# \*ANGLE ORTHODONTIST



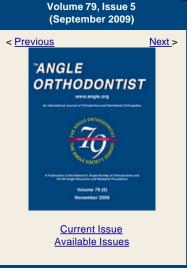
An International Journal of Orthodontics and Dentofacial Orthopedics

HOME JOURNAL SUBSCRIBERS AUTHORS REVIEWERS SOCIETY RELATED LINKS HELP

Quick Search

Home > The Angle Orthodontist > September 2009 > Maxillary Incisor Proclination Effect on the Position of Point A in Cl...

Advanced Searc



◆Previous Article
Volume 79, Issue 5 (September 2009)
Next Article

Add to Favorites A Share Article 🐉 Export Citations 📓 Track Citations 📓 Permissions

Full-text PDF

Kazem S. Al-Nimri, Abdalla M. Hazza'a, Rami M. Al-Omari (2009) Maxillary Incisor Proclination Effect on the Position of Point A in Class II division 2 Malocclusion. The Angle Orthodontist: Vol. 79, No. 5, pp. 880-884.

Original Articles

## Maxillary Incisor Proclination Effect on the Position of Point A in Class II division 2 Malocclusion

Kazem S. Al-Nimria, Abdalla M. Hazza'ab, and Rami M. Al-Omaric

#### **Abstract**

**Objective:** To test the hypothesis that the magnitude of alteration in the position of point A is not associated with proclination of the upper incisors in Class II division 2 malocclusion.

Materials and Methods: Cephalometric films were taken for 30 Class II division 2 patients (8 males and 22 females; average age, 18.3 years) before and after upper incisor proclination. The total change in the position of point A was measured by superimposing the pretreatment and postproclination lateral cephalograms on the sella-nasion line at the sella. To determine the local effect of alveolar bone remodeling associated with upper incisor proclination on the position of point A, postproclination tracing of the maxilla was superimposed on the pretreatment tracing according to the Bolton template of maxillary superimposition.

**Results:** The total vertical displacement in Point A position was downward by 0.84 mm (P = .002), and the total horizontal displacement was forward by 0.45 mm (P = .054). Assessment of local changes in point A revealed that the position of point A had moved backward by 0.60 mm (P = .001). No significant change was observed in the value of the sella-nasion–point A angle (SNA).

**Conclusion:** The hypothesis is rejected. The position of point A is affected by local bone remodeling associated with proclination of the upper incisor in Class II division 2 malocclusion, but this minor change does not significantly affect the SNA angle.

Keywords: Point A, Upper incisor inclination, Class II division 2, SNA angle

Accepted: October 2008;

- <sup>a</sup> Associate Professor, Department of Orthodontics, School of Dentistry, Jordan University of Science and Technology, Irbid, Jordan
- <sup>b</sup> Associate Professor, Department of Maxillo-facial radiology, School of Dentistry, Jordan University of Science and Technology, Irbid, Jordan
- <sup>c</sup> Graduate MS student, Department of Orthodontics, School of Dentistry, Jordan University of Science and Technology, Irbid, Jordan

Corresponding author: Dr Kazem S Al-Nimri, Department of Orthodontics, School of Dentistry, Jordan University of Science and Technology, JUST PO Box 3030 Irbid, Irbid 22110 Jordan (kazemnimri@hotmail.com)



### Journal Information

ISSN: 0003-3219 Frequency: Bimonthly

# Register for a Profile

# Not Yet Registered?

Benefits of Registration Include:

- A Unique User Profile that will allow you to manage your current subscriptions (including online access)
- The ability to create favorites lists down to the article level
- The ability to customize email alerts to receive specific notifications about the topics you care most about and special offers

Register Now!

## **Related Articles**

# **Articles Citing this Article**

Google Scholar

## Search for Other Articles By Author

- € Kazem S. Al-Nimri
- € Abdalla M. Hazza'a
- € Rami M. Al-Omari

#### Search in:

ja Angle Online

Search



top 🛎

© 2010 The E. H. Angle Education and Research Foundatio

Allen Press, Inc. prints The Angle Orthodontis

Allen Press, Inc. assists in the online publication of The Angle Orthodontis

Technology Partner - Atypon Systems, Inc.