Histopathological findings in filtering blebs with recurrent blebitis

We report clinical courses and histopathological findings of excised blebs from two patients with recurrent blebitis.

Case reports

Case 1
A 79 year old man with a past history of lung cancer and diabetes mellitus underwent trabeculectomy with 5-fluorouracil in his right eye for a diagnosis of primary open angle glaucoma (POAG) in 1989. In January 1994, bleb leakage from an avascular bleb was confirmed for the first time and prophylactic topical erythromycin had been applied. In September 1994, he experienced ocular pain and hyperaemia in his right eye and blebitis was diagnosed. Culture of aqueous humour was positive for enterococcus. He was treated with topical ofloxacin, micromicin, and a subconjunctival injection of amikacin and the infection resolved. After then, bleb leak was controlled with almost same medication as before, the leak did not stop after any antimetabolites reportedly show focal or general thinning. In cases of leaking bleb after filtering surgery without the use of antimetabolites, Sinnreich et al reported similar epithelial thinning, while Addicks et al reported normal epithelium. Both of our cases were similar to the former. Moreover, there was goblet cell depletion in both of our cases. Mucin is a highly adhesive substance secreted from goblet cells and mostly forms as mucin over the cornea or conjunctiva, which has an important function as a physical, biological barrier on the ocular surface, such as elimination of foreign bodies or control of micro-organisms. Thus, histological findings of these two cases of recurrent bleb infection are compatible with dysfunction against bacterial infection.

Inflammatory reaction in the stroma of the bleb is decreased with the use of mitomycin C, while cases of leaking blebs without antimetabolites reportedly show moderate subconjunctival inflammation. Case 2 in the present study, without the use of antimetabolites, had a low inflammatory reaction. Poor immune response may be related to the poor blood supply in these ischaemic blebs and compatible with the poor immune response to bacterial infection.

Waheed and his colleagues reported clinical characteristics of 12 eyes with recurrent bleb related infections and they concluded that eyes that have been successfully treated for bleb related infection remain at risk for recurrent infection. Histopathological findings showing thinning and breakdown of epithelial structures in the present study may explain this findings.

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The authors have no proprietary interest in the development and marketing of any products mentioned in this article.

Accepted for publication 18 January 2002

References

Retinal detachment surgery in district general hospitals: an audit of changing practice

Despite advances in the techniques of vitreoretinal surgery, rhegmatogenous retinal detachment (RBD) continues to pose a serious
threat to vision. In the past, general ophthalmologists in the United Kingdom undertook most RRD surgery, with only the more complex cases being referred to retinal specialists. The recent trend towards subspecialisation has led to increasing numbers of primary RRD being managed by vitreoretinal surgeons in tertiary referral centres.  

We conducted an audit to determine the current success rate of primary RRD surgery in our subregion (south west subregion, SWSR). SWSR consists of the catchments of four district general hospitals (DGH) in Devon and Somerset (population 1.2 million). A previous subregional audit in 1991 showed that all consultant ophthalmologists undertook primary RRD repair, achieving a success rate of 71% with one operation.  

Since then, retinal subspecialisation has meant that all RRDs are managed by three retinal specialists (CJ, PS, RG) in their individual DGHs, providing a subregional surgical retinal service. An infor- mational cross cover arrangement exists between the three DGHs, with the result that patients are very rarely referred out of the subregion. Case notes of all patients who underwent surgery for primary RRD from January to December 1999 were retrospectively reviewed. Case ascertainment was achieved by reviewing theatre logbooks and identifying all vitreoretinal procedures that took place during 1999. A single investigator (RL) collected details of all the patients; 1999 was chosen so as to have the most comparable outcome data as the previous study. 

