

FDOK – Die versteckte Entzündung im Kieferknochen

Über eine vielfach unbekannte Pathologie in der Zahnmedizin

Dr. med. dent. Johanna Graf
Schäfflerstraße 15
94315 Straubing | Deutschland
www.praxis-dr-graf.de

Literatur

- Beauchamp R, Bus JS, Popp JA, et al. A critical review of the literature on hydrogen sulphide toxicity. *CRC Crit Rev Toxicol* 1984; 13: 25–97.
- Bouquot JE. Neuralgia-inducing cavitation osteonecrosis (NICO). *Oral Surg Oral Med Oral Pathol* 1992; 73: 307–319.
- Bouquot JE, Christian J. Longterm effects of jawbone curettage on the pain of facial neuralgia. *J Oral Maxillofac Surg* 1995; 53: 387–397.
- Bouquot J, Martin W, Wroblewski G. Computer-based thru transmission sonography (CTS) imaging of ischemic osteonecrosis of the jaws – a preliminary investigation of 6 cadaver jaws and 15 pain patients. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2001; 92: 550.
- Bouquot JE, McMahon RE. Ischemic osteonecrosis in facial pain syndromes; a review of NICO (neuralgia-inducing cavitation osteonecrosis) based on experience with more than 2,000 patients. *TM Diary* 1996; 8:32–39.
- Bouquot JE, Roberts AM, Person P. Neuralgia-inducing Cavitation Osteonecrosis (NICO): Osteomyelitis in 224 jawbone samples from patients with facial neuralgias. *Oral Surg Oral Med Oral Pathol* 1992; 73: 307–319.
- Bouquot JE, Roberts AM, Person P. Neuralgia-inducing cavitation Osteonecrosis (NICO): Osteomyelitis in 224 jawbone samples from patients with facial neuralgias. *Oral Surg Oral Med Oral Pathol* 1992; 73: 312–315.
- Bouquot JE, Shankland WE II, Margolis M, et al. Throughtransmission alveolar ultrasonography (TAU) – new technology for detection of low bone density of the jaws. Comparison with radiology for 92 osteoporotic alveolar sites with histopathologic confirmation. Proceedings, annual meeting, American Academy of Oral & Maxillofacial Pathology, New Orleans, April, 2002.
- Bouquot JE, Shankland WE II, Margolis M. Th roughtransmission alveolar ultrasonography (TAU) – new technology for evaluation of bone density and desiccation. Comparison with radiology of 170 biopsied alveolar sites of osteoporotic and ischemic disease. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2002; 93.
- Djouina et al. Gene/environment interaction in the susceptibility of Crohn`s disease patients to aluminium. *Sci Total Environ* 2022 850:158017
- Donlon, WC. Invited Commentary on Neuralgia-inducing Cavitation Osteonecrosis. *Oral Surg Oral Med Oral Pathol* März 1992; 73(3): 319–320.
- Fu et al. Association of urinary heavy metals co-exposure and adult depression: Modification of physical activity neurotoxicology 2023. 95:117-126
- Hannah RS. Chronic exposure to low concentrations of hydrogen sulfide produces abnormal growth in developing cerebellar Purkinje cells. *Neurosci Lett* 1991; 28: 225–228.
- Hannah RS, Hajden RJ, Roth SH. Hydrogen sulfide exposure alters the amino acid content in developing rat CNS. *Neurosci Lett* 1989; 99: 323–327.
- He L, Lin Y, Hu X, et al. We. A comparative study of platelet-rich fibrin (PRF) and platelet-rich plasma (PRP) on the effect of proliferation and differentiation of rat osteoblasts in vitro. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 2009; 108(5): 707–13.
- Kimura Y, et al. Mast cells and T cells in Kimura's disease express increased levels of interleukin-4, interleukin-5, eosinophil and RANTES. *Clin Exp Allergy* 2002; 32: 1787–1793.
- May CA. Wissenschaft liches Gutachten. Anlass: Beschlüsse des Beratungsforums für Gebührenordnungsfragen, im Besonderen Beschluss Nr. 32 (Stand Dezember 2020): Auftrag: Das hier vorgelegte Gutachten soll Stellung nehmen zu der Frage, wie weit die in o.g. Beschluss Nr. 32 aufgestellten Behauptungen wissenschaft lich fundiert und sachlich richtig sind und einem medizinisch angemessenem Hintergrund im Interesse qualifizierter Patientenversorgung entsprechen. Technische Universität Dresden: Medizinische Fakultät Carl Gustav Carus, Institut für Anatomie, 26. Feb. 2021.
- Lechner J. Gesichtsschmerz aus zahnärztlicher Sicht– Eine Replik. *ZWR* 2009; 118: 32–38.
- Lechner J. Kavitätenbildende Osteolysen des Kieferknochens, München: Eigenverlag, 2011.
- Lechner J. Neuralgie induzierende Hohlraumbildende Osteonekrosen (NICO) – Immunmediatoren und Systementgleisungen, UMG 2/2011.
- Lechner J. Chronic osteonecrosis of jawbone (NICO): Unknown trigger for systemic disease and a possible new integrative approach? *J Altern Med Res* 2013; 5(3): 243–250.

