

TREATMENT OF SEVERE CROWDING USING PALATAL MINI IMPLANTS: CASE PRESENTATION

Clinic of Orthodontics, School of Dental Medicine, University of Belgrade
Atlas Mia, Marinković Nemanja, Arsić Ivan, Miličić Milena, Nedeljković Nenad

INTRODUCTION

Ectopic buccally erupted maxillary canines are one of the main causes of crowding in frontal area. The most common treatment option of such condition is the extraction of maxillary first premolars. Using palatal mini implants, there is another treatment possibility - distalization of maxillary molars and premolars to gain space for the canines.

AIM

Describe an orthodontic therapy result of a patient with severe crowding. Extractions were not indicated.

CASE PRESENTATION

Clinical examination of a female patient, 16 years old, with skeletal class III, bilateral and anterior crossbite, severe crowding and several teeth missing. Upper right first molar and upper left first and second molar were indicated for extraction (non orthodontic reason). Study cast analysis showed lack of space in area of upper canines and premolars by 11mm. During treatment, two palatal mini implants were used in combination with individual appliance for distalization. Treatment also included multibracket fixed appliance. Elastic chains were used for distalization. This treatment phase lasted 9 months.

BEFORE



AFTER



RESULTS

At the end of the treatment all four upper premolars were distalized and upper canines were correctly positioned.

CONCLUSION

Every patient must be individually assessed and treated with the use of right biomechanics. The best option should be chosen. Distalization with mini implants for skeletal anchorage is an efficient and predictable treatment modality.

