

ZMK 11 (23), S. 732-740

Dr. Jörg Neugebauer

## Konzeption und klinische Anwendung von einteiligen Zirkondioxyd-Keramik-Implantaten

1. Blaschke C, Volz U (2006) Soft and hard tissue response to zirconium dioxide dental implants - a clinical study in man. *Neuro Endocrinol Lett* 27
2. Brunski JB (1993) Avoid pitfalls of overloading and micromotion of intraosseous implants. *Dent Implantol Update* 4:77-81
3. Buser D, Nydegger T, Hirt HP, Cochran DL, Nolte LP (1998) Removal torque values of titanium implants in the maxilla of miniature pigs. *Int J Oral Maxillofac Implants* 13:611-619
4. Cochran DL, Buser D, ten Bruggenkate CM, Weingart D, Taylor TM, Bernard JP, Peters F, Simpson JP (2002) The use of reduced healing times on ITI implants with a sandblasted and acid-etched (SLA) surface: early results from clinical trials on ITI SLA implants. *Clin Oral Implants Res* 13:144-153
5. Cochran DL, Morton D, Weber HP (2004) Consensus statements and recommended clinical procedures regarding loading protocols for endosseous dental implants. *Int J Oral Maxillofac Implants* 19 Suppl:109-113
6. De Wijs FL, Van Dongen RC, De Lange GL, De Putter C (1994) Front tooth replacement with Tübingen (Frialit) implants. *J Oral Rehabil* 21:11-26
7. d'Hoedt B, Schulte W (1987) [Possibilities and long term results of use of Tübinger implants (Frialit)]. *Zwr* 96:118-121
8. Di Iorio D, Traini T, Degidi M, Caputi S, Neugebauer J, Piattelli A (2005) Quantitative evaluation of the fibrin clot extension on different implant surfaces: an in vitro study. *J Biomed Mater Res B Appl Biomater* 74:636-642
9. Froum S, Emtiaz S, Bloom MJ, Scolnick J, Tarnow DP (1998) The use of transitional implants for immediate fixed temporary prostheses in cases of implant restorations. *Pract Periodontics Aesthet Dent* 10:737-746; quiz 748
10. Gahlert M, Gudehus T, Eichhorn S, Steinhauser E, Kniha H, Erhardt W (2007) Biomechanical and histomorphometric comparison between zirconia implants with varying surface textures and a titanium implant in the maxilla of miniature pigs. *Clin Oral Implants Res* 18:662-668
11. Gehrke P, Dhom G, Brunner J, Wolf D, Degidi M, Piattelli A (2006) Zirconium implant abutments: fracture strength and influence of cyclic loading on retaining-screw loosening. *Quintessence Int* 37:19-26
12. Haubenreich JE, Robinson FG, West KP, Frazer RQ (2005) Did we push dental ceramics too far? A brief history of ceramic dental implants. *J Long Term Eff Med Implants* 15:617-628
13. Heners M, Walther W, Worle M (1991) [Long-term success of various implant types - a study over 15 years]. *Dtsch Zahnärztl Z* 46:672-675
14. Horiuchi K, Uchida H, Yamamoto K, Sugimura M (2000) Immediate loading of Branemark System Implants following placement in edentulous patients: a clinical report. *Int J Oral Maxillofac Implants* 15:824-830

