LETTERS TO THE EDITOR

Primary sebaceous carcinoma of the lacrimal gland

EDITOR,—Sebaceous carcinoma is a rare primary neoplasm of the lacrimal gland and to the best of our knowledge only five cases have previously been reported.1,2 Sebaceous carcinoma of the orbit more commonly occurs as secondary invasion from the eyelid but may occur as metastatic spread from elsewhere in the body. We report a case of primary sebaceous carcinoma of the lacrimal gland and discuss the histological diagnosis and management of the disease.

CASE REPORT

A 35 year old woman was referred with a 6 month history of a gradually enlarging palpable mass arising in the left superotemporal orbit and causing painless, and progressive diplopia. On examination she had a palpable, hard, fixed, left superotemporal orbital mass, a non-axial proptosis, and hypoglobus. The eyelids were normal. Examination of ocular motility revealed a restriction of left elevation. In addition, she was found to have an enlarged, painless ipsilateral preauricular lymph node. Computed tomograph (CT) and magnetic resonance imaging (MRI) scans showed the mass was arising from the lacrimal gland (Fig 1).

A transseptal biopsy of the mass was performed and histological examination showed tissue infiltrated by carcinoma in which the neoplastic cells were large and contained prominent nuclei. Many cells were vacuolated and contained lipid as confirmed by fat stains on unprocessed, fixed material. Immunohistochemistry revealed strongly positive staining for epithelial membrane antigen (EMA) and negative staining with anti-cytokeratin, indicating the carcinoma to be of sebaceous origin (Fig 2). Metastatic spread from another primary site was excluded by general physical examination, chest x ray, mammography, and isotopic bone scan undertaken by an oncologist.

A left orbital exenteration with left superficial parotidectomy and excision of left cervical lymph node was performed. Histological examination of the excision specimen showed a 35 × 30 × 18 mm tumour arising in the region of the lacrimal gland, which had been entirely replaced by sebaceous carcinoma, with only a small focus of ducal tissue being present at the margin of the tumour at one point. There was no involvement of the overlying periorbital skin, eyelid, or conjunctiva. The preauricular lymph node contained metastatic deposits, although her cervical lymph nodes were free from metastatic disease.

Postoperatively she underwent radiotherapy to the involved area and the orbit was allowed to granulate and re-epithelialise. Nine months after the surgery an isolated soft, mobile node was noted in the neck. This increased in size over 2 months and was found to be recurrent metastatic carcinoma on fine needle aspiration biopsy. Radical dissection of nodes in the neck confirmed involvement of 30–40 nodes and the patient received further radiotherapy. Six months after this, a swelling in the parotid region without lymphadenopathy again showed recurrent tumour. This lesion responded well to radiotherapy alone. Since then she has achieved good cosmesis with an orbital prosthesis and at the time of writing 3 years after original diagnosis she remains well with no signs of residual tumour.

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Congenital circumscribed choroidal haemangioma associated with infantile hepatic hamangioendotheliomatosi

EDITORS.—Choroidal haemangiomas are vas- cular hamartomas that occur in two distinct forms, circumscribed and isolated, or diffuse, as seen in the Sturge-Weber syndrome.1 Like- wise, hepatic haemangioendotheliomas are benign hamartomatous tumours composed of anastomosing vascular channels lined with endothelial cells. Infantile haemangioendo- theliomas (IHE) of the liver are congenital lesions noted at birth or during the first 6 months of life. Hepatomegaly, congestive heart failure, and haemangiomata of the skin combine to form the classic symptomatic triad.2 To our knowledge, this is the first report of a congenital circumscribed choroidal haemangioma and the first noted association of a circumscribed choroidal haemangioma with a visceral neoplasm.

CASE REPORT

A 3.75 kg male with an uncomplicated prena- tal history was born at full term by normal spontaneous vaginal delivery. At birth, the patient was noted to have a single 1 cm diam- eter cutaneous haemangiome of his left upper extremity. There was no family his- tory of ocular diseases or any haemangioem- tomatous syndromes. The patient’s early postnatal course was complicated by hepatic and congestive heart failure. During this time, his cutaneous haemangioendotheliomas had in- creased in number ranging from 2 mm to 1 cm in diameter involving his right upper extremity, occiput, and chest wall. An oph- thalmological examination was requested to exclude the possibility of LCHAD (long chain-

3-hydroxyacyl coenzyme A dehydrogenase) deficiency, a disorder of mitochondrial fatty acid β-oxidation, which is associated with cho- roidal haemangiomas. Funduscopic exami- nation revealed pigmented mottling of his macula and a dulled foveal reflex bilaterally. The optic discs and vasculature were within normal limits. A diagnosis of LCHAD defi- ciency was not supported by further serologi- cal testing. Diagnostic imaging revealed multi- ple hepatic lesions associated with hepatomegaly. Subsequently, at 7 weeks of age a liver biopsy was performed which confirmed the diagnosis of infantile hepatic haemangioend- otheliomas of the liver. Owing to persistent hepatic and congestive heart failure the patient underwent a living related hepatic transplantation at 6 months of age. His postoperative course was otherwise unremark- able with normal growth and development and resolution of his cutaneous haemangoen- dotheliomas.

