eos2015
VENICE
91st Congress of the European Orthodontic Society

EFfectiveness of early combined orthopedic and functional treatment in Class 2 patients with increased overjet and labial incompetence

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Aim

To assess the dental, skeletal, and soft tissue effects of early combined orthopedic and functional treatment in Class II patients

Materials and Methods

12 Class II patients (mean age 7.4 ± 1.5 years) with maxillary transverse deficiency, mandibular retrusion, increased overjet and labial incompetence were treated with ERP followed by Sander bite jumping associated to lip bumper. Lateral cephalograms were taken before therapy and at the completion of orthopedic and functional treatment. The mean duration of ERP was 6±1 months with an average expansion of 5±1.5 mm whereas for the bite jumping the treatment duration was 10±2 months with a wax bite taken in edge to edge position.

Results

All the patients showed a significant restraint in the sagittal skeletal position of the maxilla and an important mandibular response with an improvement in maxillo-mandibular sagittal skeletal relationships, also at the soft tissue level. The group exhibited a meaning reduction in overjet and an increase in molar relationship. The upper incisors were significantly retruded while the lower incisors were slightly proclined so the lips became competent.

Conclusions

This kind of early treatment can be considered an effective protocol in reducing overjet and correcting labial incompetence in Class II patients with a combination of skeletal, dentoalveolar and soft tissue modifications, also for preventing dental trauma in growing patients.

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