Unusual case of residual cortical lens matter in anterior chamber

Modern cataract surgery does not allow for any residual cortical matter in the anterior or posterior chamber, not even in the capsular bag. But for a beginner, a residual cortex in the eye is preferable to a ruptured posterior capsule and its associated complications. Therefore, the surgeon can stop and allow a minor complication (retained cortical material) to prevent posterior capsular rupture.

Case report

A 52 year old female patient was operated for posterior subcapsular cataract in her right eye. Her left eye had previously gone into phthisis bulbii 5 years earlier; she underwent a 360° buckling with vitreoretinal surgery in her left eye for traumatic total retinal detachment 6 years earlier.

The surgery was performed by a resident eye surgeon who was in the learning stage of phacoemulsification. During cortical aspiration, the matter at the 12 o’clock position was proving difficult to handle for the surgeon. The surgeon therefore thought, in the best interest of the patient, that the amount of sub-incisional cortical matter (approximately 2 clock hours, extending up to the capsulorhexis margin towards the centre) would absorb itself. He did not take any risks of further manipulations and getting a posterior capsular tear.

The surgeon increased the size of the corneal incision and implanted the all-Polymethylmethacrylate (single-piece, Biconvex, Mod C Step Vault, from Al Optics Ltd, India) intraocular lens. (The patient could not afford any other lens and the above lens is available free of cost for deserving patients in our centre.) The wound was closed with 10/0 monofilament Nylon sutures.

The first postoperative day did not reveal any unusual inflammation. The eye was quiet on third postoperative day (first follow up). At second follow up (10th postoperative day), the operated eye revealed a white, fluffy mass (Fig 1) in the anterior chamber. This cotton-wool ball-like mass was diagnosed to be retained sub-incisional cortical lens matter based on normal anterior segment and fundus findings. The IOP was 28 mm Hg in her right eye. Because of the raised IOP and the one eyed status of the patient, immediate removal of cortical lens matter was planned.

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The side port was used to aspirate cortical matter with topical 0.5% oxybuprocaine (proparacaine) eye drops, using a 23 gauge canula. Postoperatively there was normalisation (off oral medications) of raised IOP within 48 hours. All sutures were removed after 6 weeks (Fig 2). The final best corrected visual acuity was 6/6.

Comment

The case is reported to highlight the importance of complete removal of cortical matter. The reason for difficulty in aspirating sub-incisional cortex in our case was from partially decentralised capsulorhexis and concomitant oedema at the incision site. Other reasons that can hamper the removal of such cortex could be positive vitreous pressure, long tunnel, fluid leakage due to divarication of incision lips, small capsulorhexis, probable miosis and corneal folds. The raised IOP in our case could be due to obstruction of trabecular meshwork by lens debris and inflammatory components in the form of fatty macrophages and lens particles and reduction of outflow facility of the anterior chamber angle. Lens debris was seen as a fluffy pseudohypopyon layer in the inferior anterior chamber; this can cause a mistaken diagnosis of postoperative endophthalmitis if associated with anterior uveitis.

The full visual recovery seen in our case could be attributed to immediate surgical intervention. The lens cortex retained in the eye after cataract extractions usually undergoes lyases by aqueous but may persist. The techniques that can be used to aspirate such sub-incisional cortex could be widening of the incision, mobilisation of the mass with 10l, verticalisation of irrigation/aspiration tip, using 180° bent canula by Binkhorst, bent and angled coaxial canulas, and bimanual (one for irrigation and one for aspiration) technique.

G Prakash, A Kumar, A Purohit, A Kumar

Dr Rajendra Prasad Centre for Ophthalmic Sciences, All India Institute of Medical Sciences, Ansari Nagar, New Delhi – 110029, India

PostScript

LETTERS

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G Prakash, A Kumar, A Purohit, A Kumar

Dr Rajendra Prasad Centre for Ophthalmic Sciences, All India Institute of Medical Sciences, Ansari Nagar, New Delhi – 110029, India

Posterior segment complications of graft versus host disease after bone marrow transplantation

The efficacy of bone marrow transplantation (BMT) for the treatment of selected diseases of the haemoepoietic system such as chronic myeloid leukaemia (CML) is well recognised. Graft versus host disease (GVHD) is however a common and potentially life threatening complication of this treatment, occurring in up to 75% of cases. It is thought to arise when immunocompetent donor T lymphocytes mount an immune response against host tissues. GVHD is characterised by a triad of enteritis, dermatitis, and hepatitis, but almost all organs may be targeted. Ocular involvement is frequently seen but is usually limited to the anterior segment. Posterior segment manifestations are rare.

This report describes two cases of GVHD with unusual posterior segment involvement that highlight the diversity of presentations in this condition.

Case 1

A 45 year old white male presented with progressive bilateral blurred vision and floaters 10 months post-BMT for CML. He had no history of ocular disease. His symptoms started 10 days after discontinuation of cyclosporin A as a routine protocol and were accompanied by alopecia, poliosis, vitiligo, and oral mucositis. A presumptive diagnosis of acute GVHD was made and cyclosporin was restarted together with prednisolone. His other medications were azathioprine, aciclovir, fluconazole, and ranitidine.

Best corrected visual acuity was 6/9 bilaterally, with no afferent pupillary defect. There was no evidence of inflammation in anterior segments or vitreous and normal intraocular pressures. There was mild disc pallor with swelling and surrounding radial perivascular lesions on the left. Systemic examination revealed widespread patchy alopecia with poliosis, vitiligo of the arms, and mild oral mucositis. Fluorescein angiography showed mild dilatation of the disc capillaries and extensive foveal leakage from the retinal pigment epithelium, but no evidence of cystoid macular oedema.
sonography showed a thickened posterior sclera. Optical coherence topography (OCT) showed subretinal fluid bilaterally. Cerebral magnetic resonance imaging (MRI) and lumbar puncture revealed no abnormalities. The clinical appearances were consistent with posterior scleritis together with a diffuse retinal pigment epitheliopathy. A reducing regimen of high dose steroids in combination with acetazolamide resulted in clinical improvement and visual stabilisation.

Case 2
A 31 year old white female underwent total body irradiation and BMT for αβ-T cell splenic lymphoma. One month later she developed acute GVHD related erosive enteropathy resulting in life threatening exsanguination. Following successful resuscitation (which precipitated admission to intensive care for 6 weeks), she noted blurred left eye vision and described difficulty in dark adaptation and differentiating between shades of grey; there was right strabismic ambyopia. The patient’s medication comprised aciclovir, cyclosporin, penicillin, propranolol, and lansoprazole.

Visual acuity was 6/18 and N14 with the right eye, and 6/12 and N5 with the left. Colour vision was normal and visual fields were full. There was no afferent pupillary defect. The anterior chambers and vitreous were quiet. The optic discs were normal. At both maculas (Fig 1), there were deep subretinal cream coloured spots and retinal thickening and OCT evidence of subretinal fluid without cystoid changes. Fluorescein angiography showed a few hyperfluorescent spots consistent with focal retinal pigment epithelium dysfunction. Electrodiagnostic tests identified diffuse rod dysfunction.

Since there was biochemical evidence of renal impairment, acetazolamide was considered to be contraindicated to treat the subretinal fluid. By 4 months, the best corrected visual acuities were 6/12 right; 6/6+2 left. Repeat electrophysiology was unchanged, however by ten months the full field electroretinograms had improved to normal limits.

Comment
GVHD is presumed to be caused by donor T lymphocytes recognising minor histocompatibility antigens on recipient tissues that are then subjected to CD8-T lymphocyte mediated attack. Commonly reported ocular manifestations include pseudomembranous conjunctivitis, keratoconjunctivitis sicca, corneal epitheliopathy, and cataract. Posterior segment involvement is rare and includes cotton wool spots as well as central serous chorioretinopathy.

