



Ophthalmic Technology Assessment

Intraocular Lens Power Calculation in Eyes with Previous Excimer Laser Surgery for Myopia

A Report by the American Academy of Ophthalmology

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Purpose: To review the literature to evaluate the outcomes of intraocular lens (IOL) power calculation in eyes with a history of myopic LASIK or photorefractive keratectomy (PRK).

Methods: Literature searches were conducted in the PubMed database in January 2020. Separate searches relevant to cataract surgery outcomes and corneal refractive surgery returned 1169 and 162 relevant citations, respectively, and the full text of 24 was reviewed. Eleven studies met the inclusion criteria for this assessment; all were assigned a level III rating of evidence by the panel methodologist.

Results: When automated keratometry was used with a theoretical formula designed for eyes without previous laser vision correction, the mean prediction error (MPE) was universally positive (hyperopic), the mean absolute errors (MAEs) and median absolute errors (MedAEs) were relatively high (0.72–1.9 diopters [D] and 0.65–1.73 D, respectively), and a low (8%–40%) proportion of eyes were within 0.5 D of target spherical equivalent (SE). Formulas developed specifically for this population requiring both prerefractive surgery keratometry and manifest refraction (i.e., clinical history, corneal bypass, and Feiz-Mannis) produced a proportion of eyes within 0.5 D of target SE between 26% and 44%. Formulas requiring only preoperative keratometry or no history at all had lower MAEs (0.42–0.94 D) and MedAEs (0.30–0.81 D) and higher (30%–68%) proportions within 0.5 D of target SE. Strategies that averaged several methods yielded the lowest reported MedAEs (0.31–0.35 D) and highest (66%–68%) proportions within 0.5 D of target SE. Even after using the best-known methods, refractive outcomes were less accurate in eyes that had previous excimer laser surgery for myopia compared with those that did not have it.

Conclusions: Calculation methods requiring both prerefractive surgery keratometry and manifest refraction are no longer considered the gold standard. Refractive outcomes of cataract surgery in eyes that had previous excimer laser surgery are less accurate than in eyes that did not. Patients should be advised of this refractive limitation when considering cataract surgery in the setting of previous corneal refractive surgery. Conclusions are limited by the small sample sizes and retrospective nature of nearly all existing literature in this domain. *Ophthalmology* 2021;128:781–792 © 2020 by the American Academy of Ophthalmology

The American Academy of Ophthalmology prepares Ophthalmic Technology Assessments to evaluate new and existing procedures, drugs, and diagnostic and screening tests. The goal of an Ophthalmic Technology Assessment is to review systematically the available research for clinical efficacy, effectiveness, and safety. After appropriate review by all contributors, including legal counsel, assessments are submitted to the Academy's Board of Trustees for consideration as official Academy statements. The purpose of this assessment by the Ophthalmic Technology Assessment Committee Refractive Surgery Panel is to review the published literature on the refractive outcomes of cataract surgery on eyes that have had laser-assisted in situ keratomileusis

(LASIK) or photorefractive keratectomy (PRK) for the treatment of myopia. Human subjects were not included in this study. All research adhered to the tenets of the Declaration of Helsinki. The requirement for informed consent was waived because of the retrospective nature of the study.

Background

An important outcome of cataract surgery is the ability to achieve a refractive target, which requires accurate prediction of the postoperative refractive error. With the advent of partial coherence interferometry¹ and optical low coherence

Intraocular Lens Power Calculations

Arun D. Singh, Brandy H. Lorek



Intraocular Lens Power Calculations:

Intraocular Lens Power Calculations H. John Shammas, 2004 The selection of appropriate formulas and surgical techniques is vitally important to best fulfill each patient's visual needs and expectations With over 30 years of experience H. John Shammas MD clearly explains the importance of intraocular lens IOL power calculations during preoperative cataract evaluation and their role in positively improving surgical outcomes Intraocular Lens Power Calculations addresses both currently used and the latest more advanced formulas To fully understand the application of these formulas in various situations thorough explanations are provided Numerous highlighted clinical applications case reports figures and tables are also utilized to illustrate and reinforce key points This well organized text contains the most up to date information on axial length measurement biometry units constants and ways to avoid errors IOL power calculations and selection are included for an array of conditions ranging from the normal phakic eye to the more challenging high myopic and high hyperopic eyes piggyback implantation intumescent cataract and the aphakic eye Intraocular Lens Power Calculations updates surgeons technicians and students on all the techniques and formulas available to achieve the most accurate and precise calculations thus paving the way for surgical results that fulfill patients visual needs Topics Include New formulas including Holladay Olsen and Haigis IOL power calculations after corneal refractive surgery Calculating for emmetropia and isekonia High precision A scan biometry B mode guided biometry Optical coherence biometry Selecting the proper IOL power

