

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

Faculty of Dentistry, University of Toronto - :: ISD :: Imaging Science in Dentistry

Radiographic device	Digital system	Mean of linear measurements (mm)		p value
		JPEG	BMP dry mandibles	
PSP Rotograph Plus® (60 kV, 10mA, 17 s)	VistaScan® (250 dpi)	9.98	10.08	0.47
CCD Kodak 8000C® (60kV, 3.2mA, 13.2 s)	Kodak 8000C® (250 dpi)	9.68	9.73	

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



Filesize: 66.710 MB

Tags: #Comparison #between #3D #volumetric #rendering #and #multiplanar #slices #on #the #reliability #of #linear #measurements #on #CBCT #images: #an #in #vitro #study

Comparative study of cephalometric measurements using 3 imaging modalities

Also, the methodology of cephalometry itself is fraught with both intrinsic and extrinsic factors of error. It is taught that the structures on the left must be traced for being closer to the film and consequently experience lower magnification than those on the right. PLoS One 12, e0174524, 2017.

Comparative study of cephalometric measurements using 3 imaging modalities

Using the 3D module of the Dolphin software, the perspective radiographs were generated using a 9. However, most of the studies used radiopaque markers, and these might have an influence on the accuracy and reproducibility of the measurements. Phys Med Biol 59, 3877—3891, 2014.

Comparative study of cephalometric measurements using 3 imaging modalities

. These radiographs are converted to images called sinograms, which represent the data from a horizontal line of the detector as the part rotates.

Comparison between 3D volumetric rendering and multiplanar slices on the reliability of linear measurements on CBCT images: an in vitro study

Oral Surg Oral Med Oral Pathol Oral Radiol Endod. Linear measurements have been performed in, for example, the cranial vault, brain, orbits and spinal canal.

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

Arai Y, Tammisalo E, Iwai K, Hashimoto K, Shinoda K. In these graphs, the band formed by the cluster of points run in straight upward direction.

Differences in cephalometric measurements: a comparison of digital versus hand

From this it can be concluded that high-resolution 3D MR images allow for reproducible lateral cephalometric analysis in vivo.

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

Statistical analysis All data were placed in excel files.

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

The stability of the points is affected by several factors. The mean percentage difference was minimal for three parameters, P1, P2 and P3; however, in the other four the mean percentage difference was large ranging from 7.

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