner C, Kaesser U, Dehne F, Bolten WW, Willershausen B. Temporomandibular joint function in patients with longstanding rheumatoid arthritis – I. Role of periodontal status and prosthetic care – a clinical study. *Eur J Med Res.* 2003;8(3):98–108.
- [20] Gruber A, Donhauser-Gruber U (2013). *Rheuma . Untersuchen und Behandeln entzündlich- rheumatischer Erkrankungen*, Stuttgart, Thieme Verlag
- [21] György B, Tóth E, Tarcsa E, Falus A, Buzás EI. Citrullination: a posttranslational modification in health and disease. *Int J Biochem Cell Biol.* 2006;38(10):1662-77.
- [22] Hellwig E, Klimek J, Attin T (2012): Einführung in die Zahnerhaltung Prüfungswissen Kariologie, Endodontologie und Parodontologie. Köln. Deutscher Zahnärzte Verlag
- [23] Ide M, Papapanou PN. Epidemiology of association between maternal periodontal disease and adverse pregnancy outcomes-systematic review. *J Clin Periodontol.* 2013;40(Suppl 14):181–94.
- [24] Kässer UR, Gleissner C, Dehne F, Michel A, Willershausen-Zönnchen B, Bolten WW. Risk for periodontal disease in patients with longstanding rheumatoid arthritis. *Arthritis Rheum.* 1997;40(12):2248–51.
- [25] Kaur S, Bright R, Proudman SM, Bartold PM. Does periodontal treatment influence clinical and biochemical measures for rheumatoid arthritis? A systematic review and meta-analysis. *Semin Arthritis Rheum.* 2014 Oct;44(2):113-22.
- [26] Keijser BJ, Zaura E, Huse SM, van der Vossen JM, Schuren FH, Montijn RC, ten Cate JM, Crielaard W. Pyrosequencing analysis of the oral microflora of healthy adults. *J Dent Res.* 2008 Nov;87(11):1016-20.
- [27] Kirchner A, Jäger J, Krohn-Grimberghe B, Patschan S, Kottmann T, Schmalz G, Mausberg RF, Haak R, Ziebolz D. Active matrix metalloproteinase-8 and periodontal bacteria depending on periodontal status in patients with rheumatoid arthritis. *J Periodontal Res.* 2017 Mar 21. doi: 10.1111/jre.12443. [Epub ahead of print]

- [28] Kobayashi T1, Yokoyama T, Ito S, Kobayashi D, Yamagata A, Okada M, Oofusa K, Narita I, Murasawa A, Nakazono K, Yoshie H. Periodontal and serum protein profiles in patients with rheumatoid arthritis treated with tumor necrosis factor inhibitor adalimumab. *J Periodontol* 2014 Nov;85(11):1480-8.
- [29] König MF, Abusleme L, Reinholdt J, Palmer RJ, Teles RP, Sampson K, Rosen A, Nigrovic PA, Sokolove J, Giles JT, Moutsopoulos NM, Andrade F. Aggregatibacter actinomycetemcomitans-induced hypercitrullination links periodontal infection to autoimmunity in rheumatoid arthritis. *Sci Transl Med*. 2016 Dec 14;8(369):369ra176.
- [30] Koziel J, Mydel P, Potempa J. The link between periodontal disease and rheumatoid arthritis: an updated review. *Curr Rheumatol Rep*. 2014;16(3):408.
- [31] Lee DM, Weinblatt ME: Rheumatoid arthritis *The Lancet* 2001 358 (15):903-11
- [32] Lindhe J, Karring T, Araújo M. (2015): Anatomy of periodontal tissues. In: Lang NP, Lindhe J, (Hrsg.) *Clinical periodontology and implant dentistry*. 6. Auflage, Chichester; John Wiley and Sons, 3
- [33] Linden GJ, Herzberg MC. working group 4 of the joint EFP/AAP workshop. Periodontitis and systemic diseases: a record of discussions of working group 4 of the Joint EFP/AAP Workshop on Periodontitis and Systemic Diseases. *J Periodontol*. 2013;84(Suppl 4):20–3.
- [34] Lipsky PE, Van der Heijde DMFM, St. Clair EW, Furst DE, Breedveld FC et al.. Infliximab and methotrexate in the treatment of rheumatoid arthritis. *N Engl J Med* 2000 (343): 1594-02
- [35] Lundberg K, Wegner N, Yucel-Lindberg T, Venables PJ. Periodontitis in RA – the citrullinated enolase connection. *Nat Rev Rheumatol*. 2010;6(12):727–30.
- [36] Maini R, St.Clair EW, Breedveld F, Furst D, Kalden J et al..Infliximab (chimeric anti-tumour- necrosis factor α monoclonal antibody) versus placebo in rheumatoid arthritis patients receiving concomitant methotrexate: a randomized phase III trial. *Lancet* 1999 (354): 1932-39
- [37] Manger, B./Schulze-Koops, H. (2012): *Checkliste Rheumatologie*. 4. Auflage. Stuttgart: Georg Thieme Verlag. S. 121.
- [38] Mayer Y, Balbir-Gurman A, Machtei EE. Anti-tumor necrosis factor-alpha therapy and periodontal parameters in patients with rheumatoid arthritis. *J Periodontol* 2009 Sep;80(9):1414-20
- [39] Mengel R, Flores-de-Jacoby L (2009): Ätiologie und Pathogenese entzündlicher parodontaler Erkrankungen. In *Lehrbuch der klinischen Parodontologie*. Mutschelknauss RE (Hrsg.), Berlin, Quintessenz-Verlags-GmbH:95-135
- [40] Mercado F, Marshall RI, Klestov AC, Bartold PM. Is there a relationship between rheumatoid arthritis and periodontal disease? *J Clin Periodontol*. 2000;27(4):267–72.