Intraocular Lens Calculations Jaime Aramberri, Kenneth J. Hoffer, Thomas Olsen, Giacomo Savini, H. John Shammas, 2024-07-03 Cataract surgery with 25 30 million surgeries per year has become one of most popular surgeries in the world The calculation of its power is of utmost importance As new premium intraocular lenses IOLs and modern surgical techniques have been developed the demand has grown exponentially not only for eliminating cataracts but also for getting rid of the need for glasses This book offers a comprehensive overview of IOL power calculations and its various formulas and methods Chapters discuss use of the diagnostic biometry devices that provide the measurements and the management of different clinical situations where particular modifications must be applied Chapters also discuss the newest generation of multifocal and toric IOLs that can only be implanted if no residual refraction is planned for which implies a perfect mastery of all the IOL calculation process This book marks the first time in ophthalmological history that all the main leaders in the field have collaborated in a project that will undoubtedly be the reference for the next ten years Intraocular Lens Calculations is a must have resource for cataract and refractive surgeons as well as technicians and anyone dealing with this subject *IOL Power* Kenneth Hoffer, 2024-06-01 IOL Power by Kenneth J Hoffer MD will be the definitive resource worldwide for ophthalmologists who strive to increase the accuracy for all IOL calculations especially for multifocal IOLs and overcoming the challenges that arise when treating patients that have had laser refractive surgery such as RK PRK LASIK and LASEK Inside the pages of IOL Power Dr Hoffer is joined by some of the most respected international physicians and physicists in

the field of IOL power such as Aramberri Haigis Norrby Olsen and Shammas Together their expertise spanning over 35 years makes even the most difficult subjects easy to understand This volume will become the definitive reference source on the subject of IOL power calculation Some topics include Ultrasound velocities for axial length measurement Optical AL IOLMaster and Lenstar in difficult eyes Manual and automatic keratometry and instrumentation Topography Scheimpflug camera corneal power Value of theoretic formulas Formula personalization Multifocal and toric IOLs Aspheric IOLs Effect of IOL tilt on astigmatism Chapters Cover All aspects of obtaining the most accurate biometry Available modern calculation formulas Latest instruments Problems that can arise how to prevent and repair them IOL Power by Kenneth J Hoffer MD is structured in a logical manner so as to cover every facet of IOL power from the basics to the most complicated subjects to achieve the most accurate and precise calculations and should be in the hands of all ophthalmic surgeons technicians residents and students

Intraocular Lens Power Calculations H. John Shammas,1996 **Intraocular Lens Power Calculations for Complicated Cases** Haiying Jin,2008 **Ophthalmic Ultrasonography E-Book** Arun D. Singh,Brandy H. Lorek,2011-11-30 Written by and for ophthalmologists and ophthalmic ultrasound technicians Ophthalmic Ultrasonography by Arun D Singh MD and Brandy C Hayden BSc ROUB provides all the guidance you need to make optimal use of this imaging technique to evaluate diabetes related ocular disorders cataracts macular degeneration and much more Its unparalleled image collection and detailed video clips capture the characteristic ultrasound presentation of a full range of ocular disorders An easily searchable atlas style format and online access to the complete text at www.expertconsult.com make this the perfect how to guide for honing your skills and obtaining accurate diagnoses Broaden your knowledge and sharpen your skills with comprehensive coverage of ultrasound applications across all sub specialties in ophthalmology including cornea glaucoma retina pediatric tumors and trauma See how ultrasound compares to images captured via other modalities such as OCT through numerous side by side examples Master the fundamentals of ultrasound with chapters devoted to exam techniques practical considerations and effective equipment use for optimal scan results See how the full spectrum of diseases present through more than 400 high quality images half devoted to ultrasound and half devoted to color clinical images and examples of other imaging techniques Employ the very latest ultrasound technology such as high resolution screening ultrasound biomicroscopy UBM and Doppler techniques Observe sonographic evaluations in real time with 20 video clips that demonstrate key techniques and findings Access the full text online including tables figures images videos and more at www.expertconsult.com **A Complete Surgical Guide for Correcting Astigmatism** Bonnie An Henderson,2011 As the fields of cataract surgery and refractive surgery merge the expectations of patients for perfect postoperative uncorrected vision are increasing This book offers cataract and refractive surgeons a single comprehensive resource on diagnosing and managing corneal astigmatism Not only is surgical management addressed in this updated edition but diagnosis of astigmatism is presented with specific attention to new technology and innovative techniques Also