Infantile hepatic and cutaneous haemangioendotheliomas show a high incidence of spontaneous regression and therapeutic measures are recommended only when associated conditions lead to morbidity.2 Although our patient’s hepatic haemangioma required surgical intervention the natural history of these lesions combined with the patient’s nor- mal vision and lack of associated vision threat- ening complications justified observation. Although the choroidal lesion eventually gave rise to subretinal fluid, macular detachment, and/or decreased visual acuity the patient may benefit from photocoagulation or radiation therapy. Thus, albeit rare and usually diagnosed in adulthood, circumscribed choroidal haemangiomas may present in a congenital fashion and may also be associated with visceral abnormalities of vasoculogenesis.

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Accepted for publication 27 November 2000

Echographic localisation of corticosteroid after retrobulbar injection

EDITORS.—Long acting periorcular cortico- steroids are commonly used to treat cystoid macular oedema (CMO) resulting from ocu- lar inflammation or cataract surgery that does not respond to topical therapy. Drug localisa- tion in the macular area is considered important for optimal therapeutic effect. In post- cataract CMO refractory to topical therapy, corticosteroids delivered by retrobulbar and posterior sub-Tenon’s injections are equally effective.1 Steroids given by sub-Tenon’s injection have previously been shown to local- ise to the macular area.2 Retrobulbar anaes- thetic injections have been shown to localise in the intrascleral space, but not precisely to the macular area.3 We performed ultrasono- graphy after retrobulbar steroid injection to confirm drug localisation in the macular area.

CASE REPORT

Six patients with chronic CMO secondary to sarcoid, idiopathic uveitis, or cataract surgery (Irvine-Gass syndrome) were in- cluded in the study. The main inclusion crite- ria were presence of a visually significant form of CMO that had either failed topical anti-inflammatory treatment, or was deemed clinically severe enough to warrant systemic or periorcular injections of corticosteroids prima- rily, and willingness to sign informed consent. The main exclusion criteria was refusal to consent to the procedure.

Each eye was injected with 1–2 ml of 40 mg/ml triamcinolone acetonide mixed with 0.5–2 ml of 2% lignocaine (lidocaine) with epinephrine (adrenaline) using a sharp 1½ inch 25 gauge needle. The needle was inserted at the inferotemporal aspect of the lower lid aiming in the direction of the orbital apex. The patient was asked to look straight ahead while the globe was balled towards the supe- rior orbit with the index finger of the non-injecting hand. Once the needle was posi- tioned in the muscle cone near the posterior pole, the solution was slowly injected.

B-mode ultrasound was performed within 30 minutes of the retrobulbar injection. After topical proparacaine (proparacaine) was given, a methylcellulose coupling agent was placed on the ultrasound transducer and the transducer was directly applied to the ocular surface. Standard longitudinal, vertical transverse, and axial planes were imaged (Figs 1 and 2).

In 15 of 16 (94%) eyes examined, ultrasound was localised to the macular area defined as the portion of the posterior pole bounded by the optic nerve, major temporal arcades, and 3 mm temporal to the fovea. In eyes where the bolus localised to the macular area, the mean distance between the most anterior aspect of


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Early wound dehiscence with use of hydroxyapatite orbital implant covered with calf pericardium

4. Hyndiuk RA, Reagan MG. Radioactive depot-corticosteroid penetration into monkey ocular tissue. J Retina and Eye System administra-

COMMENT

Depot steroids are an important therapy for patients by the same author with placement of allogeneic scleral wrapped HA implants. In the latter group, eight had pri-

Early wound dehiscence with use of hydroxyapatite orbital implant covered with calf pericardium

EORTON,—Enucleation techniques continue to evolve. While sclera covered hydroxyapatite orbital implants have been quite effective, two major limitations have led us to study other covering materials. One, while there has been no documented human immunodeficiency virus transmission, several patients have expressed concerns about the use of allogeneic sclera because of that issue. Two, in some set-
tings obtaining cadaver donor tissue in a timely manner can be vexing.

Processed calf pericardium has been used in a number of clinical settings as diverse as vas-
cular grafts and neurological surgical patches. Animal ophthalmic data with these materials have shown little untoward effect. While theo-
oretic concerns about prion disease can be raised no evidence of this problem has been reported from over 90 000 human implanta-
tions. While this material is a xenograft that is stored in glutaraldehyde, we are unaware of significant ophthalmic reactions on the basis of either parameter.

