Manschot's comments on psychological wellbeing after local resection can only be speculative, because as a pathologist he could not have met many patients treated conservatively, let alone by local resection. Loss of an eye is a significant psychological trauma for most patients and recent studies indicate that quality of life after plaque radiotherapy is superior to that after enucleation, despite the need for follow up (V Brandenburg, E Kock, S Seregard, A F Trampe, Psychological consequences of chordoidal melanoma, JERMOV 1995, personal communication). Our patients have selected local resection in preference to enucleation after being fully informed of all the risks and expected outcomes and are therefore highly motivated. Our impression is that very few of these patients express regret about taking this decision, even when complications occur. Nevertheless, formal quality of life studies are necessary and, indeed, are in preparation. These will take into account not only visual acuity but also the visual field, which is often more useful if the fellow eye is healthy.

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Indications for trans-scleral local resection of uveal melanoma

Editor, — In his recent editorial,1 Shields criticises us for not including our indications and contraindications for local resection of uveal melanoma. Our indications and contraindications are, indeed, different from his and we thought it would be useful to itemise them as follows:

(1) A large tumour thickness and secondary retinal detachment complication radiotherapy but facilitate local resection. Ruthenium plaque radiotherapy is contraindicated for tumours more than 5 mm thick and, with larger tumours, iodine plaque radiotherapy and charged particle radiotherapy have a high complication rate.2 3 Our main indication for local resection, therefore, is a tumour size deemed excessive for radiotherapy.

(2) A tumour is not inoperable just because it has a large basal diameter (>15 mm). Statistical studies show that large diameter is not an independent risk factor for visual loss.4 There is an increased risk of local tumour recurrence, however, so that special precautions, such as wide clearance margins and adjunctive treatment, are necessary.5 Although there is an increased probability of metastatic disease,6 this is no worse than after enucleation.7

(3) Tumour extension to within one disc diameter of the optic disc is not a contraindication. Although the risks of local tumour recurrence,7 retinal detachment are increased, both of these complications are usually preventable and, unlike Shields, we do not consider local resection to be ‘a time consuming procedure which requires more complicated postoperative care.’ The procedure is usually completed within 3 hours, depending on the size of the tumour and the flap, and is often done with many vitreoretinal procedures. Patients return to a general ophthalmic ward after about 2 hours in a recovery suite. They are mobile on the first postoperative day and are allowed home on the third postoperative day. Subsequent follow up is the same as for any other form of conservative therapy for uveal melanoma.

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Reply

Editor,—In their response to my editorial, Damato and Foulds state that I criticised them for not publishing their indications and contraindications for local resection of uveal melanoma. I re-read the editorial and I do not believe that I was critical. I am sure that Drs Damato and Foulds are aware of my admiration for their pioneering work. However, since they had not mentioned their indications, I felt it would be appropriate to summarise for the readers of the BJ O what I believe to be the current relative indications and contraindications for local resection based on our personal experience. In the editorial I stated that my comments regarding the indications ‘represent a personal viewpoint that may differ somewhat from that of Damato and associates.’1 I also stressed that our indications and contraindications were relative ones and there are no absolute rules.

I find that our differences are minor but they do warrant further comment, based on our personal experience.

(1) My colleagues and I agree that tumours with greater tumour thickness and secondary retinal detachment can be successfully resected and that retinal detachment may actually facilitate the procedure. However, we do not agree that thicker tumours of the ciliary and choroidal body have such a high complication rate following plaque radiotherapy. The main complication is cataract but the ophthalmologist can remove a cataract with relative ease in the postoperative period. Provided that there is no significant posterior radiation retinopathy, cataract is certainly a common problem after local resection as well. We have treated with plaque radiotherapy two cataract patients with choroidal body tumours greater than 3 cm with satisfactory results and we are generally happy that we did not attempt to resect the tumours. After plaque radiotherapy for peripheral melanomas, the visual acuity usually remains...
good for many months and the patients do not have the visual loss that is often present following resection or large ciliary body tumours. When the tumour is too large to resect or irradiate without profound visual loss, enucleation is preferable.

(2) We agree that some tumours with basal diameter greater than 15 mm can be resected with good results. However, as basal tumour diameter increases, the more expected visual outcome is generally worse.

(3) Our experience suggests that transpupillary thermotherapy2 (Shields CL, Shields JA, De Potter P, Kheterpal S, Transpupillary thermotherapy in the management of choroidal melanoma, submitted), plaque radiotherapy3 (De Potter P, Shields CL, Shields JA, Cater JR, Brady LW, Plaque radiotherapy for juxta-papillary choroidal melanoma. Visual acuity and survival outcome, submitted), or enucleation, depending on tumour size and other factors, are generally preferable to local resection for tumours that extend to within 1 mm of the optic disc. Although radiation papillopathy can occur after plaque radiotherapy of juxta-papillary melanoma, it generally causes no more visual loss than local resection.

(4) We believe that plaque radiotherapy is preferable for juxtafoveal or subfoveal melanoma. The visual loss is usually more gradual and not as severe as with resection, which leads to immediate and profound visual loss.

