Rare case of orbital schwannoma with intralesional haemorrhage and fluid-fluid levels

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DESCRIPTION
We report a case of a 23-year-old man who presented with a 1-month history of gradually worsening right eye pressure, blurry vision and proptosis, which was not exacerbated with Valsalva or change in position.

MRI of the orbits demonstrated a well-defined, lobulated, cystic, trans-spatial mass with areas of internal haemorrhage (figure 1) and fluid–fluid levels (figure 2) in the superior medial right orbit, which extended posteriorly through the superior orbital fissure to the cavernous sinus (figure 3). The lesion slightly expanded the orbital fissure, mildly deformed the posterior globe and demonstrated peripheral and septal enhancement (figure 4).

The differential considerations for these imaging findings include venolymphatic malformation, orbital varix and orbital schwannoma. The patient’s clinical presentation and MRI findings of mass effect resulting in expansion of the orbital fissure are not typical for orbital varix, and the diagnoses of venolymphatic malformation versus schwannoma were considered.
The patient subsequently underwent right frontotemporal craniotomy and surgical excision of a schwannoma arising from V1. The postoperative course was uncomplicated.

Schwannomas are rare in the orbit, accounting for 1% of all orbital tumours.1 They are encapsulated, slowly progressive neoplasms most commonly located in the superior or medial superior aspect of the orbit, arising from branches of the trigeminal nerve.2 They have a diverse imaging appearance secondary to their mixed histological composition of cellular Antoni A tissue or hypocellular Antoni B tissue. This can produce solid, cystic and solid, or predominately cystic tumours with regions of intrallesional haemorrhage and fluid–fluid levels.3

Contributors BJK: Interpreting resident on the neuroradiology service, primary article author, conducted review of literature, image acquisition and pathological correlation. BB: Interpreting faculty neuroradiologist on the neuroradiology service, staff advisor for article submission, conducted review and contributed revisions to article draft before submission, conducted additional review of literature.

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REFERENCES