

Pediatric Cataract Surgery

Pediatric Cataract Surgery Pediatric Cataract Surgery and IOL Implantation Step by Step Pediatric Cataract Surgery Pediatric Cataract Surgery Congenital Cataract Atlas of Pediatric Cataract Pediatric Cataract Pediatric Cataract Surgery Pediatric Cataract Essentials of Pediatric Cataract Surgery Prevention of Complications to Pediatric Cataract Surgery Prevention of Complications in Pediatric Cataract Surgery The Pediatric Glaucomas Cataract Surgery Pediatric Ophthalmology Practice Intraocular Lenses in Cataract and Refractive Surgery Pediatric Ophthalmology for Primary Care Pediatric Ophthalmology and Strabismus, 1990-1991 Decision Making in Pediatric Ophthalmology Pediatric Lens Diseases M. Edward Wilson Courtney L. Kraus Suresh K. Pandey M. Edward Wilson (Jr.) Ian Christopher Lloyd Sudarshan Kumar Khokhar P., Nucci Edward M. Wilson Siddharth Agrawal Sudarshan Kumar Khokhar Maria Kugelberg Maria Kugelberg Anil K. Mandal Roger F. Steinert Eugene M. Helveston Dimitri T. Azar Kenneth Weston Wright Gerhard W. Cibis Yizhi Liu

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this is the first reference textbook to address the considerable challenges of managing cataracts in children content covers all details of pediatric cataracts and surgical techniques to treat and prevent visual impairment readers explore patient work up diagnosis surgical techniques and potential complications newly emerging topics such as temporary polypseudophakia multifocal lenses implant biocompatibility intracapsular rings and the use of capsular dyes in pediatric cataract surgery are discussed in detail numerous tables and line diagrams and more than 200 full color photographs clarify concepts

pediatric cataract surgery and iol implantation a case based guide is a must have resource for ophthalmologists surgeons residents and fellows who work with pediatric cataracts and their surgical management as well as ancillary readers such as parents or supportive caregivers to a child with cataracts this book offers a comprehensive overview of the epidemiology of pediatric cataract surgery and considerations surrounding iol implantation it addresses pre operative evaluation and examination as well as surgical steps and techniques for various pediatric cataract conditions chapters begin with an introduction and are followed by discussions that offer expert viewpoints and case studies in addition chapters illustrate the complexity of the management of pediatric lens opacities the book closes with a case based approach to special considerations in iol implantation including considerations in the uveitic patient placement without capsular support and cataract surgery in the developing world providing thoughtful chapters that seek to expand on the currently available literature without redundancy this book a solid companion piece to any other text discussing pediatric cataracts

as the single reference textbook on the subject pediatric cataract surgery techniques complications and management second edition covers everything from vision screening to managing complications of pediatric cataract surgery with hours of accompanying online video following the first edition a wealth of scientific advances have called for an improvement of the entire work which combines innovative discoveries with an endorsement for hands on learning beyond the pages it s a must have for ophthalmic surgeons of all levels 13 new chapters cover the latest advancements across perioperative management of pediatric cataract surgery critical periods in vision development cost analysis endophthalmitis prophylaxis intraocular heparin treatment bag in the lens surgical techniques multifocal intraocular lens use in children quality of life low vision rehabilitation and more you ll also find a cutting edge section on operating techniques for patients in developing nations and cataract surgery in eyes with ocular and systemic anomalies 2 hours of online procedural video to offer an up close and personal visual aid from the perspective of the surgeon himself first hand accounts and expert demonstration help you perfect procedure avoid common missteps and navigate complications for a successful outcome quick reference format promises grab and go versatility so you can find the info you need in a heartbeat the preeminent authority its content has been compiled authored and edited by top surgeons in this challenging field with important contributions from researchers and other professionals producing rich material that keeps you and your colleagues at the forefront of your discipline

this book aims to assist ophthalmologists in providing the best possible care for children with congenital cataracts the entire patient pathway is covered from preoperative assessment through application of the various surgical techniques to postoperative care and management of complications among the topics discussed are new developments in molecular genetics relevant to patient evaluation intraocular lens power formulas and the findings of the infant aphakia treatment study the surgical section describes anterior capsulotomy lensectomy selection of intraocular lens iol power iol implantation in the capsular bag posterior capsulotomy techniques the use of secondary iols and iris fixated iols in children and surgical management in developing countries visual outcomes after surgery are also fully addressed with chapters on the occurrence

