Solitary CD30+ anaplastic large cell lymphoma of the eyelid showing regression

CD30+ anaplastic large cell lymphoma (ALCL) belongs to the group of T cell non-Hodgkin’s lymphomas. The primary cutaneous variant of ALCL usually presents as a solitary, cutaneous, or subcutaneous redish violet lesion, which can be superficially ulcerated. We present the case of a solitary CD30+ ALCL of the eyelid showing regression.

Case report

A 39 year old man presented with a 4 week history of a progressive painless ulcerating nodule on the right upper eyelid, unresponsive to oral flucloxacillin. He was systemically well and denied recent foreign travel or contact with animals.

A 17 mm diameter ulcer with rolled margins and serosanguinous exudate was evident over the right upper eyelid (fig 1). His cornea, conjunctiva, and anterior chamber were normal. Systemic examination was unremarkable.

Investigations including full blood count, urea and electrolytes, bone and liver profile, immunoglobulins and electrophoresis, autoantibody screening, and Treponema antibody were normal or negative. Tissue culture failed to demonstrate a bacterial, viral, or fungal pathogen. There was no clinical, radiological, or bone marrow evidence of extracutaneous disease.

Histology of the biopsy taken from the lid ulcer margin showed epidermal necrosis associated with ulceration (fig 2). The ulcer base showed haemorrhagic granulation tissue infiltrated by a mixture of lymphocytes, plasma cells, neutrophils, and eosinophils. There were also ill defined groups of large blast cells showing enlarged and pleomorphic nuclei and high mitotic activity. The immunohistochemical staining showed these cells to be of T cell lymphoid lineage. Many of the large blast cells were CD30 positive but negative for ALK-1 protein. The features were of a CD30 positive anaplastic large cell lymphoma (ALK negative).

Treatment options such as surgery and radiotherapy were discussed with the patient but as the lesion remained stable over a 10 day period, a conservative approach was agreed. A moderately potent topical corticosteroid (mometasone furoate 0.1% cream) was applied to the lesion once daily. When followed up 8 weeks later the ulcer had completely healed without scarring (fig 3).

Eighteen months has elapsed since presentation. There has been no recurrence of his disease, and he remains in good health.

Comment

ALCL represents a group of large cell lymphomas. They consist of a proliferation of predominantly large lymphoid cells with strong expression of the cytokine receptor CD30 (>75%). Using molecular and clinical criteria, three entities have been identified: primary systemic anaplastic lymphoma kinase (ALK) + ALCL, primary systemic ALK − ALCL, and primary cutaneous ALCL.

Primary cutaneous ALCL arise de novo in the skin, commonly on the head and neck of older patients with a median age of 60 years and a male/female ratio of 3:2. Most patients present with solitary, asymptomatic nodules, which can be superficially ulcerated. Primary cutaneous ALCL has a more favourable prognosis than systemic ALCL, with an 5 year survival of approximately 90%. Partial or complete spontaneous regression can be observed in up to 25% of patients with primary cutaneous ALCL, accounting for the previous designation of “regressing atypical histiocytosis.” Treatment of localised lesions usually includes excision with or without radiation. However, patients with disseminated skin disease may benefit from systemic polychemotherapy. In our patient the lesion had resolved within 3 months of initial appearance. The application of a moderate potent topical steroid might have contributed to the regression of the ulcer.

We present a case of a primary cutaneous ALCL of the eyelid showing regression. Ophthalmologists should be aware of this sometimes self-regressing entity and an expectant policy might be indicated in non-progressing tumours, thus avoiding potentially mutilating surgery or radiotherapy.

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**Choroidal translocation with a pedicle following excision of a type 1 choroidal neovascular membrane**

Excision of type 1 choroidal neovascular membranes (CNVM) in age related macular degeneration (AMD) have a poor visual outcome because of loss of retinal pigment epithelium (RPE). Simple replacement of the RPE may not work because the relation with Bruch’s membrane and choroidal complex is disturbed. Creating a free graft of these three layers detaches the choroid from its blood supply. Hence, restoration of these three layers to the subfoveal position while maintaining a connection to the adjacent choroidal blood supply is desirable.

