

**Cemento-ossifying fibroma at the anterior mandible**

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Cemento-ossifying fibroma is a rare fibro-osseous lesion that affects the jaw bones and is considered to arise from undifferentiated cells of the periodontal ligament. Clinically it usually presents as a painless, slowly growing mass in the jaw and thus the lesion is frequently ignored by the patient until the growth produces a noticeable swelling and facial deformity tissues that are capable of forming cementum, lamellar bone, and fibrous tissue.

We report a rare case of a 31 years old Thai female patient whom diagnosed as a huge cemento-ossifying fibroma at the anterior part of the mandible. She came to meet the dentist with a gradual swelling of slowly growing mass and noticed that the lesion increased a year ago. Panoramic and intraoral radiography techniques were taken at the first visit. There was a huge lesion occurred at the anterior part of the mandible. The lesion was too large that these two techniques could not detect all details of the lesion. Dental computed tomography was performed in the second visit to make the more details and created treatment plan in conjunction with the incisional biopsy. The microscopic features reported and diagnosed that the lesion was cemento-ossifying fibroma. The patient is now waiting for the operation of partially mandibulectomy associated with autogeneous bone graft. The details of radiographic characters and the management of this patient are presented and discussed.

Keywords: Cementifying fibroma, Fibro-osseous lesions, Radiography