I performed a phase I-II trial with commer-
cially available pericardium in 14 patients who underwent enucleations for large intracocular tumours. I compared the results with 126 previous enucleations in similar patients by the same author with placement of allogeneic scleral wrapped HA implants. When two of these 14 cases developed early, apparently non-infective suture line break-
down (compared with none previously) I stopped the use of this approach.

CASE REPORT

In a phase I-II trial 14 eyes of 14 patients, with large intraocular tumours that were not amenable to eye salvage techniques, under-
went enucleation. Three patients had large, unilateral relitigating melanomas. In the latter group, eight had pri-
mary enucleations and three had their eye removed the implant. Tenon's layer was then closed with a running 4-0 polyglycolic and polylyctic acids (Vicryl) suture. While this material is a xenograft that is stored in glutaraldehyde, we are unaware of significant ophthalmic reactions on the basis of either parameter.

In the historic control group (126 cases), who had scleral covered HA implants, I had no cases with this type of complication in the first 6 months after surgery.

COMMENT

A large variation in the incidence of post-
enucleation complications have been re-
portad. Using the technique outlined above, I have not had an early (<6 months) wound dehiscence or anterior surface breakdown. It is unusual for us to have detected this compi-
llication in 14% of cases operated on with bovine pericardium. It is likely that either these patients had a reaction to the xenograft or to the preservative material (although the pericardium is carefully-washed saline solution, bupivacaine (Marcaine) and antibiotics before insertion). In some clinical investigations a higher incidence of early com-
plications with scleral covered hydroxyapatite implants has been reported; these series report wound dehiscence between 5-30%. While that higher incidence has been noted by others, it has not been my experience with a surgical technique that has been basically unchanged for several years.

The mechanism responsible for this early wound dehiscence is uncertain. In an animal study that compared bovine pericardium with homologous sclera there was significantly greater inflammation with the former mate-
rial; all rabbits that received bovine pericardi-
dium wrapped implants had diffuse inflamma-
tion in the outer 20% of the material. It is unlikely that our patients had a subclinical infection (cultures were negative and histological studies showed no organisms) although we cannot completely rule out that possibility.

While there are a number of theoretical advances with the use of calf pericardium instead of allogeneic sclera, the 14% incidence
of a significant complication has truncated my experience with this material.

Supported in part by a grant from the Tumorri Foundation.

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Accepted for publication 14 December 2000


**Figure 1** (a) Active granulomatous, haemorrhagic inflammation of the left upper tarsus in 1997. (b) Same area 2 years later. Note advanced scarring of the left upper tarsus causing entropion and trichiasis.

**Wegener’s granulomatosis as a cause of cicatrising conjunctivitis**

**EDITOR.—**Wegener’s granulomatosis is a multisystem disorder characterised by the classic triad of necrotising granulomas in the upper respiratory tract and the lung, a variable degree of systemic small vessel vasculitis, and a focal necrotising glomerulonephritis. A limited form of Wegener’s granulomatosis, with absence of glomerulonephritis, has been described.

Ophthalmic complications occur in about 30% of patients with biopsy proved disease. Among these orbital pseudotumours ulcerations of the sclera and the cornea are observed most frequently and the histopathological findings have been described.1 Involvement of the conjunctiva and eyelids has also been observed,1 but progressive scarring of the conjunctiva and its sequelae has not been reported.

**CASE REPORT**

A 72 year old man was first seen at our department in November 1997 with bilateral conjunctivitis. His medical history had been uneventful until early 1987, when he developed systemic illness with upper respiratory complaints and renal insufficiency. Wegener’s granulomatosis was diagnosed by biopsy of the nasal mucosa and kidney. In 1988 he developed necrotising anterior scleritis and peripheral corneal melting in the left eye. There was complete remission on systemic immunosuppressive therapy.

Since January 1997 the patient has suffered from recurrent bilateral conjunctivitis. He complained about persistent epiphora in the left eye and irritation in both eyes. He was then on local treatment with fusidic acid gel and prednisolone 1% eye drops for 2 weeks. On examination lid margin disease with obstruction of the meibomian glands and obliteration of the left canaliculus was noted. The left upper lid showed inflammatory thickening with haemorrhagic and necrotic circinatrical changes of the tarsal conjunctiva (Fig 1A). In the right eye similar changes were noted; they were, however, much less prominent. Bulbar conjunctiva was unremarkable and there were no other signs of active inflammation in the globe. As there was at that time no evidence of systemically active Wegener’s granulomatosis and as cANCA levels were near normal, systemic immunosuppressive treatment was not started again and therapy was restricted to the usual blepharitis regimen (oral tetracycline, lubricating agents, local antibiotics, and steroids).

