Case of acute zonal occult outer retinopathy with altitudinal hemianopsia

Since the clinical entity of acute zonal occult outer retinopathy (AZOOR) was initially proposed, it has been noted that the visual loss may be misattributed to lesions in the optic nerve or central nervous system. Even with a likely visual field defect for those diseases—an afferent pupillary defect and reduced subjective central flicker fusion threshold—clinicians should be always aware of the possibility of AZOOR.

Case report
A 32 year old woman noticed a large scotoma in her right eye. She was examined by an ophthalmologist who found her corrected visual acuity to be 0.4 in the right eye and 1.0 in the left eye. She also had an afferent pupillary defect in the right eye. Goldmann perimetry showed a superior altitudinal hemianopic defect in the right eye (fig 1). Subjective central flicker fusion threshold was reduced in the right eye (18 Hz) and normal in the left eye (35 Hz). Ophthalmoscopic examination, fluorescein angiography, blood screening, and computed tomography were normal. Suspecting ischemic optic neuropathy (ION), a 5 day course of intravenous succinic hydrocortisone, 100 mg/day, was used but this treatment was not effective. The patient was then referred to us for further examination. Full field rod and cone electroretinograms (ERGs) were reduced in her right eye (about 50% of those in the left eye). Multifocal ERGs (mfERGs) recorded with the VERIS Science 4.0 system (Electro-Diagnostic Imaging, San Mateo, CA, USA) revealed reduced responses in areas corresponding to the visual field defect (fig 2). These findings led us to presume the diagnosis to be AZOOR. While we have followed her for approximately a year, no retinal finding has been observed and the visual defect has not changed.

References

Congenital optic nerve head pit associated with reduced retinal nerve fibre thickness at the papillomacular bundle

Congenital pits of the optic nerve head result from an imperfect closure of the superior edge of the embryonic fissure. An unequal growth on both sides causes a delayed closure of the fissure at approximately 5 weeks of gestation. Optic pits appear as crater-like

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Histological sections of optic pits define defects in the lamina cribrosa associated with rudimentary retinal tissue, resembling pigmented tissue and aberrant nerve fibres. These anomalous papillomacular nerve fibre bundles may be less resistant, predisposing this sector to spontaneous schisis-like retinal detachments during later life.1

We present a young patient with a unilateral optic disc and a clinically significant temporal nerve fibre loss. In vivo measurements by optical coherent tomography (OCT) determined the thickness of RNFL at the side of the pit and the corresponding papillomacular bundle.

Case report
A 27-year-old white woman presented with a 9 month history of blurred vision; her best corrected visual acuity was 20/20 right eye and 20/25 left eye. On Goldmann perimetry in both eyes, there were no visual field defects, accurate or paracentral scotomas. On slit lamp examination the anterior segment appeared normal in both eyes. Fundus biomicroscopy of the left eye revealed a large optic nerve head with a grey oval pit at the temporal margin and a brownish rim at the temporal side. The papillomacular bundle appeared to be darker, extending from the edge of the optic nerve to the macula. The superior and inferior quadrant of the optic pit was marked by a hyperpigmented margin. The oval pit at the inferotemporal side and is of the corresponding linear and circular OCT quadrant the main nerve fibres are visible. The blue arrows indicate the location and direction of the clock-wise perpendicular around the optic nerve with a diameter of 2.0 mm at the 4 o’clock position consistent with the location of the optic pit.

Figure 1 Fundus image of the left large optic nerve head with a horizontal diameter of 2.28 mm, vertical diameter of 2.09 mm, and area of 3.42 mm². The optic disc has a grey oval pit at the inferior-temporal side and is surrounded by a hyperpigmented margin. The papillomacular bundle appeared to be darker extending from the edge of the optic nerve to the macula. In the superior and inferior quadrant the main nerve fibres are visible. The blue arrows indicate the location and direction of the corresponding linear and circular OCT scans.

