

BMJ Open Royal College of Ophthalmologists' National Ophthalmology Database study of cataract surgery: report 8, cohort analysis of the relationship between intraoperative complications of cataract surgery and axial length

Alexander C Day ^{1,2}, Charlotte F E Norridge,^{3,4} Paul H J Donachie,^{4,5} Beth Barnes,⁵ John M Sparrow⁶

To cite: Day AC, Norridge CFE, Donachie PHJ, et al. Royal College of Ophthalmologists' National Ophthalmology Database study of cataract surgery: report 8, cohort analysis of the relationship between intraoperative complications of cataract surgery and axial length. *BMJ Open* 2022;12:e053560. doi:10.1136/bmjopen-2021-053560

► Prepublication history and additional supplemental material for this paper are available online. To view these files, please visit the journal online (<http://dx.doi.org/10.1136/bmjopen-2021-053560>).

Received 23 February 2022
Accepted 02 August 2022



© Author(s) (or their employer(s)) 2022. Re-use permitted under CC BY-NC. No commercial re-use. See rights and permissions. Published by BMJ.

For numbered affiliations see end of article.

Correspondence to
Dr Alexander C Day;
alex@alexday.co.uk

ABSTRACT

Objectives. To describe the relationships between axial length and intraoperative complications in patients undergoing cataract surgery.

Design. Cohort analysis of the Royal College of Ophthalmologists' National Ophthalmology Database (RCOphth NOD).

Setting. 110 National Health Service Trusts in England, Health Boards in Wales, Independent Sector Treatment Centres and Guernsey.

Participants. 820 354 patients, aged 18 years or older, undergoing cataract surgery. Eligible operations were those from centres with at least 50 operations with a recorded axial length measurement and age at surgery between 1 April 2010 and 31 August 2019.

Interventions. Phacoemulsification where the primary intention was cataract surgery alone.

Outcome measures. Posterior capsule rupture (PCR) and other recorded intraoperative complications.

Results. 1 211 520 eligible operations were performed by 3210 surgeons. The baseline axial length was <21 mm (short eyes) for 17 170 (1.4%) eyes, 21–28 mm (medium eyes) for 1 182 513 (97.6%) eyes and >28 mm (long eyes) for 11 837 (1.0%) eyes. The median age at surgery was younger for patients with long eyes than those with short or medium eyes. The rate of any intraoperative complication was higher for short eyes than medium or long with complication rates of 4.5%, 2.9% and 3.3%, respectively ($p<0.001$). PCR occurred in 1.40% surgeries overall, and in 1.53%, 1.40% and 1.61% of short, medium and long eyes, respectively ($p=0.043$, not significant at the 1% level).

Conclusions. Overall PCR rates for cataract surgery in RCOphth NOD contributing centres are lower than previously reported and there is little change in PCR rates by axial length. Short eyes were more likely to have an intraoperative complication than medium or long eyes.

INTRODUCTION

Cataract surgery is one of the most commonly performed operations with almost half a

STRENGTHS AND LIMITATIONS OF THIS STUDY

- This analysis is from the largest Royal College of Ophthalmologists' National Ophthalmology Database dataset to date and the findings are representative of those anticipated in English, Welsh and Guernsey ophthalmic departments with data from traditional National Health Service hospitals and the independent sector.
- The results for each intraoperative complication including the subdivision of posterior capsule rupture are influenced by small event rates in a large sample.
- Almost half of patients had cataract surgery on both eyes, which introduces patient-level correlation that impacts on the statistical comparisons.
- There may also be reporting bias as clinicians are required to select the presence of ocular comorbidities and also report the occurrence of surgical complications.

million surgeries performed by the National Health Service (NHS) in England in 2019–2020.¹ Both first and second eye cataract surgery are cost-effective, and have significant indirect societal and health economic advantages including greater social inclusion and participation, improvements in mental health, reducing falls and incidence of road traffic accidents.^{2–6}

The Royal College of Ophthalmologists' National Ophthalmology Database (RCOphth NOD) was established over a decade ago in the UK to provide a national audit service allowing comparisons of surgery outcomes and complication rates between units and surgeons, and also for research. A number of RCOphth NOD analyses have been published for cataract surgery including

Royal College Of Ophthalmologists Cataract Surgery Guidelines

Y Pai

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Royal College Of Ophthalmologists Cataract Surgery Guidelines:

Royal College Of Ophthalmologists Cataract Surgery Guidelines Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Royal College Of Ophthalmologists Cataract Surgery Guidelines**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://crm.avenza.com/files/publication/default.aspx/real_life_application_of_volume_of_pyramid.pdf