In both of our cases, there seems to be a striking temporal association between the onset of visual symptoms and an adverse event in the course of the disease. In case 1, in whom the cessation of cyclosporin resulted in acute GVHD, the ocular findings were consistent with scleritis, a feature only once previously reported. Postmortem studies have demonstrated choroidal inffiltres in GVHD patients containing histiocyte-like large eosinophils and clinically these may be represented by the pale perifoveal lesions observed in the left eye. Subsequently this patient was shown to be HLA-DR4 positive, a finding common in individuals with Harada’s disease and frequently associated with chronic GVHD.

By contrast, the ocular findings in the second case were not a result of acute but a consequence of previous life threatening GVHD during which exsanguination occurred. While interruption of blood flow to the optic nerve or visual cortex can account for visual loss following extreme haemorrhage, retinal ischaemia has also been documented. The rod photoreceptor system appears most vulnerable, a feature consist-
tent with the electrophysiological findings in this case, and the patient’s difficulty with dark adaptation is in keeping with rod dysfunction. Of interest was the subsequent improvement in acuity and electrophysiological responses. Such a pattern parallels electrophysiological studies of children after respiratory or circulatory arrest where initially subnormal ERG responses return to normal levels within 8 months. The mechanism that mediates this recovery is not known.

Graft versus host disease is a common complication of bone marrow transplantation that usually presents to the ophthalmologist with anterior segment signs. However, GVHD may also present with posterior segment presentations of the types described here.

N G Strouthidis, P J Francis, M R Stanford, E M Graham
The Medical Eye Unit, 9th Floor, North Wing, St Thomas’s Hospital, Lambeth Palace Road, London SE1 7EH, UK

N G Strouthidis, P J Francis, G E Holder, A C Bird
Moorfields Eye Hospital, 162 City Road, London EC1V 2PD, UK

Correspondence to: Dr E M Graham, The Medical Eye Unit, 9th Floor, North Wing, St Thomas’s Hospital, Lambeth Palace Road, London SE1 7EH, UK; nicholas.strouthidis@btinternet.com

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References

Anterior pathway vision loss due to subdural haematoma
Patients with vision loss associated with subdural haematomas typically present with homonymous hemianopias secondary to compression of the posterior cerebral artery during trans-tentorial herniation. In these cases, necropsy studies have demonstrated pregeniculate involvement in addition to occipital lobe lesions. We present a case illustrating a rarely reported phenomenon of anterior pathway vision loss associated with a subdural haematoma without any evidence of optic disc swelling, occipital lobe disease, or radiographic signs of chiasmal or optic nerve compression.

Case report
A 51 year old man, who had previously undergone two craniotomies (October 1992 and November 2000) for resection of an epidermoid tumour at the cerebellopontine angle, developed hydrocephalus and had a

Anterior pathway vision loss due to subdural haematoma

Figure 1 Fundus photograph with right (A) and left (B) optic nerves without oedema or pallor on initial presentation. Humphrey visual fields (C) on presentation and (D) 6 months following craniotomy with decompression of the subdural haematoma.
Magnetic resonance imaging (MRI) of the brain showed that the right subdural haematoma was still present but was decreased in size to 2.1 cm on coronal section (Fig 2A) compared to the study performed 1 month earlier. No intraorbital abnormalities were present, and the optic nerves and chiasm appeared free of direct compression by the haematoma. The blood did not appear to surround the optic nerves (Fig 2B). The patient’s haematocrit and blood pressure remained within normal limits during the initial presentation and subsequent treatment. The patient underwent craniotomy with further drainage of the subdural haematoma. After 6 months, the patient’s vision in the left eye improved to 20/200. Follow up perimetry showed less constriction on the right and improved performance on the left (Fig 1D). Funduscopic examination revealed mild optic nerve pallor in the left eye and a normal appearing right optic nerve.

Comment
This case represents a rare example of anterior pathway vision loss due to subdural haematoma. Most cases of vision loss with subdural haematoma affect the posterior visual pathway, with mechanisms including occipital infarct and compression of the posterior cerebral artery during tran-tentorial herniation. Posterior lesions may present with anterior signs—for example, optic atrophy was seen in three patients with occipital infarcts, two of whom initially presented with severe disc oedema. Necropsy studies have shown that trans-tentorial herniation can result in damage at the level of the optic tract, chiasm, or optic nerves.

The anterior visual pathway can be compromised directly by gyri herniation into the suprasellar cistern, a mechanism associated with meningiomas. Prechiasmal vision loss due to intracranial optic nerve infarction has also been reported in the setting of subdural haematoma; in this case the mechanism was presumably due to direct compression of the nerve against basal skull structures, although this specific radiographic finding was not described.

The precise mechanism of anterior pathway vision loss due to subdural haematoma in our patient, as well as in the few previous reports, remains poorly understood. MRI showed no signs of blood in the orbits, direct compression of the optic nerves or chiasm, or gyri herniation into the suprasellar cistern. The occipital lobes also appeared normal. Right to left midline shift due to the right sided haematoma was present, probably leading to vascular compromise or nerve compression that could not be visualised on MRI. Visual improvement following chiasmal decompression of mass lesions has been reported, and this mechanism may explain our patient’s improved visual acuity and peripheral fields following the drainage of the haematoma. Surprisingly, the subdural haematoma in our patient was smaller at the time of onset of visual symptoms than it had been 1 month earlier.

Subdural haematomas can affect vision through compression or vascular compromise at many points along the visual pathway. This case illustrates that optic neuropathy can occur late in the setting of a subdural haematoma, after the volume of the haemato ma has begun to decrease because of the many ways in which patients with subdural haematomas can lose vision, they require close follow up, and a sudden change in vision necessitates immediate radiological testing, ophthalmological examination and, probably, urgent surgical intervention and drainage.

Surodex in paediatric cataract surgery
Paediatric cataract surgery is associated with a high incidence of postoperative inflammation. Intensive topical steroid therapy is still relied upon as the conventional mode of prevention and treatment. Frequently, adjuvant systemic and/or periocular steroids may be required for further control, particularly if the child has a history of, or is at risk of, uveitis (for example, microphthalmos). Non-compliance and missed application of steroid drops into the eye impedes control of the postoperative uveitis.

The Oculex Drug Delivery System (DDS; Oculex Pharmaceuticals, Inc, Sunnyvale, CA, USA) is a biodegradable device that allows sustained drug release after insertion into the anterior chamber (AC). Surodex is a DDS with 60 μg of dexamethasone incorporated into the polymer matrix (poly(lactic-glycolic)-acid, PLGA) with sustained and controlled release of dexamethasone over 7 days, achieving higher intraocular drug levels than with conventional dexamethasone eye drops. Randomised controlled trials found Surodex to be as effective as 0.1% dexamethasone eye drops in reducing intraocular inflammation following cataract surgery in Singapore.

We reviewed retrospectively all paediatric patients who underwent cataract surgery with the insertion of one pellet of Surodex into the AC at the conclusion of surgery. Eighteen eyes of 13 patients (nine males and four females) were diagnosed with cataracts at a mean age of 57.4 months (range 1 day to 136 months). The mean age at surgery was 66.3 months (range 1 week to 139 months) and follow up period ranged from 6–18 months (mean 7.8 months). Factors predisposing to cataracts included hereditary cataracts (two), microphthalmos (three),

Figure 2 Magnetic resonance imaging (T1 weighted coronal) of (A) right subdural haematoma with significant right to left midline shift but without direct compression of the prechiasmal optic nerves and (B) without compression of the intraorbital optic nerves.
severe atopic dermatitis (one) and traumatic cataract (one). The types of cataract included total/mature (seven), nuclear (two), lamellar (three), subcapsular (two), posterior lenticular (two), and posterior polar (two).