Figure 2 (A) Horizontal OCT scan of the temporal optic disc and the papillomacular region of the left eye. Fibroglial tissue membrane appears to overlie the vitreoretinal surface at the upper edge of the pit. The thick hyper-reflective band which is white to reddish in colour, corresponds to the retinal nerve fibre layer (RNFL). The reflectivity is elevated and the thickness is wider than normal. The standardised measurement of the RNFL determines a thickness of ≥200 μm at the edge of the optic nerve and 80 μm at 1 DD distance. (B) Horizontal OCT scan of the papillomacular region left eye. A less reflective and thinned hyper-reflective band in red and orange colours extends from the edge of the optic nerve to the fovea. The standardised measurement of the RNFL determines a thickness of 70 μm at the edge of the optic nerve and 5 μm at 1 DD distance. (C) Circular OCT scan of 3.4 mm diameter centred on the optic disc left eye. The cylindrical section is unfolded and displayed as flat cross sectional, two dimensional false colour image. The scan started nasally and measured clockwise perpendicular around the optic nerve with a diameter of 2.0 nerve head. Each b-scan consists of 100 individual A-scans (one thickness value for each 3.8 μm). The RNFL measurement determined a mean thickness of 112 μm in the superior quadrant, 90 μm in the temporal quadrant, 125 μm in the inferior quadrant, 64 μm in the nasal quadrant. There is a marked reduction in the RNFL to 48 μm at the 4 o’clock position consistent with the location of the optic pit.
Ocular ischaemic syndrome in thyroid eye disease, confirmed using magnetic resonance angiography

Ocular ischaemic syndrome (OIS) is most commonly caused by severe ipsilateral carotid artery stenosis. Occasionally it is caused by ophthalmic artery stenosis. Features commonly observed are iris neovascularisation, angle neovascularisation, rubecitic glaucoma, and iritis. In the posterior segment common signs are narrowing of the retinal arterioles, mid-peripheral retinal haemorrhages, optic disc pallor or neovascularisation and, rarely, retinal neovascularisation. Fluorescein angiography characteristically demonstrates delayed filling of the retinal circulation and occasionally patchy filling of the choroidal circulation is also observed. To the best of our knowledge OIS has not previously been described in thyroid eye disease. We report a case of OIS in thyroid eye disease confirmed by magnetic resonance angiography (MRA) and treated by orbital decompression.

Case report

A 48 year old woman with known thyroid eye disease presented with a 4 week history of pain, redness, and reduced visual acuity in her right eye. Eight years previously she had undergone bilateral three wall orbital decompression for severe corneal exposure. On examination visual acuity was counting fingers in the right eye and 6/9 in the left. There was bilateral lid retraction and mild generalised restriction of eye movements. There was bilateral proptosis measuring 24 mm in the right eye and 23 mm in the left (Keller exophthalmometer). A right afferent pupillary defect was present. Intraocular pressures were 50 mm Hg in the right eye and 20 mm Hg in the left. There was right corneal oedema, rubecitic iridis (Fig 1), and moderate anterior chamber activity. Gonioscopy showed an open, grade 2 angle (Shaffer’s classification) with rubecitic vessels present in the angle. Fundal examination was limited by the corneal oedema but no specific abnormality was identified. Examination of the left eye was normal.

Fluorescein angiography showed delayed filling of the retinal vasculature in the right eye relative to the left. Computed tomography scans of the orbits showed previous bilateral three wall orbital decompression and diffuse enlargement of extraocular muscles. Carotid duplex ultrasound examination was normal. An MRA of the orbits demonstrated that blood flow in the right ophthalmic artery was reduced. Blood flow in the left ophthalmic artery was normal (Fig 2).