(5) We agree that retinal invasion is not an absolute contraindication to resection.

(6) We agree that a small degree of extrascleral extension of melanoma is not an absolute contraindication to resection. However, we have had considerable experience and good results with plaque radiotherapy for uveal melanomas with extrascleral extension.

(7) We agree that older age is not an absolute contraindication to resection, but we are generally reluctant to perform resection in very old patients who are in poor general health.

(8) We agree that diffuse melanomas should often be managed by enucleation. However, we have recently reviewed our experience and found that many early diffuse choroidal melanomas can be successfully treated with plaque radiotherapy.

(9) We agree that tumours that involve more than a third of the pars plana should generally not be managed by resection. However, we are not as pessimistic concerning the results of radiotherapy in such cases, as suggested above.

(10) Optic disc involvement by melanoma is generally a contraindication to local resection. However, some juxta-papillary melanomas can be treated successfully with plaque radiotherapy.

(11) We agree with their systemic contra-indications.

(12) We agree that local resection of uveal melanoma should be done by competent surgeons who have had training and experience with this difficult technique.

(13) Compared with plaque radiotherapy, thermotherapy, and enucleation, local resection is definitely a more time consuming procedure and usually much more postoperative care. Because of the increased potential for prolonged vitreous haemorrhage, vitreoretinal traction, and retinal detachment, the postoperative care is more detailed and may require additional surgical procedures.

As indicated above, my colleagues and I have great respect and admiration for Drs Damato and Foulds and we believe that their continued contributions will ultimately benefit patients with posterior uveal melanoma. However, we must be cognizant of the fact that no two melanomas are exactly alike and each case must be individualised. In selected cases, radiotherapy, thermotherapy, or enucleation may be preferable to local resection, depending on the overall clinical situation and the preference of the informed patient.

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BOOK REVIEWS


That this is the 14th edition of this text is testimony to its popularity. As ever, it succeeds in encapsulating the spectrum of knowledge required of a student although it may be useful as an undergraduate reference text. The illustrations are clear but clinical photographs are not in colour and of relatively poor quality. This detracts minimally from the text. Unlike many other comprehensive texts this book has useful chapters on such topics as anatomy and embryology, genetics, preventive ophthalmology, lasers in ophthalmology, and commonly used eye medication. The chapter on neuro-ophthalmology has been significantly revised and there have been major changes to other chapters, thoroughly updating the text. For those seeking further information there are key references provided at the end of each chapter.

S T D ROXBURGH


The author of this short text on intraocular lens power calculations has a long standing interest in ophthalmic ultrasound and biometry. The first three chapters describe the formulas which are, or have been, used in intraocular lens power calculations. Some of this may be beyond the needs of those who are not mathematically inclined but it is interesting to see how the early theoretical formulations were superseded by regression formulas (SRK I and II). Now there is a swing back to theoretically sound formulae as surgeons strive to achieve greater accuracy in the prediction of postoperative ametropia.

The technique of axial eye length measurement is described with proper emphasis on the pitfalls which can trap the unwary relying on automated biome. There is a short section on keratometry which includes a discussion on the assessment of the eye which has undergone photorefractive keratotomy or laser in situ keratomileusis. The two final chapters discuss the selection of the most appropriate intraocular lens power for the individual patient and the reasons for the unexpected postoperative refractive error.

While some of the detail in this book is controversial, it would be a useful source for those non-medical personnel undertaking biometry and any ophthalmologist who is occasionally disappointed by an unwelcome postoperative refraction.

R C BOSANQUET


A new era of continuing medical education has started and there isn’t any better form of CME than to sign up and browse through this excellent book. The value of this book is in stimulating the recapitulation of information acquired elsewhere: one recruits to one’s reading vastly more than is bound within this book.

Principles and Practice of Ophthalmology by the same editors was judged by the Association of American Publishers to be the outstanding medical text of 1994—surely correctly in my view. This atlas contains over 1600 pictures from that six volume set, and many of them are in three, four, or five parts. The scope of the contents is therefore unprecedented for an atlas. The illustrations are superb, with scarcely a single exception. Figure legends are helpful and succinct. In short, the entire volume is simply magnificent.

The organisation of the atlas is good in two respects. Different phases of a single case history are presented as a group showing early, late, and treated stages; and, secondly, important clinical differential diagnoses are juxtaposed—lymphoma of the lacrimal gland against pleomorphic adenoma, dysplastic naevus of the retina against retinoblastoma, for example, and a whole panel of photographs illustrates and compares different neuro-degenerative diseases of the retina. This is a very helpful feature throughout the book, and if that means there is occasional duplication of material, so be it.

The other main theme in this atlas is the depiction of pathology of clinical material side by side. Indeed, it constitutes a superb clinical-pathological conference. The spectrum of histopathology, gross specimens, scanning and transmission electron microscopy, microbiology, immunohistochemistry, cytology, and radioimaging which is used to illustrate the clinical material here is amazing and entirely