The patient was referred again in March 1999 after he had suffered several episodes of superficial corneal ulceration in the left eye. On examination the left upper lid was less inflamed than 2 years earlier, but progressive scarring of the tarsus with cicatricial entropion and trichiasis had occurred (Fig 1B). The right upper eyelid showed marked inflammatory thickening, clinically imposing as multiple chalazia. A biopsy from the lateral right upper tarsus disclosed a chronic infiltration with lymphocytes, plasma cells, and occasional histiocytes. Numerous eosinophils but no giant cells were noted. Perivascular inflammation (Fig 2) and areas of active necrosis were only seen in few areas while disorganisation of the tarsus by fibrous tissue was obvious. Together with the analysis of extracellular tissue and the clinical background, the conjunctival biopsy was regarded as diagnostic.

**COMMENT**

The current state of knowledge has not recognised Wegener’s granulomatosis as a disorder causing cicatrising conjunctivitis.1 The diagnosis of granulomatous conjunctivitis in Wegener’s granulomatosis can easily be established in the presence of a history of systemic disease. Conjunctival and eyelid findings, however, may be the presenting symptoms1 and correct diagnosis is difficult. cANCA levels, a chest x-ray film, and an urinay sediment may be helpful in such situations.

Owing to the small number of cases, the experience in treating conjunctival Wegener’s disease is limited. In the absence of detectable cANCA levels or extracocular disease activity, we did initially not recommend systemic treatment with steroids and/or immunosuppressive agents. Considering the progressive course with severe lid complications this approach has to be redone.

Further reports will help in this decision.

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**An unusual presentation of diabetic neuropathy**

**EDITOR.—**Diabetic neuropathy can present in numerous forms; as symmetrical sensory polyneuropathy, mononeuropathy, or as an autonomic neuropathy. The earliest functional change in diabetic nerves is delayed conduction velocity, the earliest histological change is segmental demyelination due to damage of Schwann cells. We report an uncommon but important presentation, which can easily be overlooked on clinical examination.

**CASE REPORT**

A 27 year old woman was referred to Moorfields Eye Hospital complaining of bilateral, ached and irritable eyes and an acute gradual reduction in vision over the previous 18 months. This had not responded to a wide range of different topical medications. She had been an insulin dependent diabetic since the age of 11. History of control of her diabetes was good, on a regimen of subcutaneous Monotard and Actrapid. She had no other significant medical history.

On examination she was noted to have bilateral corneal erosions. She had a reduced blink rate and peripheral corneal thinning. Her visual acuity was recorded at 6/60 right, 6/24 left unaided. It was also noted that she had complete corneal anaesthesia in both eyes. Basic neurological examination was otherwise normal.

The patient had the typical appearance of a neurotrophic epithelium. She was started on hypromellose 1% eye drops and chloramphenicol 1% eye drops four times daily, daily, both preservative free to stabilise her epithelium, and this improved her symptoms and vision. Further progress was obtained with therapeutic contact lenses, and her visual acuity improved to 6/18 in both eyes. Because of her...
Corneal anaesthesia she was referred for full neurological investigation. Autonomic function tests were performed which revealed postural hypotension, blunted pressor tests, and a blocked valsalva test. There was much reduced heart rate variability and responses for her age were thought to be consistent with sympathetic and parasympathetic impairment. Her EMG and nerve conduction studies showed a mild sensory motor neuropathy. A sural nerve biopsy was offered but refused by the patient.

She was currently well maintained with sceral contact lenses and no other symptomatic manifestations of diabetic neuropathy.

COMMENT
Corneal anaesthesia can be physiological or pathological. Corneal sensation decreases with age, and is lower in females, especially premenstrually. Contact lens wear, and infection by herpes zoster and simplex, oedema and surgery will also reduce sensation. Congenital causes of corneal anaesthesia include corneal dystrophy and Riley-Day syndrome, and congenital corneal anaesthesia without an associated syndrome, which is presumed to be due to hypoplasia of the ophthalmic division of the trigeminal nerve. Systemic disease such as diabetes, myotonic dystrophy, scleroderma, and vitamin deficiencies are important causes of corneal anaesthesia, which can often be overlooked. Forty five per cent of diabetic patients had a degree of corneal hypoesthesia when examined in a study of 130 patients published by Osman et al. There is little or no relation between the age of a diabetic patient and the observed decrease in corneal sensitivity. However, corneal sensitivity thresholds do rise with increasing duration of diabetes. It has been suggested that diabetic peripheral neuropathy was due to occlusive vascular disease and nerve infarctions. More recent evidence suggests that common symmetrical distal polyneuropathy is due to segmental demyelination with associated or secondary axonal degeneration.

Recent studies show that there may be a potential to use topical neurotrophic growth factor therapy to treat neurotrophic corneal ulceration. In a study of 14 eyes Lambiase et al treated neurotrophic corneal ulcers with topical nerve growth factor for 2 weeks. Corneal healing began within 2-14 days and all patients had complete healing of their ulcers after 10 days to 6 weeks. Corneal anaesthesia may often be overlooked unless it is profound. It can be tested with cotton wisp or an anesthesiometer. It is important to test the corneal sensation subjectively and objectively and also to test all four quadrants of the cornea.