Table 1 Characteristics of primary RRD in the south west subregion during 1999

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>No (%) of retinal detachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macula attached</td>
<td>60 (47)</td>
</tr>
<tr>
<td>Phakic</td>
<td>97 (75)</td>
</tr>
<tr>
<td>&gt;−6D myopia</td>
<td>33 (26)</td>
</tr>
<tr>
<td>Single retinal break</td>
<td>72 (57)</td>
</tr>
<tr>
<td>Inferior retinal breaks*</td>
<td>29 (23)</td>
</tr>
<tr>
<td>PVR (grade C1 or worse)</td>
<td>6 (5)</td>
</tr>
<tr>
<td>Total retinal detachment</td>
<td>11 (9)</td>
</tr>
<tr>
<td>Types of retinal breaks:</td>
<td></td>
</tr>
<tr>
<td>Horseshoe tears</td>
<td>83 (65)</td>
</tr>
<tr>
<td>Round holes</td>
<td>22 (17)</td>
</tr>
<tr>
<td>Dialysis</td>
<td>8 (6)</td>
</tr>
<tr>
<td>Combined schisis detachment</td>
<td>3 (2)</td>
</tr>
<tr>
<td>Giant tear</td>
<td>3 (2)</td>
</tr>
</tbody>
</table>

PVR = proliferative vitreoretinopathy.

Table 2 Preoperative and postoperative logMAR visual acuity

<table>
<thead>
<tr>
<th></th>
<th>Preop Median (SD)</th>
<th>Postop Median (SD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall (n=127)</td>
<td>0.78 (0.88)</td>
<td>0.18 (0.65)*</td>
</tr>
<tr>
<td>Macula attached (n=60)</td>
<td>0.21 (0.62)</td>
<td>0.16 (0.35)*</td>
</tr>
<tr>
<td>Macula detached (n=67)</td>
<td>1.83 (0.90)</td>
<td>0.85 (0.65)*</td>
</tr>
<tr>
<td>Primary success (n=108)</td>
<td>0.60 (0.88)</td>
<td>0.18 (0.54)*</td>
</tr>
<tr>
<td>Primary failures following successful reintervention (n=13)</td>
<td>0.78 (0.90)</td>
<td>0.60 (0.99)</td>
</tr>
</tbody>
</table>

*p<0.05, Wilcoxon test.

Discussion

Overall, 74 (58%) cases had primary vitrectomy. The three DGHs differed significantly in their surgical approach (primary vitrectomy rate: DGH A 65%, DGH B 40%, DGH C 79%). Consultants performed 85% of all operations, while trainees performed the remainder under supervision.

The primary success rate of retinal reattachment was 85% overall, with a mean of actual documented follow up of 8.2 months (2–25 months). This was a significant improvement from the 71% primary success in 107 cases of primary RRDs in the previous subregional audit (p<0.05, χ2 test). There was no significant difference between the three DGHs in their individual primary success rate (DGH A 87%, DGH B 85%, DGH C 83%). Included in the primary success were those cases with no further intervention at final follow up.

There were 19 (15%) primary failures. 11 were "early failures" (mean interval to reattachment 8 days) whose retinas did not reattach, or immediately reattached after absorption of gas tamponade. They were due to inadequate retinopexy/adhesion (five), new/missed breaks (four), inadequate buckle (one), and proliferative vitreoretinopathy (one). In contrast, the eight "late failures" (mean interval to reattachment 69 days) all had successful initial reattachment, but subsequently reattached due to proliferative vitreoretinopathy. Logistic regression with success or "late failures" as the dependent variable found retinal break in a superior position (from 10 to 2 o’clock), myopia &gt;−6 dioptr, and "aphakia"/pseudophakia without an intact posterior capsule, to be significant predictors of "late failures" (p<0.05).

A total of 15 primary failures underwent further retinal surgery; 14 patients were re-attached with one further operation (one needed two further procedures). The final success rate was 97%. This was not significantly different from the 93% of the previous audit (p>0.05, χ2 test).

Table 2 summarises the visual outcome of our patients, represented by changes in logMAR visual acuity. Visual acuity was significantly improved in the primary success, macula attached and macula detached subgroups (p<0.05, the Wilcoxon test). Seventy per cent of primary success patients achieved a Snellen acuity of 6/18 or better at discharge.

Comment

In 1991, all consultant ophthalmologists in our subregion undertook primary RRD surgery, each managing on average 8.2 cases per year. In the current audit cycle, the caseload had increased to 42 cases per consultant, with three retinal specialists managing all the RRD. Assuming there was no significant change in the detachment case mix between 1991 and 1999, the improvement in the primary success rate is most likely to be associated with the advent of vitreoretinal subspecialisation.  

