

1. Record Nr.	UNINA9910300321403321
Titolo	Maxillofacial Cone Beam Computed Tomography : Principles, Techniques and Clinical Applications // edited by William C. Scarfe, Christos Angelopoulos
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-62061-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XIX, 1242 p. 1291 illus., 836 illus. in color.)
Disciplina	616.0757
Soggetti	Radiology Dentistry Otolaryngology, Operative Stomatognathic System - diagnostic imaging Cone-Beam Computed Tomography - methods Radiography, Dental Stomatognathic Diseases Maxillofacial Abnormalities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Part I Fundamentals of CBCT -- Historical Perspectives on CBCT -- What Is CBCT and How Does It Work? -- Image Processing and Visualization Techniques -- Image Quality -- Part II CBCT in Daily Clinical Practice -- CBCT Use in Daily Practice -- Ethical and Medicolegal Issues Related to CBCT -- CBCT Quality Assurance -- Radiation Dose, Risks, and Protection in CBCT -- Part III Regional Maxillofacial Imaging -- The Skull -- The Jaws, Oral Cavity, and Nasopharynx -- Neck and Cervical Spine -- Anatomy of the Nose and Paranasal Sinuses -- The Upper Airway -- Temporal Bone -- Part IV Clinical Applications -- Cone Beam Computed Tomography and Maxillofacial Diagnosis -- Incidental Findings on CBCT -- Soft Tissue Hyperdensities -- Applications of CBCT in Orthodontics -- Orthodontic and Orthognathic Surgery Planning and Simulation Software -- Dental Implants -- Planning and Assessment of Bone Reconstruction for

Dental Implants -- Endodontic Applications of CBCT -- Periodontal Disease -- CBCT and the Diagnosis of Temporomandibular Joint Disease -- CBCT Sialography -- Image-Guided Surgical Navigation -- CBCT-Based Image Guidance for Sinus and Skull Base Surgery -- Obstructive Sleep Apnea Hypopnea Syndrome -- Dental Impactions -- CBCT Imaging of Sinonasal Disease -- CBCT and Additive Manufacturing Technology.

---

Sommario/riassunto

The book provides a comprehensive description of the fundamental operational principles, technical details of acquiring and specific clinical applications of dental and maxillofacial cone beam computed tomography (CBCT). It covers all clinical considerations necessary for optimal performance in a dental setting. In addition overall and region specific correlative imaging anatomy of the maxillofacial region is described in detail with emphasis on relevant disease. Finally imaging interpretation of CBCT images is presented related to specific clinical applications. This book is the definitive resource for all who refer, perform, interpret or use dental and maxillofacial CBCT including dental clinicians and specialists, radiographers, ENT physicians, head and neck, and oral and maxillofacial radiologists. .

---