- Lechner J. Validation of dental X-ray by cytokine RANTES – comparison of X-ray findings with cytokine overexpression in jawbone. *Clin Cosmet Investig Dent* 2014; 6: 71–79.
- Lechner J. Cytokine RANTES zur Validierung zahnärztlicher Röntgendiagnostik bei „silent inflammation“ im Kieferknochen – Klinischer Vergleich von Röntgen und Zytokinprofil bei chronischen Osteolysen des Kieferknochens. *ZWR* 2015; 124: 216–221.
- Lechner J. Lokale RANTES/CCL5-Expression in „silent inflammation“ des Kieferknochens und Systemvernetzung – Gibt es eine Verbindung von „Kieferstörfeld“ zur Organerkrankung? *ZWR* 2018; 600–604.
- Lechner J. Aseptisch-avaskuläre Osteonekrose. *Syst.oral. med.* 7.Jg; 1/18, S. 11–14.
- Lechner J. Kieferrestostitis und NICO; umwelt-medizingesellschaft 31 2/18, S. 22–24.
- Lechner J, Bouquot JE. Maxillo-Mandibuläre Osteoimmunologie der Kavitätenbildenden Osteolysen. München, 2017.
- Lechner J, Mayer W. Immune messengers in Neuralgia Inducing Cavitation Necrosis (NICO) in jaw bone and systemic interference. *Eur J Integr Med* 2010; 2: 71–77.
- Lechner J, Rudi T von Baehr V. Osteoimmunology of tumor necrosis factor-alpha, IL-6 and RANTES/CCL5: a review of known and poorly understood inflammatory patterns in osteonecrosis. *Clinical, Cosmetic and Investigational Dentistry* 2018; 10: 251–262. DOI:10.2147/CCIDE.S. 184498.
- Lechner J, Schulz T, von Baehr V. Immunohistological staining of unknown chemokine RANTES/CCL5 expression in jawbone marrow defects-osteoimmunology and disruption of bone remodeling in clinical case studies targeting on predictive preventive personalized medicine. *EPMA Journal* 10 (2019) 351–364.
- Lechner J, von Baehr V. RANTES and fibroblast growth factor 2 in jawbone cavitations: trigger for system disease? *Int J Gen Med* 2013; 6: 277–290.
- Lechner J., von Baehr V. Hyperactive signaling pathways of chemokine RANTES/CCL5 in osteopathies of jawbone in breast cancer patients – case report and research. *Breast Cancer: Basic and Clinical Research* 2014;8: 89–96.
- Lechner J, von Baehr V. Peripheral Neuropathic Facial/ Trigeminal Pain and RANTES/CCL5 in Jawbone Cavitation, Evidence-Based Complementary and Alternative Medicine, vol. 2015, Article ID 582520. DOI:10.1155/2015/582520.
- Lechner J, von Baehr V. Silent Inflammation in the Jaw and Neurological Dysregulation – Case Study Linking Rantes/ Ccl5 Overexpression in Jawbone with Chemokine Receptors in the Central Nervous System. *Journal of Dental and Oral Health* 2017; 3: 068.
- Rathanaswami P et al. Expression of the cytokine RANTES in human rheumatoid synovial fibroblasts. Differential regulation of RANTES and interleukin-8 genes by inflammatory cytokines. *J Biol Chem* 1993;268: 5834–5839.