LETTERS TO THE EDITOR

Diffuse intraepithelial sebaceous carcinoma of the conjunctiva

EDITOR,—Recently, Margo and coworkers described a case of intraepithelial sebaceous carcinoma of the conjunctiva and eyelid erroneously diagnosed as a unilateral blepharoconjunctivitis for 10 years. This was reported to be the first published case of de novo sebaceous carcinoma in the conjunctival epithelium without evidence of a tumour focus within the eyelid. We present another case of diffuse intraepithelial sebaceous carcinoma of the conjunctiva presenting as blepharoconjunctivitis and superior limbic keratitis of 10 months’ duration.

CASE REPORT
A 70-year-old woman presented with a 10 month history of left sided, unilateral redness, tearing, and swelling of the lids. Examination showed marked conjunctival injection and thickening along the superior temporal and inferotemporal limbus, with moderate lid thickening, and pale corneal changes (Fig 1). There was mild foreshortening and scarring of the inferior fornix. A presumptive diagnosis of carcinoma in situ was considered with a secondary diagnosis of sebaceous gland carcinoma with intraepithelial spread. Biopsies of several sites of limbal, bulbar, and palpebral conjunctiva (Fig 2) revealed a diffuse intraepithelial malignancy with pagetoid and bowenoid growth and moderate chronic non-granulomatous inflammation in the underlying substantia propria but no evidence of stromal invasion. The tumour cells were markedly polymorphic and often exhibited multiple nucleoli. Mitotic figures were frequent (Fig 2B). Occasional dyskeratosis was noted but in many tumour cells the cytoplasm appeared foamy. Stains for mucin, mucopolysaccharides, and melanin within tumour cells were inconclusive, nor could lipid be demonstrated in either frozen or paraffin sections. Staining with OMI antibody (kindly provided by Dr H Grossniklaus, Emory University, Atlanta, GA, USA) against sebaceous gland antigen, however, revealed positive labelling of several sites of limbal, bulbar, and palpebral conjunctiva.

There was mild foreshortening and scarring of the inferior fornix. A presumptive diagnosis of carcinoma in situ was considered with a secondary diagnosis of sebaceous gland carcinoma with intraepithelial spread. Biopsies of several sites of limbal, bulbar, and palpebral conjunctiva revealed a diffuse intraepithelial malignancy with pagetoid and bowenoid growth and moderate chronic non-granulomatous inflammation in the underlying substantia propria but no evidence of stromal invasion. The tumour cells were markedly polymorphic and often exhibited multiple nucleoli. Mitotic figures were frequent (Fig 2B). Occasional dyskeratosis was noted but in many tumour cells the cytoplasm appeared foamy. Stains for mucin, mucopolysaccharides, and melanin within tumour cells were inconclusive, nor could lipid be demonstrated in either frozen or paraffin sections. Staining with OMI antibody (kindly provided by Dr H Grossniklaus, Emory University, Atlanta, GA, USA) against sebaceous gland antigen, however, revealed positive labelling of several sites of limbal, bulbar, and palpebral conjunctiva. Exenteration was performed and histology showed diffuse infiltration of the tarsal and bulbar conjunctiva by tumour cells, extending tumour cells.

Figure 1 Clinical photograph of the patient’s eye before enucleation. Note diffusely inflamed conjunctiva, loss of lateral lid lashes, and corneal opacification near the superior limbus.

COMMENT
The origin of the intraepithelial form of sebaceous carcinoma of the eyelid is still uncertain. While some believe that sebaceous metaplasia of the epithelium must precede neoplastic transformation, Margo et al have suggested that the tumour may arise de novo within the conjunctival epithelium since, in their case, no clear focus of neoplasia could be demonstrated in sebaceous glands of the eyelid.

In the present case, serial sections revealed evidence of a connection of the intraepithelial changes to a focus of neoplasia in a sebaceous gland of the lower lid. However, the surrounding basal lamina of this sebaceous gland remained intact. In addition, invasion of the basal lamina could not be demonstrated in any of the multiple biopsies or in the exenteration specimen. This pattern of spread is of particular interest as extensive intraepithelial neoplasia of the conjunctiva and cornea was most prevalent superiorly, and the meibomian glands of the upper lid appeared unremarkable. Rao et al have suggested that intraepithelial spread from a nodule of sebaceous tumour demonstrates decreasing epithelial involvement further from the tumour. This case appears to contradict the logic of this pattern of spread.