Table of Contents Royal College Of Ophthalmologists Cataract Surgery Guidelines

1. Understanding the eBook Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - The Rise of Digital Reading Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Advantages of eBooks Over Traditional Books
2. Identifying Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - User-Friendly Interface
4. Exploring eBook Recommendations from Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Personalized Recommendations
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines User Reviews and Ratings
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines and Bestseller Lists

5. Accessing Royal College Of Ophthalmologists Cataract Surgery Guidelines Free and Paid eBooks
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines Public Domain eBooks
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines eBook Subscription Services
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines Budget-Friendly Options
6. Navigating Royal College Of Ophthalmologists Cataract Surgery Guidelines eBook Formats
 - ePub, PDF, MOBI, and More
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines Compatibility with Devices
 - Royal College Of Ophthalmologists Cataract Surgery Guidelines Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Highlighting and Note-Taking Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Interactive Elements Royal College Of Ophthalmologists Cataract Surgery Guidelines
8. Staying Engaged with Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Royal College Of Ophthalmologists Cataract Surgery Guidelines
9. Balancing eBooks and Physical Books Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Royal College Of Ophthalmologists Cataract Surgery Guidelines
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Setting Reading Goals Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Fact-Checking eBook Content of Royal College Of Ophthalmologists Cataract Surgery Guidelines
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Royal College Of Ophthalmologists Cataract Surgery Guidelines Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Royal College Of Ophthalmologists Cataract Surgery Guidelines free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Royal College Of Ophthalmologists Cataract Surgery Guidelines free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic.

While downloading Royal College Of Ophthalmologists Cataract Surgery Guidelines free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Royal College Of Ophthalmologists Cataract Surgery Guidelines. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Royal College Of Ophthalmologists Cataract Surgery Guidelines any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Royal College Of Ophthalmologists Cataract Surgery Guidelines Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Royal College Of Ophthalmologists Cataract Surgery Guidelines is one of the best book in our library for free trial. We provide copy of Royal College Of Ophthalmologists Cataract Surgery Guidelines in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Royal College Of Ophthalmologists Cataract Surgery Guidelines. Where to download Royal College Of Ophthalmologists Cataract Surgery Guidelines online for free? Are you looking for Royal College Of Ophthalmologists Cataract Surgery Guidelines PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Royal College Of Ophthalmologists Cataract Surgery Guidelines. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money

and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Royal College Of Ophthalmologists Cataract Surgery Guidelines are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Royal College Of Ophthalmologists Cataract Surgery Guidelines. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Royal College Of Ophthalmologists Cataract Surgery Guidelines To get started finding Royal College Of Ophthalmologists Cataract Surgery Guidelines, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Royal College Of Ophthalmologists Cataract Surgery Guidelines So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Royal College Of Ophthalmologists Cataract Surgery Guidelines. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Royal College Of Ophthalmologists Cataract Surgery Guidelines, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Royal College Of Ophthalmologists Cataract Surgery Guidelines is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Royal College Of Ophthalmologists Cataract Surgery Guidelines is universally compatible with any devices to read.

Find Royal College Of Ophthalmologists Cataract Surgery Guidelines :

real life application of volume of pyramid

reading and study workbook pearson chemistry answers chapter 11

real world situation multiplying polynomials

realistic pro-39 hyperscan manual

rebar detailing guide

realidades 2-guided practice answer key 4a

[realidades spanish 2 final exam answers](#)

realidades 1 guided practice answer key 5a

[real estate assistant training manual template](#)

[realidades 1 capitulo 8a answers](#)

[realidades 1 capitulo 8a practice writing actividad 11](#)

[ready common core ccls answer key 7](#)

[realidades 2 practice workbook 1a 8 answer key](#)

rear fog is200 wiring diagram

[realistic stereo manual](#)

Royal College Of Ophthalmologists Cataract Surgery Guidelines :

