Potential diagnostic dilemmas using the multifocal electroretinogram in intermittent exotropia

Multifocal electroretinography (mERG) is a valuable technique in assessing macular function in retinal disease objectively as it provides spatial information. Altered responses give an estimate of the extent of central retinal dysfunction. Fixation is almost centrally located (right peak). Trace array changes are seen in most hexagons (fig 1A). Amplitude reduction was observed in many left eye traces with an additional "off centre" peak also visible in three dimensional plot (fig 1B). These findings are not suggestive of MIDD. The mERG was repeated monocularly. The left eye findings now showed a normal central response and alterations in parfoveal function consistent with MIDD (fig 1A, B).

Subsequent orthoptic examination revealed a near type intermittent exotropia with poor motor fusion and additional microtropia. The latent deviation of the left eye was 2 prism dioptries base-in at 6 metres and 18 prism dioptries base-in at 33 cm. A small vertical height component was demonstrated on the Hess chart. Stereopsis was subnormal.

Comment

Patients with intermittent exotropia can be completely controlled having binocular vision or may have a manifest exotropia. Under binocular mERG stimulation, the left eye presumably fixated in exotropia at times of fusional decompensation, and the stimulus pattern shifted by the extent of the squint deviation. At times of positive binocular vision the fixation was located almost centrally. The fixation was slightly shifted because of the microtropia (fig 1B) which was not detected by direct observation. Examiners should always be aware that not only retinal disease can affect the mERGs. Asymptomatic strabismus is a reason for fixation instability and represents a potential dilemma in the interpretation of binocular mERGs. Even with direct observation a small intermittent strabismus may be not be detected. This could result in a broadened central peak rather than the double peak seen in our patient and thus be mistaken for macular dysfunction. This would be potentially disastrous in a patient with optic nerve disease where the mERG should be normal.  

(Images 232x124 to 505x242)

Figure 1 (A) Three dimensional plot (left) and trace arrays (right) of the right eye recorded binocularly. See text for details. (B) Left eye under binocular recording. On the three dimensional plot (left) the left peak is consistent with fixation in exotropia. At times of positive binocular vision the fixation is almost centrally located (right peak). Trace array changes are seen in most hexagons (right).
Furosemide is a potent diuretic which is an 4-chloro-N-furfuryl-5-sulfamoylanthranilic acid. Chemically, it is 4-chloro-N-furfuryl-5-sulfamoylanthranilic acid. Furosemide is indicated for the treatment of oedema associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome. Here I report a case of a diabetic patient, with nephrotic syndrome, who experienced marked improvement in diabetic macular oedema after systemic treatment with furosemide.

**Case report**

A 41 year old woman with type II insulin dependent diabetes mellitus was referred for decrease in vision in both eyes over the past 2 months. Besides the diabetes, her past medical history was positive for irregular menstrual cycle and gastroparesis. The patient had also noticed a gain in weight of about 30 lb (13.5 kg) over the same period of time, from 154 lb (69.3 kg) to 196 lb (89.3 kg). Three weeks later her vision had improved to 20/80 in both eyes. On fundus examination there was marked improvement in the macular oedema in both eyes. OCT examination confirmed the partial resolution of the macular oedema. The central retinal thickness measured by OCT was 290 μm in the right eye and 218 μm in the left eye (fig 2C, D).

Diabetic macular oedema is characterised by hyperpermeability of retinal blood vessels and subsequent formation of hard exudates and macular oedema, the degree of which can be estimated by measurement of retinal thickness. The severity and progression of diabetic macular oedema has been associated with the presence of nephrotic syndrome and to the degree of proteinuria. In a recent study, the authors demonstrated that diabetic macular oedema was significantly associated with nephrotic syndrome, while the degree of proteinuria was positively correlated with the severity of macular oedema.

**References**


**Partial resolution of diabetic macular oedema after systemic treatment with furosemide**

Furosemide is a potent diuretic which is an anthranilic acid derivative. Chemically, it is 4-chloro-N-furfuryl-5-sulfamoylanthranilic acid. Furosemide is indicated for the treatment of oedema associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome.

