


Edition: 1st Edition 2016
pages: 560
Images: 1277
Cover: Hardcover, 21,5 x 28,5 cm
ISBN: 978-88-7492-018-1
Published: March 2016

Quintessenza Edizioni S.r.l.

 Via C. Menotti 65
20017 Passirana di Rho (Milano)
Italy

 +39 (0)2 / 931 82 264

 +39 (0)2 / 931 86 159

 info@quintessenzaedizioni.it

 <http://www.quintessenzaedizioni.it>

Book information

Authors: Giovanna Perrotti / Tiziano Testori / Massimiliano Politi

Title: 3D Imaging and Dentistry

Subtitle: From Multiplanar Cephalometry to Guided Navigation in Implantology

Short text:

For those who are finding the transition from 2D radiography to 3D CBCT confusing, this text explains the use of volumetric imaging in clinical practice and details the indications for its use in every field of dentistry. Ample direction is given on proper image processing and how to read CBCT scans, including a comprehensive anatomical atlas. In addition, the authors explain how to compile volumetric 3D reconstructions and use them in computer simulation to explain surgical phases. The authors focus on topics of greatest clinical interest, including cephalometric diagnostics and a novel approach to esthetic analysis, analysis of the anatomical airway for sleep apnea, a comprehensive review of the maxillary sinus and the clinical surgeries related to it, and treatment planning for guided implant surgery.

Contents

Chapter 01. Basic Principles for the Use of CBCT in Dentistry

- Principles of Digital Radiology
- Computed Tomography
- Image Postprocessing

Chapter 02. Changes in Basal Bones from Infancy to Senescence

- Growth and Development of Facial Bones in 3D Images
- Theories on Control of Craniofacial Growth
- Bone Resorption and Atrophy of the Basal Bone
- Implant Therapy and Craniofacial Growth

Chapter 03. Systematic CBCT Analysis of the Maxilla and Mandible

- Radiologic and Clinical Anatomy of the Maxilla
- Radiologic and Clinical Anatomy of the Mandible
- Clinical Examples

Chapter 04. Evolution of Cephalometry

- Concepts of Cephalometry
- Dysgnathic Presentations in 3D

Chapter 05. Atlas of Cephalometric Landmarks

- Introduction to Cephalometry
- Atlas of Skeletal Landmarks
- Atlas of Soft Tissue Landmarks

Chapter 06. 3D Analysis of Soft Tissues

- Esthetic Analysis of Soft Tissues Using 3D Cephalometry
- Diagnostic 3D Analysis of Soft Tissues with Multiplanar Cephalometric Analysis: Clinical Cases

Chapter 07. 3D Analysis of the Temporomandibular Joint

- Anatomy and Pathology of the TMJ
- Radiologic Examinations of the TMJ

Chapter 08. 3D Analysis of Airway Spaces

- Obstructive Sleep Apnea

- Risk Factors for Obstruction of the Airways and Development of OSA

Chapter 09. 3D Analysis of Impacted Teeth

- Impaction of the Permanent Maxillary Canine
- 3D Imaging and Diagnosis of Impacted Mandibular Third Molars

Chapter 10. CBCT in Periodontology

Chapter 11. CBCT in Endodontics

- Imaging in Endodontics
- Cone Beam Computed Tomography in Endodontics

Chapter 12. Computer-Assisted Guided Surgery: Indications and Limitations

- Analysis of Guided-Surgery Systems

Chapter 13 CBCT: Medicolegal Issues

Co-Authors: Francesca Bianchi • Massimo del Fabbro • Giulia Ferrara • Silvia Ferrario • Luca Fumagalli • Fabio Galli • Francesco Grecchi • Giuliana Lorè • Mario Mantovani • Joanna Katarzyna Nowakowska • Andrea Parenti • Lorenzo Pignataro • Grazia Pozzi • Marco Scarpelli • Silvio Tascheri • Alberto Zerbi

Categories: [Interdisciplinary, Implantology, Radiology and Photography, General Dentistry](#)