Reproducibility and accuracy of cephalometric analysis using different digital imaging modalities and image compression.

Faculty of Dentistry, University of Toronto - Evaluation of the reliability of measurements in cephalograms generated from cone beam computed tomography

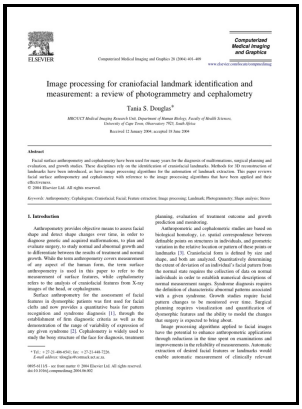

Image processing for craniofacial landmark identification and measurement: a review of photogrammetry and cephalometry

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Description: -
-reproducibility and accuracy of cephalometric analysis using different digital imaging modalities and image compression.
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Notes: MICR copy on microfiche (2 microfiches).
This edition was published in 2001

Tags: #A #comparison #of #conventional #and #digital #radiographic #methods #and #cephalometric #analysis #software: #I. #hard #tissue

An evaluation of the reproducibility of landmark identification in traditional versus computer

This approach revealed a high reliability in repeated 2D measurements with average ranges between minimum and maximum values of 1. This model was placed at nine different orientations and locations within the calibration space. Am J Orthod Dentofacial Orthop.

A comparison of conventional and digital radiographic methods and cephalometric analysis software: I. hard tissue

Working with DICOM craniofacial images. As this paper presents a new approach of MRI-based cephalometry with specific technical requirements, availability is limited at this stage. The optical resolution of the CCD on this scanner was 300 dpi dots per inch.

Evaluation of the reliability of measurements in cephalograms generated from cone beam computed tomography

Digital image processing techniques for cephalometric analysis. The statistical analysis was performed through the software SPSS 16.

Comparative study of cephalometric measurements using 3 imaging modalities

RESULTS: Excellent intraobserver reliability and good to high precision interobserver reliability values were found for linear measurements from CBCT 3D and multiplanar images. Obrul D, Liu Y, Zalik B.

Evaluation of the accuracy of linear measurements on spiral computed tomography

Each phantom analysis included the calculation of 96 angular 3D: 24, 2D-sagittal: 24, 2D-frontal: 24, 2D-horizontal: 24 and 96 linear measurements 3D: 24, 2D-sagittal: 24, 2D-frontal: 24, 2D-horizontal: 24.

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Along with the rapid technical development and the continuously increasing availability, CBCT has also moved into focus for 3D cephalometric analysis ,,. The differences between multiplanar sections and 3D volume rendering images were probably because landmarks on multiplanar images were identified on the orthogonal slices simultaneously instead of being identified directly on the surface of 3D reformatted images. ELECTRONIC ORTHODONTIC STUDY MODELS COMPUTER BASED NEWER IMAGING MODALITIES: 3D CT, MRI applications.

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