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CBCT APPLICATIONS IN DENTAL PRACTICE

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Cone-Beam Computed Tomography (CBCT) systems have been designed for imaging hard tissues of the maxillofacial region. CBCT is capable of providing sub-millimeter resolution in images of high diagnostic quality, with short scanning times (10–70 seconds) and radiation dosages reportedly up to 15 times lower than those of conventional CT scans. CBCT is used for evaluation of implant site, orthodontics, endodontics, localization of mandibular canal, valuation of TMJ and evaluation of pathology. Increasing availability of this technology provides the dental clinician with an imaging modality capable of providing a 3-dimensional representation of the maxillofacial skeleton with minimal distortion. This article provides an overview of currently available maxillofacial CBCT systems and reviews the specific application of various CBCT display modes to clinical dental practice and presenting cases from my private office.

BIOGRAPHY

Ehsan Tavakoli has completed his dentistry from Yazd University of Medical Sciences, Iran. He has completed specialty in Oral and Maxillofacial Radiology from Shahid Beheshti University of Medical Sciences, Iran. He worked as assistant professor at Yazd University of Medical Sciences from 2011 to 2017 for six years. He is the Founder and Technical manager of Dr Tavakoli Oral and Maxillofacial Radiology, Iran. He has over 10 publications in national and international journals.

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