Results of RRD surgery from three vitreoretinal units (VRU) in the United Kingdom provided indicators for comparison. With the exception of pseudophakic rate (Cambridge 12%, SWSR 24%), our case mix was more comparable to the Cambridge subregion, with both series describing RRD from geographically well defined populations. Initially, there would appear to be significant differences in the primary success rate between the four studies (Cambridge VRU 90%, SWSR 85%, St Thomas’s 84%, Moorfields 80%, p<0.05, χ2 test). However, it is debatable whether retinal reattachment achieved with silicon oil in situ can be considered “stable.” After excluding eyes with silicon oil still in situ, the “oil-out primary success rate” was comparable (Cambridge VRU 80%, SWSR 83%, p=0.05, χ2 test).

The primary success rate, although significantly improved, was not 100%. Improvement on our “early” failures, mostly due to “techni- cal” errors, can be achieved by appropriate choice of surgical technique. For the “late” failures, all consequence of PVR, improve- ment may depend on the identification of “at-risk” cases, and the selective use of an “anti-PVR cocktail.” To conclude, we have shown that the primary success rate of RRD surgery has improved following a change in practice towards retinal subspecialisation in our subregion. The anatomical success and functional outcome were comparable to results from other VRUs in the United Kingdom. The benefits of providing a local vitreoretinal serv- ice, in contrast to referring patients to a VRU in a tertiary centre, include prompt on-site surgical access, and the availability of support from family and friends locally to aid visual rehabilitation in the postoperative period.

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Accepted for publication 11 February 2002

References

Do climatic variables influence the development of posterior vitreous detachment?

Posterior vitreous detachment (PVD) is a common condition after the fifth decade of life.1 Synchrony of the vitreous progresses in proportion to age, creating holes in the posterior hyaloid membrane and allowing PVD to occur. The incidence of rhegmatogenous retinal detachment is generally accepted to be season dependent, with a higher incidence in the summer months.2,3

In order to investigate the effect of increasing temperatures—for example, for an increase of 1 °C, there is a 3% increase in the number of PVD cases directly as a function of the air temperature. Our data suggest a highly significant correlation between weekly average temperatures and the incidence of PVD. The lack of any previous literature on this subject makes it difficult to draw any conclusions about the mechanism for an increase in PVD occurrences with increasing temperatures. However, we postulate that increasing physical activity and dehydration associated with increasing temperatures may have a role to play.

Further work is necessary in order to investigate the effect of increasing temperatures and/or dehydration on the biochemical structure of the vitreous.

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Accepted for publication 21 November 2001

References

Coclar and systemic posaconazole (SCH-56592) treatment of invasive Fusarium solani keratitis and endophthalmitis

An emmetropic 42 year old immunocompetent woman with 6/6 vision developed left eye pain while wearing cosmetic contact lenses. She presented on 28 July 2000 to her ophthalmologist, who noted deep stromal infiltration accompanying a 2 × 3 mm pericentral corneal ulcer. Cultures yielded Staphylococcus aureus, Streptococcus viridans, and...
Fusarium solani. Initial therapy with tobramycin was followed by high dose topical hydroquinones, whereafter the infection, continuing unabated, was construed to be fungal keratitis. High doses of amphotericin B both topical and intravenously, natamycin, and ketoconazole were administered, along with topical fortified cephazolin, neosporin, and atropine. Despite these, the lesion spread to involve much of the corneal periphery (Fig 1), and repeat corneal cultures confirmed the presence of amphotericin B resistant Fusarium spp (MIC 24:48 hours in pg/ml; amphotericin B 2.2; natamycin 32:32; posaconazole 1.8).

On 1 September 2000, the anterior chamber was filled with fibrin with a central corneal descemetocele and near total corneal infiltration, affording only a hazy view of the peripheral iris. The fibrin clot was integrated with the central iris, and the lens was not visible. Ultrasound suggested anterior segment involvement only. Posaconazole (SCH-56592), an investigational broad spectrum triazole, was obtained from Schering-Plough Research Corporation and administered at 200 mg four times daily orally, with hourly topical ocular application of the same suspension (10 mg/0.1 ml). A compassionate use investigative new drug (IND) approval for topical ocular application of posaconazole was requested from, and promptly issued by, the Federal Drug Administration, and informed consent was obtained through an institutional review board approved protocol. Treatment commenced 5 September 2000, when aqueous tap reconfirmed presence of Fusarium, which was susceptible in vitro to posaconazole.