This case raises three important points:
1. Chronically irritated eyes should have their corneal sensation tested. Corneal anaesthesia is easily overlooked by nonophthalmologists and ophthalmologists alike, and the anaesthetic cornea represents a real risk of profound visual loss from trauma and infection.
2. Reduced corneal sensation can be a presenting feature of diabetic neuropathy. This woman had no other symptoms or signs of neuropathy apart from her corneal anaesthesia. If a diabetic develops a red or irritable eye, corneal sensation should be tested.
3. There is some promise for the future in that neurotrophic corneal ulceration may potentially be treated by the use of topical neurotrophic growth factors. The research into this project continues and is currently not in clinical practice.

References

Bilateral acute retinal necrosis and herpes simplex type 2 encephalitis in a neonate

EDITOR,—Acute retinal necrosis (ARN) is a rapidly progressing, sometimes devastating, retinitis associated with the herpes virus family. First described in 1971,1 it is diagnosed by the clinical triad of progressive peripheral retinal necrosis, occlusive vasculopathy, and vitreous inflammation.2 The association of herpetic encephalitis with ARN has been described in adults.3 4 Herpes simplex virus type 2 (HSV-2) has also been recognised as one of the causative agents of the ARN syndrome, particularly in Japan.5 It has been suggested that ARN in patients less than 25 years of age is likely to be caused by HSV-2.6 7 We present a case of bilateral ARN (BARN) in a neonate with HSV-2 encephalitis.

CASE REPORT
A 25 day old infant presented with a 4 day history of lethargy, poor feeding, and coughing. Examination revealed an injected, blistered pharynx and a solitary red skin lesion on the left upper arm accompanied by a cluster of vesicles. A clinical diagnosis of possible viral encephalitis was made, and intravenous aciclovir was commenced which has been shown to be effective in neonatal HSV encephalitis.8

Histology, including electron microscopy, of the retinal biopsy showed only necrotic tissue. A sample obtained 2 months post partum was positive for HSV-2.

COMMENT
Neonatal HSV infection is usually symptomatic and has a high mortality. Three quarters of cases are due to HSV-2, and this is most commonly acquired from the maternal genital tract lesion during delivery.9 The maternal HSV titres in this case suggest that the mother acquired a primary infection during the third trimester. A diagnosis of encephalitis was confirmed by the CT scan appearance and a PCR positive for HSV-2 in the CSF. The retinitis was first observed only 6 days after the onset of systemic symptoms and progressed significantly despite intravenous administration of aciclovir. This treatment was continued for several weeks and was then followed by oral therapy. The fact that HSV was not identified from the vitreous or retinal biopsy may be attributable to the prolonged antiviral treatment.

HSV encephalitis is a severe infection, especially in the neonate, that carries a potential risk of significant ocular involvement. This case highlights the importance of early diagnosis and active management. Like ARN in adults, this may include the need for prophylactic laser retinal photocoagulation to prevent retinal detachment and, should this fail, pars plana vitrectomy with silicone oil tamponade.

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Accepted for publication 8 January 2001


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Adjunctive therapy including cryotherapy, surgical excision, and autolimbal transplantation of conjunctival and corneal limbal stem cells for the treatment of conjunctival and corneal intraepithelial neoplasia (CIN) is the standard treatment for this condition. Many of these procedures induce significant scarring with notable impairment of vision. Mitomycin C has been used successfully in the treatment of CIN involving one third of the cornea for 10 days at a time. The recurrence rate is 1%. Topical mitomycin C has also been used as an alternative to autolimbal transplantation for recurrent CIN.

Surgical excision, autolimbal transplantation, and mitomycin C in the treatment of conjunctival and corneal intraepithelial neoplasia

Editor,—Conjunctival and corneal intraepithelial neoplasia (CIN) are uncommon lesions of low malignant potential. Surgical excision is the standard treatment for this condition. However, owing to the poorly defined borders of these lesions, recurrence rates following surgical excision can be as high as 53%. Adjunctive therapy including cryotherapy, radiotherapy, immunotherapy, and topical alkylating agents have been used to treat these lesions. These therapies induce limbal stem cell failure with consequent corneal epithelial problems, requiring (auto) stem cell transplantation. Topical alkylating agents like 5-fluorouracil and mitomycin C have been used successfully in the treatment of CIN. However, inhibition of limbal stem cell division with mitomycin C is thought to notably impair physiological corneal epithelial replacement. We report the successful use of autolimbal transplantation in the treatment of recurrent CIN.

CASE REPORT

A 37 year old white woman presented in February 1995 with a 6 month history of a slightly raised white lesion in the corner of her right eye. The lesion had been present intermittently for 10 months. The patient underwent excision biopsy of the lesion. Intraoperatively the exposed bed of the lesion was treated with absolute alcohol and the conjunctival edge with two cycles of cryotherapy.

