Orbital neurilemmoma

Presenting as retrobulbar neuritis

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Neurilemmoma of the orbit is a localized, encapsulated, benign nerve sheath tumour which grows very slowly and possibly intermittently, and has no distinctive clinical features (Reese, 1963). When large enough it causes exophthalmos and sometimes blurring of vision through pressure on the optic nerve (Reese, 1963; Sharma and Kulshrestha, 1961). The motility of the eyeball may also be impaired. This tumour has rarely been recorded in the literature and we have been unable to find any previous report that it may first present with the clinical features of retrobulbar neuritis.

Case report

A Hindu schoolgirl aged 14 years came to the eye out-patient department complaining of defective vision in the right eye for 10 days. The onset had been fairly sudden and was at first painless.

Examination

The left eye and its adnexa were normal, with visual acuity 6/6.

In the right eye the visual acuity was 6/24. There was mild local pain on moving the eye but no limitation of movement. The pain was increased by pressure on the globe. The pupil reacted to light but the contraction was not maintained under bright illumination. The fundus was examined by direct and indirect ophthalmoscopy and appeared to be normal.

Investigation of the visual fields showed a central scotoma which was relative for colours. Skiagrams of the paranasal sinuses and orbits gave no diagnostic information.

The case was thought to be one of retrobulbar neuritis, but a thorough systemic and neurological examination did not reveal any specific cause of the neuritis.

Therapy

The patient was given non-specific treatment with heavy doses of vitamin B1 and B12 intramuscularly and glucocorticoids orally.

Progress

As there was no recovery of vision even at the end of 3 weeks she stopped attending the hospital, but after 3 years she returned complaining of loss of sight in the right eye with exophthalmos which had been gradually increasing for the past 2 1/2 years. She stated that her sight had been steadily diminishing since she had first attended the hospital.

Examination

There was no perception of light in the affected eye. The globe was displaced forwards, upwards, and outwards. Movements were restricted in all directions, especially downwards. The conjunctiva, cornea, and iris were normal. The pupil was dilated and fixed. The optic disc showed pressure type atrophy. Palpation of the orbital margins showed no abnormality, and no orbital mass could be felt even on deep palpation. Skiagrams of the skull, orbits, optic foramina, and paranasal sinuses, and also blood studies were negative.

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Operation
Kronlein's lateral orbitotomy was performed under general anaesthesia and exploration of the orbit revealed a well-encapsulated firm elastic mass located in the lower medial quadrant. Though there was some difficulty because of the situation of the tumour the whole mass could be shelled out with the index finger.

Result
The post-operative period was uneventful, and histopathological examination identified the tumour as neurilemmoma with Antoni cells type-A and type-B (Figure).

Comment
It is to be noted that neurilemmomata and other orbital neoplasms may sometimes present as cases of retrobulbar neuritis with no evidence of the presence of a tumour, yet to miss the true diagnosis at this early stage could be disastrous. It is, therefore, imperative to exclude the presence of orbital neoplasm in all cases of retrobulbar neuritis of obscure aetiology. Docter and Kennedy (1948) stated that such tumours were always palpable through the lid and Sharma and Kulshrestha (1961) also palpated a mass through the lid in their cases, but this did not prove to be possible in the present case. Some of the reported cases showed signs indicative of von Recklinghausen's disease, such as pigmented spots over the body, cutaneous nodules, and a dehiscence in the roof of the orbit, but none was present in this case.

Summary
A case of neurilemmoma of the orbit presented as retrobulbar neuritis.

References
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