Osteomas are the most frequent benign tumors that arise in the paranasal sinuses and the nose, with a slow growing rate, that develop predominantly into the frontal sinus (80% of the sinusal localization)\(^1\). At the beginning, small osteomas are usually asymptomatic. The clinical symptoms depend on the location and the size of the tumor\(^1\). The most common symptom is frontal headache or facial pain. Osteomas are usually identified accidentally by radiological examinations – classical Rx or CT scan images.

From the histological point of view, there are three types of sinusal osteomas\(^2\):

- eburnated (ivory, compact type): very dense, with no evidence of haversian canals;
- mature, spongious osteomas – osseous trabecules associated with fibrous tissue and collagen fibers;
- mixed types – contain both histological types.

The management of these tumors is divided into two main directions: conservatory, “wait and see” attitude, in case of small, asymptomatic lesions, and surgical treatment\(^3\). Surgery is recommended in the following cases: rapid growth of the tumor, infections, intracranial or orbital complications that arise due to the tumor extension, severe pain\(^4\).

There are three types of surgery used for the treatment of this pathology: endoscopic, external or combined approach. The main purpose of the surgical intervention is the complete excision, with minimal damage to the peritumoral tissues\(^5,6\).

Transnasal excision, using endoscopical techniques are used in cases of involvement of the medial wall of the maxillary sinus, ethmoidal and sphenoidal sinuses, inferior and medial wall of the orbit, selected cases of frontal osteomas (located medially from a sagittal plane through lamina papiracea). Usually, in case of frontal osteomas, surgeons prefer techniques type Draf II or III. Although, plenty osteomas are better cured by using a combined approach\(^7\).

We present the case of a 45 years old female that was admitted in the ENT&HNS Department of “Sfanta Maria” Clinical Hospital, Bucharest, Romania for headache, pressure-like sensation located in the left orbit and left eye, and a mild deformity of the left frontal region. The symptoms appeared 2 years before presentation, with a slow onset and a progressive evolution.

The cranio-facial CT native scan revealed an inhomogeneous, well circumscribed mass with anterior ethmoidal cells with ethmoidal septa destruction, externalized into the left orbit (Figure 1).

**Figure 1** Cranio-facial CT scan, coronal and sagittal slices - well circumscribed mass with osseous intensity and areas of ground-glass in the left side of the frontal sinus, extended in the left anterior ethmoidal cells with ethmoidal septa destruction.

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Taking into consideration the large size and the localization of the tumor, the surgical treatment consisted in an Ogston-Luc external approach, by removing the anterior wall of the left frontal sinus, revealing a round, yellow, osseous density tumoral mass. The tumor was then excised by drilling and decollated from the bony walls. Finally, the anterior wall of the frontal sinus was reconstructed using silicon prosthesis (Figure 2). A silicon drainage tube was set in place inside the frontal sinus, and externalized through dorsum nasi.

During the surgery, we did not encounter any major bleeding, intracranial or external complications. Postoperative evolution under general treatment (antibiotic, NSAIDs, cortisone) and local treatment of the nasal fossa was optimal, with no significant bleeding, intracranial or oculo-orbital problems.

The post-therapeutic follow-up was made at 1 month, 3 months and 6 months, by clinical and nasal endoscopy assessment and it revealed the healing of the frontal sinus and of the external incision; at 6 months postoperative, the patient underwent a CT scan, who did not show any sign of tumoral reoccurrence.

REFERENCES

Figure 2 Intraoperative view – Ogston-Luc technique for excision of the left frontal sinus osteoma, by drilling (A,B,C); reconstruction of the anterior bony wall of the frontal sinus with silicon prosthesis (D,E)