months previously. An avidity of 40% is usually seen in infections acquired more than 6 months previously. The Goldmann-Witmer coefficient, the quotient of relative amounts of toxoplasma antibodies in vitreous and serum, was 3.19:1. Baarsma et al. consider a coefficient of more than 3 to be a positive result, consistent with localised active antibody production in the vitreous, suggesting active disease.

Our patient had no clinical or laboratory findings to suggest any underlying immunological abnormality. It has been suggested that symptomatic acquired toxoplasmosis affecting the eye is rare in the immunocompetent host, although cases have been reported. Virtually all reported cases had associated systemic features such as lymphadenopathy. Our provisional diagnosis of acquired toxoplasmosis affecting the eye was extremely unusual in an immunocompetent 60-year-old person with no other symptoms. The presence of toxoplasmal DNA in the vitreous sample, demonstrated by PCR was strong additional supporting evidence.

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Aspergillus niger as an unusual cause of scleritis and endophthalmitis

attached to the temporal angle of the anterior chamber and the adjacent iris. There were some cells in the anterior chamber without a hypopyon. A diagnostic anterior chamber paracentesis was performed, while treatment with topical prednisolone acetate 1% was continued. The left eye did not show any abnormalities. Two days later the visual acuity of the right eye had decreased to 20/200 and the anterior chamber showed branching crystalline material (Fig 1). Treatment was begun with topical fortified vancomycin (50 mg/ml) and ceftazidime (5%) every hour, periocular injections of vancomycin (25 mg) and ceftazidime (100 mg), and intravenous cefazolin (1 g every 8 hours). The anterior chamber aspirate grew Streptococcus sanguis in thioglycollate broth only, and the ceftazidime drops were stopped. Following her discharge, intravenous cefazolin was changed to oral cephalexin 500 mg four times a day.

The patient's symptoms and ocular signs improved initially, and the material in the anterior chamber became more crystalline although it did not disappear (Fig 2). The material in the anterior chamber subsequently developed into a net-like infiltrate which appeared to involve the iris and the lens capsule. A diagnostic and therapeutic pars plana vitrectomy and vitreotomy were performed: smears of the lens capsule revealed hyphae and cultures grew A niger on all plates. Intravitreal injections of amphotericin B (0.005 mg), vancomycin (1-0 mg), and dexamethasone (0.4 mg) were given at the time of vitrectomy. Subconjunctival injections of 25 mg vancomycin and 12 mg dexamethasone were also given. In the following days, the patient received two additional intravitreal injections of amphotericin B, oral fluconazole (200 mg twice a day), and topical fluconazole 2% every 2 hours. However, the infection progressed with a recurrence on the iris and a perlimbal scleritis on the involved side (Fig 3). Despite subsequent corneoscleral resection with hemi-iridocyclectomy and patch graft, eventually an enucleation had to be performed for intractable pain and recurrent infection. Histopathology of the specimens from the corneoscleral resection as well as from the enucleated globe revealed hyphae within the sclera (Fig 4). The pain continued to be severe following the enucleation but may have been due to a drug addiction problem: at this time information was obtained that our patient had been treated at a drug rehabilitation centre for drug misuse several years before the development of scleritis. She also had a history of breast automutilation.

Comment
No previous reports of scleritis due to A niger have been published, and very few cases of any type of Aspergillus scleritis without prior surgery or trauma have been reported. We can speculate about the possible causes of the Aspergillus scleritis in our patient. Possibilities include: (1) endogenous spread of an Aspergillus infection from elsewhere in the body, which is relatively common in injecting drug users; (2) local trauma; and (3) iatrogenic inoculation of fungus. Iatrogenically induced cases of Aspergillus

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Figure 1  Fluffy material in the anterior chamber, with attachment to the iris and chamber angle. A suture is seen on the site of the earlier paracentesis (14 December, 1992).

Figure 2  Crystalliform material remained attached to iris and anterior surface of the lens (17 December, 1992) following antibiotic treatment.

Figure 3  Scleral melt at the limbus, and recurrence of intraocular feathery material attached to the inferior pupillary border (26 January, 1993).
Scleritis have been reported following pterygium surgery, \(^1\) scleral buckling procedures \(^2\) and cataract surgery. \(^3\) Trauma has been described as a cause for myotic scleritis, \(^4\) but our patient did not recall any eye injury. Although these reported cases refer to exogenous infections, with agents other than \(A\) \(niger\), they do show similarities to our case. Clinically, severe headaches and periorcular pain are common findings, with symptoms that wax and wane following use of corticosteroids. In all cases, a delay in diagnosis was encountered. We cannot exclude the possibility that an infection was introduced at the time of the subconjunctival injections of corticosteroids, but the scleritis was present before the first injection and the original presentation did not differ significantly from subsequent recurrences. Furthermore, the location of the injection was away from the location of the scleritis. As mentioned above, apart from trauma and surgery, a third source of infection can be endogenous spread from another infected site – for example, following injecting drug use. \(^1,2\) In spite of an extensive examination, no source of infection could be identified in our patient. However, since our patient had a history of drug misuse, such an endogenous route related to drug misuse cannot be excluded. Since she had also been treated for autumilitation of the breast, autumilation of the eye as a source of \(Aspergillus\) infection may have led to a primary scleritis, followed by a mycotic endophthalmitis. The isolation of a concomitant second infectious agent (the streptococcal infection) could also be due to manipulation of the ocular surface. It could, however, also be an opportunistic infection on an otherwise already traumatised ocular surface. Our conclusion is that despite the relatively rare occurrence infection with \(Aspergillus\) should be regarded as a possible cause of any unusual protracted scleritis.

The clinical photographs were taken by Mr Anthony Cebillas.


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**Figure 4** Hyphae in a section of sclera obtained at the time of sclerectomy (Gomori-methenamine-silver stain, \(\times 22\).)

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### Superficial epithelioid schwannoma presenting as a subcutaneous upper eyelid mass

**Z Butt, J W Ironside**

We describe a case of superficial epithelioid schwannoma presenting as a mass in the supertemporal quadrant of the orbit. This was treated by local excision with no evidence of recurrence or metastases on follow up. To the best of our knowledge, this is the first case report of the tumour in this particular area.

**Case report**

A 55-year-old woman presented to our casualty department in 1989 with a 2 year history of an asymptomatic enlarging mass along the temporal aspect of her left upper eyelid. There was no significant medical or ocular history and the patient displayed none of the stigmata of neurofibromatosis.

On examination, corrected visual acuity was 6/6, N5 right eye and 6/9, N5 left eye. Pupils were reactive to light, she had a full range of extraocular movements and there was no proptosis. Her discs were normal. She had a 1 cm diameter smooth firm mobile mass along the supertemporal quadrant of her orbit. Posterior...