BOOK REVIEWS

Interpretation Basics of Cone Beam Computed Tomography

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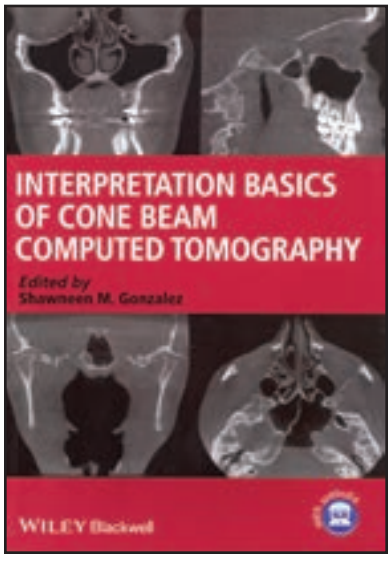
224 pages. $84.99. 2014.
Wiley Blackwell, 1 Wiley Drive, Somerset, NJ 08875. (800) 225-5945; www.wiley.com.



While two textbooks on the topic of cone-beam computed tomography (CBCT) may seem redundant, I found the volumes reviewed here to be complementary. Dr. Gonzalez's book illustrates common radiographic appearances of the oral and maxillofacial region, providing a systematic review of the entire data volume by anatomic region. The goal is to help practitioners and students gain a better understanding of the anatomy and common disease processes that present on CBCT scans. Although the paperback printed edition is in black and white, as would be expected for this topic, a website link provides color images for five sample cases, PowerPoint files for all the figures, and examples of interpretive radiology reports from the editor.

The first chapter comprises an introduction to CBCT and concise discussions of the technology, radiation dosimetry, data views, and common image artefacts. A brief second chapter deals with legal issues surrounding CBCT, including the standard of care and recommendations. Chapters 3 through 8 are organized by anatomic region: the paranasal sinuses and mastoid air cells, sinonasal cavity and airway, cranial base, soft tissues of the brain and orbits, cervical spine and soft tissues of the neck, and TMJs. The concluding section covers recommendations from the American Association of Oral and Maxillofacial Radiologists on the use of imaging for dental implantology, along with software tools for implant planning.

Overall, the book is basic, easy to read, and well illustrated, filling a gap in the current literature on common radiographic appearances of CBCT. It will be particularly helpful to users of medium- and large-field-of-view CBCT devices, which often include the anatomic regions covered in this text. New users of CBCT may also find this to be a handy reference guide as they begin to evaluate their images.

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