These findings, however, do not exclude the possibility of multicentric origin of the tumour. The additional focus of carcinomatous change in a pilosebaceous unit of the caruncle is suggestive of multicentricity as serial sections revealed no continuity with surface intraepithelial neoplasia. This may represent separate origins of carcinoma as a result of some innate cellular abnormality of epithelium in this patient.

Intraepithelial spread of sebaceous carcinoma is associated with a poor prognosis. Despite the absence of invasion in this case, exenteration was considered the appropriate therapy since a localised conjunctival and corneal epithelial excision in this case was not feasible. The presence of a tumour nidus in the lower lid suggests that this latter course of action would not have proved definitive. The presence of extension into the lacrimal punctum lends further credence to this hypothesis.

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Diagnosis of Dieffenbachia induced corneal injury by confocal microscopy

EDITOR,—Dieffenbachia, a tropical house plant, belongs to the family Araceae. Throughout the plant, specialised cells release needle-like crystals of calcium oxalate (raphides) in an explosive manner upon breaking the stem or the branches. These may penetrate skin and mucous membranes, and also involve the cornea. We present the first follow up of Dieffenbachia induced corneal lesions using a real time confocal in vivo slit scanning microscope.

CASE REPORT
A 26-year-old woman presented herself at the emergency room with pain, photophobia, and foreign body sensation in her right eye. These symptoms appeared immediately after breaking a leaf of the house plant Dieffenbachia 1 day earlier. She was otherwise healthy, except

Figure 2 Representative light microscopic appearance of first conjunctival biopsy (Histology No B91-281). (A) Note irregularly thickened epithelium and moderate inflammatory cell infiltrate in the substantia propria. (Haematoxylin and eosin, × 70.) (B) Higher magnification of intraepithelial malignant cells infiltrating between apparently normal conjunctival epithelium. Numerous mitotic figures (arrows) are present. (Haematoxylin and eosin, × 280.)
for an adenovirus keratoconjunctivitis 4 years earlier in her left eye. The patient’s ocular examination on presentation showed a best corrected visual acuity of 20/25 in the right eye and 20/20 in the left eye. Slit-lamp biomicroscopy of the right eye showed fine punctate opacities throughout the corneal stroma. The remainder of the ocular examination was normal, except for subepithelial opacities in the left cornea related to the previous adenovirus infection.

The patient underwent confocal in vivo slit scanning video microscopy, which offers real time non-invasive and non-contact serial imaging of corneal segments with resolution and imaging contrast. A 25%/0.60 water immersion objective was used. For higher optical resolution, we used a 50%/1.00 water immersion objective. Confocal microscopy, performed at 1, 4, and 8 weeks after the trauma, demonstrated highly reflective elongated structures (Fig 1) in all layers of the cornea. The cornea’s architecture remained globally undisturbed. There was no inflammatory cell infiltration. We observed diminution and fragmentation of the raphides (Fig 2) at 2 months, probably as a consequence of resorption.

Figure 1 Confocal microscopy 1 month after the injury. Numerous raphides could still be found in the corneal stroma. The keratocytes demonstrated normal reflectivity. There was no inflammatory cell infiltration.

Figure 2 Two months after the injury, confocal microscopy demonstrated fragmentation of the raphides (arrow).

COMMENT

Dreiefenchloba induced corneal lesions represent a benign affection of the anterior segment of the eye. Treatment should be aimed at relieving pain using mild steroids and cycloplegics. Confocal microscopy highly improved visualisation of the raphides. Usually there is a good history of trauma such as this so that establishing the diagnosis should not be problematic. However, in cases of ocular irritation with unknown aetiology, particularly with a history of contact with plant, confocal microscopy can establish the diagnosis of Dreiefenchloba induced injury by demonstrating the crystals of calcium oxalate.

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Elevation of serum IGF-1 precedes proliferative diabetic retinopathy in Mauriac’s syndrome

EDITOR—Mauriac’s syndrome is a rare condition of insulin dependent diabetic children with long standing poor glycaemic control, growth retardation, and liver enlargement in whom improvement of diabetes control accelerates diabetic retinopathy. The cause of this paradoxical progression of diabetic retinopathy is unknown.

