

INTRODUCTION

Orthodontic treatment initially undertaken with conventional brackets showed suboptimal growth and a Class III anterior crossbite upon appliance removal. In order to address this, a comprehensive approach was pursued involving preliminary scanning, cephalometry, and panoramic X-rays. Invisalign® aligners were chosen for retreatment, employing buttons and Class III elastics. Aligner changes were scheduled every 7 days.

CASE DESCRIPTION

- Age: 14
- Gender: Female
- Treatment Duration: 15 months
- Aligner Wear Time: 1 week per set
- Invisalign® Submission Option: Invisalign Comprehensive®

Number of aligners: Maxillary: 51. Mandibulary : 51



Image 1- profile pictures before

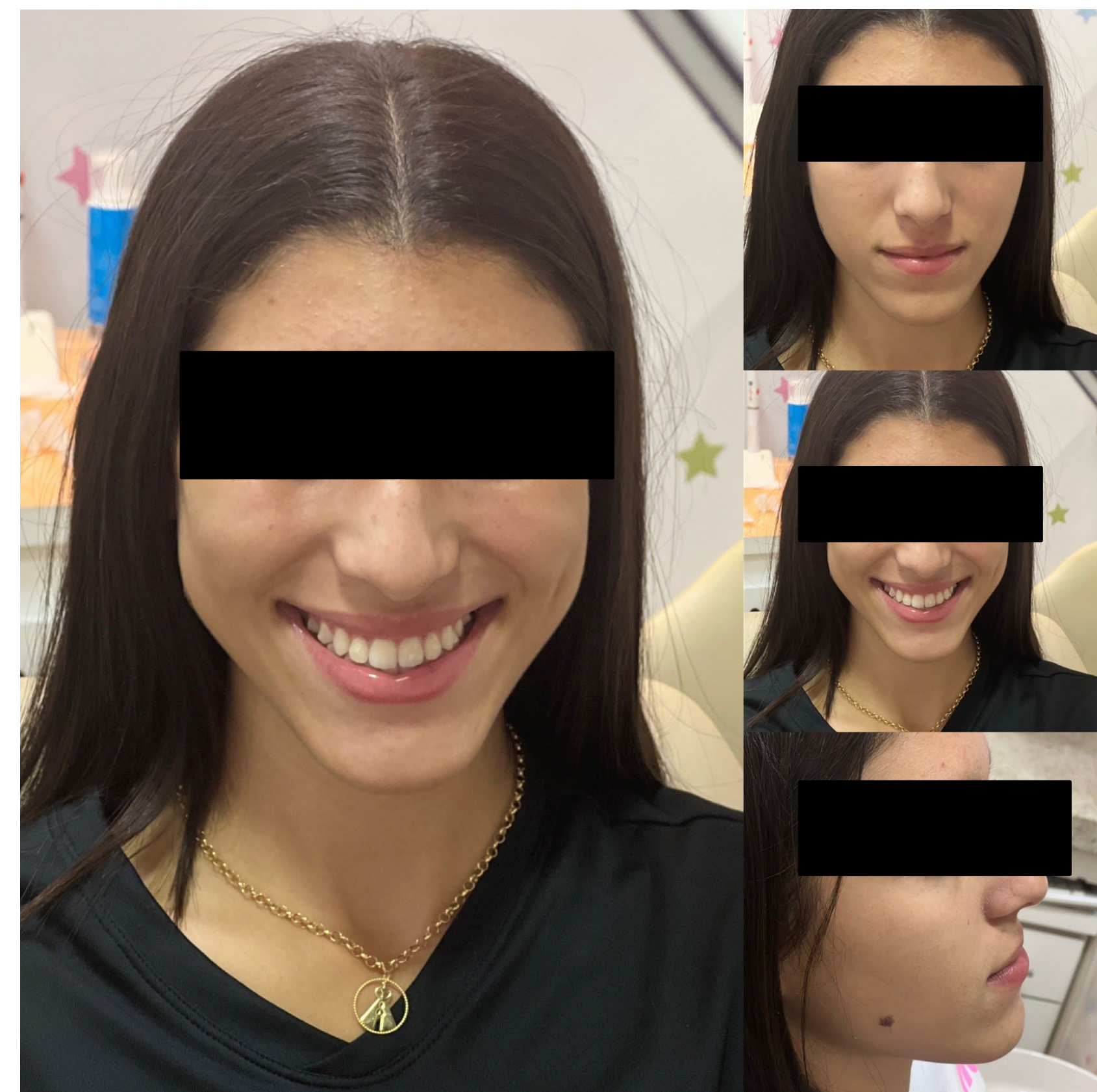


Image 2 - profile pictures after



Image 3 left- occlusion A) before; B)After



Image 4 Front - occlusion A) before; B)After

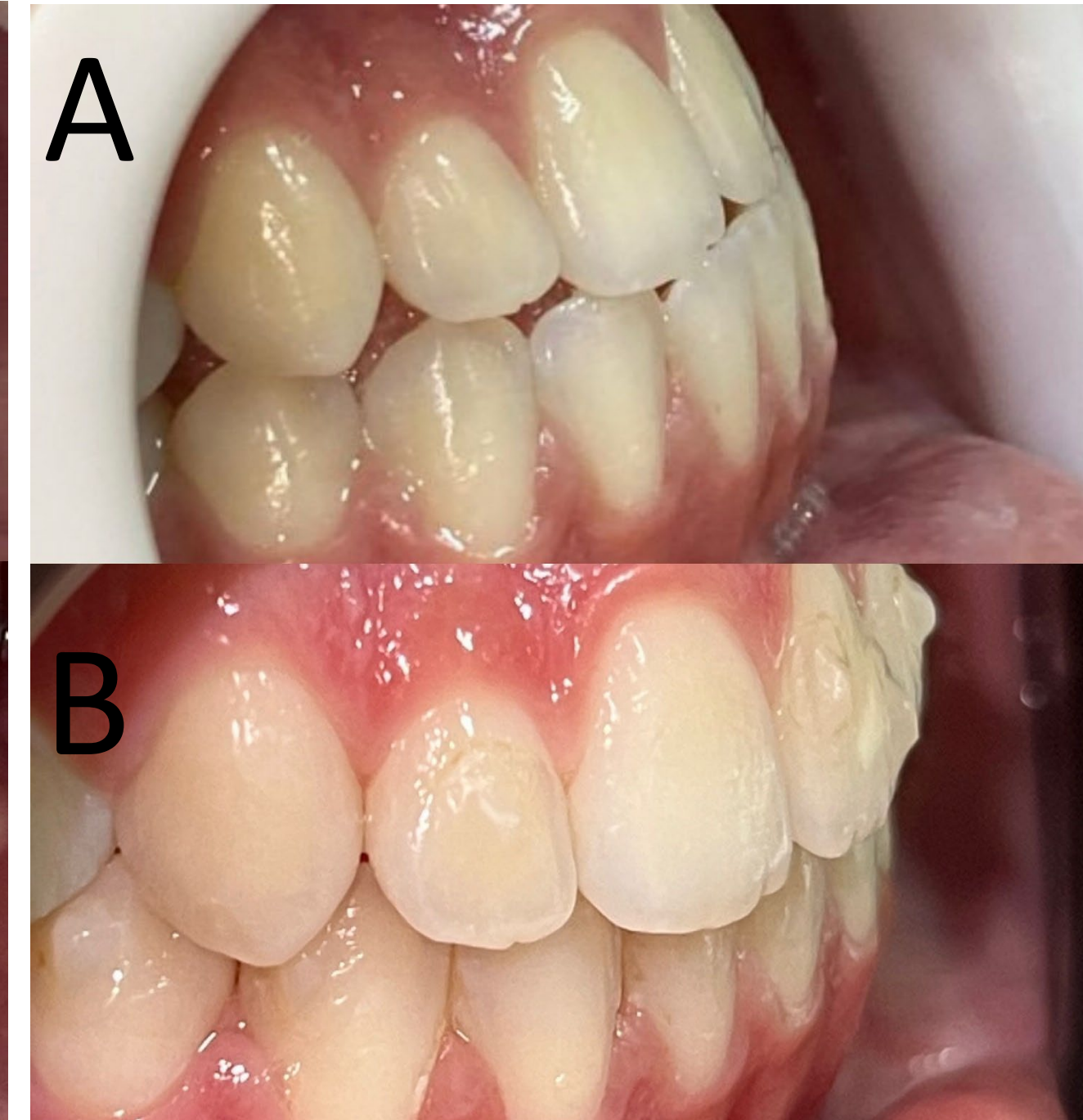


Image 5 right - occlusion A) before; B)After

Results achieved

- Maintained Class I relationship
- Functional canine guidance on both sides
- Attained normal overjet and overbite
- Coincident midlines

- Proper axial inclination of incisors
- Improved arch form
- Attained aesthetic smile line
- All treatment goals met
- Achieved harmonic arches

RESULTS

Through the application of Class III elastics and aligners, successful correction was achieved, transitioning the bite to a Class I relationship and uncrossing the anterior bite. The outcome was also influenced by the patient's diligent aligner use.

CONCLUSION

Orthodontic retreatment utilizing aligners has proven effective and yielded satisfactory results. This approach benefits both the dentist through predictable treatment planning and the patient by providing comfort. However, successful outcomes are contingent upon consistent and correct aligner usage.