

LITERATUR

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Thema: Erfolgreiche Behandlung eines Periimplantitisdefekts - Dekontamination und Augmentation

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(1) Alcântara CEP, Castro MAA, Noronha MS, Martins-Junior PA, Mendes RM, Caliari MV, Mesquita RA, Ferreira AJ. Hyaluronic acid accelerates bone repair in human dental sockets: a randomized triple-blind clinical trial. *Braz Oral Res.* 2018;32:e84.

(2) Almohandes, A.; Carcuac, O.; Abrahamsson, I.; Lund, H.; Berglundh, T. Re-osseointegration following reconstructive surgical therapy of experimental peri-implantitis. A pre-clinical in vivo study. *Clin. Oral Implant. Res.* 2019, 30, 447–456.

(3) Bach G, Müller C. Basic evaluation of an antimicrobial gel for peri-implantitis treatment. *Implants* 2016;1:6-14.

(4) Bosshardt D, Brodbeck U, Rathe F, et al. Treatment of Peri-implantitis with Electrolytic Cleaning Versus Mechanical and Electrolytic Cleaning: 18-Month Results from a Randomized Controlled Clinical Trial. *J Clin Med* 2021;10(16):3475.

(5) Claffey N, Clarke E, Polyzois I, Renvert S: Surgical treatment of peri-implantitis. *J Clin Periodontol* 2008, 35:316–332.

(6) Eliezer M, Sculean A, Miron RJ, Nemcovsky C, Weinberg E, Weinreb M, Zoabi H, Bosshardt DD, Fujioka-Kobayashi M, Moses O. Hyaluronic acid slows down collagen membrane degradation in uncontrolled diabetic rats. *J Periodontal Res.* 2019;54(6):644-652.

(7) Fickl S., Kauffmann F. Manuskript in Arbeit

(8) Friedmann A, Gissel K, Soudan M, Kleber BM, Pitaru S, Dietrich T. Randomized controlled trial on lateral augmentation using two collagen membranes: morphometric results on mineralized tissue compound. *J Clin Periodontol.* 2011; 38:677-685.

(9) Friedmann A, Fischer K, Dalloul M, Yildiz MS, Kauffmann F, Fickl S. Preliminary data upon μ CT analysis indicate benefits in placing Ribose-Cross-Linked-Collagen materials across extraction socket compared to native collagen membranes in beagles. *EUROPERIO* 222018:PR590.

(10) Friedmann A, Fickl S, Fischer KR, Dalloul M, Goetz W, Kauffmann F. Horizontal Augmentation of Chronic Mandibular Defects by the Guided Bone Regeneration Approach: A Randomized Study in Dogs. *Materials (Basel).* 2021 Dec 29;15(1):238. doi: 10.3390/ma15010238.

- (11) Froum S, Rosen P. Reentry Evaluation Following Treatment of Peri-implantitis with a Regenerative Approach *Int J Periodontics Restorative Dent* 2014;34:47–59.
- (12) Hakobyan G, Seyranyan A, Khachatryan L, Hakoban GS, Khachatran A. Regenerative Therapy for the Treatment of Periimplantitis. *Austin Head Neck Oncol*. 2018;2(1):1007.
- (13) Heitz-Mayfield, L.J.; Mombelli, A. The therapy of peri-implantitis: A systematic review. *Int. J. Oral Maxillofac. Implant*. 2014, 29, 325–345.
- (14) Iorio-Siciliano V, Blasi A, Stratul SI, Ramaglia L, Sculean A, Salvi GE, Rusu D. Anti-infective therapy of peri-implant mucositis with adjunctive delivery of a sodium hypochlorite gel: a 6-month randomized triple-blind controlled clinical trial. *Clin Oral Investig*. 2020 Jun;24(6):1971-1979.
- (15) Iorio-Siciliano V, Ramaglia L, Isola G, Blasi A, Salvi GE, Sculean A. Changes in clinical parameters following adjunctive local sodium hypochlorite gel in minimally invasive nonsurgical therapy (MINST) of periodontal pockets: a 6-month randomized controlled clinical trial. *Clin Oral Investig*. 2021 Sep;25(9):5331-5340.
- (16) Jurczyk K, Nietzsche S, Ender C, Sculean A, Eick S. In-vitro activity of sodium-hypochlorite gel on bacteria associated with periodontitis. 2015: doi:10. 1007/ s00784-016-1711-9.
- (17) Khoury, F.; Keeve, P.L.; Ramanauskaite, A.; Schwarz, F.; Koo, K.T.; Sculean, A.; Romanos, G. Surgical treatment of peri-implantitis - Consensus report of working group 4. *Int. Dent. J*. 2019, 69 (Suppl. 2), 18–22.
- (18) King SR, Hickerson WL, Proctor KG. Beneficial actions of exogenous hyaluronic acid on healing. *Surgery* 1991;109(1):76-84.
- (19) Klinger A, Asad R, Shapira L, Zubery Y. In vivo degradation of collagen barrier membranes exposed to the oral cavity. *Clin Oral Implants Res*. 2010 Aug;21(8):873-876.
- (20) Koo, K.T.; Khoury, F.; Keeve, P.L.; Schwarz, F.; Ramanauskaite, A.; Sculean, A.; Romanos, G. Implant Surface Decontamination by Surgical Treatment of Periimplantitis: A Literature Review. *Implant Dent*. 2019, 28, 173–176.
- (21) Machado MA, Stefani CM, Sallum EA, Sallum AW, Tramontina VA, Nociti Junior FH: Treatment of ligature-induced peri-implantitis defects by regenerative procedures: a clinical study in dogs. *J Oral Sci* 1999,41:181–185.
- (22) Machado MA, Stefani CM, Sallum EA, Sallum AW, Tramontina VA, Nogueira-Filho GR, Nociti Junior FH: Treatment of ligature-induced peri-implantitis defects by regenerative procedures. Part II: A histometric study in dogs. *J Oral Sci* 2000, 42:163–168.
- (23) Machtei, E.E.; Kim, D.M.; Karimbux, N.; Zigdon-Giladi, H. The use of endothelial progenitor cells combined with barrier membrane for the reconstruction of peri-implant osseous defects: An animal experimental study. *J. Clin. Periodontol*. 2016, 43, 289–297.