15. Horiuchi M, Ichikawa T, Kanitani HR, Kawamoto N, Matsumoto N (1995) Pilot-hole preparation for proper implant positioning and the enhancement of bone formation. *J Oral Implantol* 21:318-324
16. Karapetian VE, Neugebauer J, Scholz KH, JE. Z (2006) Vollkeramische Versorgung mittels Z-Systems-Implantaten. *Z Oral Implant* 2:6-10
17. Kohal RJ, Weng D, Bachle M, Strub JR (2004) Loaded custom-made zirconia and titanium implants show similar osseointegration: an animal experiment. *J Periodontol* 75:1262-1268
18. Kosmac T, Oblak C, Jevnikar P, Funduk N, Marion L (1999) The effect of surface grinding and sandblasting on flexural strength and reliability of Y-TZP zirconia ceramic. *Dent Mater* 15:426-433
19. Lorenzoni M, Pertl C, Zhang K, Wimmer G, Wegscheider WA (2003) Immediate loading of single-tooth implants in the anterior maxilla. Preliminary results after one year. *Clin Oral Implants Res* 14:180-187
20. Luthy H, Loeffel O, Hammerle CH (2006) Effect of thermocycling on bond strength of luting cements to zirconia ceramic. *Dent Mater* 22:195-200
21. Monaco C, Krejci I, Bortolotto T, Perakis N, Ferrari M, Scotti R (2006) Marginal adaptation of 1 fiber-reinforced composite and 2 all-ceramic inlay fixed partial denture systems. *Int J Prosthodont* 19:373-382
22. Neugebauer J, Traini T, Thams U, Piattelli A, Zoller JE (2006) Peri-implant bone organization under immediate loading state. Circularly polarized light analyses: a minipig study. *J Periodontol* 77:152-160
23. Nkenke E, Kloss F, Wiltfang J, Schultze-Mosgau S, Radespiel-Troger M, Loos K, Neukam FW (2002) Histomorphometric and fluorescence microscopic analysis of bone remodelling after installation of implants using an osteotome technique. *Clin Oral Implants Res* 13:595-602
24. Ottl P, Piwowarczyk A, Lauer HC, Hegenbarth EA (2000) The Procera AllCeram system. *Int J Periodontics Restorative Dent* 20:151-161
25. Quayle AA, Cawood J, Howell RA, Eldridge DJ, Smith GA (1989) The immediate or delayed replacement of teeth by permucosal intra-osseous implants: the Tubingen implant system. Part 1. Implant design, rationale for use and pre-operative assessment. *Br Dent J* 166:365-370
26. Rimondini L, Cerroni L, Carrassi A, Torricelli P (2002) Bacterial colonization of zirconia ceramic surfaces: an in vitro and in vivo study. *Int J Oral Maxillofac Implants* 17:793-798
27. Scarano A, Di Carlo F, Quaranta M, Piattelli A (2003) Bone response to zirconia ceramic implants: an experimental study in rabbits. *J Oral Implantol* 29:8-12
28. Scarano A, Piattelli M, Caputi S, Favero GA, Piattelli A (2004) Bacterial adhesion on commercially pure titanium and zirconium oxide disks: an in vivo human study. *J Periodontol* 75:292-296
29. Scharer P (1998) An aesthetically and physically advanced system for post and core restorations. *Signature* 5:20
30. Schareyka R (1978) [The sulcus fluid flow rate (SFFR) in Tubingen immediate implants made from aluminum oxide ceramics]. *Dtsch Zahnarztl Z* 33:360-362

31. Schulte W, Heimke G (1976) [The Tübinger immediate implant]. Quintessenz 27:17-23
32. Schulte W, d'Hoedt B, Axmann D, Gomez-Roman G (1992) 15 Jahre Tübinger Implantat und seine Weiterentwicklung zum FRIALIT-2 System. Z Zahnärztl Implantol VIII:77
33. Sturzenegger B, Feher A, Luthy H, Schumacher M, Loeffel O, Filser F, Kocher P, Gauckler L, Scharer P (2000) [Clinical study of zirconium oxide bridges in the posterior segments fabricated with the DCM system]. Schweiz Monatsschr Zahnmed 110:131-139
34. Sundh A, Sjogren G (2006) Fracture resistance of all-ceramic zirconia bridges with differing phase stabilizers and quality of sintering. Dent Mater
35. Valentine-Thon E, Schiwara HW (2003) Validity of MELISA for metal sensitivity testing. Neuroendocrinol Lett 24:57-64
36. Volz U (2003) Zirkonoxid-Implantate mit Zirkonoxid-Kronen. Metallfreie Rekonstruktion? Eine Fallbeschreibung. Z Zahnärztl Implantol 19:176-180
37. Wang H, Aboushelib MN, Feilzer AJ (2007) Strength influencing variables on CAD/CAM zirconia frameworks. Dent Mater