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 erucoccus. He was treated with topical ofloxacin, micromycin, and a subconjunctival injection of amikacin and the infection resolved. After then, bleb leak was not observed at any regular visit. In March 1998, blebitis occurred with a bleb leak in the same position. Although infection was controlled with almost same medication as previous 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.

Weheed 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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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 informal 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. A total of 152 cases were identified: a total of 107 (70%) were eligible for inclusion in the audit (range 14–95 years). The mean age of 59.6 years (range 14–95).

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>±4D 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>
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</table>

PVR = proliferative vitreoretinopathy. *Best in the 4 clock hours from 4 to 8 o’clock.

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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 three vitrectomy/oil cases that had not undergone oil removal at final follow up.

There were 19 (15%) primary failures. 11 were “early failures” (mean interval to redetachment 8 days) whose retinas did not reattach, or immediately redetached 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 redetachment 69 days) all had successful initial reattachment, but subsequently redetached 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 >–6 diopters, and “aphakia”/pseudophakia without an intact posterior capsule, to be significantly different from the 93% of the previous audit (p<0.05, χ² test).

A total of 15 primary failures underwent further retinal surgery; 14 patients were reattached 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 most 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 “technical” errors, can be achieved by appropriate choice of surgical technique. For the “late” failures, all consequence of PVR, improvement 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 service, 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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Do climatic variables influence the development of posterior vitreous detachment?

Posterior vitreous detachment (PVD) is a common condition after the fifth decade of life. It is the result of the vitreous liquefying at a faster rate than the retina. The incidence of rhegmatogenous retinal detachment is generally accepted to be season dependent, with a higher incidence in the summer months. There is a significant increase in the average number of occurrences of PVD from 4.23 to 5.49 cases per week between 1996 and 1997 (p=0.0019), so we included year in all models (Fig 1).

We first fitted a model including relative humidity, air temperature, solar radiation, and year. There was a significant increase in the variance of the number of occurrences of PVD with increasing weekly temperatures. Accordingly, we used the natural logarithm of occurrences as our response variable; this transformation stabilised the variances. We then fitted a generalised linear model using air temperatures and year as explanatory variables. Both had a significant and direct effect on the log of the number of occurrences; the regression coefficients were 0.18 (95% confidence interval = 0.022, 0.214) for year and 0.0189 (confidence interval = 0.0015, 0.0306) for air temperature. This means that the weekly number of PVD cases increased faster for higher temperatures—for example, for an increase of 5–6 degrees in average air temperature, the rate of increase in weekly number of PVD cases was 0.09 per week and for a temperature change from 20 to 21 it was 0.12. We did not find any evidence of an interaction between air temperature and year; thus, the effect of year was only additive, and the rate of change of log occurrences with respect to air temperatures was the same for both years.

We also found a strong association (p=0.028) between the air temperatures of the previous week and the number of weekly occurrences and the results were very similar to the same week.

Comment

Vitreous liquefaction, which advances with increasing age, is an important event in the pathogenesis of PVD. In our study there was no evidence of a cyclical pattern for the weekly or monthly occurrences, therefore we modelled 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.

References


Ocular and systemic treatment of invasive Fusarium solani keratitis and endophthalmitis

An enemetric 42 year old immunocompetent woman with 6/6 vision developed left eye pain while wearing cosmetic soft 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 hydroquinolones, 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 cephalosporin, 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 µg/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 defect 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. Ultrasonography suggested anterior segment involvement only. Posaconazole (SCH-56592), a investigative 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 periphery. The fibrin clot melted concentrically, revealing its attachment to the descemetocorneal anterior and central iris posteriorly.

With further clearing of the infectious inflammatory clot, the anterior descemetocorneal became effectively unplugged. The globe decompressed through the open corneal ulcer providing the impetus for urgent penetrating keratoplasty on 20 September 2000. Histology revealed innumerable sequestrum branching fungi within the corneal and iris stroma.

