

### **Publications Prof. Mehl (Status 05/2020)**

[1] S. Harder, M. Mertens, I. Dietrich, C. Mehl, Chirurgisch-prothetische Sofortversorgung des unbezahnten Kiefers mit vier Implantaten (Article in German), *Implantologie* 28(1) (2020) 7-22.

[2] M. Becker, F. Schmied, S. Freitag-Wolf, H. Naujokat, L. Kadem, C. Mehl, M. Kern, H. S., Single-cell adhesion of human osteoblasts on plasma-conditioned titanium implant surfaces in vitro, *J Mechan Behav Biomed Mat* in press. (2020).

[3] C. Mehl, Hohe Patientenzufriedenheit bei minimalen Risiken: All on 4™ hat sich in der Praxis bewährt (Article in German), *Dental Barometer* 1 (2019) 26-29.

[4] S. Harder, E.S. Quabius, F. Meinke, C. Mehl, M. Kern, Changes in proinflammatory gene expression in human whole blood after contact with UV-conditioned implant surfaces, *Clin Oral Investig* (2019).

[5] T. Englbrecht, C. Mehl, J. Basel, S. Harder, Endodontologische, prothetische und chirurgische Behandlungsabläufe nach Frontzahntrauma Falldarstellungen mit und ohne Zahnerhalt (Article in German), *Implantologie* 27 (2019) 1-10.

[6] C. Mehl, Q. Zhang, F. Lehmann, M. Kern, Retention of zirconia on titanium in two-piece abutments with self-adhesive resin cements, *J Prosthet Dent* (2018).

[7] C. Mehl, M. Kern, F. Neumann, T. Bähr, J. Wiltfang, V. Gassling, Effect of ultraviolet photofunctionalization of dental titanium implants on osseointegration, *J Zhejiang Univ Sci B* 19 (2018) 525-534.

[8] C. Mehl, S. Harder, T. Englbrecht, M. Mertens, Sofortimplantation beherdeter Zähne - Wahnsinn oder Fortschritt? (Article in German), *Implantologie* 6 (2018) 388-397.

[9] S. Harder, C. Egert, S. Freitag-Wolf, C. Mehl, M. Kern, Intraosseous Temperature Changes During Implant Site Preparation: In Vitro Comparison of Thermocouples and Infrared Thermography, *Int J Oral Maxillofac Implants* 33(1) (2018) 72-78.

[10] T. Englbrecht, S. Harder, C. Mehl, Sofortimplantation und -versorgung im Frontzahnggebiet (Article in German), *Der freie Zahnarzt* September (2018) 92-103.

[11] C. Mehl, M. Kern, A. Zimmermann, S. Harder, S. Huth, C. Selhuber-Unkel, Impact of Cleaning Procedures on Adhesion of Living Cells to Three Abutment Materials, *Int J Oral Maxillofac Implants* 32(5) (2017) 976-984.

[12] C. Mehl, S. Harder, T. Bösch, Implantologie and Prothetik am Scheideweg - klassische vs. moderne Behandlungskonzepte (Article in German), *Dent Implantol* (2017).

[13] C. Mehl, S. Harder, Über den Umgang mit Angstpatienten (Article in German), *Quintessence Team Journal* 47 (2017) 1-2.

[14] C. Mehl, T. Englbrecht, Risikoabwägung bei der Sofort- und Spätimplantation im Frontzahnbereich (Article in German), *Digital Dentistry* 4 (2017) 14-19.

[15] J. Lin, J. Shao, L. Juan, W. Yu, X. Song, P. Liu, W. Weng, J. Xu, C. Mehl, Enhancing bone regeneration by combining mesenchymal stem cell sheets with beta-TCP/COL-I scaffolds, *J Biomed Mater Res B Appl Biomater* (2017).

[16] J. Li, J. Lin, W. Yu, X. Song, Q. Hu, J.H. Xu, H. Wang, C. Mehl, BMP-2 plasmid DNA-loaded chitosan films - A new strategy for bone engineering, *J Craniomaxillofac Surg* 45(12) (2017) 2084-2091.