All eyes underwent lens aspiration through a clear corneal incision. A foldable intraocular lens (IOL) (Acrysof lens MA60BM, 10 and MA30BM, 1) (pseudophakic group) (Table 1). This group was older (mean age 84.8 months) than the aphakic group (mean age 14.3 months). Only seven eyes (63.6%) of the pseudophakic group underwent posterior CCC/capsulotomy and anterior vitrectomy, compared to all eyes in the aphakic group. Complications were encountered in four eyes in the pseudophakic group (36.4%)—malposition of IOL, vitreous strand in AC, posterior synechiae and raised intraocular pressure.

Four eyes (two in the pseudophakic and two in the aphakic group) did not receive additional postoperative topical steroids (prednisolone acetate 1%). This decision was made for patients 4 and 12 as there was minimal manipulation and iris trauma intraoperatively. These children were older (ages 131 and 115 months at surgery) allowing for easier follow up examination. Patient 15 had developmental delay and was difficult to manage. All four eyes were assessed to be quiet by slit lamp examination 2–4 weeks postoperatively. Additional steroids were not indicated and there was no glaucoma or endophthalmitis.

One eye (patient 17) required adjunct pericocular dexamethasone (1 mg) for fibrinous inflammation in the first week. The left eye of patient 6, which had been quiescent and without treatment for 2 months, developed raised IOP (30 mm Hg) at 3 months after surgery. This was controlled with topical betaxolol. There was no glaucomatous cupping and visual fields could not be performed in an 11-month age of the child.

Patient 13 had severe atopic dermatitis requiring systemic prednisolone. When visually significant cataract developed in the left eye, preoperative prednisolone was increased prophylactically and a pellet of Surodex was inserted at the end of surgery. As there was minimal inflammation, the systemic steroid was tapered over 2 weeks and the steroid eye drops were stopped after 3 weeks. This eye achieved a final visual acuity of 20/20.

**Comment**

Fibrinous anterior uveitis is common after paediatric cataract surgery, occurring in varying severities in up to 10% of cases.21

In our series, only two eyes (11.1%) developed inflammation that required additional steroid therapy. The remaining 16 eyes achieved good control of inflammation, particularly the two eyes that received Surodex without postoperative topical steroids. None experienced rebound uveitis after 1 week, when the pellet had ceased its release of dexamethasone. This suggests that in selected eyes, a Surodex pellet alone may be adequate to control postoperative inflammation. A randomised controlled trial comparing Surodex versus conventional steroid eye drop therapy will be needed to determine the ultimate efficacy of Surodex in paediatric eyes.

The efficacy of eye drops is dependent on compliance and timely application for drug penetration and absorption. In infants and young children, the systemic absorption of the steroid may have potentially serious complications such as hyperglycaemia and immunosuppression. Surodex significantly reduces the total dose delivered, as the 60 µg of dexamethasone in one pellet is approximately equivalent to that in just one drop of 0.1% dexamethasone.22 A system such as the DDS allows for direct application of the drug to the target site, potentially eliminating the problems of compliance.

The single complication encountered, which may be related to Surodex insertion, is the late onset of raised IOP (patient 6) despite the lack of marked postoperative inflammation. The fellow eye had also undergone cataract surgery with insertion of Surodex without complications. Steroid responsive glaucoma is an unlikely cause as the drug has been shown to persist for only 7 days in rabbits, although this has not been demonstrated in human eyes.23 Gonioscopy may reveal focal peripheral anterior synechiae (PAS) at the site of residual pellet, but it is unlikely that this focal minor degree of synechiae may cause angle closure glaucoma, although the pellet may persist for weeks in the angles.24 Unfortunately, gonioscopy was not performed in this eye. Glaucoma after paediatric cataract surgery is, however, a complication that increases in frequency with longer durations of follow up (3–22%).25 26 27 28

We acknowledge that there are several limitations to these findings. Firstly, being a retrospective review, the efficacy of Surodex in preventing postoperative glaucoma complications, an indicator of postoperative inflammation, could not be assessed. We are also unable to establish if Surodex alone is sufficient for postoperative control of inflammation, this would require a prospective randomised clinical controlled trial. The efficacy of control of postoperative inflammation and safety are incomplete without the assessment of flare and endothelial cell counts but these are difficult in children, although endothelial cell count studies in adult eyes have shown no significant change.29 30 Finally, gonioscopy to visualise the angles to look for PAS was also not done.

Surodex has previously been shown to be safe and effective in uncomplicated cataract surgery in adults. This retrospective review provides preliminary data to suggest that Surodex may be an effective and safe adjunctive anti-inflammatory agent that in some paediatric eyes may eliminate the need for other steroid administration. Further studies will be required to determine the ultimate safety of Surodex in paediatric eyes.

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Pseudophakic and aphakic groups</th>
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<tr>
<td><strong>Pseudophakic group</strong></td>
<td><strong>Aphakic group</strong></td>
</tr>
<tr>
<td>No of eyes</td>
<td>11 (61.1%)</td>
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<tr>
<td>Mean age at surgery</td>
<td>14.3 months</td>
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<tr>
<td>No of eyes with posterior capsular opening and anterior vitrectomy</td>
<td>7 (63.6%)</td>
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<tr>
<td>No of eyes with intact posterior capsule</td>
<td>4 (36.4%)</td>
</tr>
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<td>Complications</td>
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<tr>
<td>Intraoperative complications</td>
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</tr>
<tr>
<td>Postoperative complications</td>
<td>0</td>
</tr>
<tr>
<td>1. Malposition of PCIOL</td>
<td>1</td>
</tr>
<tr>
<td>2. Vitreous strand in anterior chamber with peaked pupil</td>
<td>1</td>
</tr>
<tr>
<td>3. Posterior synechiae</td>
<td>1</td>
</tr>
<tr>
<td>4. Fibrinous inflammation</td>
<td>1</td>
</tr>
<tr>
<td>5. Raised intraocular pressure</td>
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</table>

References

Pars plana ciliary epithelial proliferation in 13q deletion syndrome

The 13q deletion syndrome is an uncommon chromosomal disorder affecting the long arm of chromosome 13 which is deleted to a variable degree. This syndrome is phenotypically characterised by mental retardation, structural malformations, facial dysmorphism, and a predisposition to develop retinoblastoma. This intraocular tumour is diagnosed in approximately 80% of cases with this syndrome. Moreover, the incidence of bilateral retinoblastoma is much higher in individuals with this syndrome. The retinoblastoma susceptibility gene (RB-1), which encodes for the nuclear phosphoprotein of 105 kDa, is located in band 13q14. The involvement of the q14 band on the long arm of chromosome 13 places patients with this syndrome at significant risk for developing retinoblastoma. In addition, children with 13q deletion syndrome also show optic nerve hypoplasia and retinal dysplasia. In this case, we report additional findings of pars plana ciliitis epithelial proliferation in 13q deletion syndrome.

Case report

A 5 month old Hispanic female infant with a karyotype 46,XX, del (13)(q14.1q21.3) was referred to us for the evaluation of retinoblastoma. She had dysmorphic features, such as craniosynostosis. There was no family history of ocular or systemic disease. While under anaesthesia, the patient’s right eye was examined, revealing a mass that occupied a large area of the inferior nasal portion of the retina, and extending into the vitreous cavity (Fig 1). It obscured the optic nerve head and was associated with retinal detachment. There were also fine vitreous seedings. Ultrasoundography disclosed a retinal detachment with intrafusal calcific foci. The preoperative diagnosis was retinoblastoma with vitreous seedings, and she underwent enucleation of the globe. The left eye was unremarkable.