The patient was admitted and treated with intravenous mannitol and acetazolamide and topical apraclonidine 0.5% and betaxolol 0.5% but intraocular pressure remained elevated at 29 mm Hg. A further right orbital decompression was performed (where the lateral orbital wall was removed as far posteriorly as the anterior wall of the middle cranial fossa and superiority to the floor of the anterior cranial fossa). Postoperatively the right propptosis measured 21 mm, the relative afferent pupillary defect resolved and the intraocular pressure was controlled (<20 mm Hg) with oral acetazolamide and topical apraclonidine 0.5% and betaxolol 0.5%. The corneal oedema resolved and the visual acuity gradually improved to 6/9. At the 3 month follow up postoperatively the rubecitic iris vessels had regressed. An MRA performed 4 months postoperatively demonstrated normal blood flow in both ophthalmic arteries (Fig 3).

Comment

Imaging methods available for evaluating the ophthalmic artery include duplex ultrasonography and cerebral angiography. Duplex ultrasonography is a non-invasive technique that gives quantitative information about flow; however, it requires an experienced operator and it is not always possible to positively identify the ophthalmic artery. Cerebral angiography is an invasive technique with the inherent risk of embolisation and stroke. MRA is a relatively new technique and has not previously been used to investigate disturbances of blood flow in the ophthalmic artery. It is non-invasive and does not require the level of technical experience required for Doppler studies. MRA detects blood flow at a defined velocity. In this case 25 mm/s was chosen as it has been shown in many studies using Doppler ultrasound to be the mean ophthalmic artery blood flow. The absence of signal from the right ophthalmic artery in the preoperative MRA demonstrates that at no stage during the cardiac cycle was blood flowing at this velocity in the artery. The images shown in Figures 2 and 3 are composites of all slices taken through the orbits. Hence it is not possible that one of the ophthalmic arteries could have been missed as a result of the orientation of any one particular slice.

Various abnormalities of the orbital circulation have been reported in thyroid ophthalmopathy. Blood flow in the superior ophthalmic vein has been shown to be reduced, or even reversed in some patients, Increased central retinal artery, ophthalmic artery, and retinal blood flow have also been demonstrated. Ischaemia of the optic nerve head has been postulated to have a role in the development of optic neuropathy in some patients with thyroid ophthalmopathy. However, to the best of our knowledge ophthalmic artery obstruction as a result of thyroid eye disease has not previously been described.

In summary, this case demonstrates for the first time, the ocular ischaemic syndrome as a result of ophthalmic artery obstruction in thyroid eye disease. Furthermore, it demonstrates the usefulness of MR imaging in evaluation of the ophthalmic artery.

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MAILBOX

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Providing it isn’t libellous or obscene, it will be posted within seven days. You can retrieve it by clicking on “read eletters” on our homepage.

The editors will decide, as before, whether to also publish the eletter as a mailbox in a future paper issue.

Silicone oil in diabetic vitrectomy

Castellarin and colleagues’ recount their recent experience of-infusing silicone oil in a small series of patients with advanced diabetic eye disease, either during primary vitrectomy (12 eyes) or after earlier surgery had failed (11 eyes). They compare their results with previous reports and conclude that silicone oil remains a useful adjunct in diabetic vitrectomy. However, their conclusions and historical comparisons are open to question.

Silicone oil was first used in primary diabetic vitrectomy in an era (1979–84) before the introduction of endolaser and the Landers’ double concave lens for phakic fluid-air exchange.1,2 Dealing with large or multiple posteriorly located breaks (whether pre-existing or iatrogenic) was problematic, and direct fluid/silicone oil exchange (by virtue of the optical advantages of oil over air in the phakic eye) provided a surgical escape route, obviating the need for vitreoretinal surgery. Furthermore, the clarity of the media immediately postoperatively facilitated the slit lamp delivery of focal laser in order to seal retinal breaks that had been closed by the internal tamponade and, in addition, the application of scatter laser to retauchted, untreated, ischaemic retina that had undergone deturgescence, in part through the “waterproofing” effect of silicone oil.3 All being well, the silicone oil could then be removed shortly thereafter, and some eyes that would undoubtedly have been lost were saved by the intervention of silicone oil in this way. Often, however, there were conceived problems, including not least the rapid development of reparative epiretinal fibrosis whereby the retina redetached under tangential traction and/or from reopening of retinal breaks.4,5 Sometimes huge areas of retinal disintegration eventually developed.6 Then, fibroglial proliferation appeared (both clinically and pathologically) to be particularly induced by clotted blood trapped between the silicone oil and the retinal surface or, ironically, by fibrin released as a retinal peril as the extensive scatter laser that was often needed to prevent highly vascularised membranes from prolifering behind the silicone oil.7,8