[17] T. Bösch, S. Harder, C. Mehl, Gesunde Zähne, gesunder Körper – Warum Prophylaxe für die Allgemeingesundheit so wichtig ist (Article in German), *ZWP Online* (2017)

[https://www.zwp-online.info/fachgebiete/prophylaxe/parodontologie/warum-prophylaxe-fuer-die-allgemeingesundheit-so-wichtig-ist.](https://www.zwp-online.info/fachgebiete/prophylaxe/parodontologie/warum-prophylaxe-fuer-die-allgemeingesundheit-so-wichtig-ist)

- [18] C.J. Mehl, N. Okano, K. Ludwig, M. Kern, Retention of bonded titanium copings fixed to implant abutments, *J Prosthet Dent* 115(1) (2016) 26-34.
- [19] C. Mehl, M. Kern, A.M. Schutte, L.F. Kadem, C. Selhuber-Unkel, Adhesion of living cells to abutment materials, dentin, and adhesive luting cement with different surface qualities, *Dent Mater* 32(12) (2016) 1524-1535.
- [20] C. Mehl, M. Kern, N. Meinke, Y. Açil, T. Bähr, J. Wiltfang, V. Gaßling, Can one-wall bone defects be augmented with xenogenic bone grafting material alone?, *J Cran Maxillofac Surg* in press (2016).
- [21] C. Mehl, V. Gaßling, S. Schultz-Langerhans, Y. Açil, T. Bähr, J. Wiltfang, M. Kern, Influence of four different abutment materials and the adhesive joint of two-piece abutments on the cervical implant bone and soft tissue, *J Oral Maxillofac Surg* in press (2016).
- [22] C. Mehl, T. Bösch, Implantology and Prothodontics at Crossroads - Classic vs. Modern Treatment Concepts, *JSM Dent Surg* 1 (2016) 2-7.
- [23] C. Mehl, S. Ali, S. El Bahra, S. Harder, O. Vollrath, M. Kern, Is There a Correlation Between Tensile Strength and Retrievability of Cemented Implant-Retained Crowns Using Artificial Aging?, *Int J Prosthodont* 29(1) (2016) 83-90.
- [24] H.P. Lin, J. Lin, J. Li, J.H. Xu, C. Mehl, In vitro remineralization of hybrid layers using biomimetic analogs, *J Zhejiang Univ Sci B* 17(11) (2016) 864-873.
- [25] T. Bösch, C. Mehl, S. Harder, Interaktionen zwischen systemischen Erkrankungen und der Mundgesundheit (Parodontitis) (Article in German), *Der Allgemeinarzt* 38(5) (2016) 52.
- [26] T. Bösch, S. Harder, C. Mehl, Höhere Lebensqualität durch festen Zahnersatz - Ein Fallbericht (Article in German), 8 (2016).

- [27] T. Bösch, S. Harder, A. Mehl, Gesunde Zähne, gesunder Körper – Warum Prophylaxe für die Allgemeingesundheit so wichtig ist (Article in German), *Cosmetic Dent* (2016).
- [28] C.J. Mehl, M. Steiner, K. Ludwig, M. Kern, Wear, microleakage and plastic deformation of an implant-supported chair-side bar system, *The journal of advanced prosthodontics* 7(4) (2015) 323-8.
- [29] C.J. Mehl, S. Harder, S. Wolfart, O. Vollrath, A. Trinkler, H.J. Wenz, M. Kern, Influence of dental education on esthetic perception, *The international journal of esthetic dentistry* 10(3) (2015) 486-99.
- [30] C. Mehl, M. Kern, Behandler und Patienten empfinden vieles anders (Article in German), *Zahnärztliche Mitteilungen* 105(23) (2015) 42-44.
- [31] C. Mehl, M. Kern, Retention von festsitzenden Restaurationen auf Implantaten - welcher Zement für welche Indikation? (Article in German), *Implantologie* 23(2) (2015) 175-185.
- [32] C. Mehl, S. Harder, J. Lin, O. Vollrath, M. Kern, Perception of dental esthetics: influence of restoration type, symmetry, and color in four different countries, *Int J Prosthodont* 28(1) (2015) 60-4.
- [33] C. Mehl, S. Harder, J. Lin, O. Vollrath, M. Kern, Perception of dental esthetics in different cultures, *Int J Prosthodont* 28(1) (2015) 60-4.
- [34] C. Mehl, S. Harder, Implantation und prothetische Versorgung eines hochatrophen Unterkiefers an einem Tag – ein Fallbericht (Article in German), *Dent Implantol* 19(6) (2015) 466-472.
- [35] C. Mehl, S. Harder, "Feste dritte Zähne" an einem Tag - ein Fallbericht (Article in German), *ZMK* 5 (2015) 1-7.
- [36] C. Mehl, Vollanatomisch gefräster Zahnersatz aus Zirkoniumdioxid – die Zukunft? (Article in German), *ZMK* 5 (2015) 1-8.

