DESCRIPTION
An 80-year-old man presented with a 1-month history of frontal headache and pressure, irradiating to the nose. He did not have other complaints or relevant health issues besides high blood pressure and diabetes mellitus. The initial physical examination did not reveal any abnormality. Because of his severe complaints, he underwent a CT scan of the brain and paranasal sinuses, which showed an expansive solid mass in the right frontal sinus with erosion of its posterior wall and extension to the frontoethmoidal recess. These findings motivated a cranial MRI that revealed a giant mass (6.3 × 3.1 × 7.5 cm) in the frontoethmoidal area with both intracranial and extra-axial extension (figure 1). The patient underwent a frontal sinus biopsy, performed by functional endoscopic sinus surgery that revealed a transitional meningioma with usual epithelial membrane antigen expression (figure 2). A combined approach with a neurosurgery team was decided and the patient was submitted to a craniofacial resection with removal of the mass, followed by skull base and ethmoidal roof reconstruction with titanium plates, dura mater and pericranial flap (figure 3). Histopathological analysis was compatible with a WHO grade I meningioma. The patient was discharged on the 12th day, without neurological deficits. He presented a good evolution, without signals of relapse in the follow-up appointments (figure 4).

Meningioma is the most common non-glial intracranial neoplasm. Its primary or secondary extracranial location is very uncommon. A few cases of extracranial meningioma with sinonasal extension have been reported. Since this is very rare in this location, it imposes a diagnostic challenge. The nasal cavity and paranasal sinuses are extremely close to very important anatomical landmarks. In cases of extensive unilateral sinonasal occupation with extranasal extension is essential to make a careful differential diagnosis. This should include sinonasal malignant masses (squamous cell carcinoma, adenoid cystic carcinoma, adenocarcinoma, olfactory neuroblastoma) and benign masses (inverted papilloma, juvenile angiofibroma, osteoma, glioma), complications of sinusitis (mucocele, normally found in the frontoethmoidal area, and mucormycosis, an invasive fungal infection that mostly affects individuals with diabetes), autoimmune diseases (Wegener’s granulomatosis), and also extensions from adjacent areas, outside the sinonasal tract, such as meningiomas, meningoencephalocele and orbital tumours. Histopathology makes a definitive diagnosis. Treatment with complete surgical extirpation has an overall good prognosis.
This is an example of a case that shows early diagnosis, treatment and multidisciplinary approaches are pearls for successful outcomes.

**Learning points**

- Patients’ complaints are key to establishing an early diagnosis.
- Uncommon locations of common diseases represent a diagnostic challenge and may delay the correct diagnosis.
- Multidisciplinary approaches positively affect the prognosis.

**Contributors**  Collaboration, teaching and guidance: DPS, SDC, NM, LD.

**Competing interests**  None declared.

**Patient consent**  Obtained.

**Provenance and peer review**  Not commissioned; externally peer reviewed.

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**REFERENCES**