**Case report**

A 74 year old woman presented with a 3 month history of a left central scotoma and visual acuity (VA) of counting fingers (CF). Clinical examination and fluorescein fundus angiography (FFA) confirmed a type 1 subfoveal CNVM. The fellow eye was 20/30 with scattered soft drusen. Pars plana vitrectomy (PPV) and excision of the CNVM were performed as described previously. Atrophic choroidal vessels underlining the CNVM were not removed. A retinotomy was formed temporal to the fovea and vertical scissors inserted into the subretinal space. The RPE, Bruch’s membrane, and choroid were incised en bloc in the area temporal to the site of the CNVM to create a graft on a pedicle. The graft was manipulated to a subfoveal position. The pedicle and graft were equally sized to maximally exploit the rich choroidal vasculature and maintain continuity to the choroidal circulation. We were unable to predetermine the position of choroidal vessels as indocyanine green angiography (ICG) was unavailable to us at the time of surgery. Surprisingly, little bleeding occurred and was easily controlled by increasing the infusion height. The patient required two subsequent operations for a rhegmatogenous retinal detachment with grade B proliferative vitreoretinopathy. The retina was flattened after inferior retinectomy and silicone oil insertion.

At review 4 years following initial surgery her vision was CF with a central scotoma on Goldmann field testing. The area of translocated RPE, Bruch’s membrane, and choroid was visible beneath the fovea with bare sclera demarcating its original site (fig 1A). At 4 years following surgery there was no recurrence of the CNVM on FFA (fig 1B) and ICG angiography demonstrated that the graft and pedicle were vascularised (fig 2).

**Comment**

Excision of type 1 CNVMs has a poor prognosis because of loss of RPE and atrophy of the choroid. Restoration of the normal anatomical relation between the retinal receptors and the underlying structures is essential for visual recovery. Retinal translocation with strabismic surgery for the movement of the retina to healthy RPE is prolonged and hazardous. Transplantation of homologous RPE cells alone to a subfoveal position has met with varied success. Aylward et al reported no visual improvement after transplantation of an autologous free graft, with fibrosis of the grafts at 10 months, perhaps because of loss of blood supply. Late revascularisation of some grafts has been reported at 1 year.

There was no visual improvement in our patient as she had a retinal detachment and additional procedures. We thought that the rich and redundant blood supply of the choroid allowed some freedom in the choice of graft harvest site. As proof of principle we have demonstrated that a choroidal/RPE graft with a pedicle is a feasible surgical technique, resulting in a sustained and vascularised graft. This technique is simpler than time consuming retinal translocation and does therefore merit further investigation.

**Figure 1** Retinal images 4 years following surgery (A) Fundus photograph demonstrating the area of RPE/choroidal translocation to a subfoveal position. The dark hashed line denotes the site of incision. The white dotted line denoted the resected area of choroid (B) Fluorescein angiography of the same eye in the late arteriovenous phase shows absence of late leakage and no recurrence of the CNVM.

**Figure 2** (A) Indocyanine green angiography (27 seconds) at 4 years following surgery demonstrates good vascular flow within the RPE/choroidal graft and through the pedicle (arrow). (B) Ocular coherence tomography scan thorough patient’s macula shows clear demarcation between the highly reflective residual sclera and the less reflective signal from the transplanted choroid and RPE (arrow).

**Intravitreal triamcinolone acetonide and central serous chorioretinopathy**

Intravitreal injections of triamcinolone acetonide have increasingly been performed as treatment for intraocular diseases with intraretinal oedema and with subfoveal fluid accumulation, such as diffuse diabetic macular oedema, persistent pseudophakic cystoid macular oedema, central retinal vein occlusion, and exudative age related macular degeneration. In view of the widening spectrum of indications for intravitreal triamcinolone acetonide injections, it was the purpose of this study to evaluate whether intravitreal triamcinolone acetonide injections may be useful as treatment of longstanding central serous chorioretinopathy.