COMMENT

Mitomycin C is a cytotoxic alkylating agent which inhibits DNA synthesis and is, therefore, most effective against rapidly dividing cells. While mitomycin C has been used to treat recurrences of CIN, there have been concerns about the effects of mitomycin C on the limbal stem cells and the integrity of the corneal epithelium. In our patient the grafted limbal stem cells and corneal epithelium remained healthy in spite of the significant dose of mitomycin C required to treat her recurrent CIN. To the best of our knowledge this is the first reported case of topical mitomycin C used successfully against CIN after autolimbal transplantation, despite the prolonged duration of application (40 days).

The authors would like to thank Miss April Powell-Richards and Professor J Lowe for their help with the illustrations.

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Accepted for publication 24 January 2001


Bilateral granulomatous uveitis in association with common variable immunodeficiency

Editor,—We report a case of bilateral granulomatous uveitis, which prompted extensive diagnostic review in a 20 year old woman with a long history of recurrent infection and idiopathic thrombocytopenia. Investigations allowed the definitive diagnosis of common variable immunodeficiency with granulomas (granulomatous antibody deficiency syndrome). To our knowledge this is the first reported case of granulomatous uveitis in...
Figure 1 Composite fundal photograph showing optic disc swelling and multifocal areas of choroidal pallor, representing granulomas.

Figure 2 (Left) Lymph node showing multiple, small, non-caseating granulomas (haematoxylin and eosin, ×125). (Right) Spleen showing little white pulp and few germinal centres (haematoxylin and eosin, ×125).

association with granulomatous antibody deficiency (GAD). We discuss the features of GAD, and how it may be distinguished from sarcoidosis.

CASE REPORT
A 20 year old woman presented with sudden onset blurred vision. Examination revealed a bilateral granulomatous uveitis with mutton-fat keratic precipitates and anterior chamber cells. Two weeks later she developed bilateral optic disc swelling with multifocal areas of choroidal pallor in her left eye (Fig 1). There was no vitritis or evidence of retinal vascular changes. Her uveitis settled on topical steroids and she maintained vision of 6/6 in the right eye and 6/9 in the left. The working diagnosis was sarcoidosis.

However, serum angiotensin converting enzyme (ACE) was not elevated and magnetic resonance imaging (MRI) showed no evidence of neoplasia. Plain chest films and high resolution computed tomography of the thorax revealed bilateral hilar and paratracheal lymphadenopathy, with air space shadowing and ill defined nodular opacities in both lower zones. Bronchial biopsies, obtained at fiberoptic bronchoscopy, showed inflammation of the bronchial epithelium consistent with bronchial pneumonia. No granulomata were seen.

As a child she had suffered from recurrent chest infections, with severe neutropenia and thrombocytopenia. By 6 years of age she had developed splenomegaly and widespread lymph node enlargement. Kveim and Mantoux test were both negative. Investigations for lymphoma over several years were negative. At 13 she underwent splenectomy for idiopathic thrombocytopenia. No definitive diagnosis was established for her in childhood. She suffered an episode of parotitis and at 18, infective discitis of the lumbar spine requiring intravenous antibiotics. This precipitated a drug induced hepatitis with thrombocytopenia. By 6 years of age she had chest infections, with severe neutropenia and hypogammaglobulinaemia. Kveim and Mantoux test were negative. At 18, infective discitis of the lumbar spine was established for her in childhood.

No definitive diagnosis was made. Her exacerbations of idiopathic thrombocytopenia responded to immunoglobulin therapy.

The diagnosis of common variable immunodeficiency syndrome (CVIS) with granulomas was made. Her exacerbations of idiopathic thrombocytopenia responded to immunoglobulin therapy.

COMMENT
CVIS is a primary immunodeficiency characterised by decreased or absent levels of immunoglobulins. Patients suffer from recurrent bacterial infections and respiratory failure is the principal cause of death. Autoimmune disease is seen in approximately 10% of cases, especially thrombocytopenia, haemolytic anaemia, and rheumatoid arthritis; 25% have splenomegaly and approximately one third have non-caseating granulomata in sites such as the liver, lungs, spleen, and lymph nodes. This variant is called granulomatous antibody deficiency (GAD): A sarcoid-like syndrome may be seen in 7.5% of patients.

To our knowledge this is the first reported case of bilateral granulomatous uveitis in association with GAD. As in sarcoidosis, serum ACE may be elevated if the granuloma burden is high and a Kveim test may be positive. The diagnosis of GAD hinges on the presence of hypogammaglobulinaemia, while in sarcoidosis immunoglobulin levels are normal or raised.

