



# ADVANCES IN OPHTHALMOLOGY

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## KEY SELLING POINTS

- ◆ Top level work from international contributors
- ◆ 8 additional chapters on Free CD Rom
- ◆ Full colour throughout with over 400 photos and 300 diagrams

## BOOK INFORMATION

ISBN: 1 904798 34 9  
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FREE INTERACTIVE CD ROM

The editors of this book have compiled a major publication on the recent advances in ophthalmology. In the last decade the science of ophthalmology has made rapid strides – cataract surgery has improved with the development of new ultra small incision techniques, microphaco and the use of lasers, corneal and lens based refractive surgery now offers patients a range of treatments, and ophthalmic surgery itself is now elective in most cases.

This major work provides 88 articles by internationally known contributors giving fully up-to-date information on developments within the diverse disciplines of ophthalmology. This book should be on the shelf of every major medical library and in the possession of every practising ophthalmologist.

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NB. It also contains a posthumous tribute to Dr. C. D. Kelman, the father of phacoemulsification.

**Foreword: Patrick I Condon**, Consultant Eye Surgeon, Sth East Health Board Ireland, Waterford Regional Hospital, Waterford, Ireland. Director Eye Services, Eye Laser Clinic, Aut Even Hospital, Kilkenny, Ireland. Associate Consultant Eye Surgeon, Dept of Refractive Surgery, Mater Hospital, Dublin, Ireland.

Contents:

**Section I: Cataract.** Update on Ophthalmic Anesthesia • Cryoanalgesia Versus Topical Anesthesia in Cataract Surgery: A Comparative Study • Update on Viscoanesthetic Solutions for Cataract and Refractive Surgery • Incisions • Update on Intraocular Lenses • The Multifocal Intraocular Lens • Anterior Capsule Staining during Cataract Surgery • Microincision Intraocular Lenses • No Anesthesia Cataract Surgery with the Karate Chop Technique • Phakonit • Bimanual Microincision Phacoemulsification • Stabilizing the Weakened Capsular Bag during Phaco • IOL Selection for the Weakened Capsular Bag • Microincision Bimanual Phaco and Thin IOL Implantation • Transition to Sleeveless Phaco • Step Down Technique for Posterior Plane Emulsification • manual Phacocracking • Microincision Cataract Surgery of Mature Lenses • The Use of Power Modulations in Phacoemulsification of Cataracts: The Choo Choo Chop and Flip Phacoemulsification Technique • Phaco Tilt Technique: Best of Both Intracapsular and Supracapsular Techniques • Refractive Lens Exchange with the Array Multifocal Intraocular Lens • Ultrasmall incision Bimanual Phaco Surgery and Foldable IOL • the Light Adjustable Lens • Future IOL Designs • New Non-laser Phacoemulsification technologies • Cataract Surgery with Dodick Laser Photolysis • Future Capsular Surgery • Functional Vision, Wave-front Sensing and Cataract Surgery • Catarex: Endocapsular Vortex Emulsification for Cataract Removal • Sealed Capsule Irrigation Device • Phacosclerectomy: A Non-penetrating Filtering Procedure for the Combined Management of Glaucoma and Cataract • Phaco in Difficult Situations • Applications of Fugo (Plasma) Blade • Posterior Capsule Opacification: Experimental and Clinical Studies and Factors for prevention • Update on Capsular Tension Ring (CTR) Implantation to Prevent posterior Capsule Opacification after Cataract surgery • Sir Nicholas Harold Ridley: The Inventor of the Implant and a Pioneer in Quest to Eradicate World Blindness • Professor David Peter Choyce: An Almost Forgotten Protégé of Sir Harold Ridley • Update on Various Nucleus Delivery techniques in Manual Small Incision Cataract Surgery • Surgicenter Efficiency.

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Pharmacokinetics in LASIK and LASEK Surgery • Presbyopia Treatment with LASIK: PARM (Presbyopia Avalos Rozakis Method) • Inflammatory and Infectious Complications after LASIK • The Femtosecond Laser: A New Tool in Corneal Surgery • Epi-LASIK: An Advanced surface Ablation Procedure • A New Suction Trephine for LASEK • Excimer Laser Subepithelial Ablation (ELSA) or LASEK Offers Return to Surface Ablation • Phototherapeutic Keratectomy (PTK)

**Section III: Lens Based Refractive Surgery** Humanoptics

Accommodating IOL • Refractive Cataract Surgery • Artiflex: A New Phakic IOL • Refractive Floating Implant: A Phakic IOL • Scleral Implant for Correcting Presbyopia • Phakic IOLs • New Accommodating IOL for Presbyopia •

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**Section VII: Miscellaneous** Recent Advances in Lid, Orbital and Lacrimal Surgery • AIDS and the Eye • Brow Lift Surgery • Correction of Strabismus with Botulinum Toxin • Endoscopic Conjunctivodacryocystorhinostomy • Artificial Vision • Immunosuppression in Corneal Grafting