

Université de Montréal

**COMPARAISON DES EFFETS SUR LA CROISSANCE DES  
MAXILLAIRES DE L'UTILISATION DU FORSUS® VERSUS CELLE  
DES ÉLASTIQUES DE CLASSE II**

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**Objective:** To compare the effects on jaw growth of using Forsus Springs versus class II elastics.

**Material and Method:** A sample of 30 patients was treated non extraction. Following a preliminary alignment phase with full fixed braces, 23 patients were treated with Forsus and 7 patients were treated with class II elastics. Cephalometric radiographs were taken at the end of the alignment phase and at the end of the functional phase. Radiographic measurements were taken to assess the effects of both appliance types. Questionnaires to assess comfort with the appliances were given to the patients approximately halfway through treatment.

**Results:** No statistically significant differences in maxillary or mandibular growth were noted between groups. Both treatments proclined lower incisors and retroclined upper incisors, with the Forsus causing more retroclination of the upper incisors. Forsus caused a statistically significant steepening of the occlusal plane. With respect to patient comfort, there was no statistically significant difference between the two treatments, although maintaining oral hygiene was easier in the elastics group.

**Conclusions:** The effects of the Forsus and class II elastics are similar with respect to maxillary and mandibular growth. However, the Forsus produced a statistically significant increase in occlusal plane steepening and greater retroclination of upper incisors.