Granulomatous uveitis is often an indicator of systemic disease. When there is a history of recurrent infection or of autoimmune disease, immunoglobulin levels should be measured to exclude the possibility of a treatable immunodeficiency.

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Accepted for publication 13 December 2000


A postoperative complication far worse than endophthalmitis: the coexistence of orbital cellulitis

EDITOR,—The coexistence of endophthalmitis and orbital cellulitis in one individual is often a result of endogenous complications, such as metastatic septicaemia or infiltration from a neighbouring orbital infection. However, the coexistence of both these diseases as complications following intraocular or extracocular surgery is very rarely recognised and has only been reported previously in two patients who underwent radial keratotomy and penetrating keratoplasty. We report a patient who underwent uncomplicated phacoemulsification surgery under sub-Tenon anaesthesia and presented with an acute endophthalmitis and orbital cellulitis, leading to phthisis bulbi despite a good response to prompt treatment.
practised and periocular tissues are not draped. We recommend fastidious preparation of the lids and conjunctiva with 5% povidone iodine before sub-Tenon anaesthesia together with appropriate draping in addition to the standard procedure before intracocular surgery which has been shown to reduce the incidence of postoperative phthisis bulbi.

There is a general assumption that orbital cellulitis is an infective consequence of endophthalmitis, where the orbit was infected with the causative pathogen. On the other hand, orbital cellulitis could simply be an inflammatory response to the severe infection of the globe. The patient we describe presented with coexisting orbital cellulitis and endophthalmitis, probably resulting from simultaneous inoculation of the infecting organism into orbital tissues and the eye from the conjunctiva. This is supported by the findings of peri-orbital soft tissue swelling on the CT scan. In addition, the degree of orbital involvement could simply reflect the virulence of the particular organism.

COMMENT

The cause of postoperative endophthalmitis is often a result of inoculation of pathogens directly into the ocular cavity during surgery or indirectly into periocular tissues with no perception of light 2 months after the surgery.

The latest issue of *Letters, Notices* is now available online at www.bjo.bmj.com. Letters, Notices is the regular forum for correspondence on articles published in *The British Journal of Ophthalmology*. The journal welcomes correspondence not previously published and not under consideration elsewhere. Please note that *Letters, Notices* can only publish material that is of direct relevance to the journal's readership. We are especially interested in articles that offer alternative views, and in reports of interesting cases that could be of wider interest. The journal can also provide a forum for personal communications. Correspondence should be submitted electronically to bjo@bmj.com.

National prevention of blindness programmes and Vision 2020

The latest issue of *Community Eye Health* (36) discusses national prevention of blindness programmes. For further information please contact Community Eye Health, International Centre for Eye Health, Institute of Ophthalmology, 11–43 Bath Street, London EC1V 9EL. (Tel: (+44) (0) 20-7608 6909/6910/6923; fax: (+44) (0) 7250 3207; email: cepro@london.rockline.co.uk). A print subscription costs £25. Free to workers in developing countries.

Second Sight

Second Sight, a UK based charity whose aims are to eliminate the backlog of cataract blind in India by the year 2020 and to establish strong links between Indian and British ophthalmologists, will be sending volunteer surgeons to India early in 2001. Details can be found at the charity website at www.second-sight.org.uk or by contacting Dr Lucy Mathen (email address lucymathen@yahoo.com).

14th Annual Meeting of German Ophthalmic Surgeons

The 14th Annual Meeting of German Ophthalmic Surgeons will be held in the Meinhof Hall, Nurenberg, Germany on 17–20 May 2001. Further details: MCN Medizinische Congress-organisation Nurenberg AG, Zerrahlsstrasse 29, 90418 Nurenberg, Germany (tel: ++49-911-3931621; fax: ++49-911-3931620; email: doerflinger@mcn-nuernberg.de).

European Association for the Study of Diabetic Eye Complications (EASDEC)

The next meeting of the European Association for the Study of Diabetic Eye Complications (EASDEC) will be held in Paris, France, on 19–20 May 2001. Further details: Colloquium, 12 Rue de la Croix Faubin, 75 557 Paris Cedex 11, France (tel: +33-1-44 64 15 15; fax: +33-1-44 64 15 10; email: t.munder@colloquium.fr).

2nd Interdisciplinary Symposium on the Treatment of Autoimmune Disorders 2001

The 2nd Interdisciplinary Symposium on the Treatment of Autoimmune Disorders 2001 will take place on 7–9 June 2001 at the University Hospital, University of Kiel, Kiel, Germany. Further details: Prof Dr Med Michael Sticherling, Department of Dermatology, University of Kiel, Schittenhelmstrasse 7, D-24105 Kiel, Germany (tel: +49-431 597 1512; fax: +49-431 597 1611; email: m.sticherling@dermatology.uni-kiel.de).

