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## INTERCEPTIVE ORTHODONTICS IN PEDIATRIC PATIENTS BY FIXED BRACES

*Abhyanth Shetty*

Rajiv Gandhi University of Health Science, India

**C**lass III malocclusion has been a challenge for most of the clinicians when it comes for diagnosis, prognosis and treatment plan. This malocclusion can be classified as dentoalveolar, skeletal or functional, which will determine the prognosis. A 8½ year-old male patient in the mixed dentition stage, complained having anterior crossbite. Facial evaluation showed slight lack of development of the middle third. Intraoral examination revealed a forward shift of the mandible, with a marked mesial molar relationship, and a crossbite of the four permanent incisors with in-standing upper right lateral incisors and retained upper right lateral deciduous tooth, thus resulting in a functional Class III malocclusion. In this case, the patient was treated with fixed 2x4 appliances on upper and lower arch for 8 months, followed by retention protocol. After completion of the treatment, the patient was followed for a 6 months period, and stability was observed. The clinical treatment results showed that it is possible to achieve favorable outcomes with early management with fixed braces in Class III malocclusion patients and showed a significant growth in the sagittal skeletal position of the maxilla and significant improvement in the soft tissue profile. There is an increase in mandibular length as well as in maxillo-mandibular sagittal skeletal relationships. The patient exhibited a significant reduction in negative overjet and overbite. The lower incisors were retroclined and the lower first molars moved significantly in a vertical direction. This case shows that that the stability of the correction of a functional Class III malocclusion with minor skeletal involvement is mainly due to early diagnosis and the early intervention. So early treatment allows proper facial growth and development and prevents further worsening of the malocclusion, with more severe consequences like need for surgery, extraction or more complicated orthodontic procedure.

### *Biography*

Abhyanth Shetty is a specialist Orthodontist who always has a holistic approach in treating patients by using natural orthodontics. He graduated in Bachelor of Dental Surgery in 2002 and earned his Master's degree in Orthodontics from Rajiv Gandhi University of Health Sciences in 2006. He has completed his fellowship in Neuromuscular Orthodontics and Ganthology from Italy in 2016 and currently he is pursuing his Master's course in Neuromuscular Orthodontics and Ganthology from Spain. He has also undergone special training in treating patients using Orthotropic Philosophy in New Zealand for 5 years where he believed that normal growth and development of face and jaws mainly depends on correct oral posture i.e., tongue resting against palate, lips sealed, breathing from nose and teeth in or nearly in contact.

abhiortho@gmail.com