CASE REPORT

A 21-year-old man, diabetic since the age of 2, was first admitted to our hospital because of short stature and delayed sexual maturation. He presented with all signs of Mauriac’s syndrome: height 155 cm (below third percentile), body weight 41 kg, prepubertal sexual development (pubic hair Tanner stage 3, genital stage 2), liver enlargement, and subnormal serum concentration of insulin-like growth factor 1 (IGF-1) of 162 ng/ml. His diabetes had been poorly controlled ever since, the actual HbA1c (normal < 5.6%, high performance liquid chromatography) being 13.3%, corresponding to an average glycaemia of about 20 mmol/l. Alkaline phosphatase was elevated (317 U/l) indicating delayed bone maturation; total cholesterol (314 mg/dl), low density lipoprotein cholesterol (263 mg/dl), triglycerides (375 mg/dl), and proteinuria (587 mg/) were also abnormal as a consequence of poor diabetes control. Basal and stimulated levels of growth hormone, gonadotrophins, prolactin, and thyroid stimulating hormone were normal, as were testosterone, ‘free’ thyroxine and triiodothyronine, parathyroid hormone, osteocalcin, and vitamin D metabolites. Funduscopy revealed mild non-proliferative diabetic retinopathy, corresponding to retinopathy level 1. Visual acuity was 1.0. Treatment aimed at improving diabetes control was initiated by increasing the insulin dosage. Serum IGF-1, HbA1c, and retinopathy levels were followed prospectively. Eight months after intensifying insulin therapy, HbA1c had declined to 11.9% (corresponding to an average glycaemia of 18 mmol/l) serum IGF-1 had increased to 326 ng/ml, and the patient had grown by 2 cm. However, retinopathy had progressed to a severe non-proliferative state with substantial ischaemia at the posterior pole and diffuse macular oedema (level 3) with a drop in visual acuity to 0.8 (Fig 1A and B). Limited central laser coagulation was commenced, followed by panretinal laser coagulation. After a further 2 months, IGF-1 had further increased to 482 ng/ml (Fig 2), while longitudinal growth was continuing. Simultaneously, diabetic retinopathy progressed to the proliferative state (level 5). All neovascularisations regressed upon completion of panretinal laser coagulation, and visual acuity was restored (level 4). Shortly after that, growth velocity declined (yielding a final height after 2 years of observation of 161.5 cm) as did the IGF-1 concentration (227 ng/ml).
COMMENT
This is the first prospective and close follow-up study to investigate the role of endogenous IGF-1 in the progression of diabetic retinopathy. The study was performed in patients with type 1 diabetes and Mauriac’s syndrome. The main findings were that serum IGF-1 concentrations and HbA1c levels increased in response to improving glycaemia, which is consistent with previous observations in diabetic patients. This increase may be due to improved glycemic control, which has been linked to an increase in serum IGF-1 concentrations and a decrease in HbA1c levels.

Morganella morganii postoperative endophthalmitis

EDITOR,—Postoperative bacterial endophthalmitis is a common but potentially blinding complication of intraocular surgery. The most common bacterial causes are Gram-positive organisms such as Staphylococcus epidermidis and coagulase-negative Staphylococcus species. The most common cause of postoperative endophthalmitis is M. morganii, which is a Gram-negative bacillus commonly found in the oral cavity and gastrointestinal tract.

CASE REPORT
A 68-year-old Filipino woman was treated for mild cataracts and was referred to our institution for surgery. On examination, she was found to have a unilateral cataract in the left eye. The cataract was removed under local anesthesia, and a posterior chamber intraocular lens was placed. Postoperatively, the patient developed endophthalmitis, which was diagnosed 4 days after surgery. The anterior chamber was deep, with 2+ anterior chamber reaction with a small hypopyon and vitreous haze. The culture of the anterior chamber aspirate grew M. morganii, which was sensitive to ciprofloxacin, tobramycin, and vancomycin. The patient was treated with topical and intravitreal anti-infective agents, and the infection resolved within 2 weeks.

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Figure 1 (A) Fundus of the left eye after 8 months of improved insulin therapy; severe non-proliferative diabetic retinopathy with diffuse maculopathy. (B) Same eye, fluorescein angiogram showing IRMAs and areas of capillary non-perfusion at the posterior pole.

Figure 2 Retinopathy level (1 = background, 5 = proliferative retinopathy), serum IGF-1, and HbA1c in patients with Mauriac’s syndrome 6–14 months after improving diabetes control. PLC = panretinal laser coagulation.
organism. In addition, subconjunctival and intravenous vancomycin and ceftazidime, as well as topical prednisolone acetate, were also given, all at the doses used on initial presentation more than 10 weeks earlier. No capsular abscess or plaque was seen. All Gram stains, cultures, and biofilms were negative. Two weeks after the vitrectomy the patient developed a non-clearing virulent haemorrhage and was noted to have rubescence iridis sparing the angle. Intraocular pressure remained normal. A second pars plana vitrectomy was performed revealing intraretinal haemorrhages in all four quadrants consistent with a central retinal vein occlusion. Endolaser panretinal photocoagulation was given intraoperatively. Following surgery and for the ensuing 7 months, the patient’s vision remained poor at counting fingers, despite complete regression of rubescence and clear media.

