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**Keratoconus**

**Recent Advances in Diagnosis and Treatment**

As a degenerative disorder of the eye, keratoconus can cause substantial distortion of vision, with multiple images, streaking, and sensitivity to light all reported by patients. Keratoconus: Recent Advances in Diagnosis and Treatment updates ophthalmologists about the innovations that have occurred within the last decade, discussing the diagnostic imaging techniques that have been developed for keratoconus diagnosis, understanding of how examination techniques are related to the evolution of keratoconus, and how to indicate the different therapeutic tools that have been created for keratoconus over the last several years. Additionally, fundamentals for new diagnostic elements, based [...] More on www.springer.com/978-3-319-43879-5

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**A Clinical Guide**

This book presents and analyses the most recent research dedicated to restoring vision in individuals who are severely impaired or blind from retinal disease or injury. It is written by the leading groups worldwide who are at the forefront of developing artificial vision. The book begins by discussing the difficulties in comparing and interpreting functional results in the area of very low vision and the principal prospects and limitations of spatial resolution with artificial tools. Further on, chapters are included by researchers who stimulate the surface or the pigment epithelial side of the retina and by experts who work on stimulating the optic nerve, the lateral geniculate body [...] More on www.springer.com/978-3-319-41874-2
This book presents the principles and pearls for successful surgical management of challenging situations encountered during cataract surgery. A wide range of settings are considered, including cataract surgery in patients with uveitis, traumatic cataract, dislocation of an intraocular lens, intumescent cataract, brunescent cataract, combined cataract and corneal disease, combined cataract and glaucoma, pediatric cataract, and refractive cataract surgery. In addition, preoperative factors conducive to a favorable surgical result are identified and appropriate management of postoperative complications, described. As longevity increases, cataract is becoming an even greater public[...]

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Forthcoming
A. Kychenthal, P. Dorta (Eds.)

Retinopathy of Prematurity Current Diagnosis and Management
This clinically oriented book is devoted to the diagnosis and treatment of retinopathy of prematurity (ROP), a leading cause of childhood blindness. World-renowned experts in the field discuss epidemiologic and pathogenic aspects of the disease. The staging and classification of ROP are explained in detail, and guidance is provided on appropriate anesthesia. The state of the art in imaging of ROP is described and illustrated, with coverage of the advances in ophthalmic imaging technology and telemedicine that have revolutionized pediatric retinal examinations and contributed significantly in elucidating the pathophysiology of ROP and improving diagnosis and treatment. Treatment[...]

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I.C. Lloyd, S.R. Lambert (Eds.)

Pediatric Lens Diseases
This book focuses on disorders of the lens, which are a major cause of blindness in children. During development, children’s eyes have unique physiological and structural characteristics, such as an immature blood-aqueous barrier, which presents considerable challenges for ophthalmologists involved in the diagnosis and treatment of pediatric lens disorders. Throughout the book, the pathology, examination, anesthesia, surgical treatment and nursing care of pediatric lens disorders are discussed in detail. It not only presents diverse pictures and images from clinical practice, it also includes the latest findings in the field. It will be of interest to ophthalmologists and[...]

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This book aims to build concepts and create a solid foundation in the field of optical coherence tomography (OCT) for the general ophthalmologists as well as for the resident trainees and fellows. The chapters are written by leading international authorities in a style comprehensible to a broad audience. Numerous clinical pictures and SD-OCT scans help elucidate various clinical entities. OCT is the optical analog of ultrasound imaging and has emerged as a powerful imaging technique that enables non-invasive, in vivo, high-resolution, cross-sectional imaging in retinal tissue. A new generation spectral domain optical coherence tomography (SD-OCT) technology has now been developed, [...]

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Z. Michalewska, J. Nawrocki (Eds.)

Atlas of Swept Source Optical Coherence Tomography

This atlas presents an overview of Swept Source Optical Coherence Tomography (OCT) and its imaging technique that enables non-invasive, in vivo, high-resolution, cross-sectional imaging in retinal tissue. A new generation spectral domain optical coherence tomography (SD-OCT) technology has now been developed, [...]


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B. Mukherjee, H. Yuen (Eds.)