Macroscopic examination revealed a greyish-white tumour arising from the retina that exhibited calcific foci and was extended into the vitreous cavity. Histological examination of the tumour indicated a well differentiated retinoblastoma that displayed both Flexner-Wintersteiner and Homer-Wright rosettes (Fig 1). There was no tumour invasion of the uvea or the posterior optic nerve. In addition, the globe was multi layered plaquelike non pigmented ciliary epithelial proliferation at the pars plana ciliitis (Fig 2) and optic nerve hypoplasia. The epithelial proliferation revealed benign histological features, unlike the malignant neoplastic proliferation of the retina. At the pars plana ciliitis, the pigment epithelium showed focal proliferation.

Comment

The extent of the deletions affecting the long arm of chromosome 13 may result in various developmental anomalies that constitute 13q syndrome. The proliferation of the pars plana ciliitis non-pigmented ciliary epithelium, as noted in the present case, and its association with retinoblastoma suggests that the RB-1 gene, or a gene close to the RB-1 locus may have a role in the proliferation of the other neuroepithelial structures of the eye, including the pars plana ciliitis epithelium.

In embryological terms, the non pigmented ciliary epithelium is derived from the inner layer of the optic cup which also gives rise to the neural retina. Proliferation of the pars plana ciliitis epithelium in an eye that harbours retinoblastoma suggests that the RB-1 gene may play a part in such epithelial proliferation. However, this epithelial proliferation has not been previously reported in eyes with retinoblastoma. Although the cause of proliferation of the ciliary epithelium is not clear, this case suggests that the non pigmented ciliary epithelial proliferation at the pars plana ciliitis in an eye that harbours retinoblastoma may be related to 13q deletion syndrome. Such findings may be unique to this syndrome, but previous reports about it have not mentioned them. The lack of previously reported cases with findings of pars plana epithelial proliferation suggests that this syndrome may have variable phenotypic expression.

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Y Usui
Department of Ophthalmology, Tokyo Medical University, Tokyo, Japan

Y Usui, N A Rao
The A Ray Irvine Ocular Pathology Laboratory, the Doheny Eye Institute, and the Department of Ophthalmology, Keck School of Medicine of the University of Southern California, Los Angeles, CA, USA

Correspondence to: Yoshikawa Usui, MD, Department of Ophthalmology, Tokyo Medical University, 6-7-1 Nishi-shinjuku, Shinjuku-ku, Tokyo 160-0023, Japan; usuyoshi@aol.com

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References


Phacoemulsification of posterior polar cataracts—a surgical challenge

Posterior polar cataracts are relatively uncommon yet they pose a significant chal-
lenge to the cataract surgeon. Cataract surgery in these cases is frequently accompanied by a high incidence of posterior capsule rupture (PCR).

**Morphology**

Posterior polar cataracts are associated with remnants of the hyaloid system or the tunica vasculosa lentis. These cataracts may also occur without any relation to hyaloid remnants and appear as circular or rosette shaped opacities; they are hereditary and usually transmitted as a dominant trait. The gene for this has been mapped to chromosome 16q22.[2]

**Classification**

See Table 1 and Figure 1.

**Methods**

The incidence of posterior polar cataracts in our centre is approximately 3 per 1000. We conducted a retrospective review from 1994 to 1999 and identified 31 patients (36 eyes) who had surgery for posterior polar cataracts.

**Results**

Four eyes had PCR (11.1%) and the other 32 had uncomplicated surgery; 34 eyes achieved a best corrected visual acuity of 6/12 or better (94.4%).

**Comment**

Our series showed a PCR rate of 11.1% in contrast with the 26% incidence reported by Osher et al.[2] and 36% by Vasavada and Singh[5]. No hydrodissection was attempted and only careful controlled hydrodelineation was performed. This was done using small aliquots of balance salt solution (BSS) to loosen the capsule while simultaneously watching the capsular bag to ensure that the fluid wave passed gently. In some cases, no hydroprocedures were necessary as there was slow separation of the nucleus by the BSS flowing from the phaco tip.

Vasavada and Singh described the use of step by step chop in situ and lateral separa-
tion to minimise stress on the capsule-zonule complex. We preferred the use of the "lambda" technique which involved sculpting in the shape of the Greek letter (λ), followed by cracking along both "arms" and removal of the central piece first. The advantage of this is its gentleness in not stretching the capsule while removing the quadrants, especially the first one. We emphasise that this is our preferred technique and other techniques would be equally effective in skilled hands.

We also used low vacuum, low aspiration, and low inflow parameters to ensure a more stable anterior chamber; bottle height was at 50 cm, vacuum at 100 mm Hg, and aspiration flow rate at 20 ml per minute. Optimum power setting was achieved when minimal movement of the nucleus occurred while sculpting.

The epinucleus and cortex were removed using manual dry aspiration with Simcoe cannula. This method is gentler as we believe that the aspiration pressure is more controllable with our "million dollar" hands. There is also no "after aspiration" effect which in the automated unit can continue for several milliseconds even after the foot has been taken off the pedal. The disadvantage of manual aspiration is the increased surgical time.

The status of the posterior capsule (PC) dictated the action of the surgeon. If the PC was absent or torn but with no vitreous loss, a dispersive viscoelastic was injected over the defect to tamponade and push the vitreous face backwards. A dispersive rather than a cohesive viscoelastic is preferable as it is more adapted to maintaining a space and stabilising the anterior vitreous face. If there was PCR with vitreous loss, a two port anterior vitrectomy was performed. Intracocular lens implantation in these cases would depend on the extent of the PCR and the integrity of the remaining PC.

Surgical management of posterior polar cataracts poses a special challenge to the cataract surgeon. It is important that the surgeon and the patient understand the technical difficulties associated and are aware of potential complications. It may be prudent to address these cases at the end of an operating list or to shorten the list in anticipation of prolonged surgical time. The surgeon should use a technique that he or she is most familiar and comfortable with. With emphasis on gentleness, together with patience and a well practised technique, the incidence of PCR can be minimised in phacoemulsification for posterior polar cataracts.

**Table 1**

Classification of posterior polar cataracts

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Opacity associated with posterior subcapsular cataract.</td>
</tr>
<tr>
<td>2</td>
<td>Opacity with ringed appearance like an onion.</td>
</tr>
<tr>
<td>3</td>
<td>Opacity with dense white spots at the edge often associated with thin or absent posterior capsule.</td>
</tr>
<tr>
<td>4</td>
<td>Combination of the above 3 types with nuclear sclerosis.</td>
</tr>
</tbody>
</table>

**Molluscum contagiosum in an immune reconstituted AIDS patient**

In spite of lower viral loads and increasing T cell counts, AIDS patients receiving highly active antiretroviral therapy (HAART) are not always successful in mounting an immune response to some opportunistic pathogens. In fact, CMV retinitis, which was known to occur in HIV patients with CD4 counts below 50 x10^3/l, has been described in immune reconstituted patients with CD4 counts above 200 x10^3/l. It is therefore important to make observations about the clinical spectrum of infectious disease in immune reconstituted AIDS patients. Here we report an isolated...
lesion of molluscum contagiosum in an immune reconstituted AIDS patient.

Case report
A 46 year old Hispanic female presented with a history of burning, tearing, and itching of her left eye for 1 month. Three years earlier she had been diagnosed with AIDS during a hospital admission for Pneumocystis carinii pneumonia (PCP). At that time her CD4 count had been $27 \times 10^3$ and her viral load $905\;000$. After 3 months of HAART with biopsy. were noted (Fig 2). The lesion did not recur bodies typical of molluscum contagiosum hyperplasia invaginating into the dermis. was excised and histopathology revealed the left lower lid margin (Fig 1). The lesion was $2\;mm$ smooth, dome-shaped, involving lower eyelid margin.