One week later, further remarkable improvement was noted. Despite the ominous surgical history, >90% of the fibrin clot had cleared. Diagnostic vitrectomy yielded posaconazole at a concentration of 0.25 µg/ml in the vitreous (and 1.2 µg/ml in the plasma) on 26 September 2000. Vision improved markedly, with good projection to confrontational 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 aphakia was carried out on 11 January 2001. Branching elements of the Fusarium were histologically confirmed to have penetrated the surgically removed anterior lens 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 plasma level of 1.6 µl/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.

W E Sponsel

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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 +22 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 (94% on first postoperative day) was 6/6–6/18 and eight lens induced glaucoma surgeries, IOL inserted in 374 (18%) cases; the remaining 1741 (82%) received a +22 dioptre PC IOL.

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>
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</table>

References


To the editor on anaesthetic injection techniques for cataract surgery

Smerdon, J.D. rightly emphasises the risk of ocular penetration for all techniques involving needles, and highlights the Royal College of Ophthalmologists' local anaesthesia survey 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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Department of Anaesthesia

“Needle local anaesthesia for ocular surgery: a chip off the old block?”

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“Needle local anaesthesia for ocular surgery: a chip off the old block?”

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Role of autologous serum in persistent epithelial defects

Poon et al.1 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 overlooked in the review process compromise the article’s broad contribution.

In Morlet et al’s2 attempt to detail “the use and limitation of vectors...for the analysis of change in astigmatism” (p 1127) they display an incomplete understanding of the subject. They have made a valiant attempt to assemble an extensive body of theoretical, clinical and contemporary references on a subject of significant interest, but key material has been omitted or misquoted. This has resulted in leading statements in the article, in both the body of the text and even the conclusion, that require re-evaluation and substantial revision.

The most obvious omission is the paper’s absence of any discussion of the difference vector, a precise measure of surgical change described in reference 70. When the difference vector is related to the treatment (that is, TIA or target induced astigmatism vector) one has an extremely useful relative value of surgical astigmatism treatment. Morlet et al. have overlooked this key vector entity and struggle to find any useful alternative. In sharp contrast Dr Doug Koch, editor of the Journal of Cataract and Refractive Surgery, in his editorial note, on the analysing astigmatism issue of January 2001 described the difference vector and the index of success as “remarkably useful and intuitive means of understanding the effects of the surgery.”

The authors state more than once for their principal foundation of the article that “Vector analysis alone does not provide any indication of the relative value of the surgical procedure” (p 1132). Their statement is erroneous, and the authors’ failure to discuss or dispute the value of the difference vector and index of success leaves the assertion unsupported and lacking credibility. If the surgical induced astigmatism vector (SIA) (one of surgical vector analysis) was the only product of vector analysis, indeed vector analysis would be a limited tool. This seems to be Morlet et al’s contention. This is far from the truth and as a result the restatement in the conclusion that “vector analysis does not give a measure of outcome” (p 1134) is factually inaccurate.

In addition, their interpretation that the off-axis effects of treatment at 45° to the surgical plane are deemed to be rotation, would more accurately be termed “torque,” the component of the SIA that has been ineffective in reducing astigmatism. The relevant reference describing flattening, steepening, torque, and effect of off-axis treatments has been omitted from the attempt at a comprehensive list of relevant published material. The phenomena of rotation and torque are fundamentally different physical processes. The polar value at 45° to the “surgical plane” (p 1131) quantifies the torque which causes an increase in the existing astigmatism associated with its change in orientation. It does not properly gauge the cylinder of the astigmatic entity and no concurrent change in the amount of existing astigmatism occurs. Rotation includes some associated flattening (or steepening) effect occurring as a result of the SIA. The article’s conclusion that “a better evaluation of the effect of astigmatism axis requires the use of the ‘by the rule’ or mirror equivalent axis notation, or by a manual scoring method to produce an outcome summary measure” (p 1134) is convoluted and unworkable. If implemented this would adversely affect the comprehension of astigmatism outcome analysis by the average ophthalmic or refractive surgeon.

