Book reviews


This volume is the latest in a continuing series on contemporary ophthalmic subjects. Four chapters are concerned with retinoblastoma, the morphology of the corneal endothelium, the non-visual control of ocular movements, and the reaction of the retina to intensive light.

The discussion on retinoblastoma by Bedford reviews current ideas on the natural history and management of these tumours, and the author concludes with a summary of his recommended therapeutic regime for different types of presentation.

The remaining three articles are in German, one sadly without an English summary. Schierbölter and Honegger present some of their work on corneal endothelium under physiological conditions and after mechanical damage, and the morphological changes occurring in regenerating endothelial cells are described in detail with excellent illustrations. The physiology of the non-visual control of eye movements is discussed by Korner with a presentation of experimental data on saccadic movements in human subjects and optokinetic responses in animals. Finally, Wallow and his co-workers describe the effects of intense light from argon and helium lasers and the xenon arc photocoagulator on the retinas of experimental animals. The ophthalmoscopic and histological threshold doses are correlated, and an attempt is made to relate tissue damage to loss of function. Using this information certain safety thresholds are suggested for man for intense light in the visible spectrum.

The four articles are fully representative of the high standards set by the editors in this series of volumes. But once again this policy of multilingual presentations that characterizes Advances in Ophthalmology must be criticized. The average English ophthalmologist does not have a working knowledge of technical German and therefore only one of the four articles in this volume will be informative, and at a cost of over £20 that is a high price to pay even in these inflationary times.

T. J. Ffytche


When the late Deane Judd first published this book 23 years ago it was something of a landmark. Dr G. Wyszecki became his partner for the second edition, and has now had to shepherd the third through the press on his own, and is looking to the need for a fourth 'in about 10 years' time'.

The material has been brought up to date in a competent and relaxed manner, the latter being particularly commendable in a topic frequenly as dry as colorimetry. There are many new and helpful illustrations, but some of the older ones were old even in the first edition, and Chapter 1 could do with a new look. This edition more than the earlier ones, attempts to come to grips with fundamentals and offers much useful information on relatively new fields, such as colour television. The reader will find that the approach is very much that of a physicist; for instance it overlooks that if an older person is exposed to Standard Illuminant C the visual effect may be the same as that of Standard Illuminant B on a younger person: the conclusion that extraocular standards are of limited value remains to be drawn. Apart from such small details the new edition enhances the authority of the earlier ones as a standard work in this abstruse field, and can be recommended without reservation both as a text and as a source book.

R. A. Weale


This book is a collection of papers given at a symposium in Aalborg, Denmark, commemorating the 100th anniversary of the birth of August Krogh. Krogh, the 1920 Nobel prize-winner in medicine and physiology for his work on the physiology of capillaries, became acquainted with Best's and Banting's researches on insulin during his visit to Toronto in 1922, and on his return to Denmark, he pioneered the development and production of the hormone.

Of the eight papers contained in the book the last three, by Jorn Ditzel and Eberhard Standl on problems of tissue oxygenation in diabetes, live up to the outstanding tradition of their compatriot. They lead the reader through the intricate cytological and enzymatic complexities of diabetic microangiopathy with unwavering lucidity. The problems of blood flow volume, viscosity, erythrocyte oxygen binding capacity, haemoglobin variations, and changes in glycolytic processes in the retina which depend on the phosphate levels in the blood, are just a few problems considered and beautifully explained. Ditzel's 'three in one' hypothesis on the mechanisms of diabetic retinopathy revolves round the role of phosphorus ions in production of 2-3 diphospho glyc erate by the erythrocyte which in turn regulates the affiliation of oxygen to haemoglobin. The increase of 2-3 diphospho glyc erate enhances the oxygen availability to the hypoxic diabetic retina. If giving phosphate dietary supplement to young diabetics will prevent or influence development of retinopathy has yet to be proved, the exposition in bringing forward a fascinating array of information marshalled in such a way that is bound to stimulate ophthalmologists con-
cerned with diabetic retinopathy will confront these concepts with their own ideas heavily influenced by information from fluorescein angiography. While the authors discuss the delicate minutiae of capillary-tissue oxygen delivery systems, in a strange way the crudities of photococagulation therapy, inflicted on the diabetic retina by the clinician, may seem less embarrassing and more logical.