**Case report**

A 50 year old patient presented with a decrease in visual acuity to 1/20 in his right eye because of longstanding central serous chorioretinopathy. Six years earlier, visual acuity had started to deteriorate, and had remained at 1/20 for the past 2 years. Fluorescein angiograms showed a mottled appearance of the retinal pigment epithelium close to the fovea, and a leakage of dye in the late phase of the angiogram. There was

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**References**


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Figure 1 Fluorescein angiogram taken before the intravitreal injection of triamcinolone acetonide. Mottled appearance of the retinal pigment epithelium, and shallow detachment of the fovea.

Figure 2 Optical coherent tomogram taken 5 months after the intravitreal injection of triamcinolone acetonide. Note: shallow detachment of the fovea.
frequent ocular complication of SC is sub-retinal neovascularisation which affects 13% to 20% of the eyes. Retinal vasculitis is also observed.graphics

Gupta et al reported a case of SC with a branch vein occlusion in the acute phase.3 Our patient developed a vein occlusion while under treatment (steroids, aciclovir, and anti-TB therapy) which is rare and was not reported to our knowledge. Haemorrhages are sometimes observed in inflammatory diseases (Behcet's syndrome, sarcoidosis) or in infectious posterior uveitis (syphilis, viral infections, toxoplasmosis).4

This case demonstrates that SC can affect young patients and that HLA-B7 can be found in Indian patients with SC. The clinical features (vascular occlusion in this case) and the development of new lesions while under treatment let us suspect that the cause of this disease is still not clear.

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References

Persistent acanthuramoeba keratitis in a non-contact lens wearer following exposure to bird seed dust
Acanthamoeba keratitis is a serious and vision threatening disease. It is commonly associated with contact lens wear (up to 93%).1 Early diagnosis and treatment are essential to improve the visual outcome.2 Devastating ocular damage can be attributed to various factors such as misdiagnosis,3 incorrect treatment, excessive topical steroid before diagnosis,4 and resistance.5 Acanthamoeba keratitis is most often caused by Acanthamoeba spp in non-contact lens wearers. It is more prevalent in 30 year old which is not in the age range of typical cases.6 The aetiology remains unknown although there were some studies suggesting that an inflammatory reaction and abnormal T cell immunity is the cause.7 Histopathological studies have shown the presence of extensive lymphoeyte choroidal infiltrates but in eyes chronically affected,8 the distribution of the lesions and their angiographic features (fluorescein and indocyanine) may suggest a choroidal occlusion.9 Genetic studies demonstrated an increased frequency of HLA-B7 in this affection10,11 our patient was HLA-B7 positive. SC affects not only white people but also oriental and blacks. There is no sex predilection and the patients are middle aged when the diagnosis is made.10 The patient described in this report was 30 year old which is not characteristic. The aetiology remains unknown although recently tubercular serperiginous-like choriditis has been reported.6 Clinical, inflammatory signs may be noted both in segments (anterior uveitis, vitritis) along with the classic whitish choroidal lesions in the acute stage. The most
uncommon feature in our case is the demonstration of in vitro resistance of this strain of acanthamoeba to two of the modern first line acanthamoeba drugs (PHMB and chlorhexidine) while showing a good sensitivity to propamidine.

This is contrary to what has been reported by other authors.4 5 We are unable to say whether resistance developed during treatment or was pre-existent, as sensitivity profiles of the earlier isolates were not obtained. This patient’s initial good clinical response was achieved with a combination of PHMB and propamidine with the latter tapered early during the course of treatment, indicating at least partial in vivo sensitivity to PHMB in the earlier stages. A poor association between in vivo and in vitro resistance has been described for biguanides,6 but this case shows that in vitro MIC can be useful information in the management of persistent acanthamoeba keratitis.

Other authors have stressed the need for long term treatment7 and this case also underscores the importance of prolonged effective antimicrobial treatment in order to prevent recurrences.

