*ANGLE ORTHODONTIST



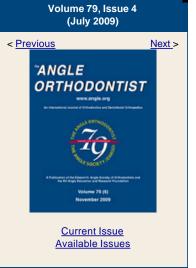
An International Journal of Orthodontics and Dentofacial Orthopedics

HOME JOURNAL SUBSCRIBERS AUTHORS REVIEWERS SOCIETY RELATEDLINKS HELP

Quick Search

Home > The Angle Orthodontist > July 2009 > Skeletal Anomalies and Normal Variants in Patients with Palatally Disp...

Advanced Searc



Volume 79, Issue 4 (July 2009) **◄ Previous Article** Next Article

📢 Add to Favorites 🦱 Share Article 🕹 Export Citations 🎑 Track Citations 📦 Permissions

Full-text

PDF

Rosalia Leonardi, Ersilia Barbato, Maurizio Vichi, Mario Caltabiano (2009) Skeletal Anomalies and Normal Variants in Patients with Palatally Displaced Canines. The Angle Orthodontist: Vol. 79, No. 4, pp. 727-732.

Original Articles

Skeletal Anomalies and Normal Variants in Patients with Palatally Displaced Canines

Rosalia Leonardi^a, Ersilia Barbato^b, Maurizio Vichi^c, and Mario Caltabiano^d

Abstract

Objective: To test the null hypothesis that there is no increased prevalence of skeletal anomalies and/or normal variants as evidenced by the cephalometric radiographs of patients with palatally displaced canines (PDC).

Materials and Methods: The treatment records of 38 white subjects between 14 and 20 years old with PDC were collected and evaluated retrospectively. Inclusion criteria for the study required that the case records include good-quality panoramic radiographs and lateral cephalometric radiographs with the first four cervical vertebrae clearly visible. The anomalies recorded for each case included sella bridge, atlanto-occipital ligament calcification or ponticulus posticus, and posterior arch atlas deficiency. A control group consisted of 70 consecutively treated subjects who had no other dental anomalies and whose maxillary canines had erupted normally. Fisher's exact test and Pearson's chi-square test were used to determine possible statistically significant differences in the incidence of skeletal anomalies and/or normal variants between the group of patients with PDC and the control group.

Results: The prevalence of skull anomalies and normal variants seen in cephalometric radiographs was increased in patients with PDC. Because of the presence of ponticulus posticus (Pearson's chi-square, P < .050; Fisher's exact test, P < .052), sella bridge (Pearson's chi-square, P < .042; Fisher's exact test, P < .042), and posterior arch deficiency (Pearson's chi-square, P < .047; Fisher's exact test, P < .039), statistically significant differences were observed between subjects with PDC and the control group.

Conclusions: The null hypothesis was rejected. There is an increased prevalence of skull skeletal anomalies and/or normal variants in patients with PDC.

Keywords: Palatally displaced canine, Skeletal anomalies, normal variant, Cephalometric radiograph

Accepted: October 2008;

- ^a Associate Professor, Department of Orthodontics, University of Catania, Catania, Italy
- ^b Professor, Department of Orthodontics, University of Rome "La Sapienza," Rome, Italy
- ^c Professor, Department of Statistics, University of Rome "La Sapienza," Rome, Italy
- ^d Professor, Department of Orthodontics, University of Catania, Catania, Italy

Corresponding author: Dr Rosalia Leonardi, Department of Orthodontics, University of Catania, via S. Sofia no. 78, Catania, Italy (rleonard@unict.it)



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

- € Rosalia Leonardi
- Ersilia Barbato
- € Maurizio Vichi
- € Mario Caltabiano

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