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#### عنوان مقاله:

Estimating physiologic age using cervical vertebral maturation

محل انتشار:

دوفصلنامه ارتودنسی ایران, دوره 2, شماره 1 (سال: 1386)

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## نویسندگان:

Valiullah Arash - Assistant Professor, Orthodontics Department, Babol University of Medical Sciences

Reza Nosrati - Epidemiologist, Babol University of Medical Sciences

Mahmoud Hajiahmadi

#### خلاصه مقاله:

Objective: The use of lateral cephalometric radiography for evaluating cervical vertebral bone age is a method that can substitute for the hand-wrist radiography method. The aim of this study was to determine the correlation between the cervical vertebral bone age, chronological age and hand-wrist bone age.Methods: Lateral cephalometric and hand-wrist radiographs of 1Y $\Delta$  girls ( $\Lambda$ -1 $^{W}$  wars) who needed orthodontic treatments were chosen. The dimensions of the  $^{W}$ rd and Fth cervical vertebral bodies were measured by a digital micrometer caliper with  $\circ$ .o $^{W}$ -mm accuracy and determined a regression formula to obtain cervical vertebral bone age. The data were collected and analyzed by a stepwise multiple regression analysis, and the results were compared with those obtained using the hand-wrist radiography method.Results: Our investigation shows that the correlation coefficient between cervical vertebral bone age and hand-wrist bone age ( $\circ$ .Y $^{W}$ F) is significantly (p< $\circ$ .o1) higher than that obtained for the relationship between cervical vertebral bone age and chronological age ( $\circ$ .Y $^{W}$ F). The correlation between hand-wrist bone age and chronological age ( $\circ$ .Y $^{W}$ F). The correlation between hand-wrist bone age and chronological age ( $\circ$ .Y $^{H}$ F) we show that the average difference (absolute value) between cervical vertebral bone age and hand-wrist bone age ( $\circ$ .Y $^{H}$ F) we show that the average difference (absolute value) between cervical vertebral bone age and hand-wrist bone age ( $\circ$ .Y $^{H}$ F) we show that the average difference (absolute value) between cervical vertebral bone age and chronological age ( $\circ$ .Y $^{H}$ F) we show that the average difference (absolute value) between cervical vertebral bone age and chronological age ( $\circ$ .Y $^{H}$ F) we show that the average difference (absolute value) between cervical vertebral bone age and chronological age ( $\circ$ .Y $^{H}$ F) we show that the average difference (absolute value) between cervical vertebral bone age and chronological age ( $\circ$ .Y $^{H}$ 

### کلمات کلیدی:

Physiologic age, Chronological age. Hand-wrist radiography, Lateral cephalometric radiography, Cervical vertebral bone age

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