- [37] C. Mehl, Was Zahnärzte über Angstpatienten denken (Article in German), Huffington Post (2015) [http://www.huffingtonpost.de/christian-mehl/was-zahnaerzte-ueber-angstpatienten-denken\\_b\\_6816886.html](http://www.huffingtonpost.de/christian-mehl/was-zahnaerzte-ueber-angstpatienten-denken_b_6816886.html).
- [38] B.E. Beck-Broichsitter, A. Garling, T. Koehne, F. Barvencik, R. Smeets, C. Mehl, A. Jeschke, J. Wiltfang, S.T. Becker, 3D-tracking the regenerative potential of the mandible with micro-CTs, Oral Maxillofac Surg 19(1) (2015) 29-35.
- [39] C. Mehl, S. Harder, Die Vorteile minimal-invasiver Zahnimplantate (Article in German), DZW <http://www.dzw.de/artikel/die-vorteile-minimal-invasiver-zahnimplantate> (2014).
- [40] C. Mehl, Digitalisierung in der Zahnmedizin (Article in German), ZM-online (2014) Online Artikel.
- [41] C. Mehl, Prothetik im digitalen Zeitalter (Article in German), Special Tribune 9 (2014) 18-22.
- [42] J. Lin, W.Y. Zheng, P.R. Liu, N. Zhang, H.P. Lin, Y.J. Fan, X.H. Gu, O. Vollrath, C. Mehl, Influence of casein phosphopeptide-amorphous calcium phosphate application, smear layer removal, and storage time on resin-dentin bonding, J Zhejiang Univ Sci B 15(7) (2014) 649-60.
- [43] S. Harder, C. Mehl, Konventionelle und digitale Verfahren vergleichend kombiniert (Article in German), Digital Dental News 11 (2014) 66-73.
- [44] S. Harder, M. Kern, C. Mehl, Prothetik konventionell und digital – Ein Vergleich (Article in German), Digital Dental Magazin 4 (2014) 6-13.
- [45] C. Mehl, S. Harder, A. Byrne, M. Kern, Prosthodontics in digital times: a case report, Quintessence Int 44(1) (2013) 29-36.

- [46] C. Mehl, S.T. Becker, Y. Acil, S. Harder, J. Wiltfang, A.A. Dabbagh-Afrouz, W. de Buhr, M. Kern, Impact of vertical loading on the implant-bone interface, *Clin Oral Implants Res* 24(8) (2013) 949-56.
- [47] J. Lin, M. Kern, J. Ge, J. Zhu, H. Wang, O. Vollrath, C. Mehl, Influence of peripheral enamel bonding and chlorhexidine pretreatment on resin bonding to dentin, *J Adhes Dent* 15(4) (2013) 351-9.
- [48] S. Harder, R. Podschun, L. Grancicova, C. Mehl, M. Kern, Analysis of the intrainplant microflora of two-piece dental implants, *Clin Oral Investig* 17(4) (2013) 1135-42.
- [49] C. Mehl, S. Harder, A. Shahriari, M. Steiner, M. Kern, Influence of abutment height and thermocycling on retrievability of cemented implant-supported crowns, *Int J Oral Maxillofac Implants* 27(5) (2012) 1106-15.
- [50] C. Mehl, S. Harder, D. Schwarz, M. Steiner, O. Vollrath, M. Kern, In vitro influence of ultrasonic stress, removal force preload and thermocycling on the retrievability of implant-retained crowns, *Clin Oral Implants Res* 23(8) (2012) 930-7.
- [51] J. Lin, S. Han, J. Zhu, X. Wang, Y. Chen, O. Vollrath, H. Wang, C. Mehl, Influence of fluoride-containing acidic artificial saliva on the mechanical properties of Nickel-Titanium orthodontics wires, *Indian J Dent Res* 23(5) (2012) 591-5.
- [52] S. Harder, E.S. Quabius, L. Ossenkop, C. Mehl, M. Kern, Surface contamination of dental implants assessed by gene expression analysis in a whole-blood in vitro assay: a preliminary study, *J Clin Periodontol* 39(10) (2012) 987-94.
- [53] C.J. Mehl, S. Harder, M. Kern, S. Wolfart, Patients' and dentists' perception of dental appearance, *Clin Oral Investig* 15(2) (2011) 193-9.
- [54] C. Mehl, H. Wang, J. Lin, S. Han, J. Zhu, X. Wang, Y. Chen, O. Vollrath, Influence of pH and fluoride on orthodontic wires. , *Indian J Dent Res* 23 (2011) 591-5.