Best corrected visual acuity was $20/25$ in each eye. A $2\;mm$ smooth, dome-shaped, translucent papule with central umbilication was present inferior to the medial aspect of the left lower lid margin (Fig 1). The lesion was excised and histopathology revealed invasive acanthosis with lobules of epithelial hyperplasia invaginating into the dermis. Intranuclear and intracytoplasmic inclusion bodies typical of molluscum contagiosum were noted (Fig 2). The lesion did not recur after biopsy.

Comment
Immunocompetent patients with molluscum contagiosum involving the eyelid typically suffer from an isolated lesion that is self limited. Larger, more numerous and widespread molluscum contagiosum lesions have been documented in patients with AIDS, individuals immunosuppressed from using prednisone and methotrexate, or patients with lymphoreticular malignant neoplasms or sarcoidosis.” In HIV infected individuals the disease runs a more protracted course with persistent lesions and there appears to be an inverse relation of the CD4 count and the number of molluscum contagiosum lesions.

The present case shows that the patient’s reconstituted immune system from HAART can limit molluscum contagiosum infection to a single lesion at the eyelid, clinically and histologically identical to molluscum contagiosum lesions found in immunocompetent hosts. Such limited expression of molluscum contagiosum could be from a competent T cell response as noted in individuals with normal immune function or those with reconstituted immune response from HAART. Thus, clinically the presence of a solitary molluscum contagiosum lesion in an HIV infected individual suggests appropriate response to HAART.

References
8 Malignant melanoma of the conjunctiva metastasising to the parotid gland
Conjunctival melanoma is rare, accounting for just 2% of ocular malignancies. Present an unusual case of conjunctival melanoma with subsequent metastasis to the parotid gland. A diagnosis was made after fine needle aspiration cytology of the parotid gland was performed in light of the previous history.

Figure 1 Note solitary umbilicated lesion involving lower eyelid margin.

Figure 2 Histologically, the molluscum contagiosum shows intracellular eosinophilic inclusion bodies (haematoxylin and eosin $\times 120$).

Figure 1 Pedunculated lesion arising from the nasal limbal conjunctiva, right eye.

Case report
A 79 year old white man presented to the eye clinic in September 1999. He had been noted 3 years previously to have a small inclusion cyst of the bulbar conjunctiva in his right eye, which he complained had increased in size and was becoming red and sore. Examination showed an inflamed pedunculated lesion $1\;cm$ in diameter arising from the nasal limbal conjunctiva (Fig 1). The lesion was granulomatous and amelanotic. There was adjacent corneal opacity. Ocular examination was otherwise unremarkable.

The appearance of the lesion was felt to be unusual with a presumptive diagnosis of conjunctival malignancy. Excision biopsy with conjunctival autografting was performed.

Histology revealed a primary nodular malignant melanoma, at least $7\;mm$ thick, composed of epithelioid sparsely pigmented melanocytes positive for $S100$ and vimentin immunostains. Excision was deemed incomplete.

The patient was referred for adjuvant treatment with cryotherapy. To date, there has been no sign of local recurrence.

In June 2001, the patient was referred by his general practitioner to the oral surgery service at the same hospital with a 6 month history of pain on the right side of his neck. He had also noticed some right facial swelling. Clinical examination disclosed a diffuse, firm mass over the lower pole of his right parotid gland, measuring $4\;cm$ in diameter. There were no overlying skin changes.

Magnetic resonance imaging (MRI) of the head and neck showed a well defined lesion within the right parotid gland involving the deep lobe and the deeper portion of the

Figure 2 FNA cytology of the parotid swelling. Highly pleomorphic malignant epithelioid melanocytes with scattered lymphocytes in the background. Scale bar $=25\;mm$. 
superficial lobe. A few small lymph nodes were visible at several sites bilaterally but none appeared enlarged. Computed tomography (CT) of the chest, abdomen and pelvis revealed single nodules measuring 3–5 mm at both lung bases, which may represent lung metastases.

An orthopantomogram was normal, and fine needle aspiration (FNA) cytology was performed. This showed scattered lymphocytes and highly pleomorphic non-lymphoid malignant cells, some containing flecks of pigment (Fig 2). While these appearances alone would not allow definitive diagnosis of melanoma, in the clinical context they were sufficient to conclude that the parotid swelling was likely to be metastatic melanoma. This was confirmed on subsequent parotid excision biopsy, which revealed extensive involvement of the parotid nodes and parotid parenchyma, extending into the external jugular vein.

Comment
Malignant melanoma is a relatively rare tumour in the parotid gland, with most tumours representing metastasis from cutaneous head and neck primaries. Very occasionally, as in this case, the primary tumour is non-cutaneous in origin.

Conjunctival melanoma metastasising to the parotid has been noted in previous series, but remains rare. This case is unusual with respect to the initial size and appearance of the tumour, the previous history of a conjunctival cyst, and that definitive diagnosis of a metastatic lesion from a conjunctival primary was made by FNA. This method has been helpful in the diagnosis of other types of tumour in the parotid, and indeed in parotid melanomas of different origin. In this case, the patient’s previous ophthalmic history had been unknown to the maxillofacial surgeon managing the case, and the diagnosis only became clear during reporting of the cytology, when the FNA findings could be compared with previous histology. This illustrates the importance of exhaustive history taking and the value of a cohesive local histopathology service.

F Cuthbertson
Department of Ophthalmology, St James’s University Hospital, Beckett Street, Leeds LS9 7TF, UK

J Luck, S Rose
Royal United Hospital, Combe Park, Bath BA1 3NG, UK

Correspondence to: Dr Fiona Cuthbertson, Department of Ophthalmology, St James’s University Hospital, Beckett Street, Leeds LS9 7TF, UK, fcuthbertson@hotmail.com

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References

Bilateral Aspergillus endophthalmitis in a patient with chronic lymphocytic leukaemia

Aspergillus species are ubiquitous saprophytic moulds, commonly growing in soil, stored hay, and decaying vegetation. Even though exposure to Aspergillus is universal, infection in humans is uncommon. Aspergillus infection of ophthalmic interest usually causes keratitis or orbital cellulitis. Aspergillus endophthalmitis is a relatively rare condition that has a devastating course, with blindness as its usual outcome. The clinical diagnosis is difficult and the treatment is disappointing. In most cases, ocular involvement results from spread of aspergillosis infection from others organs and typically occurs in injecting drug users and in patients with immune deficiency of various causes. The leucopenia appears to be a predisposing condition for the occurrence of aspergillosis. We report an unusual case of bilateral endogenous Aspergillus endophthalmitis in a patient with chronic lymphocytic leukaemia in the absence of any detectable focus of aspergillosis infection elsewhere in the body that showed a good response to specific systemic therapy.

Case report
A 51 year old white man with a previous diagnosis of chronic lymphocytic leukaemia and use of an immunosuppressive agent was referred to ophthalmological examination because of a red eye, pain, and blurred vision in his right eye. The clinical picture worsened and diagnosis of endophthalmitis was made. Intravenous amphotericin B injection was performed and did not control the case. Culture of vitreous fluid was positive for Candida. This eye was eviscerated because of increasing pain, progressive infection, and poor response to treatment. Posterior histopathological study was conclusive for Aspergillus endophthalmitis in the right eye (Fig 1B and 2). At the same time, fundus examination of the left eye showed two subretinal exudative lesion located at nasal and inferior retina with retinal oedema associated with superficial haemorrhages (Fig 1A). The vitreous was clean and the central macula remained intact. Visual acuity was 6/6 in this eye.

Vitreous biopsy or culture may yield negative results in some cases of early intraocular Aspergillus endophthalmitis. We did not take a vitreous biopsy of the left eye, since we already had the diagnosis in the right eye and the visual acuity was 6/6. This eye was treated with intravenous amphotericin B and oral itraconazole with a good result. The patient remained stable with resolution of the lesions and no focus of systemic aspergillosis was found.