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Brinzolamide induced reversible corneal decompensation

Topical carbonic anhydrase inhibitors (CAIs) such as brinzolamide 1% (Azopt; Alcon Laboratories, Fort Worth, TX, USA) attenuate bicarbonate efflux, and this may lead to corneal oedema.

To our knowledge, this is the first report of complete resolution of corneal oedema after cessation of topical brinzolamide 1%.

Case reports
A 57 year old African-American man with primary open angle glaucoma (POAG) presented with painless blurry vision left eye 1 hour after instilling brinzolamide 1% on both eyes. He had been on brinzolamide 1% both eyes twice daily, brimonidine tartrate 0.2% (Alphagan) in both eyes twice daily, and latanoprost 0.005% (Xalatan) in both eyes once at night for 2 years. On presentation, best corrected visual acuity (BCVA) was 20/25 right eye and 20/50 left eye. The left eye had mild corneal oedema, Descemet’s folds, and whitish fleck-like debris on the corneal endothelium (fig 1A). Intraocular pressures (IOPs) were 15 mm Hg and 16 mm Hg. The brinzolamide 1% in both eyes was discontinued. Timolol maleate 0.5% (Timoptic) in both eyes twice daily and topical prednisolone acetate 1% (Pred Forte) left eye four times daily were started. By 1 week follow up, the cornea was clear (fig 1B). Specular microscopy revealed endothelial cell counts (ECC) of 1355 cells/mm² right eye and 648 cells/mm² left eye with enlarged pleomorphic endothelial cells left eye (fig 2). Central corneal thickness (CCT) was measured as 512 μm right eye and 505 μm left eye.

A 77 year old white man, who had had cataract extraction 46 years earlier and subseuent aphakia right eye, had been followed for open angle glaucoma in both eyes for 25 years. He was on timolol maleate 0.5% in both eyes twice daily, latanoprost 0.005% in both eyes once at night, and pilocarpine hydrochloride 4% gel (Pilopine Gel HS) in both eyes once at night. His visual acuities were hand movement right eye and counting fingers at 1 foot left eye. An IOP of 19 mm Hg right eye and 10 mm Hg left eye necessitated the addition of brinzolamide 1% twice daily right eye. Both corneas were clear at that time. Fifteen months after starting brinzolamide 1%, there was moderate corneal oedema right eye. Brinzolamide 1% was discontinued. Over 3 months, the corneal oedema in the right eye gradually resolved. The patient later needed trabeculectomy with mitomycin C right eye because of medically uncontrolled IOP.

Comment
The Merck Worldwide Adverse Experience System database for dorzolamide 2% includes 25 reports of corneal oedema. Nearly all of these cases had a history of multiple ocular surgeries and compromised corneas.

Dorzolamide is a reversible inhibitor of carbonic anhydrase II and does not accumulate in the cornea with repeat dosing,8 so any corneal effect from a similar medication should indeed be potentially reversible.1 Dorzolamide’s peak concentration in rabbit corneas is also reached 1 hour after dosing, and the half life in the cornea is approximately 2 hours.3 This is consistent with case 1 having blurry vision 1 hour after instilling brinzolamide 1%.

Patients with primary open angle glaucoma or ocular hypertension and a baseline ECC of greater than 1500 cells/mm² have an average 3.6% decrease in ECC after a year of dorzolamide 2% three times daily.7 This endothelial loss is much higher than the 0.6% annual rate seen in normal subjects.3 Topical CAIs can cause corneal oedema in compromised corneas—for example, those affected by previous topical treatment.
with cornea guttata, but the oedema is reversible if identified early. Before initiating brinzolamide 1%, an ECC may be needed for high risk patients (that is, monocular, previous ocular surgery, corneal disease, etc). Because of the potentially irreversible nature of the corneal decompensation, topical CAIs may be relatively contraindicated in patients with significant corneal disease. Although dorzolamide and brinzolamide are both topical CAIs, their chemical formulas are different, and a side effect that is associated with dorzolamide may not necessarily be assumed to be associated with brinzolamide. It is important to be aware that brinzolamide can also potentially cause corneal oedema.