It was hoped that the so-called “compartmentalisation” of the eye by silicone oil (by which the retro-silicone oil neovascularisation was attributed) might in turn result in prevention or reversal of rheoibus iridis through its putative barrier effect against anterior diffusion of angiogenic substances derived from the ischaemic retina.9

Paradoxically, eyes with successful retinal reattachment (albeit with unabated ischaemia) often underwent rapid development or progression of iris neovascularisation,10 while those with failed surgery from post-operative rhegmatogenous recurrence of retinal detachment (and therefore eyes with an exaggerated angiogenic drive) had evidence of protection against neovascularisation, at least in the short term.11 Perhaps naively it was postulated that rhegmatogenous coneafion of the redetachment by intravitreal silicone oil (and the consequent 100% oil filling of the shrinking vitreous cavity) might allow an effective obstruction to anterior molecular diffusion to be established in these failed cases.12 Others had planned from the outset to employ silicone oil in their surgical protocol, not least for those diabetic eyes wherein earlier vitrectomy had been unsuccessful as a consequence of retinal reattachment13,14 or recurrent vitreous cavity haemorrhages.15 However, whether used during primary diabetic vitrectomy or secondarily, whether unpremeditated or planned, and whether infused by direct fluid/oil exchange or sequential fluid/air and air/oil exchanges, the possibility of silicone oil limiting rhegmatogenous redetachment despite peripheral retinal reattachment was always welcome, even if surgical “success” (that is, retinal attachment through 360 degrees) had strictly been denied.16-18

Nowadays, posterior retinal breaks and retinectomies can generally be managed successfully by employing wide angle viewing systems, heavy liquids, endolaser, and long acting gases. However, silicone oil continues to be infused during diabetic vitrectomy despite the attendant posterior segment and anterior segment complications that have been only partially mitigated by the improved quality of the silicone oil.4,19,20 The important question that thus arises is: what is the appropriate use of silicone oil in the diabetic eye in the modern era? Where retinal breaks might be closed just as readily using gas tamponade, or where rheoibus iridis might be reversed or prevented by retinal reattachment and/or a sufficiency of scatter laser photo-coagulation, the use of silicone oil might be described fairly as “gratuitous.” Exceptions might include anticipated posturing difficulties21 or the need for early visual rehabilitation in one eyed patients.4 However, recent reports documenting the use of silicone oil in diabetic vitrectomy have failed to provide clear criteria or explanation for any case selection.4,19,20 Only seven of the 23 eyes in Castellarin and colleagues’ series, for example, had retinal breaks (two pre-existing, four iatrogenic, and one retnectomy), so the need for prolonged internal break tamponade was presumably not an issue in the majority of their eyes.

More information is needed on the rationale for silicone oil infusion (not just the overall indications for surgery) in the remaining eyes in order to enable the potential benefits of this surgical adjunct to be assessed at this time. Furthermore, surgical success can really only be judged after a minimum of 6 months from the last vitrectoeretinal procedure,22-24 and that judgment should preferably include consideration of whether the silicone oil has been removed and the eye subjected, admission that surgical failure has occurred already. All these issues need to be borne in mind when making historical comparisons between case series and in defining the place in history for silicone oil in diabetic vitrectomy.

References

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into the anterior segment with corneal touch in one eye and because of cataract progression in the second eye. As one might expect, in all these aspects, this cohort of 17 eyes with at least 6 months’ follow up resembles the overall cohort of 23 eyes on which we reported.