Comment
Fungal endophthalmitis is uncommon. In most of the cases Candida is the causal organism. Few cases of Aspergillus endophthalmitis in a patient with chronic lymphocytic leukaemia have been described, and according to the literature endogenous Aspergillus endophthalmitis represents a manifestation of disseminated aspergillosis, usually a fatal infection. This case is unusual because it is bilateral and no focus of systemic aspergillosis was found.

The cases of intraocular inflammation secondary to Aspergillus are more common in the central macula and have a poor prognosis. In our case the localisation of the chorioretinitis in the left eye was out of the posterior area and the patient’s visual acuity remained 6/6.

The major antifungal agent used in aspergillosis is amphotericin B. Without host immune competence, treatment is rarely effective. Penetration of intravenous amphotericin B into the vitreous cavity of the normal or inflamed eye is poor. Azole compounds have been used to reduce the significant toxicity and enhance the efficacy.
of intravenous amphotericin B; oral flucona- 
zole is the drug of choice because it has 
excellent penetration in central nerve system 
and vitreous.

Intravitreous amphotericin B and vitrectomy 
should be considered in all 
endophthalmitis cases. 1 In many 
of these cases, Itraconazole ma y be used. 

Late bleb needling 

Surgical manipulation of the trabeculectomy 
bleb has become a recognised postoperative 
procedure to increase the success of glaucoma 
surgery. The first needling revision of a 
glaucoma drainage bleb was described in 
1941 1 and there are several reports of 
the successful restoration of failing blebs within 
the first 3 years following trabeculectomy. 2-4

We report the results of five cases of late 
bleb needling with 5-fluorouracil (5-FU) 
where trabeculectomy had been performed 
between 8 and 30 years earlier.

Table 1 Demographic details of patients

<table>
<thead>
<tr>
<th>Case no</th>
<th>Drainage procedure</th>
<th>Delay to needling (years)</th>
<th>No of needlings</th>
<th>No of 5-FU injections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M Bilateral Schein’s</td>
<td>31</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>F Left ECCE-trabeculectomy</td>
<td>10</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>F Right trabeculectomy</td>
<td>12</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>M Right trabeculectomy</td>
<td>8</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>M Bilateral trabeculectomy</td>
<td>13</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

ECCE = extracapsular cataract surgery.

Table 2 Results of pre-bleb and post-bleb needling with a 12 month follow up period

<table>
<thead>
<tr>
<th>Case no</th>
<th>Age (years)</th>
<th>Sex</th>
<th>IOP (mm Hg)</th>
<th>No of medications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>72</td>
<td>M</td>
<td>19</td>
<td>9</td>
</tr>
<tr>
<td>2</td>
<td>88</td>
<td>F</td>
<td>25</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>F</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>4</td>
<td>35</td>
<td>M</td>
<td>58</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>71</td>
<td>M</td>
<td>25</td>
<td>16</td>
</tr>
</tbody>
</table>

Pre Post
3+ acetazolamide 0
3 1
3 1
2+ acetazolamide 0
2 0

Case reports

The demographic details of all cases are 
summarised in Table 1.

Glaucoma surgery had taken place between 
8 and 31 years before bleb needling and in no 
case had antimotics been used after 
the original surgery. Before bleb needling the 
average intraocular pressure (IOP) among the 
patients was 29.4 mm Hg (range 19–58). Each 
patient showed glaucomatous deter- 
riation despite being on maximum tolerated 
medicals, taking on average three 
ocular hypotensive agents, and in two cases 
oral acetazolamide. In all cases an open 
sclerotomy was confirmed by gonioscopy.

All procedures were performed in the 
outpatient clinic, by either a consultant or 
specialist, using a slit lamp. The eye 
was anaeasthetised with amethocaine 
and phenylephrine eye drops 1%, and phenylephrine eye drops 
2.5% were used for vasoconstriction. After 
several drops of chloramphenicol the con- 
fluent was confirmed by gonioscopy.

The patients presented in this study had 
their original glaucoma surgery at least 8 
years previously and bleb needling was 
carried out before listing the patient for a 
repeat trabeculectomy with mitomycin C. 
The only adverse effect noted was a temporary 
corneal epitheliopathy, probably related to 
toxicity of the 5-FU. Other reported adverse 
events after bleb needling include hyphaema, 
bleb leak, shallow anterior chamber, choroi- 
dals effusion and endophthalmitis, but there 
are no reports of long term hypotony as has 
been described following mitomycin C trabe- 
culectomy. These case reports indicate that bleb 
needling may be successful in achieving a long 
lasting IOP reduction even several years after 
the original surgery. The procedure does not 
require dextrious skills beyond that of a 
trained general ophthalmologist. It appears 
at least as safe as trabeculectomy and avoids 
a formal operation. If it does fail the surgical 
field is still intact for a “redo” trabeculect- 
comy.

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Correspondence to: Ms Katherine Claridge, Taunton and Somerset NHS Trust, Musgrove Park, Taunton TA1 5DA, UK; kate.claridge@tst.nhs.uk

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MAILBOX

The success rates for endonasal dacryocystorhinostomy

Tsirbas and Wormald are to be congratulated on advancing endonasal dacryocystorhinostomy (DCR) with mucosal flaps, which is also known as powered endonasal DCR. Our results are seemingly impressive, with anatomical success rate of 95% and functional success rate of 89%, closely approaching those of external (transcutaneous) DCR. I have three comments that I hope will help readers who are less familiar with endonasal lacrimal surgery, put this paper into perspective.

Firstly, the mucosal flaps have a greater role peroperatively than postoperatively. The large nasal mucosal flap reflected medially over the middle turbinate protects that structure peroperatively from inadvertent damage during mechanical/powered instrumentation. After the bony opening has been made (osteotomy) this flap is trimmed in the described C shape, which prevents it from flapping over the common canalicular opening. Including it; it has only a negligible postoperative role covering raw bony edges in part. The creation of a useful lacrimal sac mucosal flap is entirely dependent on the size of the sac, being large when there is a mucocutaneous and small when the sac is small and shrunken. In external DCR the fashioned mucosal flaps are well apposed and sutured, and are assumed to have a major role in reducing scarring from secondary intention healing. In contrast with the mucosal “flaps” described in this paper probably have only a minor role in the postoperative period.

Secondly, the disadvantage of this technique is undoubtedly the reported 46% rate of concomitant septoplasty, in order to create an adequate nasal space for safe instrumentation. Concomitant septoplasty is only occasionally needed in endoscopic endonasal surgical dacryocystorhinostomy (EES-DCR), probably in less than 5% of cases operated, yet the results of that faster and less invasive surgery are approximately 85%. Septoplasty is hardly ever required in external DCR, usually only in occasional trauma cases where the nasal space is exceedingly narrow. The authors have recognised that maintaining an unimpeded common canalicular opening free from fine bone fragments, mucosal tags, or flaps, enables free tear drainage into the nose and is a key factor for a high success rates in DCR surgery. In order to achieve this they consistently make a very large rhinostomy (20 mm×15 mm) by removing both the thin lacrimal and the thicker maxilla bone. The drawback of doing this endonasally is that there are risks of mucosal damage and subsequent synechiae from the bone punches (rongeurs) used to remove maxilla bone anterior to the sac, and the diamond burr used to remove the thick maxilla bone superior. Hence, there is the need for the high septoplasty rate to create an adequately large size nasal space.

Thirdly, their follow up times are inconsistent and need to be standardised in order for readers to understand the results and compare them with those of other endonasal DCR techniques. The success rates for mechanical endonasal DCR reported by Tsirbas and Wormald appear to be very good (95% anatomical and 89% functional success), but their follow up period varied from only 2 months to 6 years (mean 9.7). Some of the patients who had only a short follow up time may subsequently fail. A paper published in the American Journal of Ophthalmology by the same authors using the same technique, when they had a minimal follow up of 9 months, had a lower anatomical success rate (91%).

