



New Insights into Diagnosis of Orthodontics

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Message from the Guest Editors

The discussion around orthodontic diagnostics has been going on for over 100 years, yet there is no universally accepted diagnosis which can recognize all abnormalities in the masticatory system due to its multifactorial characteristics. The classification of malocclusion includes the assessment of facial features, occlusal conditions, and functional assessment of the masticatory system in sagittal, vertical, and transverse dimensions. Important in diagnosis is also diagnostics based on cephalometric analysis, which is a pivotal part of orthodontic diagnosis as it defines the skeletal and dental relations in a face. Dysfunctions and parafunctions of the masticatory apparatus in breathing, chewing, swallowing, and pronunciation, as well as assessment of periodontal tissues, also require careful assessment. Comprehensive orthodontic diagnosis is a basis for orthodontic treatment planning, execution, and retention.

Recent advances in diagnostic techniques in dentistry such as digital radiology and the use of dental and facial scanners are very helpful for performing three-dimensional assessment of the deformities in the maxillofacial complex.





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