European Intensive Program of Disease and Imaging of the Fundus

The European Intensive Program of Disease and Imaging of the Fundus will be held 2–12 July 2001 at the Clinique Ophthalmologique Universitaire, 40 avenue de Verdun, 94010 Créteil, France. Further details: Clémence Rousseau (tel: (33 1) 45 17 52 22; fax: (33 1) 45 17 52 60).

American Institute of Ultrasound in Medicine—Millennium Ultrasound Course Series

A course entitled “Obstetrical and Gynecological Ultrasound” will be held in New York City, NY, on 24–26 August 2001. Further details: Stacey Bessling, Public Relations Coordinator, AIUM, 14750 Sweitzer Lane, Suite 100, Laurel, MD 20707-5906, USA (tel: 301-498-4100; email: sbessling@aium.org).

14th World Congress of the International Society for Laser Surgery and Medicine

The 14th World Congress of the International Society for Laser Surgery and Medicine is to be held on the 27–30 August 2001 at Sri Ramachandra Medical College and University Hospital, Chennai, India. The American Society of Lasers in Medicine and Surgery has
indicated that it will designate the 14th World Congress of ISLSM as its society’s co-sponsoring meeting. A pre-conference course and separate sessions in ophthalmology will be held as a part of this international meeting. Further details: Dr B Krishna Rau, President, 14th World Congress of the International Society for Laser Surgery and Medicine, Department of Surgery, D2 Ward, Sri Ramachandra Medical College and Research Institute, Porur, Chennai - 600 116, India (tel: 91-44-4765856, 4768027-28, 8527776, 8594804; fax: 91-44-8594578, 4767008; email: krishnar@giasm01.vsnl.net.in and website: www.medindia.net/islsm2001).

31st Cambridge Ophthalmological Symposium
The 31st Cambridge Ophthalmological Symposium will be held 3–5 September 2001 at St John’s College Cambridge. The subject is Retinal Detachment. Further details: COS Secretariat, Cambridge Conferences, The Lawn, 33 Church Street, Great Shelford, Cambridge CB2 5EL, UK (tel: 01223 847464; fax: 01223 847465; email: b.ashworth@easynet.co.uk).

1st Asia Pacific Forum on Quality Improvement in Health Care
The 1st Asia Pacific Forum on Quality Improvement in Health Care will be held from 19–21 September 2001 in Sydney, Australia. Presented by the BMJ Publishing Group (London, UK) and Institute for Healthcare Improvement (Boston, USA), with the support of the Commonwealth Department of Health and Aged Care (Australia), Safety and Quality Council (Australia), NSW Health (Australia) and Ministry of Health (New Zealand). Further details: quality@bma.org.uk; fax +44 (0) 7383 6869.

41st St Andrew’s Day Festival Symposium on Therapeutics
The 41st St Andrew’s Day Festival Symposium on Therapeutics will be held on 6–7 December 2001 at the Royal College of Physicians of Edinburgh. Further details: Ms Eileen Strawn, Symposium Co-ordinator (tel: 0131 225 7324; fax: 0131 220 4393; email: e.strawn@rcpe.ac.uk; website: www.rcpe.ac.uk).

4th International Conference on the Adjuvant Therapy of Malignant Melanoma
The 4th International Conference on the adjuvant therapy of malignant melanoma will be held at The Royal College of Physicians, London on 15–16 March 2002. Further details: Conference Secretariat, CCI Ltd, 2 Palmerston Court, Palmerston Way, London SW8 4AJ, UK (tel: +44 (0) 20 7720 0680; fax: +44 (0) 20 7720 7177; email: melanoma@confcomm.co.uk; website: www.confcomm.co.uk/Melanoma).

XXIXth International Congress of Ophthalmology
The XXIXth International Congress of Ophthalmology will be held on 21–25 April 2002 in Sydney, Australia. Further details: Congress Secretariat, C/- ICMS Australia Pty Ltd, GPO Box 2609, Sydney, NSW 2001, Australia (tel: +61 2 9241 1478; fax: +61 2 9251 3552; email: ophthal@icmsaust.com.au; website: www.ophthalmology.aust.com).

International Society for Behçet’s Disease
The International Society for Behçet’s Disease was inaugurated at the 9th International Congress on Behçet’s Disease. Professor Shigeaki Ohno represents the ophthalmology division (Department of Ophthalmology and Visual Sciences, Hokkaido University Graduate School of Medicine, Sapporo, Japan: tel: +81-11-716-1161 (ext 5944); fax +81-11- 736-0952; email: sohno@med.hokudai.ac.jp). The 10th International Congress on Behçet’s Disease will be held in Berlin 27–29 June 2002. Further details: Professor Ch Zouboulis (email: zoubbere@zedat.fu-berlin.de).
Surgical excision, autolimbal transplantation, and mitomycin C in the treatment of conjunctival and corneal intraepithelial neoplasia

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Br J Ophthalmol 2001 85: 625
doi: 10.1136/bjo.85.5.625g

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