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An unusual cause of acquired horizontal diplopia in a young adult

Cysticercosis is caused by infection from the larval form of Taenia solium, is endemic to regions with poor sanitation. Human cysticercosis more commonly affects the central nervous system, with less common involvement of ocular tissues. Myocysticercosis is a subset of orbital cysticercosis and is considered a rare entity.

Case report

A 19 year old Nepalese housewife presented with left sided headache that had been present for 1 year. She had been treated for migraine headache in another hospital. Ocular examination revealed orthotropia in primary gaze with Snellen acuity of 6/6 bilaterally. Both the Humphrey visual fields and the colour vision testing were normal in both eyes. There was no relative afferent pupillary defects detected. Ocular motility testing revealed left abduction deficit with the resulting horizontal diplopia. Hertel’s exophthalmometer reading revealed no proptosis. Her fundi examination were both normal and there were no optic disc swelling.

Magnetic resonance image (MRI) (brain/orbit) with gadolinium contrast (fig 1) showed a cystic enhancing mass measuring 1.2 cm × 0.6 cm adjacent to and including left medial rectus muscle, sparing the muscle tendon. Further assessment with B-scan ultrasonography (fig 2) revealed an intramuscular cyst within the left medial rectus muscle located within mid-orbit.

Full blood count found no eosinophilia; systemic cysticercosis involvement was excluded by negative radiological findings (chest x ray and computed tomography (CT) of brain and abdomen were both normal).

The patient was prescribed treatment with albendazole 15 mg/kg per day for 8 days. Unfortunately, she had intolerable side effects (nausea, vomiting, and distressing nocturnal left eye pain) to the medication which she used for only 3 days. She was reluctant to continue with albendazole. Her symptoms settled after a short course of oral analgesics.

She has remained asymptomatic. Repeated Hess and diplopia charts B-scan ultrasonography re-evaluation at 6 months did not reveal any cysts in the muscle and her ocular motility had returned to normal.

Comment

The finding of “scolex” within the intramuscular cyst and her status of Nepalese native lend strongly to a diagnosis of myocysticercosis. Enzyme linked immunosorbent assay (ELISA) to detect the antibody to cysticercosis was unavailable in Singapore. A positive test may lend support to the diagnosis but a negative ELISA result does not rule out the diagnosis. Owing to the largely isolated and relatively mild infection of myocysticercosis, the sensitivity of ELISA is low. For the same reason, the absence of peripheral eosinophilia in this case is not surprising, consistent with the finding in literature.

None of the cases in a large series of orbital hydatid cysts were found within an extraocular muscle, hence making this diagnosis unlikely. The location within an extraocular muscle accounted for only 1.1% to 4.1% of the total reported cases of cysticercosis. Statistically, medial rectus is the most commonly involved extraocular muscle, although any of them can be involved. As a general rule, the restriction of extraocular movements is greatest in the direction opposite to the involved muscle, as in this case (fig 2).

Recommended duration of treatment varies from a few days to up to 6 weeks. Prolonged drug administration may not be necessary as seen in this case, in view of the drug’s potential side effects.

Among the known side effects of albendazole are gastrointestinal upsets. The nausea and vomiting in this patient settled when the medication was discontinued. On the other hand, her nocturnal left eye pain would be best explained by secondary inflammation from the release of toxins by the dying parasite. Concomitant administration of oral steroids has been suggested to reduce the secondary inflammation.

Surgical excision of an extraocular muscle cyst had been described. However the potential risk of damage to adjacent tissue and adhesion from surgical exploration should not be taken lightly, particularly when effective medical therapy is available.

Stool tests should be done for all the members of the family to detect asymptomatic carrier because the treatment with systemic anthelminthic treatment is highly effective. It also serves to break the life cycle of the parasite.

