

Poster journal

Age estimation using Cone beam computed tomography - Applications in Forensic Odontology

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Commentary:

Cone-beam computed tomography (CBCT) is a new dental imaging modality that generates 3-D images which provides us more complex and accurate imaging technique when compared to the usual analog and digital radiographs¹. Forensic odontology is a part of forensic medicine where in there is intervention of the dental expertise in the medico-legal cases by age estimation in unknown human cadavers which evidently help in solving the issue. Primarily, it involves identification of missing person of a deceased individual through a number of methods like morphological, radiological, biochemical, histological¹. Radiographs play a very important role in this field which can help age estimation of an individual through hard tissue and soft tissue of the tooth, which marks a significant step in forensic identification process². Thus, age estimation has become of prime importance in the field of Forensic odontology. CBCT being a noninvasive alternative imaging technique that has advantage over conventional radiographic methods, which provides us information of tooth dimensions in all surfaces simultaneously, this minimizes the magnification and distortional errors. It is becoming increasingly popular source of imaging in the present day in the field of Forensic odontology as it provides an option of 3-D reconstruction, cranial measurements, in visualization of cervical vertebra morphology and also in investigating the ante mortem data. In this poster presentation we present the different methods of age estimation using CBCT.

References

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