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Osmotische Weichgewebe-Expander zum Einsatz vor Knochenaugmentation in der dentalen Implantologie

- [1] Bahat O, Fontanesi FV: Complications of grafting in the atrophic edentulous or partially edentulous jaw. *The International Journal of Periodontics & Restorative Dentistry* 21, 487–495 (2001).
- [2] Berge SJ, Wiese KG, von Lindern JJ, Niederhagen B, Appel T, Reich RH: Tissue expansion using osmotically active hydrogel systems for direct closure of the donor defect of the radial forearm flap. *Plastic and Reconstructive Surgery* 108, 1–5, discussion 6–7 (2001).
- [3] Chiapasco M, Romeo E, Casentini P, Rimondini L: Alveolar distraction osteogenesis vs. vertical guided bone regeneration for the correction of vertically deficient edentulous ridges: a 1-3-year prospective study on humans. *Clinical Oral Implants Research* 15, 82–95 (2004).
- [4] Chiapasco M, Zaniboni M, Rimondini L: Autogenous onlay bone grafts vs. alveolar distraction osteogenesis for the correction of vertically deficient edentulous ridges: a 2-4-year prospective study on humans. *Clinical Oral Implants Research* 18, 432–440 (2007).
- [5] Esposito M, Grusovin MG, Felice P, Karatzopoulos G, Worthington HV, Coulthard P: Interventions for replacing missing teeth: horizontal and vertical bone augmentation techniques for dental implant treatment. *Cochrane Database of Systematic Reviews (Online)* 4, CD003607 (2009).
- [6] Kaner D, Friedmann A: Soft tissue expansion with self-filling osmotic tissue expanders before vertical ridge augmentation: a proof of principle study. *Journal of Clinical Periodontology* 38, 95–101 (2011).
- [7] Kaner D, Zhao H, Terheyden H, Friedmann A: Submucosal implantation of soft tissue expanders does not affect microcirculation. *Clinical Oral Implants Research* 23 (2012, accepted for publication).
- [8] Kaner D, Zhao H, Terheyden H, Arnold W, Friedmann A: Effect of soft tissue expansion on microcirculation and healing after vertical ridge augmentation in dogs. *Abstract SSOI Research Award 2012*.
- [9] Lundgren S, Sjostrom M, Nystrom E, Sennerby L: Strategies in reconstruction of the atrophic maxilla with autogenous bone grafts and endosseous implants. *Periodontology 2000* 47, 143–161 (2008).
- [10] McAllister BS, Haghishat K: Bone augmentation techniques. *Journal of Periodontology* 78, 377–396 (2007).
- [11] van Rappard JH, Molenaar J, van Doorn K: Surface-area increase in tissue expansion. *Plastic and Reconstructive Surgery* 82, 833–839 (1988).
- [12] Rocchietta I, Fontana F, Simion M: Clinical outcomes of vertical bone augmentation to enable dental implant placement: a systematic review. *Journal of Clinical Periodontology* 35, 203–215 (2008).
- [13] Roccuzzo M, Ramieri G, Spada MC, Bianchi SD, Berrone S: Vertical alveolar ridge augmentation by means of a titanium mesh and autogenous bone grafts. *Clinical Oral Implants Research* 15, 73–81 (2004).
- [14] Roccuzzo M, Ramieri G, Bunino M, Berrone S: Autogenous bone graft alone or associated with titanium mesh for vertical alveolar ridge augmentation: a controlled clinical trial. *Clinical Oral Implants Research* 18, 286–294 (2007).
- [15] Ronert MA, Hofheinz H, Manassa E, Asgarouladi H, Olbrisch RR: The beginning of a new era in tissue expansion: self-filling osmotic tissue expander - four-year clinical experience. *Plastic and Reconstructive Surgery* 114, 1025–1031 (2004).
- [16] Rothamel D, Schwarz F, Herten M, Ferrari D, Mischkowski RA, Sager M, Becker J: Vertical ridge augmentation using xenogenous bone blocks: a histomorphometric study in

- dogs. *The International Journal of Oral & Maxillofacial Implants* 24, 243–250 (2009).
- [17] Stuehmer C, Rucker M, Schumann P, Bormann KH, Harder Y, Sinikovic B, Gellrich NC: Osseous alterations at the interface of hydrogel expanders and underlying bone. *Journal of Craniomaxillofacial Surgery* 37, 258–262 (2009).
- [18] Tominaga K, Matsuo T, Kuga Y, Mizuno A: An animal model for subperiosteal tissue expansion. *Journal of Oral & Maxillofacial Surgery* 51, 1244–1249 (1993).
- [19] Urban IA, Jovanovic SA, Lozada JL: Vertical ridge augmentation using guided bone regeneration (GBR) in three clinical scenarios prior to implant placement: a retrospective study of 35 patients 12 to 72 months after loading. *The International Journal of Oral & Maxillofacial Implants* 24, 502–510 (2009).
- [20] Verhoeven JW, Cune MS, Terlou M, Zoon MA, de Putter C: The combined use of endosteal implants and iliac crest onlay grafts in the severely atrophic mandible: a longitudinal study. *International Journal of Oral and Maxillofacial Surgery* 26, 351–357 (1997).
- [21] Wiese KG, Heinemann DE, Ostermeier D, Peters JH: Biomaterial properties and biocompatibility in cell culture of a novel self-inflating hydrogel tissue expander. *Journal of Biomedical Material Research* 54, 179–88 (2001).