

Literaturverzeichnis

ZTM 4 2022 (26), 198-214

Update digitale Dentaltechnologie

Josef Schweiger M.Sc.

1. Schweiger J, Güth JF, Erdelt KJ, Edelhoff D, Schubert O. Internal porosities, retentive force, and survival of cobalt chromium alloy clasps fabricated by selective laser sintering. *J Prostodont Res* 2019;62(2):210-216.
2. Schweiger J, Stumbaum J, Edelhoff D, Güth JF. Systematics and concepts for the digital production of complete dentures: risks and opportunities. *Int J Comput Dent.* 2018;21(1):41-56.
3. Goodacre BJ, Goodacre CJ. Additive Manufacturing of Complete Denture Fabrication: A Narrative Review. *JProsthodont.* 2022 Mar; 31 (S1):47–51.
4. Schweiger J, Güth JF, Edelhoff D, Stumbaum J. Virtual evaluation for CAD/CAM-fabricated complete dentures. *JProsthDent* 2016; 117(1):28-33.
5. Guazzato M, Albakry M, Ringer SP, Swain MV. Strength, fracture toughness and microstructure of a selection of allceramic materials. Part II. Zirconia-based dental ceramics. *Dent Mater* 2004; 20: 449-456.
6. Hannink RHJ, Kelly PM, Muddle BC. Transformation toughening in zirconia-containing ceramics. *J Am Ceram Soc* 2000; 83: 461-487.
7. Piconi C, Maccauro G. Zirconia as a ceramic biomaterial. *Biomaterials* 1999; 20: 1-25.
8. Teixeira EC, Piascik JR, Stoner BR, Thompson JY. Dynamic fatigue and strength characterization of three ceramic materials. *J Mater Sci Mater Med* 2007; 18: 1219-1224.
9. Heintze SD, Rousson V. Survival of zirconia- and metalsupported fixed dental prostheses: a systematic review. *Int J Prosthodont* 2010; 23: 493-502.
10. Beuer F, Stimmelmayr M, Gernet W, Edelhoff D, Güth JF, Naumann M. Prospective study of zirconia-based restorations: 3-year clinical results. *Quintessence Int* 2010; 41: 631-637.
11. Rinke S, Fischer C. Range of indications for translucent zirconia modifications: clinical and technical aspects. *Quintessence Int* 2013; 44: 557-566.
12. Beuer F, Stimmelmayr M, Gueth JF, Edelhoff D, Naumann M. In vitro performance of full-contour zirconia single crowns. *Dent Mater* 2012; 28: 449-456.
13. Güth JF, Schweiger J: Klinische und Labortechnische Erfahrungen mit einem neuen Zirkoniumdioxid. *Dentallabor* 2017; 65(12):66-75.
14. Güth JF, Schweiger J: Monolithische Zirkoniumdioxid-Restaurationen in der Front? *DENTAL DIGITAL* 2017;1(3):56-65
15. Schweiger J, Bomze D, Schwentenwein M: 3D-Printing of Zirconia – What is the future? *Current Oral Health Reports.* 2019;6(4):339-346(4):339-343
16. Schweiger J., Edelhoff D., Stimmelmayr M., Güth J.-F., Beuer F.: Automated Production of Multilayer Anterior Restorations with Digitally Produced Dentin Cores. *Quintessence Dental Technician QDT* 2015 (38);207-220
17. Schweiger J, Beuer F, Stimmelmayr M, Edelhoff D, Magne P, Güth JF: Histo-anatomic 3D printing of dental structures. *BrDentJ* 2016; 221(9):555-560