- [55] C. Mehl, B. Lang, H. Kappert, M. Kern, Microstructure analysis of dental castings used in fixed dental prostheses--a simple method for quality control, *Clin Oral Investig* 15(3) (2011) 383-91.
- [56] C. Mehl, F. Hebllich, R. Lenz, K. Ludwig, M. Kern, The influence of a hyperbaric environment and increased oxygen partial pressure on the corrosion of dental alloys, *Diving Hyperb Med* 41(3) (2011) 151-5.
- [57] J. Lin, J. Zhu, X. Gu, W. Wen, Q. Li, H. Fischer-Brandies, H. Wang, C. Mehl, Effects of incorporation of nano-fluorapatite or nano-fluorohydroxyapatite on a resin-modified glass ionomer cement, *Acta Biomater* 7(3) (2011) 1346-53.
- [58] J. Lin, Y.J. Fan, C. Mehl, J.J. Zhu, H. Chen, L.Y. Jin, J.H. Xu, H.M. Wang, *Eucommia ulmoides* Oliv. antagonizes H<sub>2</sub>O<sub>2</sub>-induced rat osteoblastic MC3T3-E1 apoptosis by inhibiting expressions of caspases 3, 6, 7, and 9, *J Zhejiang Univ Sci B* 12(1) (2011) 47-54.
- [59] C. Mehl, K. Ludwig, M. Steiner, M. Kern, Fracture strength of prefabricated all-ceramic posterior inlay-retained fixed dental prostheses, *Dent Mater* 26(1) (2010) 67-75.
- [60] J. Lin, C. Mehl, B. Yang, M. Kern, Durability of four composite resin cements bonded to dentin under simulated pulpal pressure, *Dent Mater* 26(10) (2010) 1001-9.
- [61] S. Harder, M. Kern, C. Mehl, Behandlungsmöglichkeiten bei tief frakturierten Pfeilerzähnen (Article in German), *Quintessence Deutschland* 12 (2010) 1485- 1494.
- [62] C. Mehl, M. Kern, S. Freitag-Wolf, M. Wolfart, S. Brunzel, S. Wolfart, Does the Oral Health Impact Profile questionnaire measure dental appearance?, *Int J Prosthodont* 22(1) (2009) 87-93.
- [63] S. Harder, S. Wolfart, C. Mehl, M. Kern, Performance of ultrasonic devices for bone surgery and associated intraosseous temperature development, *Int J Oral Maxillofac Implants* 24(3) (2009) 484-90.

- [64] C. Mehl, S. Wolfart, M. Kern, Kieferorthopädische Extrusion von Zähnen durch Magneten (Article in German), *Quintessenz Deutschland* 59 (2008) 595-604.
- [65] C. Mehl, S. Wolfart, M. Kern, Orthodontic extrusion with magnets: a case report, *Quintessence Int* 39(5) (2008) 371-9.
- [66] C. Mehl, S. Harder, M. Wolfart, M. Kern, S. Wolfart, Retrievability of implant-retained crowns following cementation, *Clin Oral Implants Res* 19(12) (2008) 1304-11.
- [67] C. Mehl, S. T., M. Kern, Einflügelige vollkeramische Adhäsivbrücken – minimalinvasive Ästhetik (Article in German), *Ästhetische Zahnmedizin* 4 (2007) 20-27.
- [68] C. Mehl, S. Scheibner, K. Ludwig, M. Kern, Wear of composite resin veneering materials and enamel in a chewing simulator, *Dent Mater* 23(11) (2007) 1382-9.
- [69] C. Mehl, T. Englbrecht, Risikoabwägung bei der Sofort- und Spätimplantation im Frontzahnbereich (Article in German), *Jahrbuch Implantologie*. pages 50-54.