

## عنوان مقاله:

Anthropometric Analysis of the Mandibular Anterior Buccal and Lingual Bone in Iranian Adult Population by CBCT

## محل انتشار:

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## خلاصه مقاله:

**Background** Because of the special anatomy and esthetic considerations, orthodontic and implant treatments are somehow fine and difficult in mandibular anterior zone. The aim of this study was to evaluate anthropometric analysis of the buccal and lingual bone thickness of mandibular anterior zone using CBCT. **Methods** In this descriptive- analytic study CBCT images of 20 (18 - 40 years old) patients (10 men, 10 women) were obtained. Four reference lines were designed for every anterior tooth of mandible. 3D program were used for measuring. **Results** Mean thickness of buccal alveolar plate was  $1.44 \pm 0.34$  mm for central incisor,  $1.35 \pm 0.25$  mm for lateral incisor,  $1.46 \pm 0.25$  mm for canine. Mean thickness of lingual alveolar plate was  $1.61 \pm 0.33$  mm for central incisor,  $1.73 \pm 0.43$  mm for lateral incisor,  $1.99 \pm 0.48$  mm for canine. Buccal bony curvature angle below root apex was  $151.1 \pm 7.7^\circ$  at central incisor,  $145.14 \pm 6.71^\circ$  at lateral incisor,  $155.08 \pm 8.16^\circ$  at canine. Distance between root apex and the deepest point of buccal bony curvature was  $2.2 \pm 0.54$  mm for central incisor,  $2.31 \pm 0.62$  mm for lateral incisor,  $2.55 \pm 0.59$  for canine. However; the comparison of all findings between men and women did not show significant difference ( $P > 0.05$ ). **Conclusions** The thickness of lingual bony plate of mandibular anterior zone in Iranian adult is more than the thickness of labial plate; also the labial bony plate thickness will increase from coronal to apical zone of the teeth. The labial bony curvature below root apex of mandibular central incisor was higher than that of lateral incisor and canine and it seems that the labial bony plate below root apex of central incisor is most curved.

## کلمات کلیدی:

Buccal Alveolar Bone Thickness, Cone, Beam CT, Mandibular Anterior Teeth

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