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Differential diagnosis of anterior crossbite is the first step of early intervention of class III malocclusion

Anterior crossbite is a common problem frequently seen in the primary, mixed or permanent dentition and certainly needs early intervention to prevent further damage to occlusal structures and adverse growth effects to the dentition and basal bones. Anterior cross bite is one of the main symptoms of overall sagittal dentofacial anomalies that can be caused by different structural deformity. Therefore early recognition and differential diagnosis are the first steps toward effective treatment. Generally there are five kinds of anterior crossbites: (1) Simple dental crossbite, (2) Functional crossbite (pseudo class III), (3) Dento-alveolar crossbite, (4) Potential class III, and (5) Skeletal Class III malocclusion. Depending on the origin of the anterior crossbite, and their morphology, etiology and the patient's age, there are several treatment options ranging from simple removable appliance, or comprehensive fixed therapy, to orthopedic approach or orthognathic surgery. The objectives of this presentation are: To inform dental professionals about the etiology, diagnostic criteria and best treatment options of various anterior cross bites; To illustrate simple effective treatment methods for each kind of anterior crossbite from primary and mixed dentition, to non-surgical treatment at permanent dentition. The main goal of this presentation is to highlighting the advantages of early intervention.

Biography

Aliakbar Bahreman graduated from Tehran University in 1961. He did his Pediatric Dentistry Fellowship in 1964 and Specialty in Orthodontic and Dentofacial Orthopedic. He did his MS from Eastman Institute for Oral Health, University of Rochester, New York in 1967. He was the Dean of Dental School, Chair and Founder of both Orthodontic and Pediatric Dentistry departments, National University of Iran from 1967 to 1999. Currently, he is a Clinical Professor at Eastman Institute for Oral Health, University of Rochester, NY. He has more than 14 published papers in national and international journals and serving as an Editorial Board Member of some journals. He is the Author of the book "Early Age Orthodontic Treatment".

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