COMMENT

*Morganella morgani* is a rare but usually devastating cause of postoperative endophthalmitis.1 In those few reported cases the visual outcome has been poor, the one exception being the patient reported by Smolin.2 Like our patient, received early and aggressive intervention. However, unlike Smolin’s patient, our patient developed an acute increase in anterior chamber inflammation after abruptly discontinuing her topical prednisolone acetate. While there are many possible causes of delayed, postoperative intraocular inflammation,3 the most likely cause in our patient was recurrent endophthalmitis. This was due to *M morgani* and/or a delayed, recurrent infection. Both have been found in the same patients.4–6

Smolin et al5 reported an unexpected isolation of Proteus species from the postoperative cultures of a patient with *M morgani* endophthalmitis. As such, is often associated with urinary tract infections. However, our patient denied urinary or constitutional symptoms suggesting either a urinary tract infection or bacteraemia.

Our patient ultimately developed a virulent haemorrhage and was noted to have rubescence 10 weeks after her initial presentation with endophthalmitis. Scattered intraretinal haemorrhages were seen after cataract surgery, and were attributed to accelerated, background diabetic retinopathy. In retrospect, however, these haemorrhages would seem most consistent with a mild central retinal vein occlusion, possibly at the time of the initial endophthalmitis, leading 10 weeks later to neovascularisation of the retina and iris.

In summary, *M morgani* is an uncommon cause of postoperative endophthalmitis. Prompt recognition and treatment of postoperative endophthalmitis, whether due to *M morgani* or other more common organisms, can lead to good visual recovery, as observed initially in our patient.

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CASE REPORT

A 79-year-old man presented with a 4 day history of right side periocular swelling, erythema, and mild diplopia on upgaze. A clinical diagnosis of preseptal cellulitis secondary to maxillary sinusitis was made. In view of his diplopia and a possible right ptosis he underwent a CT scan examination of his orbits. This confirmed the preseptal soft tissue swelling on the right with no orbital involvement of the inflammation. The scan also revealed a linear opacity of soft tissue density lateral to the right lateral rectus muscle, possibly arising from the proximal part of its belly and inserting on the lateral orbital wall, raising the suspicion of a neoplastic plaque. As the patient’s cellulitis resolved on a 10 day course of oral antibiotics no further surgical intervention was considered at this stage. A repeat CT scan performed 3 months later showed no change in his previous orbital finding (Fig 1).

A literature search confirmed this linear opacity to be an anatomical variant of the lateral rectus.

COMMENT

Anomalies of the extrinsic musculature of the human orbit are rare and their identification on postmortem dissections is difficult.1 A number of modifications in orbital connective tissue and muscular attachments have been reported and have been shown to vary between individuals.2 Bergman et al2 demonstrated muscular fasciculi passing from the lateral rectus and inserting into the lateral wall of the orbit while Koornneef et al3 described connective tissue attachments between the lateral rectus muscle and the lateral orbital wall. Other anomalous fibrous and muscular attachments of the lateral rectus muscle to the inferior tarsal plate, inferior rectus, medial rectus, and lateral canthus4 have also been reported. These anatomical variants are thought to influence eye movements and to have a stabilising role on lateral rectus action. It is important to be aware of these rare orbital anomalies and recognise them on CT or magnetic resonance imaging scans. This would save the patient unnecessary further investigations.

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Accepted for publication 4 November 1996

Figure 1
Linear opacity of soft tissue density arising from the right lateral rectus muscle and inserting onto the lateral orbital wall.


Lateral rectus variant mimicking orbital pathology

EDITOR,—We present the case of a patient with unilateral lateral rectus muscle anomaly on computed tomography (CT) scan mimicking orbital pathology. A repeat scan 3 months later and a literature search confirmed this to be an anatomical variant of the involved muscle.

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Accepted for publication 4 November 1996
CASE REPORT

A 93-year-old white woman underwent endocapsular cataract extraction with posterior chamber intracapsular lens implantation in the right eye under local anaesthesia in August 1995. On the second postoperative day she developed endophthalmitis.

Vitreous biopsy/intravitreal antibiotic injection could not be done as the patient immensely disliked the idea of any further surgical or anaesthetic procedures and refused to consent. After much persuasion, she agreed to an aqueous tap which was done by her bedside. A conjunctival swab was also taken. She was given subconjunctival cefuroxime 150 mg, intensive topical cefuroxime 5% and fortified gentamicin drops, and intravenous cefuroxime 750 mg 8 hourly.