It is important to define success and what this really means, and for lacrimal surgeons to agree consistent outcome criteria. Perhaps lacrimal surgeons should agree the following criteria for DCR surgical success, irrespective of whether it is by an external or endonasal route:

- Assess the outcome a minimum of 6 months after surgery, being at least 3 months after removal of tubes. Or is 1 year after surgery better?
- Assess subjective success based on the patient’s symptoms.
- Assess objective success (anatomical success) based on (i) absence of synechiae and (ii) presence of a functioning rhinostomy.
- The latter is evaluated using the functional endoscopic dye test, which is positive when 2% fluorescein instilled in the conjunctival fornix is seen emerging from the rhinostomy a few seconds later.4,5

Despite these minor quibbles, the authors are to be congratulated on advancing endonasal lacrimal surgery.

J M Olver
Western Eye Hospital, Marylebone Road, London NW1 5YE, UK; janeolver@aol.com

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Trypan blue stains the epiretinal membrane but not the internal limiting membrane

We read with great interest the paper by Li et al about staining of the internal limiting membrane (ILM) and epiretinal membrane (ERM) with trypan blue (TB). We would like to comment on one aspect of this paper, when the authors claimed that a good staining of both the ILM and the ERM was achieved with TB. We disagree that ILM is stained by TB, and propose that TB only stains the ERM, not the ILM.

The authors affirm “ILM staining” with TB as they observed histologically the presence of ILM in four eyes with macular holes at stage III and IV. In one of those eyes, immunohistochemistry was performed, and an epiretinal membrane was found. In the other three cases, immunohistochemistry examination was not performed because of insufficient tissue. Most of the stage III and IV macular holes are known to be associated with an epiretinal membrane, and in the other three cases, immunohistochemistry for glial elements were performed. Therefore, we believe that TB stained the ERM associated with the macular holes, but not the ILM. In their study, staining with TB of seven patients with idiopathic epiretinal membrane was successfully performed. ERM of proliferative vitreoretinopathy is also reported to be well stained by TB. We speculate that TB has binding affinity to some of the glial cell elements of the highly cellular ERM, either those associated with macular holes or not.

Indocyanine green (ICG) is another dye for intracocular staining. It has wide acceptance among retina surgeons in the past few years. In contrast with the cellular affinity of TB, ICG stains the acellular ILM, because of the fast binding of ICG to collagen proteins of the ILM. ERM tends to be stained negatively by ICG, well because the hydrophilic ICG does not penetrate cell membranes easily.4

TB staining seems to be a good alternative to ICG staining in the surgical management of macular diseases. Further studies are warranted on the intraocular kinetics of that dye.

E B Rodrigues, C H Meyer, J C Schmidt, P Kroll
Department of Ophthalmology, Philipps-University Marburg, Germany

Correspondence to: E B Rodrigues, MD; Department of Ophthalmology, Philipps-University Marburg, Germany, edubradriqes@yahoo.com.br

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therapeutic outcome. Tumor control and vision outcomes will be evaluated at regular follow-up appointments.

In conclusion, this study confirms the safety and efficacy of this therapeutic approach, demonstrating that this combination of chemotherapy and photocoagulation can provide an alternative to enucleation for selected cases of retinoblastoma. Further studies are needed to explore the long-term outcomes and complications associated with this treatment strategy.

References

Causes of severe visual impairment and blindness in children in Ethiopia

We read with great interest the article by Kello et al. The authors have to be congratulated for the hard hitting and well written article. A current concern for people involved in paediatric eye care is the emergence of retinopathy of prematurity (ROP) and the associated blindness due to retinopathy of prematurity (ROP). In our experience, ROP could be effectively circumvented by chemodetox therapy. With the availability of new therapeutic approaches, the prevention of ROP is now more feasible than ever before.

In the current issue, however, local recurrence occurred in 31%. The dosage of carboplatin used in the current series was 10 mg/kg body weight, which is lower than the standard dosage of 18.6 mg/kg body weight. In the current series, however, local recurrence occurred in 58%. The diode laser (Iris Medical Inc, Mountain View, CA, USA) with an operating microscope adapter allows for a spot size of 8.2, 1.2, and 2.0 mm. The relatively smaller spot size of the diode laser is preferred for retinal and choroidal lesions because of its lower thermal spread and better focalization. In the current series, the tumour regression and vision outcomes were better in children with carboplatin as compared to those with TCT. However, the dosage of carboplatin used in the current series was 10 mg/kg body weight, which is lower than the standard dosage of 18.6 mg/kg body weight. Lower dose of carboplatin, the key drug in the chemothermotherapy regimen for retinoblastoma, could have influenced the higher recurrence rate.

The authors mention that they treated submacular tumours with TCT. However, in our experience, tumours located in the macular area are better treated initially with chemothermotherapy for 3–6 cycles in order to achieve maximum possible reduction in tumour size before considering thermothermotherapy. Chemothermotherapy reduced macular tumours tend to shrink away from the fovea towards one of the major arcades or the optic nerve, thus exposing the foveal region. Retinal tumours beyond 3–6 cycles of chemothermotherapy could be treated with thermothermotherapy. A smaller scar thus produced may optimise residual central vision.

The high mean total duration of thermothermotherapy in the current series is probably because of a smaller spot size of 0.4 mm. The diode laser (Iris Medical Inc, Mountain View, CA, USA) with an operating microscope adapter allows for a spot size of 8.2, 1.2, and 2.0 mm. The relatively smaller spot size of the diode laser is preferred for retinal and choroidal lesions because of its lower thermal spread and better focalization. In the current series, the tumour regression and vision outcomes were better in children with carboplatin as compared to those with TCT. However, the dosage of carboplatin used in the current series was 10 mg/kg body weight, which is lower than the standard dosage of 18.6 mg/kg body weight. Lower dose of carboplatin, the key drug in the chemothermotherapy regimen for retinoblastoma, could have influenced the higher recurrence rate.

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An error occurred in the author listings for two letters in the September issue. In the letter by Lee et al. (Br J Ophthalmol 2003;87:1184–5) the order should be D K Lee, E B Suhler, W Augustin, R R Buggage. In the letter by Buggle et al. (Br J Ophthalmol 2003;87:1190–1) the order should be R R Buggle, D G Callanan, D F Shen, C C Chen. The journal apologises for the error.

In the article by Williamson et al. in the September issue (Br J Ophthalmol 2003;87:1126–9), the author list contained an error. The correct spelling is N Strothius. The journal apologises for the error.

In the article by Courtright et al. in the September issue (Br J Ophthalmol 2003;87:1079–82), the author list contained an error. The correct spelling is A Hoehnssmn. The journal apologises for the error.
Elaboration of avoidable blindness

The latest issue of Community Eye Health (No 46) discusses the resolution of the World Health assembly on the elimination of avoidable blindness. 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, +44 (0)207 925 7094; email: Anita.Shah@lshtm.ac.uk; website: www.jche.org.uk. Annual subscription (4 issues) UK £28/US$45. Free to developing country applicants.

Second sight

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

SpECific Eye Conditions (SPECS)

SpECific Eye Conditions (SPECS) is a not for profit organisation which acts as an umbrella organisation for support groups of any condition or syndrome with an integral eye disorder, SPECS represents over 50 different organisations related to eye disorders ranging from conditions that are relatively common to very rare syndromes. The website acts as a portal giving direct access to support groups’ own websites. The SPECS web page is a valuable resource for professionals and may also be of interest to people with a visual impairment or who are blind. For further details about SPECS, contact: Kay Parkinson, SPECS Development Officer (tel: +44 (0)1803 524238; email: k@eyeconditions.org.uk; website: www.eyeconditions.org.uk).