The anatomical results of surgery among eyes with at least 6 months’ follow up are quite similar to those of the entire cohort although a lower reattachment rate occurred among eyes undergoing surgery after having failed previous vitrectomy (Table 2). After a single operation of pars plana vitrectomy (PPV) with membrane peeling and SOI, the retina was fully attached in 12 (71%) of 17 eyes with at least 6 months’ follow up. In the eight eyes that were operated for the first time with primary SOI, the retina was attached in seven (88%) eyes. In the nine eyes that underwent SOI after previously failed vitrectomy, the retina was attached in five (56%). The difference in the reattachment rate between these two groups was not statistically significant (Fisher’s exact test, p = 0.18) as was the case in the cohort of 23 eyes.

Among eyes with at least 6 months’ follow up, three of the five eyes with recurrent detachment underwent repeat PPV and SOI. The retina was reattached in two (40%) eyes. The third eye developed hypotony despite complete retinal attachment five months after SOI and underwent repeat surgery with additional SOI and epipillary dissection but became phthisical. The remaining two patients declined additional surgery. Therefore, with multiple operations employing PPV and SOI, the final anatomical success rate at last follow up was 14/17 (82%), which is close the final anatomical success rate (20/23 (87%)) we reported previously.1 With longer follow up, visual results were not as good as we reported initially (Table 3). Among eyes with at least 6 months’ follow up (and as noted in our initial report1), two (9%) had no light perception at last follow up (neither underwent scleral buckling). Both eyes had previous history of light perception. Loss of light perception was due to retinal and optic nerve ischaemia in each case. Preoperatively, the visual acuity of all patients ranged from light perception to less than counting fingers at 1 foot. Six months or more after surgery, three (18%) of 17 eyes had vision greater than or equal to 5/200. Among the entire cohort of 23 eyes, five (22%) had vision greater than or equal to 5/200.

Rubecus iridis was present preoperatively in seven (30%) of 23 eyes, three of which had neovascular glaucoma (NVG). The rate of NVG regression among eyes with at least 6 months’ follow up was the same as in the entire cohort (Table 4). The rate of rubecus iridis regression was greater than we reported initially (that is, 3/7 (43%)) because of continued regression of rubecus during the longer period of follow up (Table 4). Of the three eyes with NVG, one eye underwent Baerveldt valve placement with normalisation of the postoperative intraocular pressure. Five months after surgery, however, the eye developed hypotony. Subsequently, the valve was removed, and the eye underwent additional SOI. As noted above, however, the eye became phthisical. As reported initially, the NVG regressed after surgery in the second eye, and the third eye had NVG regression but no light perception postoperatively because of ischaemia. As noted in our initial report, only one eye developed de novo rubecus iridis.1 Among the 17 eyes with at least 6 months’ follow up, six (35%) had intraocular pressure ≤5 mm Hg. In our initial report, five (23%) of 23 eyes had intraocular pressure ≤5 mm Hg.1 Three of these six eyes had persistent retinal detachment, which we presume to be the cause of the hypotony. Among eyes with at least 6 months’ follow up, the remaining 11 (65%) had intraocular pressure ranging from 6–48 mm Hg, with four patients taking anti-glaucoma medications.

Intraoperative complications were not different among eyes with at least 6 months’ follow up versus the entire cohort of 23 eyes (Table 5). Postoperative complications differed in that there was an increased prevalence of cataract, hypotony, and silicone oil tamponade in the anterior chamber over time, which is not surprising.

McLeod suggests that in addition to using data from eyes with at least 6 months’ follow up, one should use the status of the fellow eye to judge surgical success. At the time of surgery, all fellow eyes had proliferative diabetic retinopathy (in addition to other vision threatening conditions) and had undergone full panretinal photoacoagulation (Table 6). Among patients with traction retinal detachment in the fellow eye, two underwent fellow eye surgery and one patient refused surgery (Table 6). Six (29%) of 21 fellow eyes were pseudophakic. Among the six fellow eyes with visual acuity ≤20/400, two had no light perception. Among the 21 patients we reported, the severity of disease in the fellow eye was such that two patients underwent PPV+SOI bilaterally, and results from both pairs of eyes were
owing to the severe nature of the proliferative
that silicone oil was needed in all these cases
severe eye disease.
 diabetic retinopathy on which we operated
indicated.
photocoagulation, and gas tamponade, when
retinopathy. We usually manage such cases
operation of eyes with proliferative diabetic
was in the remaining 16 eyes. It is not our
condition of fellow eye
Table 4 Regression of rubeosis iridis and neovascular glaucoma

