

## **Möglichkeiten des SLA- und DLP-Druckes im Praxisalltag**

Dr. med. dent. Andreas Keßler, PD Dr. med. dent. Marcel Reymus

- [1] Bosch G, Ender A, Mehl A. A 3-dimensional accuracy analysis of chairside CAD/CAM milling processes. *J Prosthet Dent.* 2014; 112: 1425–1431.
- [2] Brown GB, Currier GF, Kadioglu O, Kierl JP. Accuracy of 3-dimensional printed dental models reconstructed from digital intraoral impressions. *Am J Orthod Dentofacial Orthop.* 2018; 154: 733–739.
- [3] Hull CW. Method for production of three-dimensional objects by stereolithography. Google Patents; 1990.
- [4] Kessler A, Dosch M, Reymus M, Folwaczny M. Influence of 3D-printing method, resin material, and sterilization on the accuracy of virtually designed surgical implant guides. *J Prosthet Dent.* 2021.
- [5] Keßler A, Hickel R, Ilie N. In vitro investigation of the influence of printing direction on the flexural strength, flexural modulus and fractographic analysis of 3D-printed temporary materials. *Dent Mater J.* 2021.
- [6] Keßler A, Reymus M, Hickel R, Kunzelmann KH. Three-body wear of 3D printed temporary materials. *Dent Mater.* 2019; 35: 1805–1812.
- [7] Kessler A, Reymus M, Hickel R, Kunzelmann KH. Three-body wear of 3D printed temporary materials. *Dent Mater.* 2019; 35: 1805–10182.
- [8] Lebon N, Tapie L, Vennat E, Mawussi B. Influence of CAD/CAM tool and material on tool wear and roughness of dental prostheses after milling. *J Prosthet Dent.* 2015; 114: 236–247.
- [9] Lutz AM, Hampe R, Roos M, Lumkemann N, Eichberger M, et al. Fracture resistance and 2-body wear of 3-dimensional-printed occlusal devices. *J Prosthet Dent.* 2019; 121: 166–172.
- [10] Manapat JZ, Chen Q, Ye P, Advincula RC. 3D printing of polymer nanocomposites via stereolithography. *Macromol Mater Eng.* 2017; 302: 160055366.
- [11] Revilla-Leon M, Ozcan M. Additive manufacturing technologies used for processing polymers: current status and potential application in prosthetic dentistry. *J Prosthodont.* 2019; 28: 146–158.

- [12] Reymus M, Fabritius R, Keßler A, Hickel R, Edelhoff D, et al. Fracture load of 3D-printed fixed dental prostheses compared with milled and conventionally fabricated ones: the impact of resin material, build direction, post-curing, and artificial aging-an in vitro study. *Clin Oral Investig*. 2020; 24: 701–710.
- [13] Reymus M, Hickel R, Keßler K. Accuracy of CAD/CAM-fabricated bite splints: milling vs 3D printing. *Clin Oral Investig*. 2020; 24: 4607–4615.
- [14] Reymus M, Liebermann A, Diegritz C, Kessler A. Development and evaluation of an interdisciplinary teaching model via 3D printing. *Clin Exp Dent Res*. 2021; 7: 3–10.
- [15] Stansbury JW, Idacavage MJ. 3D printing with polymers: challenges among expanding options and opportunities. *Dent Mater*. 2016; 32: 54–64.
- [16] Wohlers T, Gornet T. History of additive manufacturing. *Wohlers report*. 2014; 24: 118.
- [17] You SM, You SG, Kang SY, Bae SY, Kim JH. Evaluation of the accuracy (trueness and precision) of a maxillary trial denture according to the layer thickness: an in vitro study. *J Prosthet Dent*. 2021; 125: 139–145.