The British Retinitis Pigmentosa Society

The British Retinitis Pigmentosa Society (BRPS) was formed in 1975 to bring together people with retinitis pigmentosa and their families. The principle aims of BRPS are to raise funds to support the programme of medical research into an eventual cure for this hereditary disease, and through the BRPS welfare service, help members and their families cope with the everyday concerns caused by retinitis pigmentosa. Part of the welfare service is the telephone help line (+44 (0)1280 860 363) for any queries relating to retinitis pigmentosa, especially for those recently diagnosed with retinitis pigmentosa (tel: +44 (0)1280 821 334; email: lynda@brps.demon.co.uk; website: www.brps.demon.co.uk).

Surgical Eye Expeditions International

Volunteer ophthalmologists in active surgical practice are needed to participate in short term, sight restoring eye surgery clinics around the world. Contact: Harry S Brown, Surgical Eye Expeditions International, 27 East De La Guerra, C-2, Santa Barbara, CA 93101-9858, USA (tel: +805 963 3303; fax: +805 965 3564; email: hsbrown.md@cox.net or secintl@secintl.org; website: www.secintl.org).

Rise in organ transplant numbers

According to UK Transplant, the UK has seen the highest number of organ transplants in six years. Last year (1 April 2002 to 31 March 2003), 2777 patients had their lives saved or dramatically improved through the generosity of 1064 donors. This equated to a 6% increase compared to the previous 12 months (1 April 2001 to 31 March 2002). Furthermore, during 2002–3, the highest number of people benefited from corneal transplant for the first time in five years (1997–98) and 240 more people had their sight restored than the previous year. For further information see UK Transplant’s website (www.uktransplant.org.uk).

Elaboration of avoidable blindness

The 56th World Health Assembly (WHA) considered the report on the elimination of avoidable blindness (doc A56/26) and urged Member States to: (1) Commit themselves to supporting the Global Initiative for the Elimination of Avoidable Blindness by setting up a national Vision 2020 plan by 2005; (2) Establish a national coordinating committee for Vision 2020; (3) Establish a national blindness prevention committee to help implement the plan; (4) Implement the plan by 2007; (5) Include effective monitoring and evaluation of the plan with the aim of showing a reduction in the magnitude of avoidable blindness by 2010; (6) Support the mobilisation of resources for eliminating avoidable blindness. The WHA also urged the Director-General to maintain and strengthen WHO’s collaboration with Member States and the partners of the Global Initiative for the Elimination of Avoidable Blindness as well as aid in the coordination and support of national capability.

Glaucoma Society 24th Annual Meeting and Dinner

The Glaucoma Society 24th Annual Meeting and Dinner will take place on 20 November 2003, from 8.30 am to 3.00 pm at The Royal College of Physicians, London, UK. Further details: Ms Janet Flowers (email: glausoc@ukeire.freesserve.co.uk).

Detachment course with international faculty on: retinal and vitreous surgery with case presentations preceding the annual meeting of Iranian Society of Ophthalmology

The detachment course with international faculty on: Retinal and Vitreous Surgery with Case Presentations preceding the Annual Meeting of the Iranian Society of Ophthalmology will be held on 29–30 November 2003 and 1–4 December 2003 respectively, at the Razi Conference Center, Tehran, Iran. Further details: Scientific programmes committee: Ingrid Kreissig, University of Tuebingen, Schleichstr. 12, 72076 Tuebingen, Germany (tel: +49 7071 295209; email: ingrid.kreissig@med.uni-tuebingen.de). Local organisation: Dr Arman Masheyekhi, Dr Siamak Moradian, Dept of Ophthalmology, Labbaniyehad Medical Center, Pasdaran Ave, Boostan 9, Tehran, 16666, Iran (fax: +98 21 254 9039; email: labball@hotmail.com).

5th International Symposium on Ocular Pharmacology and Therapeutics (ISOPT)

The 5th International Symposium on Ocular Pharmacology and Therapeutics (ISOPT) will take place 11–14 March 2004, in Monte Carlo, Monaco. Please visit our website for details of the scientific programme, registration, and accommodation. To receive a copy of the Call for Abstracts and registration brochure, please send your full mailing details to http://www.kenes.com/isopt/interest.htm. Further details: ISOPT Secretariat (website: www.kenes.com/isopt).

XVth Meeting of the International Neuro-Ophthalmoology Society

The XVth Meeting of the International Neuro-Ophthalmoology Society will take place 18–22 July 2004, in Geneva, Switzerland. Further details: Prof. A Safraen, University Hospital Geneva, c/o SYMPORG SA, Geneva (fax: +4122 839 8484; email: info@symporg. ch; website: www.symporg.ch).

4th International Congress on Autoimmunity

The 4th International Congress on Autoimmunity will take place 3–7 November 2004 in Budapest, Hungary. The deadline for the receipt of abstracts is 20 June 2004. Further details: Kenes International Congress Organisers and Association Management Services, 17 Rue du Cendrier, PO Box 1726, CH-1211 Geneva 1, Switzerland (tel: +41 22 908 0488; fax: +41 22 732 2850; email: autoim04@kenes.com; website: www.kenes.com/autoim04).

Wake up call as dream time deadline looms

Scientists have less than a month left to apply for a new Dream Time award from NESTA, the organisation that invests in UK creativity and innovation. Dream Time supports exceptional achievers (with at least 10 years experience in their field) who want time to experiment or follow a passion, but who intend to continue with their career and put what they have discovered to good use. Up to 12 exceptional individuals from the fields of science, technology and the arts will each receive up to £40,000 to pursue their goals and push at the boundaries of knowledge and practice. NESTA is looking for people who can demonstrate evidence of exceptional achievement. This would include a significant body of work collated over at least a decade in their field, the ability to work in new ways and a commitment to the proposed area of exploration. Dream Time is a development of NESTA’s existing Fellowship Programme, which has helped talented and creative individuals to innovate and explore new ideas emerging through periods of personal development. As with all its awards, NESTA is looking for people who demonstrate excellence, promise, creativity, innovation and commitment. Funding can be used on a full- or part-time basis, in tandem with professional careers and subject to the constraints of employment. Offered awards can be for any period of time up to five years (1997–98) and 240 more people had their sight restored than the previous year. For further information see UK Transplant’s website (www.uktransplant.org.uk).

www.bjophthalmol.com
one year. Dream Time Fellows will be asked to provide 10% in kind support for their plan and will be required to plan ways of disseminating their findings with their professional community. To apply, visit NESTA’s website: www.nesta.org.uk/dreamtime.

14th Meeting of the EASD Eye Complication study group
The 14th Meeting of the EASD Eye Complication (EASDEC) study group will take place on the 21–23 May 2004. There will be key lecture notes on the following topics: Peter Gaede (Denmark)—Results of the Steno 2 study, Hans Peter Hammes (Germany)—Animal models of diabetic retinopathy, Massimo Porta (Italy)—Screening with the London protocols: 12 years after, and Anselm Kampik (Germany)—Surgical options in diabetic retinopathy. There will also be case presentations and oral and poster presentations. The EASDEC board comprises F Bandello (President), PJ Guillausseau (Vice President), C-D Agardh (Past President), P Massin (Secretary), M Porta (Treasurer). The Scientific and Organizing Committee includes: F Bandello, PJ Guillausseau, P Massin, C-D Agardh, M Porta, A Kampik, M Ulbig, and G Lang. There are three travel grants available, at 1000 Euro each, for young scientists (less than 35 years at the time of the meeting). Application for the grant should be made together with the submission of the abstract. For further information, contact: Department of Ophthalmology, Ingrid Mannl, Ludwig-Maximilians-University, Mathildenstr. 8, 80336 Munich, Germany (tel: +49-89-5160-3800; fax: +49 89 5160 4778; e-mail: easdec@ak-i.med.uni-muenchen.de). The deadline for abstracts is 2 March 2004.