Here I report a case of a diabetic patient, with nephrotic syndrome, who experienced marked improvement in diabetic macular oedema after systemic treatment with furosemide.
retina fluid collection is secondary to a defect in a patient where the subneurosensory macular detachment especially osemide could worsen the presence of a with diabetic macular oedema. excretion rate in type II diabetic patients sence of an association between retinal study Knudsen et al demonstrated the presence of an association between retinal thickening as evaluated OCT, and glomerular leakage as evaluated by urinary albumin excretion rate in type II diabetic patients with diabetic macular oedema. Nephrotic syndrome is characterised by massive proteinuria, which leads to hyperproteinaemia/hypoalbuminaemia, hyperlipidaemia with elevated cholesterol, triglycerides and other lipids, and oedema. The oedema results not only from the hypo-osmolar state caused by the loss of plasma proteins, but also from abnormal salt and water retention. Furosemide is used in the treatment of fluid overload experienced by patients with nephrotic syndrome because it is a potent and rapid acting diuretic. It has been demonstrated that furosemide inhibits primarily the absorption of sodium and chloride not only in the proximal and distal tubules but also in the loop of Henle.

I reported what is, to my knowledge, the first case of marked improvement of diabetic macular oedema after systemic treatment with furosemide documented by OCT examination. I think that the fluid overload secondary to the nephrotic syndrome was the main cause of the worsening of the macular oedema in this patient, and that the intensive treatment with furosemide was responsible for reducing the amount of fluid overload and resolving the macular oedema. The exact mechanism of the action of furosemide in resolving the macular oedema is unknown. Tsuboi et al demonstrated that furosemide inhibits fluid absorption across retinal pigment epithelium (RPE) in an experimental model of retinal detachment in monkeys. According to their study furosemide could worsen the presence of a neurosensory macular detachment especially in a patient where the subneurosensory retina fluid collection is secondary to a defect in RPE pump. However, the FA study of this patient at presentation demonstrated multiple retinal microaneurysms at the posterior pole of both eyes and diffuse intraretinal microvascular leakage of dye in the late phase of the study. The FA study was consistent with the appearance of diffuse diabetic macular oedema. In such cases the intraretinal and subneurosensory retina leakage of dye is secondary to a microvascular retinal defect and not to a failure in the RPE pump. I think that restoration of more normal oncocytic pressure within the retinal vasculature was the underlying reason for the response to the drug of the diabetic macular oedema.

A P Ciardella
Denver Health Medical Center, Denver, CO. Rocky Mountain Lion Eye Institute, Aurora, CO, USA

Correspondence to: A P Ciardella, MD, Denver Health Medical Center, 777 Bannock Street, Mail code 0156, Denver, CO 80204, USA; Antonio-ciardella@dhha.org
doi: 10.1136/bjo.2004.042580
Accepted for publication 17 March 2004

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5 Knudsen et al demonstrated marked improvement in the macular oedema. There is almost complete resolution of the intraretinal cystoid spaces in both eyes. There is persistence of a small, shallow, subfoveal, serous, neurosensory detachment in the right eye.

Figure 2 OCT examination of the right eye (A) and of the left eye (B) demonstrates marked thickening of the macula and large, intraretinal, fluid filled, cystoid spaces. Note the presence of a serous elevation of the neurosensory retina in the right eye. (C, D) OCT examination of the right eye (C) and of the left eye (D) of the same patient after systemic treatment with furosemide for 2 weeks demonstrates marked improvement in the macular oedema. There is almost complete resolution of the intraretinal cystoid spaces in both eyes. There is persistence of a small, shallow, subfoveal, serous, neurosensory detachment in the right eye.

Vision loss as a complication of gamma knife radiosurgery for trigeminal neuralgia
Gamma knife radiosurgery has been found useful for treatment of trigeminal neuralgia (TN). Although it is generally safe and well tolerated by most patients, adverse effects have also been reported. Potential ocular complications include “dry eye” and “corneal numbness.” We describe a case of vision loss that occurred 9 months after gamma knife radiosurgery for TN.

