Photons to voxels – the new role of 3D imaging in dentistry

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Dr. Bruno Azevedo has been an assistant professor at the University of Louisville School of Dentistry in the Department of Surgical and Hospital Dentistry since 2014. Prior to this, he was a founding faculty member at Western University of Health Sciences, College of Dental Medicine in Pomona, California. He attended the University of Texas Health Science Center in San Antonio, where he received both a certificate in oral maxillofacial radiology and a masters in dental diagnostic science in 2009. He is a Diplomate of the American Board of Oral and Maxillofacial Radiology. Dr. Azevedo operates an intramural CBCT imaging facility at the University of Louisville and provides consulting services in oral maxillofacial radiology with an emphasis on 3D imaging and 3D printing.

COURSE OUTLINE

Cone beam computed tomography (CBCT) is one of the most exciting topics in dentistry today. 3D imaging is becoming an essential part of patient care to help guide treatment planning and to improve treatment outcomes. Understanding 3D imaging technologies and knowing how to interact with 3D data are necessary in today’s modern dental practice. This lecture is designed to provide general dentists and specialists with the latest information regarding advances in the field of oral radiology. This interactive and evidence-based course will focus on current digital trends regarding 3D cone beam computed tomography (CBCT) imaging applications.

COURSE OBJECTIVES

Topics include:
- Overcoming patient fear of dental x-rays/radiation
- The impact of 3D imaging and treatment planning
- Troubleshooting 3D acquisition problems
- 3D imaging navigation principles
- How to systematically review 3D scans
- 3D imaging integration to CAD/CAM and 3D printing technologies

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