

[Print Version]
[PubMed Citation] [Related Articles in PubMed]

The Angle Orthodontist: Vol. 64, No. 5, pp. 371-376.

## Shape of the craniofacial complex in patients with Klinefelter syndrome

Hrvoje Brkic, DDS, MSD, PhD; a Zvonimir Kaic, DDS, PhD; Zvonimir Poje, DDS, PhD; Zvonimir Singer, MD, PhD, FIAC

<sup>a</sup>School of Dentistry, Gunduliceva 5, 41 000 Zagreb, Croatia

## **ABSTRACT**

The shape and size of the craniofacial complex in 35 adults with Klinefelter syndrome (47,XXY) were analyzed cephalometrically and compared with 60 control males. Twenty-four angular and 18 linear measurements were obtained for each subject. The results showed that the 47,XXY males were different from the controls in several areas of the craniofacial skeleton. Most of the differences were located in the cranial base and the cranial base angle (p < 0.02). The length of the maxillary base was greater (p < 0.05) and more prognathic (p < 0.01) in the study group. The mandible was also longer and more prognathic (p < 0.01).

- H. Brkic is a scientific research assistant in Department of Tooth Morphology, School of Dentistry University of Zagreb, Croatia
- Z. Kaic is an associate professor of tooth morphology and dental anthropology and Chairman of the Department of Tooth Morphology, School of Dentistry, University of Zagreb
  - Z. Poje is professor of orthodontics in the Department of Orthodontics, School of Dentistry, University of Zagreb
- Z. Singer is professor of gynecology and obstetrics in the Clinic of Gynecology and Obstetrics, University Hospital \* Merkur\* in Zagreb

**KEY WORDS:** Craniofacial dimensions, Klinefelter syndrome, Sex chromosomes.