Case report
A 68 year old man presented in September 2003 with 3 weeks of fluctuating blurred vision in the right eye. The blurring began 3 weeks earlier and had been preceded by complete numbness of the right side of his face for 1 week.

The patient’s medical history was remarkable for right sided TN that began in 1998, predominantly involving the V2 dermatome. It had been managed medically at first but eventually became incapacitating and led to hospital admission. In December 2002, he had undergone gamma knife radiosurgery (Leksell Gamma Knife; Elekta Inc, Norcross, GA, USA). The dose matrix grid was 0.6 mm and the right trigeminal root entry zone was targeted tangential to the brainstem. The prescription dose was 40 Gy to the 50% isodose line. A single run with a single shot (treatment time, 29.25 minutes) used a 4 mm collimator. Within days, the patient had clinically significant improvement in symptoms, was pain free, and required no pain medication.

The patient also had a history of chronic renal failure requiring dialysis three times weekly, hypertension, a myeloproliferative disorder, prostate cancer, and hyperlipidaemia. In 1998, he had resection of a left frontal lobe meningioma. His ocular history included bilateral cataract surgery but no history of herpes zoster or herpes simplex.

On initial examination, his vision measured 20/25 right eye and 20/25 left eye. Slit lamp examination of the right cornea revealed a fine punctate epitheliopathy (fig 1A). Corneal sensation, tested with a Cochet-Bonnet aesthesiometer (Luneau Ophthalmologie, Chartres Cedex, France), was absent even at a 5 mm filament length, both subjectively and by blink reflex. Sensation in the left cornea was present at a 60 mm filament length.

The patient’s vision gradually declined despite treatment with preservative free artificial tears and placement of a punctal plug in the right lower lid. Ten weeks after presentation, his vision measured 20/200 right eye and 20/25 left eye. Slit lamp examination revealed severe epithelial keratopathy in the right eye (fig 1B). Fourteen months after radiosurgery, 12 weighted magnetic resonance imaging showed increased signal intensity in the anterior aspect of the right fifth nerve (fig 2).

A punctal plug was placed in the right upper lid. The patient began using topical serum tears four times daily. Partial tarsorrhaphy was discussed with the patient but
Our patient had a vision loss to 20/200 associated with the onset of right sided facial numbness 10 months after low dose (40 Gy) gamma knife radiosurgery for TN. Although high dose radiosurgery (90 Gy) is a known risk factor for complications with gamma knife radiosurgery, the low dose our patient received has not been associated with such complications. Patients undergoing gamma knife radiosurgery for TN should be warned of this potential complication and should be evaluated preoperatively and postoperatively by an ophthalmologist.

Postoperative ultrasound confirmed no evidence of choroidal haemorrhage, and the vitreous blood cleared within 3 months to produce 6/6 Snellen acuity with aphakic contact lens correction.

There is a lack of adequate data on the risk of surgery associated ocular bleeding with COM. Clopidogrel taken alone causes less gastrointestinal haemorrhage than aspirin, but has an otherwise similar risk profile to aspirin.\(^2\)

Post-marketing surveillance of clopidogrel has recorded “conjunctival, ocular, and retinal haemorrhage.” Further information regarding these events, and whether they occurred during ocular surgery, was not available at the time of writing (November 2004).\(^3\) A detailed Medline literature search has produced no relevant ophthalmic case experience.

The CURE study found higher “major and minor” bleeding rates in patients taking COM compared with aspirin alone, but showed no increase in life threatening or intracranial haemorrhage, and does not record ocular haemorrhage. Of note is the significant increase in major bleeding events recorded in COM patients undergoing coronary artery bypass graft surgery where the clopidogrel was stopped less than 5 days before the procedure.\(^4\)

A February 2004 telephonic survey of nursing staff running cataract pre-assessment clinics in 15 ophthalmic units across the United Kingdom indicated variable anaesthetists’ approach to such agents. Individual consultants at three units stopped clopidogrel preoperatively. Twelve units continued clopidogrel; none had specific policy for patients on aspirin and clopidogrel. The related and relevant issue of anaesthetists’ approach to regional oculocutaneous anaesthesia in patients on such treatment was not addressed.

