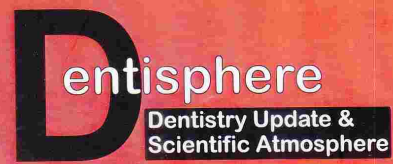


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ORTHODONTICS REMOVABLE FIXED APPLIANCES IN MANAGING TREATMENT OF DENTAL CLASS I MALOCCLUSION WITH MAXILLARY MIDLINE DIASTEMA RELATED TO MESIODENS AND BIMAXILLARY DENTAL PROTRUSION

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ABSTRACT

Background: The correction of dental class I malocclusion with maxillary midline diastema related to mesiodens and bimaxillary dental protrusion in child patient is one of moderate biomechanical in orthodontics. Maxillary midline diastema is resulting from mesiodens and convexity of the face is resulting from protruded and proclined upper and lower incisor caused poor facial aesthetic.

Purpose: The aim of this case report is to know the mechanism of orthodontics removable fixed appliances in managing treatment of dental class I malocclusion with maxillary midline diastema related to mesiodens and bimaxillary dental protrusion.

Case management: This case report presents an 11-year-old boy with dental class I malocclusion with maxillary midline diastema related to mesiodens and bimaxillary dental protrusion, SNA 83°, SNB 76°, ANB 7°, overjet 4 mm, overbite 6 mm, the diastema was 5 mm and convex facial profile. Firstly, we extract the mesiodens to correct the diastema and then we used orthodontics removable fixed appliances such as: Watkin appliance, labial bow, button and wrap around to the patient.

Conclusion: The result of this case showed that orthodontics removable fixed appliances technique can be considered an effective therapy for correction class I malocclusion with maxillary midline diastema related to mesiodens and bimaxillary dental protrusion.

Key words: maxillary midline diastema, mesiodens, bimaxillary dental protrusion, Watkin appliance, orthodontics removable fixed appliances

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