

## Pengukuran distorsi horizontal dan vertikal radiograf panoramik pada cranium = Measurement of horizontal and vertical distortion of panoramic radiograph on cranium

Mela Ayumeylinda, author

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### Abstrak

Radiografi panoramik merupakan alat diagnostik yang sangat penting dalam kedokteran gigi namun memiliki kekurangan seperti distorsi geometris, sehingga hasil gambaran cenderung tidak sesuai dengan ukuran struktur anatomi yang sesungguhnya pada pasien.

Tujuan : Mengetahui perbedaan hasil pengukuran horizontal dan vertikal pada cranium dibandingkan dengan pengukuran pada radiograf panoramik, serta untuk mengetahui seberapa besar distorsi pengukuran horizontal dan vertikal pada radiograf panoramik.

Metode : Sampel penelitian berupa 7 cranium yang diberi marker gutta percha dengan panjang 2 mm kemudian dilakukan pembuatan radiograf panoramik sebanyak 4 kali. Pengukuran pada radiograf panoramik menggunakan software Digora for Windows 2.5 R1 Tuusula Finland.

Hasil : Pada pengukuran horizontal bukal/labial HB terdapat perbedaan bermakna.

Panoramic radiography is a very important diagnostic tool in dentistry but the panoramic radiograph also has some disadvantages related to its geometric distortion, the images of anatomical structures on panoramic radiograph are not according to their actual dimension in the patients.

Objective: To determine the amount of horizontal and vertical distortion of panoramic radiograph, by comparing the horizontal and vertical measurements on panoramic radiographs with those on the real object, which was the cranium.

Methods: The samples of this study were 7 cranium with a length of 2 mm gutta percha as markers, panoramic radiograph was taken from each sample 4 times. Measurements on a panoramic radiograph using Digora for Windows 2.1 R1 Tuusula Finland software.

Results: The horizontal buccal labial HB measurements shows that there were significant differences p