of strabismus nystagmus and poor stereopsis

this book highlights various pediatric cataracts and their clinical presentations along with a wealth of high quality images collected over two decades offering a precise guide to illustrative interventions it contains images collected pre operatively intra operatively and post operatively using slit lamp or microscope integrated cameras the book covers congenital developmental and traumatic cataracts along with other rare morphologies it presents selected challenging clinical situations along with surgical management steps that draw on high quality images separate chapters address recent advances in the field of pediatric cataracts e g ultrasound biomicroscopy lenticular abnormalities intraoperative rhegms assistant plasma blade diathermy vascular cautery incisions of persistent fetal vasculature operative room aberrometry and optwave refractive analysis given its scope the book offers a valuable resource for practicing general and pediatric ophthalmologists researchers and students alike

this volume presents the latest trends in the management of pediatric cataract it covers everything from the role of genetic and systemic work up to the state of the art in surgery discussions include ocular modifications after surgery the incidence and risk factors of post surgery complications and the management of complex cases there is a chapter dedicated to post aphakic glaucoma a new insight to visual rehabilitation and a summary of a recently published delphi project pediatric ophthalmologists looking for the latest research in the management of cataract will find this publication to be invaluable reading it will also be useful to general ophthalmologists residents and fellows as well as to medical students and pediatricians who seek an update for daily clinical practice

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the book covers all clinical aspects of pediatric cataract surgery chapters cover basic sciences etiology pre operative evaluation choice of intraocular lenses steps of surgery complications considerations in traumatic cataract and post operative rehabilitation it includes photographs diagrams flow charts and tables for easy memorization and understanding multiple choice questions at the end of each chapter help to evaluate the understanding and reinforce important concepts the book aims to encourage ophthalmic surgeons to successfully treat children with cataract as all of them perform adult cataract surgeries but usually avoid managing pediatric cases this hesitation is primarily due to exhaustive pre operative evaluation and long term follow up as a result the backlog of this disease in the developing world is significant and many such children

are unable to receive timely intervention during their crucial period of visual development the chapters primarily focus on the clinically relevant issues to keep the reader interested the book includes contributions from some of the most talented and experienced pediatric cataract surgeons the book is relevant for ophthalmologists not commonly practicing pediatric cataract surgery and post graduate students

the book highlights various pediatric cataract surgeries it covers variants of pediatric cataract along with other rare morphologies it covers selected challenging clinical situations along with surgical management steps additionally it includes the management of surgical complications the book provides relevant concise text supported by clinical pictures and includes 50 short videos this book is a collection of clinical images and videos over 2 decades chapters cover recent advances in the field of pediatric cataract such as ultrasound biomicroscopy intraoperative rhexis assistant operative room aberrometry the accompanying video describes the surgical procedures with a voiceover lucidly explaining every step it discusses unique cases of buphthalmous with cataract anterior segment dysgenesis persistent fetal vasculature and pre existing persistent capsular defect with their latest management techniques this book is relevant for practicing ophthalmologists and students alike

here is a comprehensive and up to date source on the origins diagnosis and management of glaucomas in children the authors balance evidence based management guidelines with perspectives from their abundant direct clinical experience coverage includes the most recent advances in genetics medical therapy and surgical treatment long term management treatment of intractable glaucomas and other timely topics explores the newest knowledge about epidemiology and genetics medical therapies surgical management management of refractory glaucoma long term management penetrating keratoplasty or aphakia pseudophakia in children with glaucoma and much more combines evidence based recommendations with the authors expert observations and opinions reviews important historical developments in pediatric glaucoma treatment reflects the most recent terminology and classifications in the field uses full color clinical photographs and line drawings to illustrate important visual concepts offers comprehensive references as well as tables and figures that summarize information from the literature at a glance

presents advances in phacoemulsification instruments and techniques covers a full range of key topics including anesthesia management of pediatric cataracts intraocular lenses and lasers reflects knowledge in pathogenesis and biochemistry and discusses the use of sutures and suture materials in complex secondary interventions

everything the ophthalmologist needs to know about the different surgical techniques used with intraocular lenses iols as well as the theory behind using these techniques to treat various conditions in a well written format more comprehensive than any other iol book available this solid reference presents a broad balanced perspective with coverage of indications surgical techniques and complications of iols full color artwork and up to date information detail the variety of intraocular lenses on the market intraocular lenses in cataract and refractive surgery offers a

comprehensive examination of key topics such as cataract surgery secondary iols in aphakia phakic iols management of iol complications and recent advances in astigmatic multifocal and specialized iols as well as a new chapter devoted to the cutting edge topic restoring accommodation

updated and revised covers the full spectrum of eye disorders eye examinations vision screening strabismus dyslexia and ocular trauma

addresses clinical decision making in paediatric ophthalmology in an algorithmic format the focus of each chapter is its decision tree an algorithm that demonstrates critical decision points in paediatric ophthalmologic patient care and their logical results

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 paediatricians looking to improve the diagnosis and treatment of pediatric lens disorders and provide a valuable reference resource for all those involved in ophthalmic clinical practice teaching and research

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Introduction

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