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Thema: Tooth Shell Technique: Kieferkammrekonstruktion im ästhetischen Bereich

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Literatur

- 1 Reddi AH. Cell biology and biochemistry of endochondral bone development. *Collagen and related research*. 1981;1(2):209-226.
- 2 Salhotra A, Shah HN, Levi B, Longaker MT. Mechanisms of bone development and repair. *Nature reviews Molecular cell biology*. 2020;21(11):696-711.
- 3 Goerke SM, Obermeyer J, Plaha J, Stark GB, Finkenzeller G. Endothelial progenitor cells from peripheral blood support bone regeneration by provoking an angiogenic response. *Microvascular research*. 2015;98:40-47.
- 4 Stern A, Green J. Sinus lift procedures: an overview of current techniques. *Dental Clinics*. 2012;56(1):219-233.
- 5 Khoury F, Hanser T. Mandibular bone block harvesting from the retromolar region: a 10-year prospective clinical study. *Int J Oral Maxillofac Implants*. 2015;30(3):688-697.
- 6 Schwarz F, Golubovic V, Becker K, Mihatovic I. Extracted tooth roots used for lateral alveolar ridge augmentation: a proof-of-concept study. *Journal of Clinical Periodontology*. 2016;43(4):345-353.
- 7 Korsch M. Tooth shell technique: A proof of concept with the use of autogenous dentin block grafts. *Australian Dental Journal*. 2021;66(2):159-168.
- 8 Pang KM, Um IW, Kim YK, Woo JM, Kim SM, Lee JH. Autogenous demineralized dentin matrix from extracted tooth for the augmentation of alveolar bone defect: A prospective randomized clinical trial in comparison with anorganic bovine bone. *Clinical oral implants research*. 2017;28(7):809-815.
- 9 Catanzaro-Guimaraes SA, Catanzaro Guimaraes BP, Garcia RB, Alle N. Osteogenic potential of autogenic demineralized dentin implanted in bony defects in dogs. *Int J Oral Maxillofac Surg*. 1986;15(2):160-169.
- 10 Andersson L, Ramzi A, Joseph B. Studies on dentin grafts to bone defects in rabbit tibia and mandible; development of an experimental model. *Dental traumatology : official publication of International Association for Dental Traumatology*. 2009;25(1):78-83.
- 11 Linde A. Dentin matrix proteins: composition and possible functions in calcification. *Anat Rec*. 1989;224(2):154-166.
- 12 Finkelman RD, Mohan S, Jennings JC, Taylor AK, Jepsen S, Baylink DJ. Quantitation of growth factors IGF-I, SGF/IGF-II, and TGF-beta in human dentin. *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*. 1990;5(7):717-723.
- 13 Korsch M, Peichl M. Retrospective Study: Lateral Ridge Augmentation Using Autogenous Dentin: Tooth-Shell Technique vs. Bone-Shell Technique. . *Int J Environ Res Public Health*. 2021;18(6).

- 14 Korsch M, Peichl M. Retrospective Study on Tooth Shell Technique Using Endodontically Treated Teeth in Lateral Ridge Augmentation. *Appl Sci*. 2021;11:1-14.
- 15 Korsch M, Peichl M, Bartols A. Lateral Alveolar Ridge Augmentation with Autologous Dentin of Periodontally Compromised Teeth: A Retrospective Study. *Int J Environ Res Public Health*. 2022;19(8).
- 16 Andreasen JO. Analysis of pathogenesis and topography of replacement root resorption (ankylosis) after replantation of mature permanent incisors in monkeys. *Swed Dent J*. 1980;4(6):231-240.
- 17 Andreasen JO, Kristerson L. The effect of limited drying or removal of the periodontal ligament. Periodontal healing after replantation of mature permanent incisors in monkeys. *Acta Odontol Scand*. 1981;39(1):1-13.
- 18 Becker K, Jandik K, Stauber M, Mihatovic I, Drescher D, Schwarz F. Microstructural volumetric analysis of lateral ridge augmentation using differently conditioned tooth roots. *Clinical oral investigations*. 2019;23(7):3063-3071.
- 19 Schwarz F, Hazar D, Becker K, Sader R, Becker J. Efficacy of autogenous tooth roots for lateral alveolar ridge augmentation and staged implant placement. A prospective controlled clinical study. *Journal of clinical periodontology*. 2018;45(8):996-1004.
- 20 Gual-Vaqués P, Polis-Yanes C, Estrugo-Devesa A, Ayuso-Montero R, Marí-Roig A, López-López J. Autogenous teeth used for bone grafting: a systematic review. *Medicina oral, patología oral y cirugía bucal*. 2018;23(1):e112.
- 21 Bormann K-H, Suarez-Cunqueiro MM, Sinikovic B, et al. Dentin as a suitable bone substitute comparable to ss-TCP—an experimental study in mice. *Microvascular Research*. 2012;84(2):116-122.
- 22 Jun S-H, Ahn J-S, Lee J-I, Ahn K-J, Yun P-Y, Kim Y-K. A prospective study on the effectiveness of newly developed autogenous tooth bone graft material for sinus bone graft procedure. *The journal of advanced prosthodontics*. 2014;6(6):528-538.
- 23 Binderman I, Hallel G, Nardy C, Yaffe A, Sapoznikov L. A novel procedure to process extracted teeth for immediate grafting of autogenous dentin. *J Interdiscipl Med Dent Sci*. 2014;2(154):2.
- 24 Korsch M, Mamar AK. Sofortimplantation mit autologem Dentin. *Zahnärztliche Mitteilung*. 2021;15/16.
- 25 Korsch M, Peichl M. Retrospective Study: Lateral Ridge Augmentation Using Autogenous Dentin: Tooth-Shell Technique vs. Bone-Shell Technique. *Int J Environ Res Public Health*. 2021;18(6).
- 26 Bono N, Tarsini P, Candiani G. Demineralized dentin and enamel matrices as suitable substrates for bone regeneration. *Journal of applied biomaterials & functional materials*. 2017;15(3):236-243.
- 27 Su-Gwan K, Hak-Kyun K, Sung-Chul L. Combined implantation of particulate dentine, plaster of Paris, and a bone xenograft (Bio-Oss®) for bone regeneration in rats. *Journal of Cranio-Maxillofacial Surgery*. 2001;29(5):282-288.
- 28 Salata LA, Craig GT, Brook IM. Bone healing following the use of hydroxyapatite or ionomeric bone substitutes alone or combined with a guided bone regeneration technique: an animal study. *International Journal of Oral & Maxillofacial Implants*. 1998;13(1).

- 29 Andersson L, Ramzi A, Joseph B. Studies on dentin grafts to bone defects in rabbit tibia and mandible; development of an experimental model. *Dental Traumatology*. 2009;25(1):78-83.
- 30 van Orten A, Goetz W, Bilhan H. Tooth-Derived Granules in Combination with Platelet-Rich Fibrin ("Sticky Tooth") in Socket Preservation: A Histological Evaluation. *Dentistry Journal*. 2022;10(2):29.
- 31 Lang NP, Löe H. The relationship between the width of keratinized gingiva and gingival health. *Journal of periodontology*. 1972;43(10):623-627.
- 32 Lin GH, Chan HL, Wang HL. The significance of keratinized mucosa on implant health: a systematic review. *Journal of periodontology*. 2013;84(12):1755-1767.
- 33 Boynueğri D, Nemli SK, Kasko YA. Significance of keratinized mucosa around dental implants: a prospective comparative study. *Clinical oral implants research*. 2013;24(8):928-933.