The other five papers are on the impact of August Krogh on the insulin treatment of diabetes and our present status (Poulsen), autoregulation of the microcirculation (Crone), blood oxygen transport system (Garby), the ophthalmoscopic and fluorescein angiographic picture of diabetic retinopathy (Larsen), and dynamic changes in the microcirculation of diabetics as related to diabetic microangiopathy (Kohner).

They are competent and informative reviews and the book as a whole is very much worth reading.

R. Rubinstein


This collection of papers from the annual symposium reflects the continuing development of visual electrophysiology. Founded to provide a forum for research workers and clinicians interested in electro-retinography it has assimilated newer techniques of retinal and cerebral studies. The increasing importance of the visually-evoked response is reflected in the number of papers.

The standard of the contributions is variable. This is because in order to attend the symposium the delegate has to present a paper and it has been the society's policy to publish all such contributions. The official language is English and many of the translated papers are less fluent.

The result is a useful review of this rapidly developing field. The book will be of value to both clinicians and research workers involved in visual electrophysiology but it will be of little interest to most ophthalmologists.

J. H. Kelsey


That this book should now have reached its seventh edition shows how useful it is for practitioners. It is also an excellent book for the medical student, being of convenient size, beautifully produced and illustrated, clearly written, and it has a well chosen and balanced content.

As is always the case with revision some new material has been added and other chapters have been modified while a few nostalgic hints of its past still linger—such as, the advice to the general practitioner to paint the conjunctiva with 1 per cent silver nitrate in cases of conjunctivitis which have lasted several days, and if an eye is red and irritable from a foreign body to instil atropine, advice which the author clearly does not like giving, as having given it he promptly says 'it should be avoided if possible'.

There are one or two minor points on which a future edition might perhaps with advantage be slightly altered, such as the advice to the general practitioner to pass a fine probe into the lacrimal passages in cases of injury near the inner canthus: this seems rather much for the average general practitioner to take on. Another is the slightly irritating repetition, at the foot of the first page of every chapter in part one, of reference to the fact that a drawing of the whole eye is given in Fig. 1. A third point the author might consider looking at for future editions is the rather stereotyped and surely obsolete implication that macular degeneration is due to arteriosclerosis.

I very much liked the optical diagrams, and admired the poetic licence in the illustration of dioplia. Altogether I found this book very good value and highly recommend it.

Redmond Smith


This symposium was held at Utrecht in April 1974, but of course there has been an active 'intraocular implant club' in existence for more than 10 years.

The papers cover nearly all aspects of iris-clip lenses, and I would particularly recommend interested readers to start with the 'Discussion' where they will find some abrasive and helpful argument on such problems as the cause of macular oedema, the indications of iris-clip implant in children, and the management of complications.

Those of us who are familiar with this technique of cataract surgery know how valuable it is to the patient, and the number of surgical centres up and down the country, and indeed throughout the world, which are producing good results, increases every year.

Undoubtedly, the results in senile cataracts are the best, and there are few contraindications to the use of iris-clip lens. The results in children with congenital cataract, however, are disappointing. Binkhorst, who has had 20 years' experience in this field, confines his operation to those who have bilateral incomplete forms of cataract, and then to the worse eye only. Good visual results are obtained in traumatic cases over the age of five years, and in this group the implant appears to be superior to a contact lens.

An interesting trend back to an extracapsular technique is discussed, and Binkhorst recommends a one-stage operation with a capsular supported lens. It is suggested that this gives a better immobilization of the implant and reduces the incidence of macular oedema to below that of all forms of intracapsular extractions. Statistical proof of this is not yet available. Those in a position to use phako-emulsification on their patients also claim that an irido-capsular implant has a very low rate of complications.

A useful book, then, for anyone who wants to find out about lens implant surgery, and a 'must' for the converted.

N. Dallas
Diabetic Microangiopathy: Its Development Based on New Knowledge on Capillary Tissue Oxygen Delivery and its Possible Prophylaxis

R. Rubinstein

doi: 10.1136/bjo.60.3.232-b

Updated information and services can be found at:
http://bjo.bmj.com/content/60/3/232.3.citation

**Email alerting service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

**Notes**

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/