عنوان مقاله:

Relationship of bone and soft tissue thickness with age and gender for orthodontic mini-implant placement by CBCT

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نویسندگان:

Masoumeh Johari - Assistant Professor, Department of Oral & Maxillofacial Radiology, Faculty of Dentistry, Tabriz

University of Medical Sciences, Tabriz, Iran

F. Esmaeili - Assistant Professor, Department of Oral & Maxillofacial Radiology, Faculty of Dentistry, Tabriz University of Medical Sciences. Tabriz, Iran

Arman Saeedi vahdat - Post-graduate Student, Department of Oral & Maxillofacial Radiology, Faculty of Dentistry,

Tabriz University of Medical Sciences, Tabriz, Iran

S. Naghinejad Ahmadi - Post-graduate Student, Department of orthodontics, Faculty of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran

خلاصه مقاله:

Background and aim: The aim of the present study was to measure the thicknesses of bone and soft issues in the mid palatal area at certain points for the placement of orthodontic mini-implants using CBCT and evaluate their relationships with age and gender. Materials and methods: A total of 181 subjects were evaluated in the present study, consisting of males (٣١.٩%) with a mean age of ۴١.۴۶±١٣.٨٨ years and females (٤٠.٩%) with a mean age of ٣٨.۴٧±١١.۶۶ years. In all the samples Yo points were evaluated. First, the incisive foramen was located. Then para-coronal crosssections were prepared at F-, A-, 18- and YF-mm distances from the posterior wall of the incisive foramen; in addition, on each cross-section, the mid-sagittal and para-sagittal areas were determined at ٣- and ۶-mm intervals bilaterally (a points on the whole). The soft tissue and bone thickness were measured at these points. Results: The soft tissue thicknesses were significantly different at all the Yo sample points between males and females (P<o.oΔ). In other words, at all the points the soft tissue thicknesses were significantly greater in males compared to females. In some areas there was a positive relationship between age and soft tissue thickness (P<o.ol), i.e. the soft tissuethickness increased with age. In addition, in the majority of points the overall bone thickness was significantly higher in males compared to that in females; however, in the majority of points, no positive relationship was found between age and bone thickness.. Conclusion: Age was not a determining factor for bone thickness, while where was a stronger relationship between soft tissue thickness and age. In addition, the most appropriate locations for the placement of orthodontic mini-implants were paramedian area at \(\mathcal{P} - \) and \(\mathcal{F} - \) mm distances from the suture, \(\mathcal{F} \) mm posterior to the .incisive foramen

كلمات كليدى:

Cone beam CT, Mini implant, Anchorage, Mid palatal

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