

Kombination von Hightech-Titangitter und Knochenersatzmaterial verbessert Vorhersagbarkeit des Augmentationsergebnisses

Gut vernetzt

Ein Beitrag von Prof. (Jiaoshou, Shandong University, China) Dr. Frank Liebaug und Dr. Alexander Liebaug



Literaturangabe

- [1] Braun T, Neue Technologie mit Langzeitstabilität; *Implantologie Journal* 6/2016; 64-66
- [2] Buser 2010
- [3] Chiapasco M, Zaniboni M, Clinical outcomes of GBR procedures to correct peri-implant dehiscence and fenestrations: a systematic review, *Clin Oral Implants Res* 2009; 20: 113-123
- [4] Clavero J, Lundgren S: Ramus or chin grafts for maxillary sinus inlay and local onlay augmentation: Comparison of donor site morbidity and complications. *Clin Implant Dent Relat Res* 2003; 5: 154-160
- [5] De Hua-Li: Management of bone defects in the aesthetic zone. *Congress scientific Report: EAO 24th Annual Scientific Meeting Stockholm, 24-26 September 2015*
- [6] Esposito M, Grusovin MG, Felice P, Karatzopoulos G, Worthington HV, Coulthard P. The efficacy of horizontal and vertical bone augmentation procedures for dental implants -a Cochrane systematic review. *Eur J Oral Implantol.* 2009 Autumn;2(3):167-84.
- [7] Esposito et al. 2009, *Int J Oral Maxillofac Implants* 2006; 21: 696-710
- [8] Garg AK: Grafting materials in repair and restoration. *Quintessence* 1999, 83-101
- [9] Gehrke P, Degidi M, Dhom G: Die dreidimensionale Positionierung von Implantaten – Ein Fokus auf Aesthetik. *Implantologie* 2008; 16: 131-139
- [10] Happe A. Use of a piezoelectric surgical device to harvest bone grafts from the mandibular ramus: report of 40 cases. *Int J Periodontics Restorative Dent* 2007; 27: 241-249
- [11] Jensen OT: Alveolar segmental “sandwich” osteotomies for posterior edentulous mandibular sites for dental implants. *J Oral Maxillofac Surg* 2006; 64: 471-475
- [12] Jensen und Terheyden, *Int J Oral Maxillofac Implants* 2009; 24(suppl): 218-236
- [13] Khoury F, Trasarti S: Oral rehabilitation in patients with severe bone loss in the frontal area: clinical report on 10 consecutive treated patients. *Clin Oral Impl Res* 2014; 25 Suppl 10, page 24
- [14] Khoury F, Antoun H, Missika P: Bone Augmentation in oral implantology. Quintessence Publishing 2007
- [15] Khoury F, Khoury C: Mandibular bone block grafts: instrumentation, harvesting technique and application. *J Parodontologie & d'Implantologie Orale* 2006; 25: 15-34
- [16] Khoury F, Happe A: Diagnostic and methods of intraoral bone harvesting. *Z Zahnaerztl Implantol* 1999; 15: 167-176
- [17] Liebaug F und Wu N 2012, Er:YAG-laserunterstützte Socket und Ridge Preservation
- [18] Liebaug F, Wu N: 20 Jahre membrangestützte Knochenregeneration – ein Erfahrungsbericht, *zwp spezial* 10/2014, S 12-17
- [19] MacAllister und Haghigiat 2007
- [20] Polini, F., et al., Bifunctional sculpturing of the bone graft for 3-dimensional augmentation of the atrophic posterior mandible. *J Oral Maxillofac Surg*, 2009. 67(1): p. 174-7.
- [21] Seiler et al. 2016
- [22] Sohn DS et al: Piezoelectric osteotomy for intraoral harvesting bone blocks. *Int J Periodontics Restorative Dentistry* 2007; 27: 127-131
- [23] Spin-Neto R, Stavropoulos A, Coletti FL, Pereira LAVD, Marcantonio Jr. E, Wenzel A: Remodeling of cortical and corticocancellous fresh-frozen allogeneic block grafts. A radiographic and histomorphometric comparison to autogenous bone grafts. *Clin Oral Implants Res* 2015; 26: 747-752
- [24] Spin-Neto R, Stavropoulos A, Coletti FL, Faeda RS, Pereira LAVD, Marcantonio Jr. E: Graft incorporation and implant osseointegration following the use autogenous and fresh-frozen allogeneic block bone graft for lateral ridge augmentation. *Clin Oral Implant Res* 2014; 25: 226-233
- [25] Tang YL, Yuan J, Song Y-L, Ma W, Chao X, Li D-H.: Ridge expansion alone or in combination with guided bone regeneration to facilitate implant placement in narrow alveolar ridges: a retrospective study. *Clin Oral Implants Res* 2015; 26: 204-211
- [26] Zins JE, Whitaker LA: Membranous versus endochondral bone: implications for craniofacial reconstruction. *Plast Reconstr Surg* 1983; 72: 778-785