Within the first week of 2 hourly topical application of posaconazole oral suspension (100 mg/ml), along with 800 mg orally of the same daily, there was significant clearing of the corneal stroma. The fibrin clot was integrated with the corneal and iris stroma. Within the corneal and iris stroma. September 2000. Vision improved markedly, with good projection to confrontional light throughout the periphery. The clarity of the transplant and anterior chamber now revealed a dense white cortical cataract, with residual fibrin clot inferior to the graft-host interface. Topical corticosteroid therapy was cautiously introduced. By 30 October 2000 the patient’s condition was further improved, and elective combined phacoemulsification with planned aphakic IOL was carried out on 11 January 2001. Branching elements of the Fusarium were histologically confirmed to have penetrated the surgically removed anterior cortex and capsule, but all subsequent cultures were negative, and aqueous tap confirmed posaconazole to be present at a level of 0.9 µg/ml, with a plasma level of 1.6 µg/ml. At 16 months, on 4 December 2001, vision remained stable with good colour vision and 360 degree peripheral visual function. The visual axis was clear, with two small clear operculi in the otherwise opaque residual posterior capsule (Fig 2). Visual acuity was 6/30 using aphakic correction, with no afferent pupil defect. Prognosis for eventual lens replacement, posterior capsulotomy, and visual rehabilitation of this eye now appeared very good. This excellent outcome is not anticipated for invasive Fusarium of the eye.

In summary, a healthy woman with amphotericin and natamycin resistant Fusarium spp keratitis, progressing to invasive endophthalmitis, recovered with good retinal function via an apparently rapid response of the Fusarium to systemic and/or topical posaconazole. The ocular penetration of posaconazole was confirmed on separate occasions by aqueous and vitreous analysis.

Acknowledgements

The authors gratefully acknowledge the assistance of Gilbert Viprao in coordinating this study, and Schering-Plough for providing the study drug and funding for Mr Viprao.

Supported in part by an unrestricted grant from Research to Prevent Blindness, New York, USA.

The authors have no proprietary interest in any products used in this assessment.

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References

World Sight Day and cataract blindness
Age related cataract remains the major cause of blindness throughout the world. It is estimated that the present number of 20 million of cataract blind will double by the year 2020. The main reasons for low uptake of cataract surgery in developing countries are poor surgical outcome and high cost. Various strategies have been suggested by the global initiative “Vision 2020: the right to sight” to reduce cataract blindness. In Nepal, on “World Sight Day,” Lahan Eye Hospital and Tilganga Eye Centre jointly convened a one week cataract surgical “workshop” from 8–13 October 2001. A total of 1542 patients with operable cataract were identified in 49 screening camps in rural areas of south east Nepal and transported to Lahan Eye Hospital. During 6 days 2292 eye operations were performed, of which 2167 were cataract extractions (range 286–594 per day). The operations were performed by six experienced eye surgeons using a surettless non-phaco technique, removing the nucleus.
through a self sealing corneoscleral tunnel. Biometry was performed and a calculated PC IOL inserted in 374 (18%) cases; the remaining 1741 (82%) received a +2.2 dioptre PC IOL. After excluding 23 cataract operations on children, 21 combined glaucoma procedures, and eight lens induced glaucoma surgeries, the surgical outcome on the remaining 2115 cataract extractions was evaluated.

The uncorrected visual acuity at discharge (94% on first postoperative day) was 6/6–6/18 in 49.9% and less than 6/60 in 3.0% of eyes (Table 1). The reasons for poor outcome are shown in Table 2.

The cost of consumables including IOL, medicines, anaesthesia, viscoelastic, irrigation solution, disinfectant, and dressings was less than $10 per cataract operation.

Well organised cataract screening camps combined with efficient base hospital surgery, using a safe surgical technique which provides early and good visual outcome, can be a strategy to reduce the backlog of cataract blindness in rural communities in developing countries.