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Use of scanning laser ophthalmoscopy in visual conversion reaction

Visual conversion reaction is a psychosomatic anomaly that manifests as reduced visual acuity (VA) and visual field defects. Scanning laser ophthalmoscopy (SLO) can detect a scotoma and VA under direct fundus observation. However, there have been no reports of patients diagnosed with visual conversion reaction using SLO. We report a patient with visual conversion reaction using SLO.

Case report

A 20 year old woman presented with a sudden bilateral loss of vision. She reported being under severe stress at work. The best corrected visual acuity (BCVA) was counting fingers in both eyes. The external eye examination and pupillary responses were normal in both eyes. Conventional ophthalmoscopy, funduscopy, and fluorescein angiography were unremarkable. The visual fields were constricted to within 5° of fixation using Goldmann perimetry (fig 1A). The results of magnetic resonance imaging, computer tomography of the brain and orbits, visual evoked potentials, and electroretinography were unremarkable. A general medical examination showed no abnormalities. There were no scotomas (based on Goldmann size III stimulus on the retina), and the stability of fixation was central and stable in both eyes using SLO microperimetry in both eyes (fig 1B). The VA using SLO was 20/200 in both eyes. We followed this patient for 10 months, and she consistently demonstrated impaired VA and visual field defects. She ultimately retired from the workforce.

Ten months later, the BCVA was 20/20 in both eyes. The visual fields in both eyes using Goldmann perimetry were normal (fig 2A). There were no scotomas, and the stability of fixation was central and stable in both eyes using SLO microperimetry (fig 2B). The VA using SLO was 20/20 in both eyes. We diagnosed visual conversion reaction in this case.

Comment

This is the first report of a patient with visual conversion reaction using SLO. In this case, the BCVA was counting fingers in both eyes at the first visit. However, the VA using SLO was 20/200 both eyes and better than the conventional examination. The visual fields were constricted in both eyes to within 5° of fixation using Goldmann perimetry. However, there were no scotomas in either eye using SLO microperimetry. The distinction between the VA and visual fields between the conventional and SLO examinations was demonstrated over the 10 month follow up period. Ten months after the initial examination, the VA and visual fields were normal in both eyes by both conventional and SLO examinations. There was no distinction between them during the recovery period. Van de Velde reported that SLO results were comparable with those obtained during a conventional examination in normal subjects. The distinction between the VA and visual field between the conventional and SLO examinations may help in the diagnosis of patients with visual conversion reaction. Future clinical studies of several cases of visual conversion reaction using SLO are needed.

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The severe acute respiratory syndrome coronavirus in tears

We welcome the article by Loon et al.1 Earlier, we published our finding of the SARS coronavirus in specimens collected by the novel technique of conjunctiva upper respiratory tract irrigation (CURTI), but not in paired nose and throat swabs, very early in the course of the disease.2 In designing CURTI, we considered safety to medical personnel first, and, also, finding a method that samples all three portals of entry for upper respiratory viral pathogens—the eyes, nose, and mouth. Loon et al’s findings complement our study by showing that SARS coronavirus can indeed be found in tears.

While we agree with their conclusion that the ability to isolate the virus early in the course is important, we do not think that the eyes are important organs that propagate the virus, other than to ophthalmologists and to unwary close contacts. For instance, the eyes cannot generate infectious aerosol. Rather, we feel that the eyes are important portals of entry and have not been given sufficient attention—witness medical personnel in full personal protection gear and N95 masks but without watertight goggles, and sometimes without splashguards.

We also think that employing the services of ophthalmologists for the purpose of collecting tear specimens for the diagnosis of SARS would be difficult to achieve in most medical environments. On the other hand, our method of CURTI is entirely self help, deployable in quarantine locations, and avoids unnecessary contact between an infectious source and susceptible individuals.

The finding of SARS CoV in tears raises several additional questions:

1. How does the virus end up in the tear? Was it the result of direct inoculation at the time of infection into permissive conjunctival epithelial cells, either by hand or aerosol, or was it the result of secretion from a lacrimal gland infected haematogenously? The lacrimal glands are not very different anatomically from the salivary glands. Yet saliva has been shown to be a poor specimen for the laboratory diagnosis of SARS.3

2. Was there any evidence of conjunctivitis, lacrimitis, or evidence of infection of the globe or nasolacrimal sac?

3. Is there any means or advantage in sampling the nasolacrimal sac, to which the tear drains, and could the nasolacrimal duct system be itself a hiding place for the SARS coronavirus during the incubation period?