Translating the CURE study results into a “number needed to treat” approximately 47 patients with acute coronary syndrome would require treatment for 9 months with aspirin and clopidogrel to prevent one cardiovascular death, non-fatal myocardial infarction, or stroke.\(^5\) Stopping clopidogrel for a short period is therefore unlikely to make a material difference to the vascular event risk for an individual.

In summary, there is an increased risk of systemic bleeding associated with COM compared to aspirin alone. The degree of perioperative bleeding risk with elective eye surgery is still undefined. Our departmental policy has been changed to stopping clopidogrel for 1 week in patients on combination treatment given for cataract surgery, and to use a similar approach to that normally associated with the onset of right sided facial numbness 10 months after low dose (40 Gy) gamma knife radiosurgery for TN. Although high dose radiosurgery (90 Gy) is a known risk factor for complications with gamma knife radiosurgery, the low dose our patient received has not been associated with such complications. Patients undergoing gamma knife radiosurgery for TN should be warned of this potential complication and should be evaluated preoperatively and postoperatively by an ophthalmologist.

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employed for patients taking aspirin in those on clopidogrel alone. Other departments’ experience with this increasingly used antiplatelet agent would be valued.

B R Davies
Hull and East Yorkshire Eye Hospital, Fountain Street, Hull HU3 2JZ, UK

Correspondence to: B R Davies, Hull and East Yorkshire Eye Hospital, Fountain Street, Hull HU3 2JZ, UK; brynn.d@ukonline.co.uk
doi: 10.1136/bjo.2004.045997
Accepted for publication 11 March 2004

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The role of corticosteroids in fungal keratitis: a different view

Fungal infections of the cornea continue to be an important cause of ocular morbidity. This report describes a situation which occurs in clinical practice in patients with misdiagnosed fungal ulcers who are treated with a combination of topical steroids and antibiotics drops. A common strategy when these patients are finally diagnosed with fungal keratitis is to switch to antifungal agents and discontinue the corticosteroids. We have recently seen two patients with fungal keratitis who demonstrated severe inflammation and corneal necrosis after the abrupt discontinuation of corticosteroids.

Case 1

A 32 year old woman with a corneal transplant in her right eye was referred for evaluation of an unresponsive corneal ulcer in her transplant. The patient had been treated with a combination of moxifloxacin 0.5% drops hourly and prednisolone 1% drops four times per day. On initial examination there was a central stromal infiltrate with an overlying epithelial defect. The infiltrate had feathery edges reminiscent of fungal infection. The cultures had been taken up to this point. After cultures were taken the therapeutic regimen was switched to cefazolin 50 mg/ml and gentamicin 15 mg/ml while we discontinued the steroid drops. The clinical picture remained relatively unchanged during the next 48 hours. The preliminary culture results revealed fungal yeasts. We then started amphotericin 0.15% drops and fluconazole by mouth but the infection worsened over the next 2 days leading to descemetocele formation and perforation; the patient underwent an emergency keratoplasty.

Case 2

A 13 year old girl who was a soft contact lens wearer was referred for evaluation of a corneal ulcer. The patient had been treated for 2 weeks with cefazolin 50 mg/ml and tobramycin 0.3% on an hourly basis, prednisolone 1% five times per day, and ketoco-nazole 400 mg by mouth. On initial examination there was a diffuse central stromal infiltrate with the presence of an endothelial plaque and hypopyon. We performed confocal microscopy which showed hyphae characteristic of a fungal infection. After cultures were taken we modified the therapeutic regimen to fluconazole by mouth, natamycin 5 drops, cefazolin 50 mg/ml while we discontinued the steroid drops. The patient showed signs of worsening during the next 2 days; the cornea perforated and an emergency keratoplasty was performed.

Comment

The analysis of the previous cases suggests that in patients with fungal keratitis who previously received topical corticosteroids, the abrupt cessation of these agents is likely to lead to an acute inflammatory reaction and even perforation.