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Table 1 Uncorrected visual acuity at discharge

<table>
<thead>
<tr>
<th>Acuity</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/6–6/18</td>
<td>1054</td>
<td>49.9</td>
</tr>
<tr>
<td>&lt;6/18–6/60</td>
<td>997</td>
<td>47.1</td>
</tr>
<tr>
<td>&lt;6/60</td>
<td>64</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Table 2 Reasons for poor visual outcome at discharge (<6/60)

<table>
<thead>
<tr>
<th>Cause</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-existing eye disease</td>
<td>34</td>
<td>1.6</td>
</tr>
<tr>
<td>Surgical complication</td>
<td>25</td>
<td>1.2</td>
</tr>
<tr>
<td>Retractive error</td>
<td>4</td>
<td>0.2</td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Total</td>
<td>64</td>
<td>3.0</td>
</tr>
</tbody>
</table>

MAILBOX

Failure of amniotic membrane transplantation in the treatment of acute ocular burns

We read with interest the article by Joseph et al. It is to be appreciated that they have come forward to report the negative results of their study along with the need of an upgraded classification for the chemical burn. The authors must be congratulated for highlighting the pitfalls of amniotic membrane transplantation (AMT) in acute cases with sufficient scientific explanation.

Whenever a new technique is described it is aggressively followed with realising the consequences. The authors have very rightly suggested that the most important strategy for the management of thermal and chemical burns in the acute stage is to reduce inflammation, probably the modification to be needed for acute lesions. It is to be reported in the literature that AMT does help in all these three conditions at the acute stage of the chemical burn, the authors have rightly pointed out that there is a remarkable limitation in modified Roper Hall’s classification at grade IV.1 Do the eyes with 100% limbal ischaemia behave in the same way as those with 55% ischaemia?

It was thought of back in 1984 and a modified classification was suggested in these eyes before keratoplasty as a prognostic factor.2 However, the same factor was restricted to healed lesions and now the time has come for this classification for the chemical burn. The authors have very rightly suggested that the most important strategy for the chemical burn and surgery. This may help to reduce inflammation, thus allowing the surgeons to perform an elective surgery. Regarding the chemical burn, the authors have rightly pointed out that there is a remarkable limitation in modified Roper Hall’s classification at grade IV.

Once again we would like to commend the authors for their boldness and wonder how many other corneal surgeons would have felt the same.

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References


Trachoma and recurrent trichiasis

It was with great interest that I read the recent article by al Arab and co-workers. This work clearly shows that endemic blinding trachoma continues to be a major health problem in this area of the Nile Delta, quite close to Cairo.

My attention was particularly drawn to the high rate of recurrence among those who had had trichiasis surgery. Overall, 44% of cases who had had surgery had recurrent trichiasis. It would be most interesting to look at the time that had elapsed between surgery and the time of examination. Some have argued that the recurrence rate from trichiasis reflects poor or inadequate surgery. Others have alluded to the fact that the tarsal strip in trichiasis is of a progressive nature and that trichiasis is likely to recur because of ongoing scarring, even after otherwise successful surgery. Information of the elapsed time would help explore the scenario.

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Department of Anaesthesia

References


“No-needle” sub-Tenon’s anaesthesia

We read with interest the letter from Amin et al, suggesting a modification of the sub-Tenon local anaesthetic injection procedure. They advocate the use of a Venflon needle to penetrate the conjunctiva, with subsequent advancement of the cannula before anaesthetic injection. We are concerned that the use of a sharp needle should be recommended so close to the eye. Amin et al point out that the needle tip is clearly visible at all times and therefore at “minimal risk” of puncturing the eye. However, once under the conjunctiva, the needle is not necessarily “clearly” visible, and if subconjunctival haemorrhage should occur then it will quickly become obscured. We do not think it sensible to place a sharp needle close to the eye when an effective and well proven alternative delivery system has already stood the test of time.

In his editorial on local anaesthetic injection techniques for cataract surgery, Smerdon1 rightly emphasises the risk of ocular penetration for all techniques involving needles, and highlights the Royal College of Ophthalmologists’ local anaesthesia survey2 which demonstrated the relative safety of sub-Tenon’s and topical anaesthesia. We agree with him that when discussing an anaesthetic technique with a potential for high volume, it is not the expert anaesthetist/ophthalmologist who should be borne in mind, but rather the less skilled person, possibly less familiar with ophthalmic anaesthetic techniques, or in training, who may be required to administer a block. It is in this setting that the use of a needle very close to the eye is, in our opinion, an unwarranted risk. Surely the “no needle” sub-Tenon’s technique is just as effective, and safer.

