D-22 (11-4)  Assesment of Antegonial Index of the Mandible on Panoramic Radiographs

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BACKGROUND: A number of measurements of jaw bone have been developed for use with panoramic radiographs. Antegonial index was the best straight line was plotted along the anterior border of the ascending ramus and extended down to cross the lower border of the mandible. The tangent to the lower border was drawn and a perpendicular to the tangent plotted, dotted line. Measurement of antegonial cortical thickness (Antegonial index) was made along this perpendicular.

OBJECTIVE: The aim of this study was to assess Antegonial Index of the mandible on panoramic radiographs.

MATERIALS AND METHODS: This description study included 200 digital panoramic radiographs of female and male patients that were grouped into 2 age groups (group 1: age 20-35; group 2: age 36-55). Index of the cortical width or thickness at the antegonion (Antegonial index) were measured on both sides of the mandible in all panoramic radiographs.

RESULTS: The results of measured Antegonial Index was calculated, whereas in group 1 of female patients showed mean values 2.49 mm on the left side and 2.45 mm on the right side while in group 2 showed 2.73 mm on the left side and 2.55 mm on the right side. The index of male patients in group 1 had mean values 2.80 mm on the left side and 2.81 mm on the right side, while in group 2 showed 2.69 mm on the left side and 2.81 mm on the right side.

CONCLUSION: According to this study, male patients demonstrated lower mean value of Antegonial Index than female patients in age group 1. In addition, group 2 showed higher mean value than group 1 in male and female patients on both sides.

D-23 (11-5)  Assessment the Shape of Tooth Base on Age Using Panoramic Radiographs of People in Bandung Indonesian

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OBJECTIVE: The aim of this study was to assessment the shape of the tooth base on age using radiograph panoramic in people, Bandung, Indonesia. Using the panoramic radiographs of people in Bandung Indonesia.

MATERIAL AND METHODS: 50 panoramic radiographs for each age group were observed. Cortical bone thickness was measured with mental index base on Age in radiography on both sides of mandible. Average from all data for each group observed.

RESULT: Based on the survey results revealed that there were differences in the growth of every age ranging from ages 8-13, and can seemingly also that there are growth and development in line with in accordance with age.

CONCLUSION: The more we age; it also increased the growth and development of teeth.

Key words: Mental index (MI). Panoramic radiography