The proper use of corticosteroids in the treatment of fungal corneal infections continues to be debated among experts. The controversy arises because there are two goals in the treatment of corneal infection that are inherently incompatible: (a) to rid the affected tissue of the replicating microorganisms causing the infection, and (b) to limit the degree of structural damage caused by the infectious process.

We recommend a gradual tapering of the corticosteroids in these cases which allows for the antifungal agents to act, and the host immune mechanisms to take control of the inflammatory response. However, clinical application in patients should be determined individually in all cases.

V Peponis, J B Herz, H E Kaufman
Louisiana State University, 2020 Gravier Street, Suite B, New Orleans, LA 70112, USA

Correspondence to: Dr Vasileios Peponis, Louisiana State University, 2020 Gravier Street, Suite B, New Orleans, LA 70112, USA; pepboas@yahoo.com
doi: 10.1136/bjo.2004.047423
Accepted 31 March 2004

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Authors’ qualifications and the BJO

It is not often that journal policy is dictated by input from the readership. A notable exception to this probably occurred in the ANZ Journal of Surgery in 2002, following a letter to the editor in 2001 addressing authors’ qualifications.

In our paper we pointed out that journal aspirations to international recognition and increased circulation may be enhanced by having the authors’ qualifications consistently published. We indicated that the qualifications of one’s scientific associates and colleagues, including departmental heads where one may have trained overseas, can be recognised. The educational progress of one’s colleagues—for instance, a clinician’s higher qualifications (for example, PhD) may be determined. We pointed out that the reader can determine whether the author is in effect a qualified ophthalmologist, a resident, or still a medical student. In some parts of the world, the rivalry between optometrists and ophthalmologists may be highlighted by one group publishing in the other journal. Thus, qualifications may be used to discriminate between the two groups. Where the qualification discriminates between physicians and surgeons, this too can be recognised. In these days of enhanced medicolegal confrontation, a medical practitioner’s viewpoint can be differentiated from that of a lawyer.

Finally, the role of the co-author is fundamental if author qualifications are designated, the reader may be quite sure that the article was not written by the medical records librarian, let alone the hospital trolley boy in a moment of inspiration.

We have observed that in recent issues of the BJO, there appears to be an inconsistent approach to appending qualifications. Only the corresponding author is liable to be given a qualification; the first author usually goes without. For example in volume 88 number 5 (May 2004), in the perspective, only the corresponding author, Azeura-Blanco writing on cannabinoids and glaucoma received a qualification.

In the extended reports, only Miyamoto on oil droplets in rabbits, Shaarawy on day one intraocular pressure, Orgul on blood flow in glaucoma, and Probst on fibronectin in diabetes received recognition that the authors of all the other extended reports missed out. In other words, in this issue of the journal, only one third of the corresponding authors, let alone the co-authors of extended reports, received qualifications. No one in the letters section was designated with a qualification. None of the three editorial writers received a qualification. We are left wondering as to whether Professor König, writing on the cost effectiveness of treatment for amblyopia, was a paediatric ophthalmologist branching out into community medicine, a medical politician, a health economist, a statistician, or a psychologist having a PhD. Whatever he is, he reached a reassuring conclusion in his article that amblyopia therapy is “likely to be very cost effective.”

We also do not know whether Schwab, writing about the “Halcion days,” with the university affiliation of UC Davis, was an artist, the university photographer, an ornithologist, an anthropologist, or a Greenpeace volunteer. His article on postoperative leak in trabeculectomy, Henderson can be recognised as a surgeon by the British appellation “Mr.” We thus presume he has an FRCS or an FROrth, but we don’t really know.

Our point is made. As we demonstrated in our original article, 89.5% of the 19 journals regularly read by us use author qualifications.
Mohs surgery: efficient and effective

We read with interest the report of Hsuan et al.1 We read with interest the report of Hsuan et al.1 We wish to take the opportunity to clarify a few points.