 Cultures of the conjunctival swab and the anterior chamber material showed P. multocida to be parasitic in humans and other vertebrates, causing diseases transmitted by arthropods. Species in the genus Rickettsia have been subdivided into three groups of antigenically related organisms: spotted fever, typhus, and scrub typhus. R. conorii, the most ubiquitous Rickettsia of the spotted fever group, is the aetiological agent of Mediterranean spotted fever (also called fiebre amarilla) in animals. The brown dog tick, Rhipicephalus sanguineus, is the prevalent vector and the disease is normally transmitted by the bite of the tick. In this report we describe a case of Mediterranean spotted fever acquired through the eye by means of a jet of blood coming from a crushed tick. The disease, which varies in severity but is seldom fatal, is considered endemic during the spring and summer in most of the regions bordering on the Mediterranean and Black seas, in Kenya and other parts of central Africa, South Africa, and certain parts of India. Over the past decade, outbreaks have been reported in Italy and Spain.

When a patient presents with Parinaud’s oculoglandular syndrome in areas where Mediterranean spotted fever is endemic, the possibility that the rickettsial disease may have been acquired through the eye should be kept in mind.

Figure 1 Macroscopic and microscopic (hematoxylin and eosin) appearance of the right eye (vertical section, nasal aspect) showing the gaping superior limbal surgical wound. Pat is present within the partially collapsed anterior chamber, in the posterior chamber, and around the lens implant, which has dissolved during processing for histology.

COMMENT

To our knowledge only three cases of P. multocida endophthalmitis have been reported in the literature so far, two of which were from cat scratch injuries.3,4

Hoffman et al.1 reported the third case in a 61-year-old man who developed the infection 8 years after phacoemulsification with implantation of an iris plane lens. There was no history of animal bite and the infection was considered to be endogenous. Pars plana vitrectomy was performed but the visual outcome was poor despite antibiotic therapy.

P. multocida is a Gram negative coccobacillus which usually causes infection in animals such as cats, dogs, and cattle and it is a frequent commensal in animals. It is not a usual human commensal but it has been found as part of bacterial flora in the upper respiratory tract of apparently healthy people who have been exposed to animals with no history of injuries such as bites or scratches.5

Human infection due to P. multocida occurs more frequently after exposure to cats than dogs and presents as focal cellulitis at the site of inoculation. This is of utmost importance as the condition may result in severe visual impairment.7

REFERENCES


Oculoglandular syndrome in Mediterranean spotted fever acquired through the eye

Editor,—We examined a 33-year-old woman with a week long history of a progressively inflamed left eye who showed oculoglandular conjunctivitis and a marginal corneal ulcer. Three days later she presented with fever and chills, and a purulent conjunctival exanthem on the right eye. The patient revealed that 2 weeks before admission, she had accidentally crushed a tick on her dog. Blood samples taken on this day were all found to be negative. Blood tests showed an increased white cell count and a lower number of white cells. Cultures collected before start of treatment were all found to be negative. Antigenic and chlamydial cultures were taken on the second postoperative day she developed endophthalmitis.

Postoperative endophthalmitis due to Pasteurella multocida

Editor,—We present a rare case of endophthalmitis due to Pasteurella multocida, a bacterium commonly pathogenic to animals but rare in humans. This is the first reported case of P. multocida endophthalmitis in which the infection occurred as an immediate postoperative complication following an uneventful cataract surgery.

COMMENT

Members of the genus Rickettsia are small Gram negative organisms often intimately associated with arthropod tissues.1,2 They may be parasitic in humans and other vertebrates, causing diseases transmitted by arthropods. Species in the genus Rickettsia have been subdivided into three groups of antigenically related organisms: spotted fever, typhus, and scrub typhus. R. conorii, the most ubiquitous Rickettsia of the spotted fever group, is the aetiological agent of Mediterranean spotted fever (also called fiebre amarilla) in animals. The brown dog tick, Rhipicephalus sanguineus, is the prevalent vector and the disease is normally transmitted by the bite of the tick. In this report we describe a case of Mediterranean spotted fever acquired through the eye by means of a jet of blood coming from a crushed tick. The disease, which varies in severity but is seldom fatal, is considered endemic during the spring and summer in most of the regions bordering on the Mediterranean and Black seas, in Kenya and other parts of central Africa, South Africa, and certain parts of India. Over the past decade, outbreaks have been reported in Italy and Spain.1

When a patient presents with Parinaud’s oculoglandular syndrome in areas where Mediterranean spotted fever is endemic, the possibility that the rickettsial disease may have been acquired through the eye should be kept in mind.

