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## CLINICAL COMMENTARY

# Ossifying fibroma of the maxillary sinus at the Kara (Togo) Teaching Hospital

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## KEYWORDS

Ossifying fibroma;  
Jaw;  
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Enucleoresection

## Summary

**Introduction:** Ossifying fibroma of the jaw is a benign tumorous disease, somewhat rare and aggressive. It frequently targets the mandible, but seldom the maxillary.

**Case study:** The present study reports the first case of left maxillary sinus fibroma treated at the Kara Teaching Hospital in North Togo. It occurred in a 29-year-old patient who experienced slow-growing tumefaction of the left maxillary sinus, resulting in deformation of the left side of the face in the maxillary region and ipsilateral nasal obstruction. Orthopantomography showed a displacement of teeth 21, 22, and 23 with an abnormal degree of opacity at the dental roots. The CT scan of the nose and sinuses revealed a tumorous lesion of expanding bony density increasing in volume at the outer wall of the left maxillary sinus, of regular shape that contained microscopic calcifications, extending into the ipsilateral orbital floor and pushing the surrounding soft tissues forward without invading them. The histopathological examination of the tumor confirmed the diagnosis of ossifying fibroma.

**Discussion:** Ossifying fibroma or fibrous osteoma is a rare and benign lesion developing insidiously with a polymorphous aspect. Of unknown etiology, most frequently located in the mandible, it is differentiated from other types of fibroma in its clinical, radiological, and histological aspects. However, only examination of the gross specimen can provide the final diagnosis. Treatment requires surgery.

**Conclusion:** Surgical treatment entailed the complete macroscopic enucleoresection. Recovery has been favorable at 2 years of follow-up.

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## Introduction

Ossifying fibroma of the jaw is a rarely occurring benign tumorous disease with a good prognosis. It frequently targets

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the mandible but seldom the maxillary. It evolves insidiously, displaying a variety of clinical polymorphisms. It belongs to the complex group of nonodontogenous tumors.

The tumor occurs with a unilateral centrifugal growth pattern, evolving slowly and asymptotically, with consultation and discovery delayed unless it causes an aesthetic or functional problem.

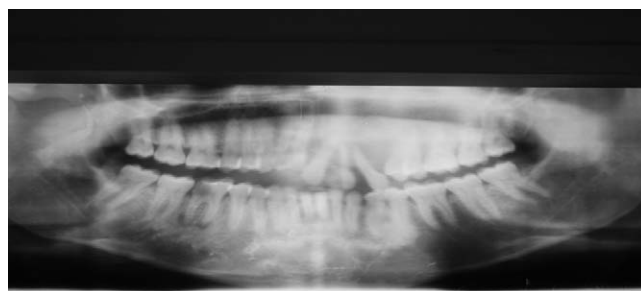
Clinical or radiological data alone do not suffice the diagnosis of benign tumors of the maxillary. A more conclusive diagnosis is made through histopathological examination. The case reviewed herein underlines the clinical and paraclinical aspects of this type of tumor and its cure through thorough enucleoresection, while preserving the surrounding physiological structures. The treatment of this disease is documented through its clinical review.

## Clinical case

The male patient, a Togolese citizen living in Kara, North Togo, and a trader of dairy products by profession, presented tumefaction of the left maxillary, evolving slowly over the past 10 years. In 2002, he was examined at the Tokoin National Hospital in Lomé (Togo) and a biopsy curettage was taken following the pathological examination, which revealed the presence of numerous pockets indicating the formation of a cementoossifying fibroma with no signs of malignity. The onset of the condition was marked by the progressive increase in the volume of the tumor deforming the left part of the face (Fig. 1) which led the patient to seek medical advice again in October 2008, at the ENT Department of Kara Teaching Hospital, where he was found in good general health but with a well-defined localized swelling of the left maxillary with bulging of the left hemipalate, obstruction of the left nasal passage, and stage 2 mobility of teeth 21, 22, and 23 with no loss of vitality. The examination showed no additional signs of poor health.

The orthopantomography examination revealed an image showing displacement of teeth 21, 22, and 23 with an abnormal degree of opacity at the dental roots. No anomalies were found in the skeleton of the mandibles (Fig. 2).

The sinonasal CT scan requested demonstrated a tumorous lesion of slowly expanding bony density increasing



**Figure 2** Orthopantomogram showing teeth 21, 22, and 23 pushed by the tumoral process.

in volume that had developed in the anterolateral wall of the left maxillary sinus, measuring  $53.3 \times 55.3$  mm. The growth was regular in shape and contained microscopic calcifications. The tumorous lesion that intruded into the ipsilateral maxillary sinus extended into the ipsilateral orbital floor and pushed the surrounding soft tissues forward without invading them. Thus, the parenchymatous and subtentorial structures of the brain above the sinusal cavities—maxillofrontal, ethmoidal, and sphenoidal—were normal (Fig. 3). Enucleoresection was performed under general anesthesia in November 2008 through an intraoral approach and a vestibular incision. The enucleoresection was performed in four segments (Fig. 4).

No teeth needed to be removed. Curettage of the tumorous base was performed. The cavity resulting from the tumor removal was cleaned followed by the closing of the vestibular incision. Postoperative care was incident-free and the patient was able to leave the hospital the day following the operation. He was checked 8 days later and showed good postoperative healing. Another check-up 30 days later showing satisfactory progression and complete recovery. He was given a schedule of regular check-ups every 3 months during the first year, then twice a year from November 2008 onward.

An anatomopathological examination of the excised tissue revealed numerous islets of varying sizes, converging toward each other, even in texture within the bony tissue, demonstrating their identification as lesions of ossifying fibroma with no indication of malignancy, thus confirming the diagnosis.



**Figure 1** Preoperative AP and lateral views. Note the exteriorization of the tumor with stage 2 mobility of teeth 21, 22, and 23 with no loss of vitality.

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