

Paranasal sinus osteoma

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[Paranasal sinus osteoma](#) is a common, asymptomatic, histologically benign, and slow-growing tumor. However, it can give rise to secondary pathologies such as a mucocele in about 50% of the cases. Rarely, intracranial and orbital extension is present leading to [rhinoliquorrhea](#), [pneumocephalus](#), or neurological and visual impairment, which might be potentially life-threatening.

They usually asymptomatic and often discovered incidentally upon imaging. Nasal polyps, on the other hand, are relatively commoner than osteomas. With the adoption of endoscopic technology in the otorhinolaryngology (ORL) field, surgeons are shifting toward less invasive surgical methods in managing such cases.

Case reports

An unusual case of giant osteoma presenting with proptosis and diplopia ¹⁾.

A 23-year-old male had chronic rhinosinusitis with nasal polyps. A computed tomography (CT) done as part of his preoperative planning revealed findings suggestive of nasal polyps with left frontal recess osteoma. Both pathologies were removed successfully via an endoscopic endonasal approach ²⁾.

A 49-year old man presented with an acute frontal lobe syndrome and rhinoliquorrhea. Cranial magnetic resonance tomography showed a suspected fronto-ethmoidal osteoma with a mucocele expanding intradurally, into the left frontal lobe. It was accompanied by pneumocephalus and showed communication with the left lateral ventricle. Through a bifrontal craniotomy in toto resection of the fronto-ethmoidal bony tumor and the intradural mucocele was performed, while thereafter the frontal

sinus was cranialized using a pedunculated periosteal flap. Postoperative recovery was uneventful with complete resolution of the tension pneumocephalus and the rhinoliquorrhea, and led to an improvement of the frontal lobe syndrome ³⁾.

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¹⁾

Guclu D, Izgi E, Unlu EN, Ogul H. A Giant Fronto-Ethmoidal Osteoma Presenting With Proptosis and Diplopia. Ear Nose Throat J. 2022 Nov 23;1455613221141220. doi: 10.1177/01455613221141220. Epub ahead of print. PMID: 36416109.

²⁾

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³⁾

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