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**D-24 (11-6) Assesment of Gonial 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. The Gonial Index was introduced first and represents the thickness of the inferior mandibular cortex of the gonion region.

**OBJECTIVE:** The aim of this study was to assess Gonial 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 35-55). Index of the cortical width or thickness at the gonion (Gonial Index) were measured on both sides of the mandible in all panoramic radiographs.

**RESULTS:** The results of measured Gonial Index was calculated, whereas in group 1 of female patients showed mean values 1.44 on the left side and 1.49 on the right side while in group 2 showed 1.28 on the left side and 1.55 on the right side. The index of male patients in group 1 had mean values 1.61 on the left side and 1.57 on the right side, while in group 2 showed 1.25 on the left side and 1.28 on the right side.

**CONCLUSION:** According to this study, male patients demonstrated higher mean value of Gonial Index than female patients in age group 1. In addition, group 2 showed lower mean value than group 1 in male patients on both sides while in female patients only on the left side.

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**D-25 (11-7) Healing Process in Patients with Osteoradionecrosis by Using Oxygen Hyperbaric Therapy (Case Study)**

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**BACKGROUND:** Osteoradionecrosis is an infectious disease and inflammation that occurs in the jaw after doing radiotherapy. Radiographic picture of the disease is visible lesions lucent extensive radio in the jaw. In Clinical condition seen fistula and abscess in the jaw. One therapy for treatment of this condition is the Hyperbaric Oxygen. The purpose of this paper is to look case report work hyperbaric oxygen therapy in treating osteoradionecrosis.

**CASE:** Patient age 55-year-old, woman, came with complaints of pain in left and right lower jaw, since one month ago, after doing radiotherapy for 6 months. Patients diagnosed osteoradionecrosis. For the healing, selected medical therapy and patients are advised for doing oxygen hyperbaric therapy in AL Minto Harjo hospital Jakarta.

**RESULT:** One month after doing hyperbaric oxygen therapies seen change and healing. Lesions that form still has the same broad but disappeared fistula, abscess dries, necrotic tissue disappeared/reduced as well as the formation of new bone matrix.

**CONCLUSION:** Oxygen therapy hyperbarik, obviously able to heal lesions caused osteomielitis osteoradionecrosis.