Figure 1 Macroscopic and microscopic (hematoxylin and eosin) appearance of the right eye (vertical section, nasal aspect) showing the gaping superior limbal surgical wound. Pat is present within the partially collapsed anterior chamber, in the posterior chamber, and around the lens implant, which has dissolved during processing for histology.

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Hoffman et al.1 reported the third case in a 61-year-old man who developed the infection 8 years after phacoemulsification with implantation of an iris plane lens. There was no history of animal bite and the infection was considered to be endogenous. Pars plana vitrectomy was performed but the visual outcome was poor despite antibiotic therapy.

P. multocida is a Gram negative coccobacillus which usually causes infection in animals such as cats, dogs, and cattle and it is a frequent commensal in animals. It is not a usual human commensal but it has been found as part of bacterial flora in the upper respiratory tract of apparently healthy people who have been exposed to animals with no history of injuries such as bites or scratches.5

Human infection due to P. multocida occurs more frequently after exposure to cats than dogs and presents as focal cellulitis at the site of inoculation. This is of utmost importance as the condition may result in severe visual impairment.7

REFERENCES

of injury caused by animals, chronic respiratory infections, intra-abdominal infections, or bacteraemia with or without metastatic lesions.' Conjunctivitis' and corneal ulcer following injury by a dog' have also been reported.

Our patient has had a pet cat for 2 years and we believe that it is highly possible that the infection could have been acquired from the cat although there was no history of bites or scratches. Swabs from the nose and nasopharynx did not grow \textit{P} \textit{multocida} in our patient but it was cultured from the conjunctival sac of her other eye 20 days after the enucleation of the infected eye.

We thank to Dr L A Jewes for microbiology work and advice.

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5 Hubbert WT, Rosen MN, II. \textit{Pasteurella multocida} infection in man unrelated to animal bites. \textit{Am J Publ Health} 1970;60:1109.
CORRESPONDENCE

Descemet's membrane detachment

EDITOR,—The report on Descemet’s membrane detachment by Mulhern and coauthors requires comment.

In a report last year, we detailed three cases of Descemet’s membrane (DM) detachment after intraocular surgery, one of which occurred after preparation of a phacoemulsification scleral pocket.1 The detachment involved the visual axis, was recognised intraoperatively, and an attempt at primary repair was made. After a successful secondary repair, final visual acuity attained was 6/6. We suggested that efforts should be made at the time of primary surgery to repair a recognised large DM detachment, and that an expanding gas such as SF6, with or without suture fixation, should be used.

The management of the case reported by Mulhern and coauthors involved primary excision of a large fragment of detached DM. This action takes no account of the possibility that the detachment may settle spontaneously postoperatively, nor of the varied techniques available for secondary repair which we summarised.2

Noted among the potential complications of DM repair mentioned by the authors precludes later penetrating keratoplasty if the outcome of the repair is insufficiently unsatisfactory, and it is difficult to imagine how a subsequent penetrating keratoplasty could be ‘facilitated’ by excising the membrane.3 Similarly, it seems implausible to suggest that sutures transfixing the membrane would induce unacceptable astigmatism, when they would straddle no corneal endothelium and could be removed within months of the repair, and when the alternative, by excising DM and its attendant endothelium, is to irrevocably commit the patient to a procedure with a much higher potential to generate astigmatism, which has a visual rehabilitation in excess of 1 year and a lifetime follow up.

Our cases were repaired under general anaesthesia, but this is almost certainly not essential, and topical, sub-Tenon’s, or regional block anaesthesia could be employed: if required, a series of relatively brief attempts to reattach the membrane could be undertaken before considering surgery as major as penetrating keratoplasty.

With the range of options available it is difficult to envisage any situation in which primary excision of a large fragment of detached Descemet’s membrane can be justified.

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Reply

EDITOR,—We welcome Walland’s recent letter concerning our case of Descemet’s membrane detachment during phacoemulsification surgery. In our article, we did allude to the various techniques which may help reappose Descemet’s membrane to the stroma; and to the fact that spontaneous reattachment of small planar detachments can occur. However, if our case report was read carefully, it can be seen that, given the tiny apical residual attachment of the involved fragment, and the fact that the flap involved involved almost 40% of the corneal surface, reattachment was unlikely. Furthermore, if the decision is reached that the fragment cannot be reattached, this fragment should be excised as the extent of the detachment may increase further during trephining in a subsequent penetrating keratoplasty procedure, thus increasing the detachment and potentially extending it into the peripheral cornea.

