

## **Bildgebung in der 8er Region**

Die Digitale Volumentomographie ist zu einem Beinahe-Standard für die Bildgebung im Zusammenhang mit Weisheitszähnen geworden. Warum ist das so und warum ist nicht immer eine dreidimensionale Bildgebung notwendig?

*Dental Tribune German/Austrian/Swiss Edition 12/2014*

Von Priv.-Doz. Dr. Dr. Heinz-Theo Lübbers und Priv.-Doz. Dr. Dr. Astrid Kruse Gujer, Zürich.

1. Günther, H. and U. Heifer, *Rechtsmedizin und Begutachtung in der zahnärztlichen Praxis*. 1984, Stuttgart New York: Thieme.
2. Biscopig, J., et al., [*Proposals for standardized documentation of regional anesthetic techniques in anesthesia protocols*]. *Reg Anaesth*, 1990. **13**(8): p. 193-6.
3. Schneider, K.H. and F. Heimann, *Aufklärung auch über seltene Risiken unerlässlich*. *Zahnarzt und Praxis*, 2011. **6**: p. 322.
4. Susarla, S.M. and T.B. Dodson, *Preoperative computed tomography imaging in the management of impacted mandibular third molars*. *J Oral Maxillofac Surg*, 2007. **65**(1): p. 83-8.
5. Baqain, Z.H., et al., *Frequency estimates and risk factors for postoperative morbidity after third molar removal: a prospective cohort study*. *J Oral Maxillofac Surg*, 2008. **66**(11): p. 2276-83.
6. Blondeau, F. and N.G. Daniel, *Extraction of impacted mandibular third molars: postoperative complications and their risk factors*. *J Can Dent Assoc*, 2007. **73**(4): p. 325.
7. Haug, R.H., et al., *The American Association of Oral and Maxillofacial Surgeons Age-Related Third Molar Study*. *J Oral Maxillofac Surg*, 2005. **63**(8): p. 1106-14.
8. Lübbers, H.T., et al., *Anatomy of impacted lower third molars evaluated by computerized tomography: is there an indication for 3-dimensional imaging?* *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*, 2011. **111**(5): p. 547-50.
9. Schneider, T., et al., *Variations in the anatomical positioning of impacted mandibular wisdom teeth and their practical implications*. *Swiss Dent J*, 2014. **124**(5): p. 520-38.
10. Rood, J.P. and B.A. Shehab, *The radiological prediction of inferior alveolar nerve injury during third molar surgery*. *Br J Oral Maxillofac Surg*, 1990. **28**(1): p. 20-5.

11. Tantanapornkul, W., et al., *Correlation of darkening of impacted mandibular third molar root on digital panoramic images with cone beam computed tomography findings*. Dentomaxillofac Radiol, 2009. **38**(1): p. 11-6.
12. Nakagawa, Y., et al., *Third molar position: reliability of panoramic radiography*. J Oral Maxillofac Surg, 2007. **65**(7): p. 1303-8.
13. Nakamori, K., et al., *Clinical assessment of the relationship between the third molar and the inferior alveolar canal using panoramic images and computed tomography*. J Oral Maxillofac Surg, 2008. **66**(11): p. 2308-13.
14. Eyrich, G., et al., *3-Dimensional imaging for lower third molars: is there an implication for surgical removal?* J Oral Maxillofac Surg, 2011. **69**(7): p. 1867-72.
15. Miracle, A.C. and S.K. Mukherji, *Conebeam CT of the head and neck, part 2: clinical applications*. AJNR Am J Neuroradiol, 2009. **30**(7): p. 1285-92.
16. Miracle, A.C. and S.K. Mukherji, *Conebeam CT of the head and neck, part 1: physical principles*. AJNR Am J Neuroradiol, 2009. **30**(6): p. 1088-95.
17. Ludlow, J.B. and M. Ivanovic, *Comparative dosimetry of dental CBCT devices and 64-slice CT for oral and maxillofacial radiology*. Oral Surg Oral Med Oral Pathol Oral Radiol Endod, 2008. **106**(1): p. 106-14.
18. Jhamb, A., et al., *Comparative efficacy of spiral computed tomography and orthopantomography in preoperative detection of relation of inferior alveolar neurovascular bundle to the impacted mandibular third molar*. J Oral Maxillofac Surg, 2009. **67**(1): p. 58-66.
19. Tantanapornkul, W., et al., *A comparative study of cone-beam computed tomography and conventional panoramic radiography in assessing the topographic relationship between the mandibular canal and impacted third molars*. Oral Surg Oral Med Oral Pathol Oral Radiol Endod, 2007. **103**(2): p. 253-9.
20. Lubbers, H.T., et al., *No plane is the best one-the volume is!* Oral Surg Oral Med Oral Pathol Oral Radiol Endod, 2011.
21. Chandler, L.P. and D.M. Laskin, *Accuracy of radiographs in classification of impacted third molar teeth*. Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons, 1988. **46**(8): p. 656-60.

22. Koong, B., et al., *Methods of determining the relationship of the mandibular canal and third molars: a survey of Australian oral and maxillofacial surgeons*. Australian dental journal, 2006. **51**(1): p. 64-8.
23. Bonsmann, M., et al., *Dentoalveoläre Chirurgie*, in *Mund-, Kiefer- und Gesichtschirurgie*, J.-E. Hausamen, et al., Editors. 2012, Springer-Verlag: Berlin, Heidelberg, New York.
24. Brenner, D.J. and C.D. Elliston, *Estimated radiation risks potentially associated with full-body CT screening*. Radiology, 2004. **232**(3): p. 735-8.
25. Brenner, D.J. and E.J. Hall, *Computed tomography--an increasing source of radiation exposure*. N Engl J Med, 2007. **357**(22): p. 2277-84.