## Postoperative challenges in oculomotor nerve schwannoma: a case report

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## ABSTRACT

Oculomotor nerve schwannomas are extremely rare, benign tumours arising from the Schwann cells. Schwannomas of the oculomotor nerve are seldom reported in the literature, making their diagnosis and management particularly challenging for clinicians. The rarity of these tumours and the nonspecific nature of the symptoms often lead to a delay in diagnosis, underscoring the need for heightened clinical suspicion and advanced imaging techniques. We present a case of a 60-year-old gentleman who exhibited symptoms of unilateral non-axial proptosis and optic disc swelling. Orbital magnetic resonance imaging revealed a heterogenous, well-defined margin intraconal lesion. Patient underwent a complete excision of the mass consistent with schwannoma without any intraoperative complications. In the early postoperative period, patient developed binocular double vision with left exotropia and significant loss of adduction. To correct this, we performed a surgical transposition, repositioning half of the left superior rectus and half of the left inferior rectus to the medial rectus muscle. This procedure was aimed at restoring the balance of extraocular muscle forces. Postoperatively, patient showed a significant improvement, regaining an orthophoria position at primary gaze and experiencing a marked reduction in diplopia. This case highlights the importance of prompt and accurate diagnosis, followed by immediate and appropriate surgical intervention and effective postoperative rehabilitation in achieving optimal functional and cosmetic outcomes. The case underscores the necessity for a multidisciplinary approach, involving neurosurgery, ophthalmology, and radiology, to ensure comprehensive and optimal recovery for patients with such rare orbital tumours.