

Toleransi perubahan sudut vertikal pada radiograf periapikal gigi molar rahang bawah secara laboratoris = Tolerance of vertical angle alteration on lower molar periapical radiographs in laboratory

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Abstrak

Toleransi perubahan sudut vertikal merupakan aspek penting dalam upaya meminimalisir distorsi vertikal pada radiograf gigi molar rahang bawah.

Tujuan: Menganalisis toleransi perubahan sudut vertikal pada radiograf periapikal gigi molar rahang bawah.

Metode: 30 gigi molar rahang bawah (15 gigi molar pertama dan 15 gigi molar kedua) dilakukan pengukuran panjang klinis lalu ditanam dalam model dan dilakukan pemeriksaan radiografik dengan teknik radiografi periapikal masing-masing sebanyak 7 kali dengan sudut vertikal 00, +50, +100, +150, -50, -100 dan -150 kemudian dilakukan pengukuran panjang gigi dan perbedaan tinggi cusp bukal lingual pada radiograf.

Hasil: Panjang gigi radiograf pada sudut vertikal +15° telah bertambah sebesar 0,81 dari rerata panjang klinis dengan simpangan baku ± 0.39 .

Kesimpulan: Toleransi perubahan sudut vertikal positif pada radiograf periapikal gigi molar rahang bawah untuk melihat panjang gigi adalah 15°.

.....Tolerance of vertical angle alteration is an important aspect in an effort to minimize vertical distortion on lower molars radiograph.

Objective: To analyze the tolerance of vertical angle alteration on lower molars periapical radiograph.

Methods: 30 lower molars (15 first molars and 15 second molars) were performed measurement of clinical tooth length then were planted in model and were performed radiographic examinations by using periapical radiography technique 7 times for each tooth with vertical angle 00, +50, +100, +150, -50, -100 and -150 then tooth length and buccal and lingual cusp height difference on radiograph were measured.

Results: Tooth length on radiograph at vertical angle +15° has increased 0,81 mm from clinical tooth length mean with standar deviation ± 0.39 mm.

Conclusion: Tolerance of positive vertical angle alteration on lower molars periapical radiograph to looking at the tooth length is 15°.