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 nucleoli. 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) but negative staining with anticytokeratin, 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 supraclavicular parotidectomy and excision of left cervical lymph nodes was performed. Histological examination of the excirteration 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 ductal 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.

A 35 year old woman suffered a 6 month history of a gradually enlarging palpable and painless, and progressive left upper lid mass, with 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).

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Congenital circumscribed choroidal haemangioma associated with infantile hepatic haemangioendotheliomatosis

EDITOR,—Choroidal haemangiomas are vascular hamartomas that occur in two distinct forms, circumscribed and isolated, or diffuse, as seen in the Sturge-Weber syndrome. Likewise, hepatic haemangioendotheliomas are benign hamartomatous tumours composed of anastomosing vascular channels lined with endothelial cells. Infantile haemangioendotheliomas (IHE) of the liver are congenital lesions noted at birth or during the first 6 months of life. Hepatomegaly, congestive heart failure, and haemangiomas of the skin combine to form the classic symptomatic triad. 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 prenatal history was born at full term by normal spontaneous vaginal delivery. At birth, the patient was noted to have a single 1 cm diameter cutaneous haemangioendothelioma of his left upper extremity. There was no family history of ocular diseases or any haemangiomatous syndromes. The patient's early postnatal course was complicated by hepatic and congestive heart failure. During this time, his cutaneous haemangioendotheliomas had increased in number ranging from 2 mm to 1 cm in diameter involving his right upper extremity, occiput, and chest wall. An ophthalmological examination was requested to exclude evidence of LCHAD (long chain 3-hydroxyacyl coenzyme A dehydrogenase) deficiency, a disorder of mitochondrial fatty acid β-oxidation, which is associated with choroidal haemangiomas. Funduscopic examination revealed pigmentary mottling of his retinal periphery in both eyes. The right macula was normal without pigmentary abnormalities but the left macula revealed a raised choroidal lesion with an orange coloration and reactive pigmentary changes without retinal, detachment or subretinal fluid. On A and B-scan ultrasonography the maximum height of the lesion was 2.1 mm and the reflectivity of the lesion was high. The clinical and ultrasonographic appearance was most consistent with the diagnosis of a circumscribed choroidal haemangioma. Given the patient’s normal visual acuity and absence of subretinal fluid, observation was recommended in lieu of laser or radiation therapy. Follow up examination at 15 months of age revealed normal visual acuities without progression of the lesion.

COMMENT
The pathogenesis of haemangiomas remains largely unknown. Histologically, the hepatic and cutaneous haemangioendotheliomas are composed of vascular channels lined by endothelial cells as well as cells suggestive of pericytes. Similar vascular characteristics are shared by circumscribed choroidal haemangiomas which consist of a mixture of small (capillary) or large (cavernous) vascular channels lined by flat endothelial cells separated by connective tissue septae. It has been proposed that persistent arteriovenous shunts, which normally occur in great numbers during the embryogenesis of the choroidal vasculature and then regress, may play a part in the development of choroidal haemangiomas. Whether a similar model may apply in the development of hepatic and cutaneous haemangioendotheliomas remains speculative.

Infantile hepatic and cutaneous haemangioendotheliomas show a high incidence of spontaneous regression and therapeutic measures are recommended only when associated conditions lead to morbidity. Although our patient's hepatic haemangioendothelioma required surgical intervention the natural history of these lesions combined with the patient's normal vision and lack of associated vision threatening complications justified observation. Should the choroidal lesion eventually give 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 vasculogenesis.
Early wound dehiscence with use of hydroxyapatite orbital implant covered with calf pericardium

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 settings 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 vascular grafts and neurological surgical patches. Animal ophthalmic data with these materials have shown little untoward effect. While theoretic concerns about prion disease can be raised no evidence of this problem has been reported from over 90,000 human implantations. 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 commercially available calf pericardium in 14 patients who underwent enucleations for large intraocular tumours. I compared the results with 126 previous enucleations in similar patients by the same author with placement of allogeneic sclera wrapped HA implants. When two of these 14 cases developed early, apparently non-infective suture line breakdown (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, underwent enucleation. Three patients had large, unilateral retinoblastomas and 11 had uveal melanomas. In the latter group, most had extraocular extension prior to surgery. Two patients had a reaction to the xenograft; in one patient an orbital haematoma occurred. While this material is a xenograft that is stored in glutaraldehyde, we are unaware of significant ophthalmic reactions on the basis of either parameter.

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COMMENT

A large variation in the incidence of postenucleation complications has been reported. Using the technique outlined above, I have not had an early (<6 months) wound dehiscence or anterior surface breakdown. It is uncertain why we have not developed this complication in 14 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 in balanced saline solution, bupivacaine (Marcaine) and antibiotics before insertion). In some clinical investigations a higher incidence of early complications 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 material; all rabbits that received bovine pericardium wrapped implants had diffuse inflammation 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 advantages with the use of calf pericardium instead of allogeneic sclera, the 14% incidence...
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.1 A limited form of Wegener’s granulomatosis, with absence of glomerulonephritis, has been described.2

Ophthalmic complications occur in about 30% of patients with biopsy proved disease,3 Among these orbital pseudotumours ulcerations of the sclera and the cornea are observed most frequently and the histopathological findings have been described.4 Involvement of the conjunctiva and eyelids has also been observed,5 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 1995 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 canalculus was noted. The left upper lid showed inflammatory thickening with haemorrhage and matted, cicatricial 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.5 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 symptoms and correct diagnosis is difficult. cANCA levels, a chest x ray film, and an urinary 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 extracellular 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 redefined. 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 red, painful eyes and visual acuity 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 insulin. She was referred for assessment of visual loss.

