 Orbital Wall Ossifying Fibroma: Case Report
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Introduction
The orbit is the cavity containing structures essential for ocular function and the bony architecture that encases them. Orbital ossifying fibroma is an extremely rare condition, especially in adults. It is a benign fibro-osseous neoplasm. It has a more aggressive course in children compared to adults. Gradual proptosis is the most common clinical finding. CT scan is the modality of choice for bony exploration and histopathological correlation is mandatory to diagnose bony orbital neoplasms.

Case Report
28-year-old patient, presented with gradual painless prominence of the right eye noted for 02 years. The ophthalmological examination of the right eye found a decreased visual acuity, non-axial proptosis, limited ocular motility examination and stage 1 papilledema on fundoscopy. CT scan showed an enhanced extra-conal mass of the right orbit with compression of the right optic nerve was noted. An excisional biopsy was done and histopathological examination confirmed an ossifying fibroma.

Discussion:
Ossifying fibroma is a rare bony neoplasm of orbit which needs multidisciplinary approach to be differentiated from other orbital tumors. Radiological and histopathological correlation are mandatory for an appropriate diagnosis to ensure complete excision to prevent recurrences.

Keywords: Ossifying fibroma, orbit, Computed Tomography.
Diagnostic criteria for conventional ossifying fibroma include: usually solitary, well demarcated radiographically with smooth, sclerotic borders. Centrifugal growth pattern with increasing maturity of bone as one moves to the periphery. “Shells-out” from surrounding bone intact/large pieces. Relatively avascular cellular brous stroma. Retiform bone trabeculae, with some osteoblastic rimming and/or cementum-like spherules [5].

Computed tomographic (CT) shows a round or ovoid well-defined margins lesion, is, with expansion of the involved orbital bone. The central matrix shows a mixed pattern of osteoblastic and osteolytic areas in the central matrix, surrounded by a thin sclerotic margin [2]. OF can produce a lytic deformity, simulating mucocele or epidermoid cyst [6]. Other radiographic features of OF include low signal intensity on T1-weighted and high signal intensity on T2-weighted magnetic resonance imaging MRI and high Technetium-99 radioisotope uptake due to its high osteoblastic activity [7].

Complete excision is the surgical goal. For small anterior tumors, this may be achieved via an anterior orbitotomy. Large tumors (5 cm diameter) require orbito-cranial or orbito-rhinological approaches [3]. Enucleation, or extensive resection, may be required where aggressive features are apparent [8]. Radiation is generally not preferred in children due to the risk of malignancy. Systemic therapy with interferon alpha has been reported to reduce the recurrences. Recurrence rates are reported from 30% to 56%, due to the infiltrative nature of the lesion [9].

CONCLUSION

Ossifying fibroma is a rare bony neoplasm of orbit which needs multidisciplinary approach to be differentiated from other orbital tumors. Radiological and histopathological correlation are mandatory for an appropriate diagnosis to ensure complete excision to prevent recurrences.
RÉFÉRENCES