

# CFAO Graduate Student Posterboard Abstracts

## University of Western Ontario

### **A CEPHALOMETRIC COMPARISON OF TREATMENT EFFECTS IN ORTHODONTIC CAMOUFLAGE OF SKELETAL CLASS III CASES**

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**Introduction:** The purpose of this retrospective cohort study was to determine the dental and soft tissue changes in response to different treatment modalities for orthodontic camouflage of skeletal Class III cases.

**Methods:** Seventy-three patients with skeletal Class III malocclusion were selected from the University of Western Ontario graduate orthodontic clinic archives as well as three private practice clinics. Twenty-three patients had treatment with extraction of lower second molars, twenty-five had lower premolar extractions and twenty-five had non-extraction compensation of their skeletal malocclusion. All patients were beyond their peak mandibular growth, being at least cervical vertebrae stage 4, 5, or 6. Lateral cephalometric radiographs from pre- and post-treatment were digitized, traced and analyzed for dental, skeletal and soft tissue changes.

**Hypothesis:** The null hypothesis was that there is no difference in final outcome of upper and lower incisor inclination, overbite, overjet, first molar inclination, occlusal plane rotation, and lip relation to Sn-Pg' line.

**Results:** Data analysis is in progress.