included are more than 200 color images and 35 tables throughout the pages of this book brings together the world's experts in cataract and refractive surgery making it a must have resource for every surgeon aspiring to successfully manage and treat patients with astigmatism

Corneal Surgery Frederick S. Brightbill, 2009-01-01 Part 1 Introduction to corneal function and surgery Part 2 Testing and measuring corneal function Part 3 Ocular surface surgery and reconstruction Part 4 Techniques in corneal transplantation Part 5 Special situations in corneal surgery Part 6 Surgical correction of refractive errors

Cataract Surgery from Routine to Complex Randall Olson, George Jin, Ike Ahmed, Alan Crandall, 2024-06-01 Cataract Surgery from Routine to Complex A Practical Guide provides eye care professionals guidance on what to do and how to avoid potential complications in all aspects of cataract surgery just as if the world's experts were by your side Drs Randy Olson George Jin Ike Ahmed Alan Crandall Robert Cionni and Jason Jones concisely provide a wealth of information including a detailed list of key issues and considerations for virtually all the possible contingencies of the procedure Some Topics and Sections Include Examination Pupil size ocular dominance biometry and more IOL Choice Monofocal aspheric vs traditional presbyopia correcting multifocal vs accommodating toric and more Routine Cataract Surgery Microincision cataract surgery OVD selection current phacoemulsification techniques and more Complex Cataract Surgery Hypermature cataract small pupil pseudoexfoliation nanophthalmos pediatric cataract and more Intra Operative Complications Wound burn posterior capsular rupture shallow anterior chamber and more Patient Assessment Visual acuity refraction visual quality and more Postoperative Complications Endophthalmitis toxic anterior segment syndrome IOL dislocation and more Cataract Surgery from Routine to Complex also includes a companion website that provides more than 2 hours of learning with 38 edited and narrated video presentations perfectly complementing the procedures discussed inside the text Cataract Surgery from Routine to Complex is the combination of a practical guide with broad academic underpinnings along with current controversial subjects on cataract surgery making it ideal for eye care professionals who wish to update their knowledge and translate it into improved surgical techniques and better cataract patient education

IOL Power Calculation Made Easy Jeewan S Titiyal, Manpreet Kaur, Sridevi Nair, 2024-03-13 *Principles and Practice of Ophthalmology E-Book* Daniel M. Albert, Joan W. Miller, Dimitri T. Azar, Barbara A. Blodi, 2008-02-27 Inside the 3rd edition of this esteemed masterwork hundreds of the most distinguished authorities from around the world provide today's best answers to every question that arises in your practice They deliver in depth guidance on new diagnostic approaches operative technique and treatment option as well as cogent explanations of every new scientific concept and its clinical importance With its new streamlined more user friendly full color format this 3rd edition makes reference much faster easier and more versatile More than ever it's the source you need to efficiently and confidently overcome any clinical challenge you may face Comprehensive authoritative and richly illustrated coverage of every scientific and clinical principle in ophthalmology ensures that you will always be able to find the guidance you need to diagnose and manage your patients

ocular problems and meet today's standards of care. Updates include completely new sections on Refractive Surgery and Ethics and Professionalism, an updated and expanded Genetics section, an updated Retina section featuring OCT imaging and new drug therapies for macular degeneration and many other important new developments that affect your patient care. A streamlined format and a new more user friendly full color design with many at a glance summary tables, algorithms, boxes, diagrams and thousands of phenomenal color illustrations allows you to locate the assistance you need more rapidly than ever.