The authors state that Mohs surgery is “too expensive.” This statement is unsubstantiated. In a cost analysis by Cook and Zitelli,2 Mohs surgery was found to be similar in cost to excisional surgery and less expensive than frozen section analysis. With three potential operative encounters, the cost of staged excision of basal cell carcinoma in the United States would exceed that for Mohs micrographic surgery with reconstruction on the same day. It is also important to note that the pathological charges are included in the Mohs surgery fee, as the Mohs surgeon functions as both the surgeon and pathologist. Therefore, pathology charges generated for multiple staged re-excisions must be included in any calculation of cost associated with staged excision.

The authors characterised Mohs surgery as “laborious.” I would argue that one doctor performing a very efficient tissue sparing operation all in a matter of 2–4 hours, a typical duration for Mohs surgery and reconstruction, with the pathology included within that time frame and fee, is both cost efficient and labour efficient. Mohs surgery has been especially designed for accuracy, tissue sparing, convenience, cost efficiency, and labour efficiency.

Mohs surgeons are expert in the complete removal of complex skin cancers, particularly on the central facial area. Mohs surgeons work closely with our colleagues in occlusal plastic surgery in the United States to coordinate expert reconstruction of the resultant defects. In places where Mohs surgery is less available, close communication between the surgeon and pathologist, and tangential vertical margin processing may offer a reasonable therapeutic option, although one that is more inconvenient, costly, and laborious for patients and physicians alike.

C O Otley
Mayo Clinic, 220 1st Street SW Rochester, MN 55905, USA; otley.clark@mayo.edu

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G D Galloway, A Ramsay, K Jordan, A Vivian
Addenbrooke’s Hospital, Cambridge, UK

References

LASIK in children?

O’Keefe and Nolan report on LASIK surgery in five children with unilateral high myopia who were presumed to have amblyopia.3 One subject had bilateral high myopia.
Optic nerve hypoplasia is associated with high myopia. In addition, anisometropic myopia is a common sequel of retinopathy of prematurity. Thinning of the sclera with posterior staphyloma formation has long been known to be associated with high myopia. Best corrected visual acuity in these patients is often limited by associated retinal and chorioretinal pathology. None of the treated eyes obtained acuity better than 6/15. This limited outcome following refractive surgery may be because optical enlargement of the retinal image rather than enhanced neurosensory function.

In the three children who were less than 3 years old improved literacy, familiarity with the test procedure, and the Hawthorn effect were certainly important factors in their assumed improvement. The absolute lack of progress in one child was a probable manifestation of pre-existing retinal pathology rather than non-compliance with patching. 4

The authors advocate increased use of LASIK to thin the corneas of highly myopic children who already have profound reductions in scleral thickness. “From a clinical viewpoint, optic nerve hypoplasia should be carefully looked for in all patients with unilateral bilateral high myopia and visual loss.” 4 It may well be more appropriate to improve the quality of retinal and optic nerve evaluations before performing irreversible surgical procedures with unknown long-term consequences for these abnormal eyes.

P Lempert
Cornell University, School of Veterinary Medicine, 10 Bremtwood Drive, Ithaca, NY 14850, USA; eyecharptplus@aol.com
doi: 10.1136/bjo.2004.042853

Accepted for publication 22 January 2004

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Corrections

doi: 10.1136/bjo.2003.035931.cor1

In the paper titled The severe acute respiratory syndrome coronavirus in tears (Br J Ophthalmol 2004;88:861–863) H-N Leong was not listed as an author. The authors should have been listed as, S-C Loon, S C B Tseh, L E L Oon, S-Y Se-Thoe, A E Ling, Y-S Leo and H-N Leong. The journal apologises for this error.

In the letter titled Prospective case control study on genetic association of apolipoprotein e2 with intraocular pressure (Br J Ophthalmol 2004;88:581–582) the authors were listed incorrectly. The correct listing is as follows: A Jünemann, S Bleich, U Reulbach, K Henkel, N Wacki, G Beck, B Rautenstrauss, C Mardin, G O H Naumann, A Reis, J Kornhuber. The journal apologises for this error.

NOTICES

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: 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: autoimm04@kennes.com; website: www.kennes.com/autoimm2004).