- [41] Mercado FB, Marshall RI, Bartold PM. Interrelationships between rheumatoid arthritis and periodontal disease. A review. *J Clin Periodontol*. 2003;30(9):761–72.
- [42] Moen K, Brun JG, Madland TM, Tynning T, Jonsson R. Immunoglobulin G and Antibody responses to *Bacteroides forsythus* and *Prevotella intermedia* in sera and synovial fluids of arthritis patients. *Clin Diagn Lab Immunol*. 2003;10(6):1043–50.
- [43] Niethard, F. U./Pfeil, J./Bibertahler, P. (2009): Orthopädie und Unfallchirurgie. 6. vollständig überarbeitete und erweiterte Auflage. Stuttgart: Georg Thieme Verlag.
- [44] Offenbacher, S., Periodontal diseases: pathogenesis. *Ann Periodontol*, 1996. 1(1):821-78.
- [45] Okada M, Kobayashi T, Ito S, Yokoyama T, Abe A, Murasawa A, Yoshie H. Periodontal treatment decreases levels of antibodies to *Porphyromonas gingivalis* and citrulline in patients with rheumatoid arthritis and periodontitis. *J Periodontol*. 2013;84(12):74–84.
- [46] Page, R.C., et al., Advances in the pathogenesis of periodontitis: summary of developments, clinical implications and future directions. *Periodontol 2000*, 1997. 14: p. 216-48.
- [47] Payne JB, Golub LM, Thiele GM, Mikuls TR. The Link Between Periodontitis and Rheumatoid Arthritis: A Periodontist's Perspective. *Curr Oral Health Rep*. 2015;2(1):20–29.
- [48] Pers JO, Saraux A, Pierre R, Youinou P. Anti-TNF-alpha immunotherapy is associated with increased gingival inflammation without clinical attachment loss in subjects with rheumatoid arthritis. *J Periodontol* 2008 79(9):1645-51
- [49] Pinho Mde N, Oliveira RD, Novaes AB Jr, Voltarelli JC. Relationship between periodontitis and rheumatoid arthritis and the effect of non-surgical periodontal treatment. *Braz Dent J*. 2009;20(5):355–64.
- [50] Pöllänen MT, Paino A, Ihalin R: Environment stimulates biofilm formation and the virulence of periodontal pathogens. *Int J Mol Sci*. 2013 Aug 20;14(8):17221-37
- [51] Puchner R, (2012) *Rheumatologie aus der Praxis. Ein Kurzlehrbuch der entzündlichen Gelenkerkrankungen mit Fallbeispielen*. 2. Auflage Wien, Springer Verlag
- [52] Raeste, A.M., T. Tapanila, and R. Tupakka, Leukocyte migration into the healthy dentulous mouth. A study in children, adolescents and adults. *J Periodontal Res*, 1977. 12(6): p. 444-9.
- [53] Rosenstein ED, Greenwald RA, Kushner LJ, Weissmann G. Hypothesis: the humoral immune response to oral bacteria provides a stimulus for the development of rheumatoid arthritis. *Inflammation*. 2004 Dec;28(6):311-8.
- [54] Routsias JG, Goules JD, Goules A, Charalampakis G, Pikazis D. Autopathogenic correlation of periodontitis and rheumatoid arthritis. *Rheumatology (Oxford)*. 2011;50(7):1189–93.