Fats That Heal, Fats That Kill: The Complete ... Books on diet only scratch the surface compared to Udo's Fats that Heal Fats that Kill. ... fats: hydrologized fat contained in shortning. By the end of this book ... Udo Erasmus - Fats That Heal, Fats That Kill Books on diet only scratch the surface compared to Udo's Fats that Heal Fats that Kill. ... fats: hydrologized fat contained in shortning. By the end of this book ... Fats That Heal, Fats That Kill: The Complete Guide to ... If vinegars are made faster than burned, enzymes hook them end to end to make excess cholesterol and SFAs. EXCESS VINEGARS MORE TOXIC THAN DIETARY FATS. Fat ... Fats that Heal, Fats that Kill: The Complete Guide to Fats, Oils Contents ; Hidden Junk Fats and Fat Substitutes. 249 ; New Research New Fats Fat Finding Missions Breakthroughs Applications. 251 ; Virgin Olive Oils Unrefined ... Fats That Heal Fats That Kill - Berkeley Fats That Heal Fats That Kill. Fats That Heal Fats That Kill. Product Image. Product Description. Erasmus. Growing Standard: Lhasa Karnak. In stock! Usually ... The Complete Guide to Fats, Oils, Cholesterol and Human ... FATS THAT HEAL, FATS THAT KILL : The Complete Guide to Fats, Oils, Cholesterol and Human Health. Vancouver: Alive Books, 1993. FATS That HEAL, FATS That KILL This classic reference offered ground-breaking insight into the role of fats and our health. More health problems come from damaged oils than any other part ... Fats that Kill, Fats that Heal by Udo Erasmus Fats That Kill, Fats That Heal is one of the few books for the lay public on ... fat butter from raw milk as Dr. Price did. Hemp oil itself has to go through ... Espaces French Answers.pdf French Espaces Supersite Answers [Books] Espaces French Answer Key Espaces ... Workbook Answers,Vtu Engineering Physics Viva Questions With Answers. Course Hero ... Espaces French Answers 2 .pdf French Espaces Supersite Answers [Books] Espaces French Answer Key Espaces ... Workbook Answers,Jko Sere 100 Captivity Exercise Answers,Scarlet Letter Study ... Espaces: Rendez-vous Avec Le Monde Francophone : ... Amazon.com: Espaces: Rendez-vous Avec Le Monde Francophone : Workbook / Video Manual / Lab Manual Answer Key (French and English Edition): 9781593348380: ... Workbook Answer Key - French

Learn@Home Please complete the workbook on your own FIRST. Then use the following answer keys to self correct your work. ... All chapters must be check and "signed off on" ... ANSWER KEY - WORKBOOK B. 1 Nothing - they are free. 2 Eiffel Tower (Paris) and the Empire State. Building (New York). 3 You can see many of London's best sights from here. Answer key Answer key. 2. 1 Greek and Roman history. 2 He doesn't have as much background knowledge as the other students. 3 Reading some history or a book by Herodotus. Rendez-vous Avec Le Monde Francophone : Workbook ... Espaces: Rendez-vous Avec Le Monde Francophone : Workbook / Video Manual / Lab Manual Answer Key (French and English Edition) - Softcover ; Softcover. ISBN 10: ... Espaces, 4th Edition - French Vibrant and original, Espaces takes a fresh, student-friendly approach to introductory French, aimed at making students' learning and instructors' teaching ... Espaces, 5th Edition Vibrant and original, Espaces takes a fresh, student-friendly approach to introductory French, aimed at making students' learning and instructors' teaching ... Molecular Biology 5th Edition Textbook Solutions Access Molecular Biology 5th Edition solutions now. Our solutions are written by Chegg experts so you can be assured of the highest quality! Molecular Biology (5th Ed) Weaver is the divisional dean for the science and mathematics departments within the College, which includes supervising 10 different departments and programs. Molecular Biology 5th Edition - Chapter 20 Solutions Access Molecular Biology 5th Edition Chapter 20 solutions now. Our solutions are written by Chegg experts so you can be assured of the highest quality! Molecular Biology: 9780073525327: Weaver, Robert: Books Molecular Biology, 5/e by Robert Weaver, is designed for an introductory course in molecular biology. Molecular Biology 5/e focuses on the fundamental concepts ... Test Bank For Molecular Biology 5th Edition Robert Weaver 1. An experiment was designed to obtain nonspecific transcription from both strands of a. DNA molecule. Which of the following strategies would be most ... Molecular Biology, 5th Edition [5th ed.] 0073525324, ... Molecular Biology, 4/e by Robert Weaver, is designed for an introductory course in molecular biology. Molecular Biology... Molecular Biology 5th edition 9780071316866 Molecular Biology 5th Edition is written by Robert Weaver and published by McGraw-Hill International (UK) Ltd. The Digital and eTextbook ISBNs for Molecular ... Molecular Biology - Robert Franklin Weaver Find all the study resources for Molecular Biology by Robert Franklin Weaver. Molecular Biology 5th edition (9780073525327) Molecular Biology, 4/eby Robert Weaver, is designed for an introductory course in molecular biology. Molecular Biology 5/e focuses on the fundamental concepts ...