

**Digital technology in implantology and implant prosthodontics**

# Where are we today?

PROFESSOR FLORIAN BEUER, MME, BERLIN, GERMANY

**Literature**

1. Beuer F, Schweiger J, Edelhoff D. Digital dentistry: an overview of recent developments for CAD/CAM generated restorations. *Br Dent J* 2008;204:505-511
2. Block MS, Emery RW. Static or Dynamic Navigation for Implant Placement—Choosing the Method of Guidance. *J Oral Maxillofac Surg* 2016;74:269-277
3. Block MS, Emery RW, Cullum DR, Sheikh A. Implant Placement Is More Accurate Using Dynamic Navigation. *J Oral Maxillofac Surg* 2017;75:1377-1386
4. Colombo M, Mangano C, Mijiritsky E, Krebs M, Hauschild U, Fortin T. Clinical applications and effectiveness of guided implant surgery: a critical review based on randomized controlled trials. *BMC Oral Health* 2017;17:150
5. Herklotz I, Beuer F, Kunz A, Hildebrand D, Happe A. Navigation in implantology. *Int J Comput Dent* 2017;20:9-19
6. Hultin M, Svensson KG, Trulsson M. Clinical advantages of computer-guided implant placement: a systematic review. *Clin Oral Implants Res* 2012;23 Suppl 6:124-135
7. Joda T, Zarone F, Ferrari M. The complete digital workflow in fixed prosthodontics: a systematic review. *BMC Oral Health* 2017;17:124
8. Judgar R, Giro G, Zenobio E, et al. Biological width around one- and two-piece implants retrieved from human jaws. *Biomed Res Int* 2014;2014:850120
9. Pozzi A, Arcuri L, Moy PK. The smiling scan technique: Facially driven guided surgery and prosthetics. *J Prosthodont Res* 2018;
10. Schubert O, Nold E, Obermeier M, Erdelt K, Stimmelmayr M, Beuer F. Load bearing capacity, fracture mode, and wear performance of digitally veneered full-ceramic single crowns. *Int J Comput Dent* 2017;20:245-262
11. Schweiger J, Beuer F, Stimmelmayr M, Edelhoff D, Magne P, Guth JF. Histo-anatomic 3D printing of dental structures. *Br Dent J* 2016;221:555-560
12. Schweiger J, Guth JF, Edelhoff D, Stumbaum J. Virtual evaluation for CAD-CAM-fabricated complete dentures. *J Prosthet Dent* 2017;117:28-33
13. Zimmermann M, Mehl A, Mormann WH, Reich S. Intraoral scanning systems - a current overview. *Int J Comput Dent* 2015;18:101-129