Intracavernous chondrosarcoma associated with Ollier’s disease

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Multiple enchondromatosis (Ollier’s disease) is a rare, non-hereditary condition of unknown aetiology in which cartilaginous masses are found in bones. We report a patient with Ollier’s disease who presented with a parasellar syndrome due to a chondrosarcoma in the cavernous sinus. The association of Ollier’s disease and intracranial cartilaginous tumours (chondrosarcoma or chondroma) is recognised but very rare.

Case report
A 36-year-old woman presented with a 4 month history of horizontal diplopia looking to her right. A diagnosis of Ollier’s disease had been made in childhood because of skeletal abnormalities. On examination she had 6/6, N5 unaided vision in both eyes. Colour vision was normal to the Ishihara plates. There was a 2 mm right proptosis and restriction of all movements of the right eye, particularly abduction. Pupils were normal as were facial and corneal sensation. Goldmann fields were normal. There was no abnormality of optic discs or retina on fundus examination. Eye movements were recorded by Hess chart for comparison during follow up.

Systemic examination demonstrated deformity and shortening of the right tibia and fibula, a mass in the right scapula, and gross deformity of both hands. Chest x ray showed enchondromata in the ends of the ribs. Head computed tomography (CT) scan revealed a right parasellar mass (Fig 1) and also showed enchondroma of the ethmoids. She was referred for neurosurgical assessment but, because of the non-progressive nature of her symptoms, it was decided to await events.

Four months after presentation she developed episodes of severe right frontal pain with vomiting. Right acuity had declined to 6/6 N5 with subjective reduction of light brightness and a right relative afferent pupil defect. The right optic disc remained normal. There was reduced sensation in the territory of the maxillary division of the right trigeminal nerve and less obvious reduction in the cutaneous distribution of the ophthalmic division. Repeat Hess chart suggested that the limitation of right abduction had progressed despite a subjective improvement in diplopia. The degree of proptosis, colour vision, and fields were unaltered. Repeat CT scan did not show any obvious change in the parasellar mass. Carotid angiography showed a relatively avascular lesion in the region of the right cavernous sinus with displacement of the carotid artery anteriorly.

In March 1990, she underwent right perineal craniotomy and the intracavernous tumour was microscopically completely resected. Recovery from surgery was uneventful. Histological examination (Fig 2) showed a lobulated cartilaginous tumour, most of the cells having compact nuclei, with larger more darkly staining nuclei in some areas. In an adult this appearance was thought to represent a chondrosarcoma of borderline grade I/II malignancy. In a child or young adult in whom the skeleton was still growing the histological diagnosis would have been chondroma.

Most recent follow up was in November 1992, 32 months after surgery. Right visual acuity was 6/5 part, N5. The colour desaturation and afferent pupil defect had resolved and right eye movements had improved. Abduction was increased (with subjective improvement in diplopia on right gaze) and vertical movements had returned to normal on the Hess chart.

Figure 1 Computed tomographic scan showing right parasellar lesion with smooth outline occluding the superior orbital fissure.

Figure 2 Histology of the parasellar chondrosarcoma. A lobulated cartilaginous tumour with compact nuclei (haematoxylin and eosin).
A rare cause of visual loss in AIDS patients: central retinal vein occlusion

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Loss of vision in AIDS patients is most commonly associated with cytomegalovirus (CMV) retinitis. Central retinal vein occlusion (CRVO) is an uncommon condition which has been reported once previously to cause visual loss in a patient with AIDS. In this report we describe an additional case of CRVO in an AIDS patient who presented with acute loss of vision temporarily related to treatment of anaemia with recombinant human erythropoietin (r-HuEPO).

Case report
A 31-year-old woman first tested positive for HIV infection in 1986. She acquired the infection during a 9 year period of intravenous drug use. Her illness had been complicated by multiple hospital admissions for Pneumocystis carinii pneumonia, Staphylococcus aureus pneumonia, and septicemia. At the time of presentation her medications included zidovudine, fluconazole, acyclovir, dapsone, imipramine, clonazepam, and r-HuEPO. r-HuEPO had been started 2 weeks before CRVO for anaemia associated with zidovudine treatment.

At presentation she complained of sudden, painless loss of vision in the right eye. The visual examination showed significant diminution of visual acuity.

Cost: 600

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Figure 1 Fluorescein angiography of the right eye showing extensive retinal haemorrhages, blurred disc margins, and dilated veins.

The main differential diagnosis in the reported case was meningioma although the relatively avascular tumour appearance on carotid angiography was against this. When the tumour contains calcification cranialyngioma must be considered and when positioned more posteriorly (clivus/cerebellopontine angle) radiological differentiation from chordoma may be difficult.

Our patient was treated by complete surgical tumour removal with no radiological evidence of recurrence to date. Surgery is the mainstay of treatment in these tumours which are not considered chemosensitive or radiosensitive.