It is unfortunate the reviewers of this paper did not direct the authors to these failings that merited revision. The statement “vector analysis is only valid in the early postoperative period” because “the healing process has modified the initial astigmatism” (p 1131) shows the authors’ failure to understand that the healing response cannot be divorced from the surgical process. It is part of it. The amount of astigmatism corrected (SIA/TIA) achieved would depend on the trends over time when examining aggregate data, and this phenomenon requires surgeons to examine outcomes facilitating adjustment of nomograms based on long term (at least 6 months) and not immediate outcomes. The later statement “the use of vector analysis over time is conceptually invalid, because unlike the initial surgical event, the wound healing process is continuous” (p 1132) is seriously flawed. Vector analysis is an essential component of this refinement process. In fact, vector analysis could be used to determine the astigmatic effect of the healing process itself by comparison of data at various stages in the postoperative period.

The recommendations promoted by Morlet et al. introduce greater complexity in a previously over simplified, over complicated subject. For example, mixing negative and positive cylinder notation is unnecessary. The technique put forward (p 1131 and equation 20) does not address the changes that occur in corneal shape as measured by keratometry and topography, and cannot be readily applied when targeting non-zero goals associated with incomplete or off-axis refractive astigmatism treatments.

It is probable that the authors are careless in raising phantom “problems” (p 1128) for planning techniques based on incorrect quoting of information (such as reference 33). The merits of this customised treatment technique are that refractive as well as keratomeric data are employed (contrary to its misrepresentation that the technique “only uses keratometric data for the planning of refractive surgery” (p 1128)).

Morlet et al’s unfortunate statement of opinion that “a lack of critical evaluation” has resulted in “the surgical management of astigmatism” (p 1132) is not shared by many experienced investigative surgeons in the field. This has been shown by its admitted prevalence by the authors, and the usefulness of vectorial analysis in understanding the surgical process. Indeed, many of the erroneous statements and omissions in the perspective article might lead one to ask where the “lack of critical evaluation” actually lies.

References

BOOK REVIEW

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 retina 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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NOTICES

Childhood blindness

The latest issue of Community Eye Health (No 40) discusses new issues in childhood blindness, with an editorial by Clare Gilbert, senior lecturer at the International Centre for Eye Health. For further information please contact: Journal of Community Eye Health, International Centre for Eye Health, Institute of Ophthalmology, 11–43 Bath Street, London EC1V 9EL, UK (tel: +44 (0)20 7608 6910; fax: +44 (0)20 7250 3207; email: eyeresource@ucl.ac.uk; website: www.jceh.co.uk). Annual subscription (4 issues) UK£25/US$40. Free to workers in developing countries.

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 diseases ranging from conditions that are relatively common to very rare syndromes. We also include groups who offer support of a more general nature to visually impaired and blind people. 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).

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 helpline (+44 (0)1280 860 363), which is a useful resource for any queries or worries relating to the problems retinitis pigmentosa can bring. This service is especially valuable for those recently diagnosed with retinitis pigmentosa, and all calls are taken in the strictest confidence. Many people with retinitis pigmentosa have found the Society helpful, providing encouragement, and support through the Helpline, the welfare network and the BRPS branches throughout the UK. (tel: +44 (0)1280 821 334; email: lynda@brps.demon.co.uk; web site: www.brps.demon.co.uk)

Singapore National Eye Centre 5th International Meeting

The Singapore National Eye Centre 5th International Meeting will be held on 3–5 August 2002 in Singapore. Further details: Ms Amy Lim, Organising Secretariat, Singapore National Eye Centre, 11 Third Hospital Avenue, Singapore 168751 (tel: (65) 322 8374; fax: (65) 227 7290; email: Amy_Lim@snecc.com.sg).

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).