<table>
<thead>
<tr>
<th>Condition</th>
<th>Eyes with &gt;6 months’ follow up</th>
<th>All eyes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubeosis iridis regression</td>
<td>5/7 (71%)</td>
<td>5/7 (71%)</td>
</tr>
<tr>
<td>Neovascular glaucoma regression</td>
<td>2/3 (67%)</td>
<td>2/3 (67%)</td>
</tr>
</tbody>
</table>

Table 5 Prevalence of complications

<table>
<thead>
<tr>
<th>Condition</th>
<th>Eyes with &gt;6 months’ follow up</th>
<th>All eyes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intraoperative retinal break</td>
<td>3/17 (18%)</td>
<td>4/23 (17%)</td>
</tr>
<tr>
<td>Silicone oil in anterior chamber</td>
<td>3/17 (18%)</td>
<td>3/23 (13%)</td>
</tr>
<tr>
<td>Cataract</td>
<td>3/17 (18%)</td>
<td>3/23 (13%)</td>
</tr>
<tr>
<td>Hypotony with attached retina</td>
<td>3/17 (18%)</td>
<td>3/23 (13%)</td>
</tr>
<tr>
<td>Fibrinoid reaction</td>
<td>1/17 (6%)</td>
<td>1/23 (4%)</td>
</tr>
<tr>
<td>New onset rubeosis iridis</td>
<td>1/17 (6%)</td>
<td>1/23 (4%)</td>
</tr>
<tr>
<td>Keratopathy</td>
<td>1/17 (6%)</td>
<td>2/23 (9%)</td>
</tr>
</tbody>
</table>

diabetic retinopathy as well as specific features of the case.
Specifically, rubeosis iridis was present in seven (30%) eyes, despite previous application of
substantial panretinal photocoagulation, and silicone oil was used to compartmentalise the eye and inhibit
progression of rubeosis iridis (Table 4). Among
six (26%) eyes with retinal breaks, silicone oil
tamponade was used because of the extensive
nature of the retinal breaks. Normally, we use
intraocular gas for this purpose. Five (22%)
eyes had traction retinal detachment and
anterior hyaloidal fibrovascular proliferation, and
silicone oil was used to help maintain a
more normal intraocular pressure and fore-
stall the development of phthisis. In two (9%)
eyes with the fibrinoid syndrome, silicone oil
was used to help maintain media clarity
under postoperative conditions. These
results indicate that even in the
modern surgical era, use of silicone oil can
improve anatomical (and functional) out-
come in selected cases.

References
Vitreectomy with silicone oil infusion in severe
Primary scleral buckle placement during repair of posterior segment open globe injuries

We read with interest the recent article by Arroyo and associates.1 They are to be commended on a very interesting study to compare the visual and anatomical outcomes of patients who underwent primary scleral buckle placement during posterior segment open globe repair with matched control patients who did not undergo primary scleral buckle placement.

Prophylactic scleral buckle of posterior segment open globe injuries has been a controversial topic in ophthalmology. The value of scleral buckling to support peripheral and especially inferior breaks is rarely disputed. However, the utility of using an encircling buckle in the absence of retinal breaks remains controversial.

