



Non-extraction camouflage on a fully cooperative full-step class II division 2 adult patient treated with en-masse distalization, class II elastics and preadjusted lingual appliance: A case report

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Keywords

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Summary

This article describes one adult bilateral full-step class II case with severe initial upper incisors retroclination successfully treated by a completely invisible lingual appliance. A non-extraction treatment to compensate for the severe sagittal discrepancy was made possible following the excellent patient cooperation with intermaxillary elastics, combined with upper arch en-masse effective distalization with miniscrews. The application of an auxiliary torque spring was essential to increase upper incisors torque during class II mechanics. This case report shows the possibility of obtaining a full-step class II correction in an hypodivergent adult patient with a completely invisible appliance, taking advantage for the patient cooperation, for a more straightforward and faster non-extraction case resolution. It also underlines on the other hand the importance of successfully controlling incisors torque with auxiliaries in cases of severe retroclination in an adult class II malocclusion, in combination with the simultaneous distalization mechanics for mono-lateral full-step class II correction, by means of a completely invisible appliance.

Introduction

In severe skeletal class II cases with no growth remaining, two approaches are possible: orthodontic camouflage or surgical-orthodontic treatment [1–3].

The decision is based on many factors including the severity of the skeletal discrepancy, the harmony of the soft-tissue

proportions among the nose, lips and chin [4], the patient motivation [4–6].

In cases of patients who are not concerned about their appearance and do not consider orthognathic surgery, in absence of functional problems, the aim of camouflage treatment is to mask the skeletal discrepancy; in this view, extractions are in many cases needed in the upper arch (either first or second