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Characteristics of mandibular parameters in different age groups: A CBCT assessment

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The advent of cone-beam computed tomography has led to the ease of evaluation of the morphology, position, shape, size and the variation in several anatomical structures. A normal variation occurs with age, gender and between right and left sides. Therefore, the aim of this study is to evaluate deferent linear measurement in human mandibles and compare them to age and gender. This is a retrospective study was conducted on CBCT examination taken from patients attended the Oral Diagnostic Department at Riyadh Colleges of Dentistry and Pharmacy between 2010 and 2015. Images of patients with history of trauma, dysplasia or orthognathic surgery were excluded. 408 hemi-mandibles were evaluated ranging in age from 18 to 75 years for the location of: condyle, coronoid, gonion and menton. Linear measurements were then recorded between each point and analyzed among age groups and gender. The data showed significantly positive correlation between the age and mandibular length (distance between gonion and menton. A negative correlation was found in the coronoid length and gonion angle and positive correlation was found with the coronoid length. When the readings were compared against gender, a significant difference was shown in all linear measurements, except the angle of the mandible. None of the samples showed any asymmetrical changes between the right and left side. Within the limitation of this study, the changes in the mandibular linear measurements were not related to the change of age except of the mandibular length. Gender was found to be a factor in changes of these measurements, which was explained by the effect of muscular and habitual changes between genders.

Biography

Bayan Al Asmari is a Dentist and is interested in oral surgery and oral medicine. He is working at a private clinic in Riyadh. He has completed his Masters in Oral Diagnostic Program. He is a Member of Dental Magazine "Asnan Magazine".

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