

Erste klinische und zahntechnische Erfahrungen mit dem neuen Hybridanker CM LOC

Fest verankert

Ein Beitrag von Prof. Dr. Martin Schimmel, Dr. Joannis Katsoulis und Ztm. Patrick Zimmermann/alle Bern



Literaturangabe

- [1] Andreiotelli M, Att W, Strub JR (2010). Prosthodontic complications with implant overdentures: a systematic literature review. *Int J Prosthodont* 23(3):195-203.
- [2] Awad MA, Locker D, Korner-Bitensky N, Feine JS (2000). Measuring the effect of intra-oral implant rehabilitation on health-related quality of life in a randomized controlled clinical trial. *J Dent Res* 79(9):1659-1663.
- [3] Awad MA, Lund JP, Shapiro SH, Locker D, Klemetti E, Chehade A et al. (2003). Oral health status and treatment satisfaction with mandibular implant overdentures and conventional dentures: a randomized clinical trial in a senior population. *Int J Prosthodont* 16(4):390-396.
- [4] Bayer S, Steinheuser D, Gruner M, Keilig L, Enkling N, Stark H et al. (2009). Comparative study of four retentive anchor systems for implant supported overdentures-retention force changes. *Gerodontology* 26(4):268-272.
- [5] Behneke N (1994). Klinische Erfahrungen mit enossalen Implantaten im zahnlosen Unterkiefer (Habilitationsschrift). Mainz, Germany, Johannes Gutenberg-University.
- [6] Brauckhoff G (2009). Deskriptive Evaluierung der Mundgesundheit in Deutschland auf der Grundlage von aktuellen epidemiologischen Studien. Greifswald, Ernst-Moritz-Arndt-Universität
- [7] Büttel AE, Buhler NM, Marinello CP (2009). [Locator or ball attachment: a guide for clinical decision making]. *Schweizer Monatsschrift für Zahnmedizin = Revue mensuelle suisse d'odontostomatologie = Rivista mensile svizzera di odontologia e stomatologia / SSO* 119(9):901-918.
- [8] Carlsson GE, Omar R (2010). The future of complete dentures in oral rehabilitation. A critical review. *J Oral Rehabil* 37(2):143-156.
- [9] Clark J, Yallop C, Fletcher J (2006). *An Introduction to Phonetics and Phonology* 3rd edition ed.: Blackwell.
- [10] Feine JS, Carlsson GE, Awad MA, Chehade A, Duncan WJ, Gizani S et al. (2002). The McGill consensus statement on overdentures. Mandibular two-implant overdentures as first choice standard of care for edentulous patients. Montreal, Quebec, May 24-25, 2002. *Int J Oral Maxillofac Implants* 17(4):601-602.
- [11] Fontijn-Tekamp FA, Slagter AP, Van Der Bilt A, Van ,T Hof MA, Witter DJ, Kalk W et al. (2000). Biting and chewing in overdentures, full dentures, and natural dentitions. *J Dent Res* 79(7):1519-1524.
- [12] Heckmann SM, Heussinger S, Linke JJ, Graef F, Pröschel P (2009). Improvement and long-term stability of neuromuscular adaptation in implant-supported overdentures. *Clin Oral Implants Res* 20(11):1200-1205.
- [13] Inuma T, Arai Y, Abe Y, Takayama M, Fukumoto M, Fukui Y et al. (2014). Denture Wearing during Sleep Doubles the Risk of Pneumonia in the Very Elderly. *J Dent Res*.
- [14] Kobayashi M, Srinivasan M, Ammann P, Perriard J, Ohkubo C, Muller F et al. (2014). Effects of in vitro cyclic dislodging on retentive force and removal torque of three overdenture attachment systems. *Clin Oral Implants Res* 25(4):426-434.
- [15] Ludwig K, Cretsi X, Kern M (2006a). [In vitro retention force changes of ball anchor attachments depending on divergences of implants]. *Dtsch Zahnarzt Z* 61(3):142-146.
- [16] Ludwig K, Hartfil H, Kern M (2006b). Analysis of the wear and tear of ball attachments. *Quintessence J Dent Technol* 4(46-55).
- [17] Müller F, Heath R, Ott R (2001). Maximum bite force after the replacement of complete dentures. *Gerodontology* 18(1):58-62.
- [18] Müller F, Schimmel M (2007). Management of preventative care for an ageing population. *International Dental Journal* 57(3 Suppl 1):215-220.
- [19] Müller F, Hernandez M, Grütter L, Aracil-Kessler L, Weingart D, Schimmel M (2012). Masseter muscle thickness, chewing efficiency and bite force in edentulous patients with fixed and removable implant-supported prostheses: a cross-sectional multicenter study. *Clin Oral Implants Res* 23(2):144-150.
- [20] Müller F, Duvernay E, Loup A, Vazquez L, Herrmann FR, Schimmel M (2013). Implant-supported Mandibular Overdentures in Very Old Adults: A Randomized Controlled Trial. *J Dent Res* 92(12 Suppl):1545-1605.
- [21] Naert I, Gizani S, Vuylsteke M, Van Steenberghe D (1999). A 5-year prospective randomized clinical trial on the influence of splinted and unsplinted oral implants retaining a mandibular overdenture: prosthetic aspects and patient satisfaction. *J Oral Rehabil* 26(3):195-202.
- [22] Naert I, Alsaadi G, van Steenberghe D, Quirynen M (2004). A 10-year randomized clinical trial on the influence of splinted and unsplinted oral implants retaining mandibular overdentures: peri-implant outcome. *Int J Oral Maxillofac Implants* 19(5):695-702.