The benefits of primary scleral buckle placement are that it is technically easy and there is no scarring between the wound and episcleral capsule and conjunctiva. However, there are some important considerations against primary scleral buckle such as the perforating injury subsequent rhegmatogenous retinal detachment (RD) is often not directly related to the site of the posterior exit wound but develops secondary to a new retinal break in the vitreous base region within 2 clock hours of the scleral wound.2 In addition, it is usually difficult to place a buckle over the exit wound and involves potential high morbidity (especially in the hands of an inexperienced doctor who usually receives the patient in the emergency room (at least in Venezuela)). To counter subsequent traction at the vitreous base, a vitrectomy may be just as effective as a prophylactic scleral buckle, avoiding the associated morbidity.1 If retinal incarceration occurs through the wound, secondary reconstruction must almost always be performed anyway, typically involving a scleral buckle and vitrectomy 10–14 days after the injury (when inflammation is under control, and the intracocular anatomical status has been assessed adequately).1

We believe that the results of the study by Arroyo and associates contribute to the understanding of the role of prophylactic primary scleral buckle in the treatment of posterior segment open globe injuries. Their impressive results suggest that the benefits of placing a prophylactic primary scleral buckle may outweigh the risks involved. A multi-centre randomised clinical trial is desirable to confirm their results.

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The authors have no proprietary or financial interest in any products or techniques described in this article.

References


NOTICES

Helping the blind and visually impaired

The latest issue of Community Eye Health (No 45) discusses help for the blind, with an editorial by Sir John Wall of the Royal National Institute of the Blind on the rights of blind people. For further information please contact: Journal of Community Eye Health, International Resource Centre, International Centre for Eye Health, Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, Keppel Street, London WC1E 7HT, UK (tel: +44 (0)20 7612 7964; email: Anita.Shahi@khtm.ac.uk; website: www.jech.co.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 volunteers to India. Details of their work 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)

SPECs (Specific Eye Conditions) 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 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 website is a valuable resource for professionals and may also be of interest to people with a visual impairment who are blind. For further details about SPECs and contact details: SPECs Development Officer (tel: +44 (0)1803 524238; email: k@eyeconditions.org.uk; website: www.eyeconditions.org.uk).

The British Retinitis Pigmentosa Society (BRPS) was formed in 1975 to bring together people with retinitis pigmentosa and their families. The principle aim of BRPS is 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)12180 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 seeintl@seeintl.org; website: www.seeintl.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 a cornea transplant for five years (1997–98) and 240 more people had their sight restored than the previous year. For further information see
Elimination 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, or a national blindness prevention committee to help implement the plan; (3) Implement the plan by 2007; (4) Include effective monitoring and evaluation of the plan with the aim of showing a reduction in the magnitude of avoidable blindness by 2010; (5) To 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.

Ophthalmic Anesthesia Society (OAS) — 17th Scientific Meeting

The 17th Scientific Meeting of the Ophthalmic Anesthesia Society (OAS) will be held 3-5 October 2003 at the Westin Michigan Avenue Chicago, Chicago, USA. Programme co-chairs: Marc Allen Feldman MD MHS and Steven T Charles MD. The CME joint sponsor is the Cleveland Clinic Foundation; CME hours are pending. Fees for OAS members are $300; non-members $475; students $50. Further details: OAS, 793-A Foothill Blvd, PMB 119, San Luis Obispo, CA 93405 USA (tel: +1 805 534 0300; fax: +1 805 534 9030; email: info@eyeanaesthesia.org; website: www.eyeanaesthesia.org).

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 5:00 pm at The Royal College of Physicians, London, UK. Further details: Ms Janet Flowers (email: glausoc@ukeire.freeserve.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 Annual Meeting of Iranian Society of Ophthalmology will be held on 29-30 November 2003 and 1-4 December 2003 respectively, at the Razi Conference Center, Hemmat Hyw, Tehran, Iran. Further details: Scientific programme: Prof Ingrid Kreissig, University of Tuebingen, Schleichstr. 12, Breuningerbau, 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, Labbafinejad Medical Center, Pasdaran Ave, Boostan 9, Tehran, 16666, Iran (fax: +98 21 254 9039; email: labbafi@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 submit your full mailing details to http://www.kenes.com/isopt/isopt04.htm. Further details: ISOPT Secretariat (website: www.kenes.com/isopt).

XVth Meeting of the International Neuro-Ophthalmology Society


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 Global 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/autoim2004).