On examination she was noted to have bilateral corneal erosions. Together with the absence of peripheral corneal thinning and normal blink rate, this was suggestive of an autonomic neuropathy.

On questioning she noted that she had complete corneal anaesthesia in both eyes. Basic neurological examination was otherwise normal.

The patient had the typical appearances of a neurotrophic epithelium. She had been on hypromellose 1% eye drops and chloramphenicol 1% eye drops four times 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 was referred for full neurological investigation. Autonomic function tests were performed which revealed postural hypotension, blunted pressor tests, and a blocked valsala 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 is 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 anaesthesia 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 increased 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 factors to treat neuropathy and corneal ulceration. In a study of 14 eyes by Lambiae et al treated neurotrophic cornal ulcers with topical nerve growth factor for 2 weeks. Corneal healing began within 1-14 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 anaesthesiometer. 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:
• Chronically irritated eyes should have their corneal sensation tested. Corneal anaesthesia is easily overlooked by non-ophtalmologists and ophthalmologists alike, and the anaesthetic cornea represents a real risk of profound visual loss from trauma and infection.
• 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.
• 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

Eorton,―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 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, blistred pharynx and a solitary red skin lesion on the left upper arm accompanied by a cluster of tender pharynx and a solitary red skin lesion on the left. 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.1 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 the 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 photoocoagulation to prevent retinal detachment and, should this fail, pars plana vitrectomy with silicone oil tamponade.

REFERENCES


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Figure 1 Photograph showing where indirect argon laser photoocoagulation was used to demarcate the interface between necrotic and healthy retina.

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Letters, Notices
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 alcohol and urea have been used to treat the condition. Many of these procedures induce limbal stem cell failure with consequent corneal epithelial problems, requiring (auto) stem cell transplantation. Topical cytotoxic 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 prolonged mitomycin C after 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 fleshy white lesion in the corner of her right eye. In the past she had experienced intermittent episodes of bilateral sore, red eyes. Her visual acuities were 6/18 with pinhole in the right eye and 6/5 in the left eye. Ocular examination revealed a whitish elevated lesion on the right limbal conjunctiva from 7 to 11 o'clock extending almost to the central cornea (Fig 1A).

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. Postoperatively, a bandage contact lens was inserted and she was treated with topical preservative-free antibiotics and steroids. One month later the corneal and conjunctival epithelium had healed completely and vision improved to 6/12.

Histology confirmed the lesion to be conjunctival and corneal intraepithelial neoplasia (Fig 1B).

Two months postoperatively, she developed a recurrence in the form of two central, abnormal areas of corneal epithelium. These were treated by scraping and application of absolute alcohol to the bed of the lesion. Histology identified these lesions to be severely dysplastic corneal epithelial cells. Subsequently she developed right limbal stem cell failure resulting in recurrent episodes of filamentary and punctate keratitis and a reduction of visual acuity to 6/18. Histology of corneal scrapes showed epithelial cells and goblet cells. In February 1998 she underwent a right autologous limbal transplant and vision improved to 6/9.

Two months later she had a recurrence of CIN involving one third of the cornea (Fig 1C). This was treated with four cycles of 0.04% mitomycin C applied four times a day, for 10 days at a time. The tumour regressed completely in 3 months. Twenty months later she remains asymptomatic with a clear cornea (Fig 1D).

COMMENT

Mitomycin C is a cytotoxic alkylating agent which inhibits DNA synthesis and is therefore, most effective against rapidly dividing cells. While it 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 transplant, 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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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

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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 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.

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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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 sepsicaemia or infiltration from a neighbouring orbital infection.1 2 However, the coexistence of both these diseases as complications following intraocular or extraocular surgery is very rarely recognised and has only been reported previously in two patients who underwent radial keratotomy and penetrating keratoplasty.3 4 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.

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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 intraocular surgery which has been shown to reduce the incidence of postoperative infection.

There is a general assumption that orbital cellulitis is an infectious 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. Pathogens built within 2 months of the initial infection was also the result of the reported case of post-radial keratotomy, even though the causative pathogen differed from the present case. As the prognosis of both coexisting conditions is far worse than endophthalmitis or orbital cellulitis alone, early recognition and the initiation of aggressive treatment are vital.

CASE REPORT

A 77 year old woman with high myopia and left aphakia underwent uncomplicated phacoemulsification surgery of the right eye, and was noted to have coexisting orbital cellulitis.

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.

NOTICES

Voluntary 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 WC1N 3JH. Tel: (+44) (0) 20 7608 6909/6910/6923; fax: (+44) (0) 7250 3207; email: hippocampus@ic.ac.uk. The latest issue is available for £25. Free to workers in developing countries.
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@giamsmd01.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).