Lens Surgery after Previous Refractive Surgery Frank Joseph Goes, 2010-11-17. This book addresses an increasing need that is confronting ophthalmologists all over the world today and that is the growing number of previous refractive surgery patients. A unique contribution by internationally recognized leaders to address all aspects of lens based surgery on previous refractive patients including issues surrounding when to intervene, biometry considerations for the surgical procedure itself, lens choices, management of complications and views into the future. The text represents an excellent opportunity for ophthalmologists to experience increased satisfaction from their practices, improve the financial health of their practices and feel the gratitude of patients for the enhanced quality of their lives. Presents the problem in a comprehensive way so that the ophthalmic surgeon in private practice would find answers to the common questions like: When is the right time to replace the lens in an eye that had refractive lens surgery before hand? How do we do it? What are the pitfalls? How to avoid complications? How do we perform correct IOL power calculation in eyes developing cataract after earlier refractive corneal surgery? And finally outcomes of different approaches and future developments have been discussed. Also includes a chapter by Kezirian and Waring on the opposite topic: laser surgery after intraocular implants and answer the questions by bringing together the expertise of internationally well known specialists in the field. Contains the knowledge of the physicists of the pioneers who developed the first formulas and of the surgeons in daily practice who are handling over the practical tools in the section of IOL Power Calculation. In the section of Decision Making, top surgeons gave their advice and personal approach. In the section of The Surgery, experienced surgeons gave some pearls when starting surgery in eyes that had refractive surgery earlier. This book is useful for ophthalmologists, ophthalmic surgeons, refractive surgeons.

Refractive Surgery E-Book Dimitri T. Azar, 2019-01-09. Comprehensive and clinically focused Refractive Surgery 3rd Edition brings you the knowledge and expertise of leading ophthalmology experts and refractive surgeons from around the world. Together they provide practical coverage of the latest advances in this fast changing field including improved optics and biomechanics, improved diagnostics, new surgical techniques and more. Hundreds of high quality photographs guide you from patient selection to mastery of surgical techniques. Offers step by step guidance on a wide range of common refractive procedures. Covers new topics such as management of LASIK complications, SMILE and management of SMILE complications, collagen cross linking including instrumentation and applications in keratoconus and ectasia, intracorneal lenses and multifocal and accommodating IOLs. Contains a new chapter on Preoperative Evaluation of Keratoconus and Ectasia. Uses

high quality surgical video clips to demonstrate a variety of surgical techniques Addresses initial as well as ongoing management of patients Includes tables of indications preferences hot tips and management of complications throughout making guidance quick and easy to access **Cataract Surgery** Roger F. Steinert,2009-10-15 Extensively revised this state of the art 3rd edition of Cataract Surgery offers new perspectives and cutting edge coverage of the rapidly evolving field of cataract surgery Roger F Steinert MD along with a who s who of top international experts delivers comprehensive clinical coverage of the latest surgical techniques principles and pearls as well as expert advice on preoperative assessment and how to avoid and manage complications Detailed discussions on today s hot topics such as aspheric and presbyopia IOL phacoemulsification and more keep you at the forefront of this burgeoning field And more than 1050 illustrations and online videos of cataract procedures give you step by step visual guidance Plus with Expert Consult functionality you ll have easy access to the full text online at www.expertconsult.com Offers practical technical guidance from internationally recognized authorities who describe the techniques as well as offer their best advice on the operative management of cataracts Presents a logical organization where chapter progress from preoperative evaluation and preparation through the full range of surgical techniques to management of complications Includes more than 1050 illustrations emphasizing the most common techniques Provides access to the full text online at www.expertconsult.com for convenient referencing Includes a online videos of surgical footage performed by the authors offering you real time guidance on the full range of the latest cataract surgery techniques including phacoemulsification in the presence of a small pupil toric IOL implantation biaxial microincision cataract surgery and many others Features expert hints and tips on the common pitfalls in cataract surgery including advanced surgical pearls to save you valuable time and help you avoid costly errors Offers expanded coverage on how to manage complications to prepare you for the challenges you face Provides the latest information on phacoemulsification techniques keeping you on the cusp of these popular procedures Presents new chapters on Aspheric Multifocal Accommodating IOLs Color filtering IOL IOL design and Capsular opacification offering you the latest information in this rapidly advancing area Cataract Surgery in Diseased Eyes Arup Chakrabarti,2014-04-30 Cataracts are a very common condition and over time can lead to blindness if untreated They are the most common cause of blindness worldwide Cataract surgery is one of the most commonly performed procedures Cataract Surgery in Diseased Eyes presents different surgical techniques to remove cataracts in patients with other pre existing ocular disorders Presented as case scenarios the book covers numerous different conditions including dry eye uveitis and glaucoma as well as cataract surgery after other types of eye surgery With contributions from internationally recognised specialists in Europe North America and Asia this useful guide includes more than 200 images illustrations and tables to enhance learning Key points Describes cataract surgery techniques for use with other pre existing eye conditions Presents more than 30 case scenarios covering different disorders Contributions from experts in Europe North America and Asia Includes more than 200 images illustrations and tables

