KETEBALAN KORTEKS MANDIBULA PADA LAKI-LAKI DAN PEREMPUAN SUKU JAWA DITINJAU DARI RADIOGRAFIK PANORAMIK

(MANDIBULAR CORTICAL WIDTH IN JAVANESE MALES AND FEMALES VIEWED FROM PANORAMIC RADIOGRAPHY)

ABSTRACT

Background: Panoramic radiographs was one of radiography imaging which had been used in dentistry to examine upper and lower jaw in a single film. Panoramic radiograph can be used to measure mandibular cortical width. Mandibular cortical was lower border of the mandible which have compact structure. According to literature, sex and race can influence mandibular cortical width. No information on value of mandibular cortical width in Javanese male and female has been found in literature. Purpose: The study was purposed to knows the difference of the mandibular cortical width of Javanese male and female. Method: Panoramic radiographs of thirty Javanese patients (15 males and 15 females aged 20-30 years) randomly chosen from Parahita Diagnostic Center were evaluated. The mandibular cortical width was measured with caliper to an accuracy of 0.05 mm. Measurements were made by three observers. The obtained results were subjected to statistical analysis. Results: The mean of the mandibular cortical width was 4.96 mm in males and 4.33 mm in females. This study showed there was significant difference of the mandibular cortical width (p<0.05) between Javanese male and female. Conclusion: The mandibular cortical width of Javanese male greater than Javanese female.

Keywords: mandibular cortical width, panoramic radiograph, Javanese, male and female