- [23] Polzer I, Schimmel M, Muller F, Biffar R (2010). Edentulism as part of the general health problems of elderly adults. *International Dental Journal* 60(3):143-155.
- [24] Quirynen M, Alsaadi G, Pauwels M, Haffajee A, van Steenberghe D, Naert I (2005). Microbiological and clinical outcomes and patient satisfaction for two treatment options in the edentulous lower jaw after 10 years of function. *Clin Oral Implants Res* 16(3):277-287.
- [25] Rutkunas V, Mizutani H, Takahashi H, Iwasaki N (2011). Wear simulation effects on overdenture stud attachments. *Dent Mater J* [Epub ahead of print](
- [26] Sadowsky SJ (2007). Treatment considerations for maxillary implant overdentures: a systematic review. *J Prosthet Dent* 97(6):340-348.
- [27] Slade GD, Akinkugbe AA, Sanders AE (2014). Projections of U.S. Edentulism prevalence following 5 decades of decline. *J Dent Res* 93(10):959-965.
- [28] Srinivasan M, Schimmel M, Badoud I, Ammann P, Herrmann F, Müller F (revision submitted). Influence of Implant Angulation and Cyclic Dislodging on the Retentive Force of Two Different Overdenture Attachments – an in vitro study. *Clin Oral Implants Res*.
- [29] Steiner M, Ludwig K, Kern M (2009). Retention forces of a new implant-supported bar attachment system. *Clin Oral Implants Res* 20(9):1025-1026.
- [30] Steinheuser D (2009). *Werkstoffwissenschaftliche Untersuchungen zum Verschleiss von Hybridankern*. Bonn, Rheinischen Friedrich-Wilhelms-Universität Bonn.
- [31] Tallgren A (1972). The continuing reduction of the residual alveolar ridges in complete denture wearers: A mixed-longitudinal study covering 25 years. *J Prosthet Dent* 27(120-132).
- [32] Thomason JM, Feine J, Exley C, Moynihan P, Müller F, Naert I et al. (2009). Mandibular two implant-supported overdentures as the first choice standard of care for edentulous patients-the York Consensus Statement. *Br Dent J* 207(4):185-186.
- [33] Zitzmann NU, Staehelin K, Walls AWG, Menghini G, Weiger R, Stutz EZ (2008). Changes in oral health over a 10-yr period in Switzerland. *Eur J Oral Sci* 116(1):52-59.