18. Schweiger J. Method, Apparatur and Computer Program for Producing a Dental Prosthesis. US8,775,131,B2 (2011)
19. Schweiger J. Method, Apparatur and Computer Program for Producing a Dental Prosthesis. EP 2 363 094 B1 (2011)
20. Schweiger J, Edelhoff D, Güth JF. 3D-printing in digital prosthetic dentistry: An overview of recent developments in additive manufacturing. *J Clin Med* 2021 May;10(9):2010
21. Schweiger J, Güth J-F, Edelhoff D, Seidel K, Graf T. Application of 3D-printed colored 3D-models for the fabrication of full ceramic restorations: A technical report. *J Esthet Restor Dent.* 2022;34(1):235-243
22. Tröster P, Nestler R, Beger M, Urban P. Prozessstandardisierung im grafischen 3D-Druck für 3DP- und FDM-Verfahren. Fogra-Forschungsbericht Nr. 11.002 April 2018
23. N.N. Teil 2: Übersicht der aktuellen 3D-Druckverfahren URL: <https://3druck.com/3d-druck-grundkurs-3d-drucker/> uebersicht-3d-druckverfahren/ Zugriff am 26.04.2022

Literaturverzeichnis

ZTM 4 2022 (26), 194-196

Politur von Zirkoniumdioxid

Prof. Dr. Martin Rosentritt, Dr. Thomas Strasser

1. Belli R, Lohbauer U: The breakdown of the Weibull behavior in dental zirconias. *J Am Ceram Soc* 2021; 104: 4819-4828.
2. DIN EN ISO 7711-1:2009-10: Zahnärztliche rotierende Instrumente – Diamantinstrumente – Teil 1: Maße, Anforderungen, Kennzeichnung und Verpackung (ISO_7711-1:1997_+ Amd 1:2009); Deutsche Fassung EN ISO 7711-1:1998 + A1:2009. Beuth Verlag GmbH, Berlin.
3. Harada K, Shinya A, Gomi H, Hatano Y, Shinya A, Raigrodski AJ: Effect of accelerated aging on the fracture toughness of zirconias. *The Journal of Prosthetic Dentistry* 2016; 115: 215-223.
4. Hoffmann A.: Teleskope aus Zirkoniumdioxid, eine Verarbeitungsempfehlung für den Anwender. 2009; 2009: 1180-1192.
5. Kemaloglu H, Karacolak G, Turkun LS: Can Reduced-Step Polishers Be as Effective as Multiple-Step Polishers in Enhancing Surface Smoothness? *J Esthet Restor Dent* 2017; 29: 31-40.
6. Liu C, Eser A, Albrecht T et al.: Strength characterization and lifetime prediction of dental ceramic materials. *Dent Mater* 2021; 37: 94-105.
7. NTI: Onlinenkatalog. https://www.nti.de/dental/de/info/service/kataloge_online/
8. Preis V, Behr M, Handel G, Schneider-Feyrer S, Hahnel S, Rosentritt M: Wear performance of dental ceramics after grinding and polishing treatments. *J Mech Behav Biomed Mater* 2012; 10: 13-22.
9. Preis V, Schmalzbauer M, Bougeard D, Schneider-Feyrer S, Rosentritt M: Surface properties of monolithic zirconia after dental adjustment treatments and in vitro wear simulation. *Journal of Dentistry* 2015; 43: 133-139.
10. Preis V, Weiser F, Handel G, Rosentritt M: Wear performance of monolithic dental ceramics with different surface treatments. *Quintessence Int* 2013; 44: 393-405.
11. Rosentritt M, Hahnel S, Kieschnick A, Stawarczyk B: Werkstoffkunde-Kompendium „Zirkonoxid“. Moderne dentale Materialien im praktischen Arbeitsalltag 2017.
12. Rosentritt M, Ilie N, Lohbauer U (Hrsg): Werkstoffkunde in der Zahnmedizin. Moderne Materialien und Technologien. Georg Thieme Verlag, Stuttgart, New York 2018.
13. Spies BC, Zhang F, Wesemann C, Li M, Rosentritt M: Reliability and aging behavior of three different zirconia grades used for monolithic four-unit fixed dental prostheses. *Dent Mater* 2020; 36: e329-e339.
14. Vila-Nova TEL, Gurgel de Carvalho, Isabelle Helena, Moura DMD et al.: Effect of finishing/polishing techniques and low temperature degradation on the surface topography, phase transformation and flexural strength of ultra-translucent ZrO₂ ceramic. *Dental Materials* 2020; 36: e126-e139.