Emergencies of the Orbit and Adnexa

This handbook on orbital, lacrimal and eyelid emergencies deals with such situations in a practical manner guiding the ophthalmologists in accurate handling and making them more proficient and confident in managing vision and life-threatening emergencies. With 51 chapters and more than 350 images, this book covers all the eye emergencies that generalist and specialist ophthalmologists can expect to come across in their day to day practices. It can be argued that the orbit can no more be called ‘Pandora’s Box’ because of the unpredictable nature of its contents. This perception has changed over the years due to the advent of improved diagnostic, in particular, imaging techniques, [...]

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G.N. Papaliodis (Ed.)

Uveitis
A Practical Guide to the Diagnosis and Treatment of Intraocular Inflammation

Written as a practical guide for the diagnosis and treatment of uveitis, this text provides uveitis specialists, practicing ophthalmologists, ophthalmology residents and fellows with the appropriate diagnostic testing and evidenced-based therapeutic options for managing patients afflicted with these conditions. Written and edited by leaders in the fields of ophthalmology, rheumatology, internal medicine, infectious disease, and oncology, each chapter addresses the latest advances in the field: from the advent of PCR technology, intraocular depot steroid implants, neoplastic and infectious diseases masquerading as uveitis, and the use of systemic immunomodulatory therapies (including,...

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C. Pavesio (Ed.)

Scleritis
This book offers a concise but comprehensive overview of scleritis, with up-to-date information on all aspects, including diagnosis and treatment. Fundamental features of the pathogenesis of scleral inflammation are first discussed as a basis for understanding the therapeutic strategies. Detailed descriptions are then provided of clinical manifestations, the complications that can arise during the course of the disease process, and the best way to manage them. An individual chapter is devoted to infectious scleritis and its management, this being an uncommon but serious condition that may result not only in loss of
vision but also in loss of the globe itself. The diagnostic approach [...] More on www.springer.com/978-3-319-49913-0

Corneal Collagen Cross Linking
M.M. Sinjab, A. Cummings (Eds.)

This book provides comprehensive coverage of corneal collagen cross-linking (CXL), a major management modality for keratoconus and ectatic corneal disorders. All aspects are covered, including refractive and non-refractive surgery indications, models of application, safety, efficacy, performance, outcome measures, evidence of CXL, complications, contraindications, use in children, and controversies. The discussion reflects the considerable progress that has been made in understanding the modality since its development in the late 1990s. Detailed attention is paid to new concepts, changing surgical techniques and indications, the latest evidence-based science and research, and the [...] More on www.springer.com/978-3-319-39773-3

Homonymous Visual Field Defects
K. Skorkovská (Ed.)

This book provides a concise, up-to-date overview on homonymous visual field defects, and especially homonymous hemianopia. All aspects of the subject are covered, from anatomy and pathophysiology to diagnosis and management. Emphasis is placed on practical issues and major advances in ophthalmology, neurology, imaging techniques, and psychology. Rehabilitation strategies are described, and methods supporting compensation strategies are recommended. A separate chapter considers driving with homonymous hemianopia, which represents one of the critical issues in traffic ophthalmology. This book will be of particular value to ophthalmologists, neurologists, neurosurgeons, and [...] More on www.springer.com/978-3-319-52282-1

Peripheral Ulcerative Keratitis
R. Tandon, A. Galor, V. Sangwan, R. Manotosh (Eds.)

A handy manual for cornea specialists, this book provides detailed practical information about a complex, sight-threatening disease that can be challenging to diagnose and manage. This text features chapters ded-
icated to outlining all facets of diagnosis and management while covering both medical and surgical treatment options. Peripheral Ulcerative Keratitis, supplemented with useful references and appendices to provide simple step by step algorithms, is written by internationally renowned authors who are experts in the field. Including practical tips and guidelines for diagnosis and therapy of these disorders, Peripheral Ulcerative Keratitis is designed to serve as a guide for [...] More on www.springer.com/978-3-319-50402-5

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**Mechanical Ocular Trauma**

**Current Consensus and Controversy**

This book provides state-of-the-art information for ophthalmologists and other clinicians facing tough cases, helping them to make the most appropriate decision concerning the management of patients who have suffered mechanical ocular trauma. The discussion of mechanical ocular trauma addresses various parts of the eye: each chapter discusses a certain part of the eye, supplemented by illustrative sample cases. Though the latest consensus is provided for each topic or case, different opinions on controversial topics will also be discussed in detail. Pearls of advice at the end of each chapter highlight its main points. Topics covered include: Traumatic cataract and the timing of [...] More on www.springer.com/978-981-10-2148-0

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