M MULHERN
Mater Hospital, Dublin

Author’s reply

EDITOR,—Thank you for the opportunity to offer further comments in relation to Mulhern’s report and his letter of reply.

I would assure Mr Mulhern that his case report was read carefully; part of the difficulty with the report lies in the fact that the text makes no mention of a tear X (Fig 1), while the illustration footnote makes no mention of a tear YZ. The membrane was torn along three sides and secured only at an apex point (Z), in which case it would be highly unlikely that the tear would extend peripherally upon trephination for penetrating keratoplasty (PK) (as suggested in his reply), but would rather completely its detachment at point Z; or the membrane was detached along two sides with the flap based along the third, in which case it would be ideally suited to a trial of either spontaneous reattachment or active intervention. In neither situation is excision of the DM fragment helpful, and excision commits the patient to a PK.

There have been several reports in the literature (some cited in our article, ref 2 in my original letter) of DM detachment in excess of the 40% area in Mulhern’s case including subtotal, non-planar detachments, which have successfully resolved either spontaneously, or with active intervention, and these criteria therefore offer no justification for excision of a detached DM fragment.

MARK J WALLAND

NOTICES

XVI Congress of the Asia Pacific Academy of Ophthalmology

The XVI Congress of the Asia Pacific Academy of Ophthalmology will be held in Kathmandu, Nepal from 2–6 March 1997. Further details: The Secretariat, XVI Congress of APAO, Nepal Eye Hospital Building, Tripureswor, PO Box 335, Kathmandu, Nepal. (Fax: +977 1 227505/518.)

Conferences on Angiography in Crétteil

A review of the literature on retinal and choroidal vascular pathology will take place on 10 March 1997 at the University of Crétteil. Further details: Professor Gisèle Soubrane, Clinique Ophtalmologique Universitaire de Crétteil, 40 Avenue de Verdun, 94010 Crétteil Cedex, France. (Tel: 45 17 52 22.)

Glaucoma Meeting Basel ’97

A teaching meeting on NO and endothelin in the pathogenesis of glaucoma will be held on 21–22 March 1997 at the Zentrum für Lehre und Forschung (ZLF), Kantonsspital Basel, Hebelstrasse 20, Basel, Switzerland. Further details: Daniela Stumpfig, University Eye Clinic Basel, Mittlere Strasse 91, PO Box, CH-4012 Basel, Switzerland. (Tel: ++41-61-321 59 62 or ++41-61-321 77 77; fax: ++41-61-321 40 01.)

International Symposium on Ocular Tumors

The International Symposium on Ocular Tumors will be held on 6–10 April 1997 in Jerusalem, Israel. Further details: Professor J Pe’er, Tumors, PO Box 50006, Tel Aviv 61500, Israel. (Tel: 972 3 5140000; fax: 972 3 5175674 or 514007.)

2nd International and 4th European Congress on Ambulatory Surgery

The 2nd International and 4th European Congress on Ambulatory Surgery will be held at the Queen Elizabeth II Conference Centre, Westminster, London on 15–18 April 1997. Further details: Congress Secretariat, Kite Communications, The Silk Mill House, 196 Hathersfield Road, Meltham, West Yorkshire HD7 3AP. (Tel: +44 1484 854575; fax: +44 1484 854576.)

Second European Forum on Quality Improvement in Health Care

The Second European Forum on Quality Improvement in Health Care will take place on 24–26 April 1997 in Paris, France. The forum will consist of one day teaching courses, invited presentations, posters and presentations selected from submissions, and a scientific session. Further details: BMA, Conference Unit, PO Box 295, London WC1H 9TE. (Tel: +44 (0) 171 383 6478; fax: +44 (0) 171 383 6869.)

Association for Research in Vision and Ophthalmology (ARVO)

The Association for Research in Vision and Ophthalmology (ARVO) is holding its annual meeting on 11–16 May 1997 at the Fort Lauderdale Convention Center, Fort Lauderdale, Florida, USA. Further details: ARVO, 9650 Rockville Pike, Bethesda, MD 20814-3998. (Tel: (301) 571-1844; fax: (301) 571-8311.)