- (24) Madi, M.; Htet, M.; Zakaria, O.; Alagl, A.; Kasugai, S. Re-osseointegration of Dental Implants After Periimplantitis Treatments: A Systematic Review. *Implant Dent.* 2018, 27, 101–110.
- (25) Mordini L, Sun N, Chang N, De Guzman JP, Generali L, Consolo U. Peri-Implantitis Regenerative Therapy: A Review. *Biology (Basel)*. 2021 Aug 13;10(8):773. doi: 10.3390/biology10080773.
- (26) Ramanauskaite, A.; Obreja, K.; Sader, R.; Khoury, F.; Romanos, G.; Koo, K.T.; Keeve, P.L.; Sculean, A.; Schwarz, F. Surgical Treatment of Periimplantitis With Augmentative Techniques. *Implant Dent.* 2019, 28, 187–209.
- (27) Ratka C, Weigl P, Henrich D, et al. The Effect of In Vitro Electrolytic Cleaning on Biofilm-Contaminated Implant Surfaces. *J Clin Med* 2019;8(9):1397.
Auf PubMed lesen
- (28) Renvert, S.; Polyzois, I.; Maguire, R. Re-osseointegration on previously contaminated surfaces: A systematic review. *Clin. Oral Implant. Res.* 2009, 20 (Suppl. 4), 216–227.
- (29) Renvert, S.; Polyzois, I.N. Clinical approaches to treat peri-implant mucositis and peri-implantitis. *Periodontol.* 2000 2015, 68, 369–404.
- (30) Roos-Jansåker, A.M.; Persson, G.R.; Lindahl, C.; Renvert, S. Surgical treatment of peri-implantitis using a bone substitute with or without a resorbable membrane: A 5-year follow-up. *J. Clin. Periodontol.* 2014, 41, 1108–1114.
- (31) Schmidlin PR, Sahrman P, Ramel C, Imfeld T, Müller J, Roos M, Jung RE. Peri-implantitis prevalence and treatment in implant oriented private practices: A cross-sectional postal and Internet survey. *Schweiz Monatsschr Zahnmed* 2012;122:1136-1144.
- (32) Schwarz F, Sculean A, Engebretson SP, Becker J, Sager M. Animal models for peri-implant mucositis and peri-implantitis. *Periodontol* 2000 2015;68:168-181.
- (33) Smeets R, Henningsen A, Jung O, Heiland M, Hammächer C, Stein JM. Definition, etiology, prevention and treatment of peri-implantitis – a review *Head & Face Medicine* 2014,10:34.
- (34) Stavropoulos, A.; Bertl, K.; Eren, S.; Gotfredsen, K. Mechanical and biological complications after implantoplasty—A systematic review. *Clin. Oral Implant. Res.* 2019, 30, 833–848.
- (35) Stiller M, Kluk E, Bohner M, Lopez-Heredia MA, Müller-Mai C, Knabe C. Performance of β -tricalcium phosphate granules and putty, bone grafting materials after bilateral sinus floor augmentation in humans. *Biomaterials.* 2014;35(10):3154-3163.
- (36) Yildirim S, Özener HÖ, Doğan B, Kuru B. Effect of Topically-Applied Hyaluronic-Acid on Pain and Palatal Epithelial Wound Healing: An Examiner-Blind, Randomized, Controlled

Clinical Trial. J Periodontol. 2017;15:1-14.