- [55] Savioli C, Ribeiro ACM, Campos Fabri GM, Calich AL, Carvalho J, Silva CA, Viana VST, Bonfa´E, and Tadeu T J. Siqueira. Persistent Periodontal Disease Hampers Anti-Tumor Necrosis Factor Treatment Response in Rheumatoid Arthritis. *J Clin Rheumatol* 2012(18):180-84
- [56] Scher JU, Abramson SB. Periodontal disease, *Porphyromonas gingivalis*, and rheumatoid arthritis: what triggers autoimmunity and clinical disease? *Arthrit Res Ther.* 2013;15(5):122.
- [57] Schett G (2003): Die Rolle von Osteoklasten bei der arthritischen Knochenerosion *Journal für Mineralstoffwechsel Zeitschrift für Knochen- und Gelenkserkrankungen Orthopädie Osteologie Rheumatologie* 2003;10 (3):6-9.
- [58] Schifferle, R.E., et al., Activation of serum complement by polysaccharide-containing antigens of *Porphyromonas gingivalis*. *J Periodontal Res*, 1993. 28(4): p. 248-54.
- [59] Schmickler J, Rupprecht A, Patschan S, Patschan D, Müller GA, Haak R, Mausberg RF, Schmalz G, Kottmann T, Ziebolz D. Cross-Sectional Evaluation of Periodontal Status and Microbiologic and Rheumatoid Parameters in a Large Cohort of Patients With Rheumatoid Arthritis. *J Periodontol.* 2017 Apr;88(4):368-379.
- [60] Schneider, M./Lelgemann, M./Abholz, H. H./Blumenroth, M./Flügge, C./Gerken, M./Jäniche, H./Kunz, R./Krüger, K./Mau, W./Specker, C./Zellner, M. (2011): Interdisziplinäre Leitlinie-Management der frühen rheumatoiden Arthritis. 3. überarbeitete und erweiterte Auflage. Berlin/Heidelberg: Springer Verlag. S. 14–16.
- [61] Schütt S. Parodontitis – eine immunologische Erkrankung mit genetischer Komponente. *ZWR* 2011;120(3):94-101.
- [62] Scott DL, Kingsley GH. Tumor necrosis factor inhibitors for rheumatoid arthritis. *N Engl J Med* 2006 (355): 704-12.
- [63] Seymour GJ, Trombelli L, Berglundh T. (2015): Pathogenesis of Gingivitis. In: Lang NP, Lindhe J (Hrsg.), *Clinical Periodontology and Implant Dentistry*. 6. Auflage, Chichester; John Wiley and Sons, 2015
- [64] Sjöström L, Laurell L, Hugoson A, Håkansson JP. Periodontal conditions in adults with rheumatoid arthritis. *Community Dent Oral Epidemiol.* 1989;17(5):234–6.
- [65] Stein JM (2012): *Moderne Parodontologie in der Praxis*. Band 1: Grundlagen, Klassifikation und Diagnostik. Balingen, Spitta-Verlag
- [66] Tang Q, Fu H, Qin B, Hu Z, Liu Y, Liang Y, Zhou L, Yang Z, Zhong R. A Possible Link Between Rheumatoid Arthritis and Periodontitis: A Systematic Review and Meta-analysis. *Int J Periodontics Restorative Dent.* 2017 Jan/Feb;37(1):79-86.
- [67] Tonetti MS, Van Dyke TE; Working group 1 of the joint EFP/AAP workshop. Periodontitis and atherosclerotic cardiovascular disease: consensus report of the Joint

EFP/AAP Workshop on Periodontitis and Systemic Diseases. J ClinPeriodontol. 2013;40(Suppl 14):S24–9.

[68] URL:<https://www.rheuma-online.de/medikamente/adalimumab-humira/info/was-unterscheidet-humira-von-anderen-tnf-alpha-blockern/> [letzter Zugriff 03.06.2016]

[69] URL:http://www.kbv.de/media/sp/Biologische_DMARDs.pdf [letzter Zugriff 18.04.2017]

[70] URL:http://www.arznei-telegramm.de/html/2003_10/0310091_01.html [letzter Zugriff 03.06.2016]

[71] URL:http://www.pharmazeutische-zeitung.de/index.php?id=pharm5_06_2004 [letzter Zugriff 03.06.2016]

[72] Waltering I, Rech J (2013). Rheumatoide Arthritis Vorträge und Arbeitsunterlagen der Fortbildungsveranstaltung im Frühjahr 2013 in Nürnberg, Würzburg, München, Kempten, Rosenheim, Passau, Bayreuth und Regensburg Schriftenreihe der Bayerischen Landesapothekenkammer Heft 86, Eschborn, Govi- Verlag

[73] Wehling M et al. Klinische Pharmakologie (2011). 2., überarbeitete Auflage, Stuttgart, New York, Thieme Verlag

[74] Weinberg JM, Buchholz R (2006) Milestones in Drug Therapy TNF-alpha Inhibitors, Basel, Birkhäuser Verlag

[75] Wolff B, Berger T, Frese C, Max R, Blank N, Lorenz HM, Wolff D. Oral status in patients with early rheumatoid arthritis: a prospective, case-control study. Rheumatology (Oxford). 2014;53(3):526–31.