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Comments on using fibrin glue in pterygium surgery

I read with great interest the article by Koranyi and coworkers, who evaluated a new technique for pterygium surgery using a fibrin tissue adhesive (Tissel Duo Quick).4 In their randomised trial the authors concluded that using the glue instead of sutures caused less postoperative pain and shortened the surgical time. Nevertheless, the timing of the randomisation is not clearly stated in their report.

Whether or not the surgeon knew the patient’s group (sutures or fibrin glue) at the time of pterygium removal and conjunctival graft harvesting may have influenced the extent of the removal and the size of the graft. Therefore, the differences in postoperative pain and/or recurrence could be related to these initial factors rather than the final step, as the authors suggest. Ideally, the surgeon should be informed if the conjunctival graft should be sutured or glued after harvesting it.

Additionally, in their discussion the authors did not mention the risk of infection when using fibrin glue. Some viruses, such as parvovirus B19 (HPV B19) are particularly difficult to remove or inactive, and human infection has been reported after the use of fibrin glue.5 In thoracic surgery, epidemiological evidence suggests that more than 20% of uninfected people were subsequently infected with HPV B19 by use of fibrin during the procedure.6 Prions are also of concern. The direct application of any of the apparently effective methods of prion decontamination to plasma products is inappropriate because they are harsh and denaturing.7 Although the risks for both diseases are minimal, the authors should have addressed this issue in their discussion.

Authors’ response

We thank Dr Alvarenga for his comment on our article about using fibrin glue for pterygium surgery.

We write in the “Material and methods” section that only the thickened and keratinised portion of the conjunctiva was excised and the graft was prepared to have the same size as the nasal conjunctiva defect, regardless of which group the patient was randomised to. Thus, the knowledge of the surgery method did not influence the results or conclusions of the study. It is also impossible to randomise the patients without the surgeon’s knowledge, because the grafts were handled somewhat differently in the different methods described.

The fibrin adhesives in the references mentioned by Alvarenga are clearly not Tissel Duo Quick (Baxter). In the article by Hino et al, the specific trade name of the fibrin sealant is not given, but the text states that the sealant in question is treated by dry heat to inactivate viruses—Tisseel is vapour heated, so it cannot be Tissel. In the article by Kawamura et al the product is Beriplast (Aventis Behring). Nevertheless, we will pay attention to this matter in the future. We have not been able to find any report of HPV B19 infection when fibrin glue was used in minor surgery. To date we have used the fibrin glue in more than 700 eye procedures since 1999. Any clinical infection with HPV B19 has not yet been detected in our patients.

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Korean kindergarten vision screen programme

Lim et al report a large scale effort to mix home plus health centre acuity screening in preschool children.1 We are very encouraged by the work of Lim et al, particularly concerning the frequency of ocular symptoms in the Korean preschooler, the number of children who were not dismissed from specified follow up (presumed amblyopia risk), and the inclusion of a simple, home administered test which over 97% of children were able to pass. It is of high merit that parents were carefully instructed to place tissue and tape over the non-tested eye,
though this does not preclude peeking if the parent is not paying particular attention. Positive answers to the parental questionnaire were not very specific for eye disease and therefore could greatly increase societal cost if used as a screening method. We have a few points of clarification for these authors: How was the home acuity test initially validated? Is it clear how many children who passed their home exam have gold standard confirmatory exams from which false negative and true negative rates could be estimated? The positive predictive value estimates utilise gold standard exam criteria that need further definition and/or standardisation. (1) It is not clear whether amblyopia was diagnosed at multiple eye clinics and by general or paediatric ophthalmologists, it is not clear what criteria are used to define amblyopia, and the criteria to be included as a “significant” cycloplegic refractive error vastly overestimates risk factors compared to a recently published attempt to standardise reporting of vision screening research. (2) We urge the authors to perform additional calculations on the breakdown of gold standard exam “significant” refractive errors and better define how amblyopia was diagnosed.