30th Panhellenic Ophthalmological Congress

The 30th Panhellenic Ophthalmological Congress organised by the Hellenic Ophthalmological Society will be held at the Astir Palace Hotel, Vouliagmeni on 28 May to 1 June 1997. Further details: T Kouris, CT Congress, Creta Travel, 19 Amerikis 106 72 Athens, Greece. (Tel: (01) 3607 120, 3635 104; fax: 3603392.)

Conferences on Angiography in Crétteil

A conference on clinical cases in ICG will be held on 9 June 1997 at the University of Crétteil. Further details: Professor Gisèle Soubrane, Clinique Ophtalmologique Universitaire de Crétteil, 40 Avenue de Verdun, 94010 Crétteil Cedex, France. (Tel: 45 17 52 22.)
British Council International Seminar

A British Council international seminar (number 97031) entitled 'Corneal and external eye disease: new surgical techniques' with Professor D L Easty as director will be held on 29 June to 5 July 1997 in Bristol, UK. The seminar will be of particular interest to all young eye surgeons from the developing and developed world. Further details: Promotions Manager, International Seminars, The British Council, 1 Beaumont Place, Oxford OX1 2PJ, UK (Tel: +44 (0) 1865 316636; fax: +44 (0) 1865 557368/516590; E-mail: International.Seminars@britcoun.org).

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

The 7th meeting of EASDEC will be held on 18–19 July 1997 at the Okura Hotel, Amsterdam, the Netherlands, as a pre-congress symposium of the 16th International Diabetic Federation (IDF) congress. Further details: Professor BCP Polak, Rotterdam Eye Hospital, PO Box 70030, 3000 LM Rotterdam, the Netherlands. (Fax: (31)104017655.)

Continuing Medical Education

The 17th annual current concepts in ophthalmology will be held on 25–27 July 1997 at the San Diego Marriott Mission Valley, San Diego, California, USA. Further details: Marie Krygier, Medical Education Coordinator, San Diego Eye Bank, 944 Balboa Avenue, Suite 100, San Diego, CA 92123, USA. (Fax: (619) 565-7368.)

5th International Symposium on Ocular Circulation and Neovascularisation

The 5th International Symposium on Ocular Circulation and Neovascularisation will be held on 15–19 September 1997 in Kyoto, Japan. Further details: Professor Dr Masanobu Uyama, Secretary General of the Organising Committee, Department of Ophthalmology, Kansai Medical University, Moriguchi, Osaka 570, Japan. (fax: 81-6-997-3475.)

2nd International Symposium on ARMD

The 2nd International Symposium on ARMD will be held at Glasgow University, Scotland under the auspices of the Royal College of Ophthalmologists on 16–18 September 1997. Further details: Dr G E Marshall, Eye Department, Western Infirmary, 38 Church Street, Glasgow G11 6NT, UK. (Tel: 0141 211 2094; fax: 0141 339 7485; email: gem1b@clinmed.gla.ac.uk)

XXVIIIth International Congress of Ophthalmology

The XXVIIIth International Congress of Ophthalmology will be held in Amsterdam on 21–26 June 1998. Further details: Eurocongress Conference Management, Jan van Goyenkade 11, 1075 HP Amsterdam, the Netherlands. (Tel: +31-20-6793411; fax: +31-20-6737306; internet http://www.solution.nl/ico-98/)

2nd International Conference on Ocular Infections

The 2nd International Conference on Ocular Infections will be held on 22–26 August 1998 in Munich, Germany. Further details: Professor J Frucht-Pery, Ocular Infections, PO Box 50006, Tel Aviv, 61500, Israel. (Tel: 972 3 5140000; fax: 972 3 5175674 or 5140077.)

Corrections

The December issue of the BJ O unfortunately included two incorrect figures. This was caused by a computer error during the production of the issue. The first error appeared in the paper by Otto et al (1996; 80: 1042–5). Figure 2 on p 1043 was distorted; the correct version appears below. The second error occurred in the paper by Harper et al (1996; 80: 1068–72). The upper part of Figure 2C on p 1070 should read ‘28-year-old woman’ not ‘20-year-old woman’. We apologise to the authors for these errors.

Figure 2. Retrobulbar pressures (RBP) recorded during surgical decompression in patient no 7 with Graves’ ophthalmopathy. After connecting a sterile pressure transducer catheter an initial RBP of plus or minus 7 mm Hg was measured. Excessive peaks and roughness of the graphs is caused by spatula manipulation. Spatula force induced pressures of over 70 mm Hg. At the 78th minute of surgery incisions were made in the periorbit and the RBP decreased.
Diffuse intraepithelial sebaceous carcinoma of the conjunctiva

KARIN U LOEFFLER and JAY I PERLMAN

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