Management of Complications in Refractive Surgery Jorge L. Alio, Dimitri T. Azar, 2018-01-02 This illustrated guide is written by international opinion leaders with extensive experience in the practice of refractive surgery It is the first book devoted to refractive complications with practical hints and case reports on outcomes to provide ophthalmic surgeons with the most adequate solutions for the most frequent problems All complications are described and lavishly illustrated The book provides ophthalmic surgeons with the most adequate solutions for the most frequent problems they face in their daily practice

Refractive Lens Surgery Howard Fine I, Mark Packer, Richard Hoffman, 2005-12-06 Compiles the best cutting edge practices for achieving success with refractive lens exchange Features the latest micro incision lens extraction techniques Well known group of authors with Fine and Packer being especially famous in the US Serves as textbook and reference guide for Ophthalmologists Clearly structured and richly illustrated

Mastering Refractive IOLs David F. Chang, 2008 The IOL technical specifications the clinical data and the necessary clinical and surgical skills comprise the scientific foundation for achieving a premium refractive outcome To consistently achieve patient satisfaction however requires mastering the art of patient and IOL selection communicating and counseling effectively and providing a premium patient experience This is a nontraditional book in which multiple experts are separately asked to discuss controversial subjects in a reader friendly format There is balanced coverage of all of the available refractive IOLs as well as those that may become available in the near future A major emphasis is placed on avoiding and managing complications or potentially dissatisfied patients There are more than 200 chapters that are organized into 14 major sections over 300 images 100 tables and 12 sidebars that cover every aspect of refractive IOL clinical practice This is a comprehensive educational resource addressing the most demanding and rapidly evolving area in cataract and refractive surgery today and the first book to cover both the clinical and nonclinical aspects of offering refractive IOL services

Recent Advances in Ophthalmology - 14 HV Nema, Nitin Nema, 2019-06-30 This book is the latest volume in the Recent Advances in Ophthalmology series providing ophthalmic trainees and ophthalmologists with the latest surgical and technological developments in the field Divided into 21 chapters each section is dedicated to a specific topic explaining symptoms investigation techniques imaging differential diagnosis and treatment methods The pros and cons of various surgical procedures are covered in depth New to this volume is discussion on advances in lamellar keratoplasty deep anterior lamellar keratoplasty Descemet s membrane endothelial keratoplasty DMEK and a new technique keratopigmentation The text features nearly 400 clinical photographs diagrams flowcharts and tables to assist learning Key points Latest volume in Recent Advances in Ophthalmology series Covers latest surgical and technological developments in the field Features new topics and nearly 400 images flowcharts and tables Previous volume 9789386322784 published in 2017

Ophthalmic Diagnostics Taraprasad Das, Prem Nandhini Satgunam, 2024-07-03 The book comprehensively covers three aspects of diagnostic tests in eye care It lays equal emphasis on the technology associated with the ophthalmic tests on appropriate techniques to maximize the input and the clinical

applications for comprehensive understanding and usage of ophthalmic diagnostic tests The book also includes many newer diagnostic devices not described earlier such as teleophthalmology homecare and smartphone based ophthalmic diagnostics The contributing authors are from renowned ophthalmic and optometry fraternities worldwide and are experienced clinicians and scientists It s a must have book for ophthalmologists optometrists and ophthalmic assistants who want to stay abreast with the latest developments in the field

Unveiling the Magic of Words: A Report on "**Intraocular Lens Power Calculations**"

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