

Thema: Digitale Planung und Diagnostik: Wo stehen wir heute?

Autoren: Prof. Dr. Jörg Neugebauer, Dr. Steffen Kistler, Dr. Ingo Frank, Dr. Frank Kistler, Prof. Dr. Günter Dhom

Literatur

1. Aghaloo T, Hadaya D, Schoenbaum TR et al. Guided and Navigation Implant Surgery: A Systematic Review. Int J Oral Maxillofac Implants 2023; 38: 7-15.
2. ARö, DGZMK. S2k-Leitlinie: Dentale digitale Volumentomografie, Langversion 3.0. AWMF-Reg.-Nr. 083/005 2022; <https://www.awmf.org/leitlinien/detail/II/083-005.html>.
3. Arsiwala-Scheppach LT, Chaurasia A, Müller A et al. Machine Learning in Dentistry: A Scoping Review. J Clin Med 2023; 12.
4. Bindl A, Ritter L, Mehl A. Digital 3-D implant planning: Cerec meets Galileos. Int J Comput Dent 2010; 13: 221-231.
5. DGI, DGZMK. S2K-Leitlinie: Indikationen zur implantologischen 3D-Röntgendiagnostik und navigationsgestützten Implantologie, Langversion 2.0. AWMF-Reg.Nr. 083-011 2021; <https://register.awmf.org/de/leitlinien/detail/083-011>.
6. Fiebich M, Layer G, Rühm W. Verwendung von Patienten-Strahlenschutzmitteln bei der diagnostischen Anwendung von Röntgenstrahlung am Menschen Empfehlung der Strahlenschutzkommission Verabschiedet in der 321. Sitzung der Strahlenschutzkommission am 22./23. September 2022 2022.
7. Frackiewicz W, Jankowska A, Machoy ME. CBCT and modern intraoral scanners as tools for developing comprehensive, interdisciplinary treatment plans. Adv Clin Exp Med 2024.
8. Hicks D, Melkers M, Barna J et al. Comparison of the accuracy of CBCT effective radiation dose information in peer-reviewed journals and dental media. Gen Dent 2019; 67: 38-46.
9. Hyun CM, Bayaraa T, Yun HS et al. Deep learning method for reducing metal artifacts in dental cone-beam CT using supplementary information from intra-oral scan. Phys Med Biol 2022; 67.
10. Kong HJ. Classification of dental implant systems using cloud-based deep learning algorithm: an experimental study. J Yeungnam Med Sci 2023; 40: S29-S36.
11. Koppad S, B A, Gkoutos GV, Acharjee A. Cloud Computing Enabled Big Multi-Omics Data Analytics. Bioinform Biol Insights 2021; 15: 11779322211035921.

12. Mathews JD, Forsythe AV, Brady Z et al. Cancer risk in 680,000 people exposed to computed tomography scans in childhood or adolescence: data linkage study of 11 million Australians. *BMJ* 2013; 346: f2360.
13. Pauwels R, Araki K, Siewerdsen JH, Thongvigitmanee SS. Technical aspects of dental CBCT: state of the art. *Dentomaxillofac Radiol* 2015; 44: 20140224.
14. Reiz SD, Neugebauer J, Karapetian VE, Ritter L. Cerec meets Galileos--integrated implantology for completely virtual implant planning. *Int J Comput Dent* 2014; 17: 145-157.
15. Turkyilmaz I, Benli M, Schoenbaum TR. Clinical Performance of 11,646 Dental Implants Using Surgical Guides and Two Different Surgical Approaches: A Systematic Review and Meta-analysis. *Int J Oral Maxillofac Implants* 2023; 38: 16-29.
16. Unger S, Penzenstadler M, Husain AA et al. Comparison of Geometric Accuracy of Low-Dose and Standard-Dose Dental CBCT Imaging Protocols in CAD/CAM-Guided Dental Implant Surgery. *Int J Oral Maxillofac Implants* 2023; 38: 287-294.