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IVF and retinoblastoma

I read with great interest the letter published in the BJ O by Lee et al.1 It reports on the first child born after in vitro fertilisation (IVF) and harbouring a unilateral retinoblastoma in the United States.

However, it should be noted that this reported child is the eighth documented child (not the sixth as mentioned by the authors). The first child ever observed was reported by our group in 2001.1 He had a unilateral disease.4 In 2002, a second child with bilateral disease was documented in the Netherlands.3 In 2003, five additional cases were reported from the Netherlands (two with bilateral disease and three with unilateral disease). In this paper, an estimated relative risk of 4.9 to 7.2 for an IVF born child in the Netherlands to develop retinoblastoma was surmised.5

The issue of the possible association of assisted reproductive techniques (ART) with an increased risk of retinoblastoma has raised great concern worldwide. The interest of this association is highlighted by the fact that the expression of retinoblastoma in childhood is influenced by epigenetics—a regulatory mechanism not involving DNA sequence which could be affected by the various ART techniques.

In recent years, tens of thousands of children were born after ART. However, not one single case of retinoblastoma was observed until 2001. The possible reasons for this phenomenon were discussed.7 Awareness regarding the occurrence of retinoblastoma in ART born children sparked by our original observation of the first case in 2001 has probably been a trigger for the unveiling of additional cases. Therefore, more cases are to be expected in the near future.

Whether the increased number of observed cases indicates that ART born babies have a higher risk of developing retinoblastoma remains to be carefully investigated. None the less, a thorough prospective assessment of the possible association between ART and retinoblastoma is mandatory. Ongoing multicentre and multinational control studies will hopefully provide the needed answers to this “thorny” but most crucial aspect of ART. Till then, accurate accounting of previous observations is, of course, a key factor for a better insight into these issues.

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References

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For further information please contact: Journal of Community Eye Health, International Resource Centre, International Centre for Eye Health, Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, Keppel Street, London WC1E 7HT, UK (tel: +44 (0)20 7612 7964; email: Anita.Shah@lshtm.ac.uk; online edition: www.jech.co.uk). Annual subscription (4 issues) UK£28/US$45.

British Oculoplastic Surgery Society

Call for papers for the 5th annual meeting of the BOPSS to be held on 15 and 16 May 2005 at The Belfry, Birmingham. The abstract submission deadline is 4 February 2005, and abstracts can be submitted online at www.bopss.org.

EVER 2005 meeting

This will take place on 5–8 October 2005 in Vilamoura, Portugal. Further details: Christy Lacroix, EVER Secretary, Kapucijnenvoer 33, B-3000 Leuven, Belgium (tel: +32 (0)16 233 849; fax: +32 (0)16 234 097; email: ever@skynet.be).

NOTICES

Corrections

In the paper titled Prospective case control study on genetic association of apolipoprotein C2 with intraocular pressure (Br J Ophthalmol 2004;88:581-2), the authors have been listed incorrectly. The correct listing is A J Binnewijzend, S Bleich, U Reubelbach, K Henkel, N Wakili, G Beck, B Rauteinstrauss, C Mardin, G O H Naumann, A Reis, J Kornhuber. The journal apologises for this error.

doi: 10.1136/bjo.2004.020305corr1

In the letter titled Bilateral decompression retinopathy after orbital decompression surgery (Br J Ophthalmol 2004;88:1605-6), the authors have been listed incorrectly. The correct listing is G J Ben Simon, R A Goldberg, J D McCann. The journal apologises for this error.

doi: 10.1136/bjo.2004.049776corr1

References

Intravitreal triamcinolone acetonide and central serous chorioretinopathy

J B Jonas and B A Kamppeter

Br J Ophthalmol 2005 89: 386-387
doi: 10.1136/bjo.2004.054247

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