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Role of autologous serum in persistent epithelial defects

Poon et al. in their excellent article have reiterated the efficacy of autologous serum in the treatment of persistent epithelial defects (PEDs) of the cornea. We would like to invite the attention of the authors to certain aspects of the study.

The authors have considered a period of 1 week for labelling an epithelial defect to be permanent. However, most studies on a similar subject have taken the criterion to be 2 weeks. It is generally recommended that a “washout” period of at least 2 weeks be given with preservative free artificial tears and only those epithelial defects that remain either static or demonstrate an increase in size in this period be included in the study. The authors have not mentioned such a washout period followed by the period in which autologous serum drops are instilled. Autologous serum drops are generally not instilled in five cases by the authors it makes it difficult to evaluate the actual contribution of serum drops for the healing of the epithelial defect in these further cases. The use of serum drops in the immediate postoperative period in two patients with poor ocular surface underlying keratoplasty without waiting for the corneal epithelial defect to heal by itself cannot be extrapolated to other indications of its use on the beneficial effect of autologous serum. Also the rationale behind the use of 100% serum when previous studies have proved the efficacy of a 20% solution is not understood. This concentrated serum can cause stickiness, which would be inconvenient to the patients and prevent making drop instillation easier.

The use of the slit lamp micrometre by the authors for measuring the epithelial defects may not be accurate because of its inherent interobserver and intraobserver variations. A better method would be measuring the area of the defect instead of the keratometric measurement. For example, the rationale behind the use of 100% serum when previous studies have proved the efficacy of a 20% solution is not understood. This concentrated serum can cause stickiness, which would be inconvenient to the patients and prevent making drop instillation easier.

References


The Hole In My Vision: An Artist’s View of His Own Macular Degeneration.


This text provides an illuminating and unique insight into the entoptic phenomena induced by the development of age related macular degeneration. Written primarily by a distinguished ophthalmic artist and photographer, it records his visual impressions of the development of age related macular degeneration in his own retinas during a 10 year period. His method of inducing and illustrating his entoptic phenomena is fascinating and the correlation with the clinical fundus findings of his attending ophthalmologists quite remarkable. The effect of laser photocoagulation is clearly described from a patient’s perspective.

This book is written in large print for the lay sufferer and ophthalmic professional alike. It is an easy read with plentiful illustrations and should occupy the bookshelf of all concerned with this potentially blinding disorder. Profits derived from the sale of this book will be used to support age related macular degeneration research.

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International Centre for Eye Health

The International Centre for Eye Health has published a new edition of the Standard List of Medicines, Equipment, Instruments and Optical Supplies (2001) for eye care services in developing countries. It is compiled by the Task Force of the International Agency for the Prevention of Blindness. Further details: Sue Stevens, International Centre for Eye Health, 11-43 Bath Street, London EC1V 9EL, UK (tel: +44 (0)20 7608 6910; email: eyeresource@ucl.ac.uk).

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 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 conditions or syndrome with an integral eye disorder. SPECS represents over fifty different organisations related to eye disorders ranging from conditions that are relatively common to very rare syndromes. We also include groups who offer support of a more general nature to organisations related to eye disorders. Support groups meet regularly in the Boardroom at Moorfields Eye Hospital to offer support to each other, share experiences and explore new ways of working together. The web site www.eyeconditions.org.uk acts as a portal giving direct access to support groups own sites. 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; www.eyeconditions.org.uk).

Ophthalmic Anesthesia Society (OAS) 16th Scientific Meeting

The 16th Scientific Meeting of the OAS will be held on 4–6 October 2002 in The Westin, Michigan Avenue, 909 North Michigan Avenue, Chicago, USA (reservations +1 800 228 3000). Further details: OAS, 793-A Foothill Blvd, PMB 110, San Luis Obispo, CA 93405, USA (tel: +1 805 771 8300; web site: www.eyeanaesthesia.org).

BEAVRS Meeting

The next BEAVRS meeting will be held in the Dalmahoy Hotel near Edinburgh on 31 October to 1 November 2002. Further details: Susan Campbell, Medical Secretary, Gartnavel General Hospital (email: susan.j.campbell.wg@northglasgow.scot.nhs.uk).