



Application of Cone Beam Computed Tomography for Maxillofacial Diseases

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Message from the Guest Editor

Diseases and pathologies in the maxillofacial region are functional and aesthetic challenges for patients. However, the anatomy in the maxillofacial region is complex. Cone-beam computed tomography (CBCT), as an alternative to traditional computed tomography, offers a cheaper option requiring a lower dose of radiation, while providing good image quality, and has been a workhorse for the oral and maxillofacial imaging of hard tissue.

The scope of the use of CBCT in the maxillofacial region ranges from simple oral surgery to complex maxillofacial deformities, diseases and trauma. Considerations and applications of CBCT in various anatomical spaces and clinical applications are of huge interest to practicing clinicians. Computer virtual planning and 3D printing based on CBCT images have further extended the clinical applications. Artificial intelligence can also use the data acquired from CBCT for the automated detection and diagnosis of disease conditions through machine- and deep-learning algorithms.

This Special Issue aims to cover the advances of CBCT in the diagnosis and management of maxillofacial diseases as well as other conditions that are of high clinical relevance.





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