XVI International Congress for Eye Research

The XVI International Congress for Eye Research will be held on 29 August – 3 September 2004 in Sydney, Australia. For further information, please contact:icer2004@tourhosts.com (website: www.tourhosts.com.au/icer2004).

Ophthalmic Anesthesia Society

The 18th Annual Meeting of the Ophthalmic Anesthesia Society will be held on 1 – 3 October 2004 in Chicago, USA. For further details: Ophthalmic Anesthesia Society (OAS), 793-A Foothill Blvd, PMB #119, San Luis Obispo, CA 93405 USA (tel: 001 805 534 0300; fax: 001 805 534 9030; email: info@eyeanaesthesia.org; website: www.eyeanaesthesia.org).

Glaucoma Society Silver Jubilee Meeting 2004

The Silver Jubilee Meeting and Dinner for the Glaucoma Society will be held on 3 December 2004 at the Royal College of Physicians in Regents Park, London. The meeting will take place between 8.30am and 5pm and the dinner will be held between 6.30pm and 10pm. For further information, please contact: Janet Flowers, Administrator, 29 Quarry Hill, Grays, Essex, RM17 5BT (tel: 01375 383172; e-mail: glaucom@uakeire.freeserve.co.uk).

Amsterdam Retina Debate

The Amsterdam Retina Debate will be held on 10 December 2004 at the Academic Medical Centre, Amsterdam, The Netherlands. For further information, please contact: Nicolas Reis, Tulp Institute; tel: +31 20 566 8585; fax: +31 20 696 3228; email: retinadebate@amc.uva.nl

Sunshine Fund for Blind Children

The Royal National Institute of the Blind are permanently in great need of new, used, foreign, British and all other kinds of postage stamps. The stamps are sold to raise money for children in need of specially adapted toys and everyday gadgets, help with parents and the any other needs of blind and partially sighted children throughout the UK. Please send stamps (British and foreign stamps should be sent in separate envelopes) to the following address: RNIB, PO Box 6198, Leighton Buzzard, LU7 9XT.

Prestigious Helen Keller Foundation prize awarded to one of London’s most eminent ophthalmologists

Professor Alan Bird, Institute of Ophthalmology, University College London and Consultant Ophthalmologist at Moorfields Eye Hospital NHS Trust, has been awarded one of ophthalmology’s most prestigious prizes, the Helen Keller Prize for Vision Research. The prize was created in 1994 by the Helen Keller Foundation for Research and Education, based in the USA, and honours the scientists and researchers working in the field of blindness and visual loss. Professor Bird is one of the world’s leading experts on age related macular degeneration (AMD), inherited macular degeneration and Retinitis Pigmentosa (RP), and has led research into the identification of the genes which cause retinal degeneration. As well as his scientific research, Professor Bird also continues to treat patients at regular clinics at Moorfields Eye Hospital. Further information on Moorfields is available at: www.moorfields.nhs.uk. Further information about the Helen Keller Foundation is available at www.helenkellerfoundation.org. Further information on the Institute of Ophthalmology is available at www.ucl.ac.uk/ioo.

Sophie sees sight saving projects in Tanzania with VISION 2020

HRH The Countess of Wessex has recently returned from a trip to Tanzania in her role as Patron of VISION 2020: The Right to Sight. Throughout the trip The Countess met with representatives of and visited projects supported by VISION 2020 Partners, including Sight Savers International (SSI), Christian Blind Mission (CBM), International Eye Foundation, International Trachoma Initiative (ITI), Helen Keller International (HKI), International Centre for Eye Education (ICEE), the SEVA Foundation and the Kilimanjaro Centre for Community Ophthalmology (KCCO). VISION 2020: The Right to Sight is a global initiative of the International Agency for the Prevention of Blindness (IAPB) and the World Health Organization (WHO), with a coalition of international Non-Governmental organisations. VISION 2020 aims to eliminate unnecessary blindness in order to give all children in particular the millions of needlessly blind, The Right to Sight. For further information, please visit www.v2020.org.