



# Complications in Ocular Surgery: A Guide to Managing the Most Common Challenges

By Amar Agarwal MS FRCS FRCOphth

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In *Complications in Ocular Surgery: A Guide to Managing the Most Common Challenges*, Dr. Amar Agarwal presents nearly 30 chapters dedicated to surgery in all specialties and the potential complications that can arise. Each chapter provides extensive knowledge and a firm grasp of potential complications to prepare the surgeon for the complications to expect and strategies to avoid them.

Reputed international ophthalmic surgeons with extensive experience will offer their expertise to the reader in the prevention, identification, and management of complicated cases. Chapters are presented in an easy to comprehend format, written in user-friendly language, and are abundantly illustrated with more than 375 high-quality images.

*Complications in Ocular Surgery: A Guide to Managing the Most Common Challenges* advances the reader's understanding to a new level by including an interactive website of top quality videos on the most usual complications in cataract, refractive, retina, glaucoma, oculoplastics, and cornea surgeries. All text from the book will appear and be reinforced throughout the website, providing a full spectrum of coverage.

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Practicing ophthalmologists, sub-specialists, as well as ophthalmic residents and medical students will benefit from this compact, yet widely comprehensive guide. *Complications in Ocular Surgery: A Guide to Managing the Most Common Challenges* and access to the video website will provide a new level of knowledge in surgical complications.

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### Editorial Review

#### About the Author

*Amar Agarwal, MS, FRCS, FRCOphth* is the pioneer of Phakonit, which is Phako with a needle incision technology. This technique became popularized as bimanual phaco, microincision cataract surgery (MICS), or microphaco. Dr. Agarwal was the first to remove cataracts through a 0.7-mm tip with the technique called microphakonit. He has also discovered no-anesthesia cataract surgery and FAVIT, a new technique to remove dropped nuclei. The air pump, which was a simple idea of using an aquarium fish pump to increase the fluid into the eye in bimanual phaco and coaxial phaco, has helped prevent surge. This built the basis of various techniques of forced infusion for small-incision cataract surgery. He has also discovered a new refractive error called aberropia. He has also been the first to do a combined surgery of microphakonit (700-micrometer cataract surgery) with a 25-gauge vitrectomy in the same patient, thus having the smallest incisions possible for cataract and vitrectomy. He is also the first surgeon to implant a new mirror telescopic IOL (LMI) for patients suffering from age-related macular degeneration. He has also been the first in the world to implant a glued IOL. In this, a PC IOL is fixed in an eye without any capsules using fibrin glue. The Malyugin ring for small pupil cataract surgery was also modified by him as the Agarwal modification of the Malyugin ring for miotic pupil cataract surgeries with posterior capsular defects. Dr. Agarwal's Eye Hospital has also done an anterior segment transplantation in a 4-month-old child with anterior staphyloma for the first time. He also has brought out the technique of IOL scaffold in which a 3-piece IOL is injected into an eye between the iris and the nucleus to prevent the nucleus from falling down in posterior capsular ruptures. Dr. Agarwal's Eye Hospital has also done for the first time a glued endocapsular ring in cases of subluxated cataract.

Dr. Agarwal has received many awards for his work done in ophthalmology, most significant being the Casebeer Award, the Barraquer Award, and the Kelman Award. His videos have won many awards at the film festivals of ASCRS, AAO, and ESCRS. He has also written more than 50 books that have been published in various languages, including English, Spanish, and Polish. He also trains doctors from all over the world in his center on phaco, bimanual phaco, lasik, and retina. He is the Chairman and Managing Director of Dr. Agarwal's Group of Eye Hospitals, which has 50 eye hospitals. He is also Professor of Ophthalmology at Ramachandra Medical College in Chennai, India. He can be contacted at [bookspublishing@slackinc.com](mailto:bookspublishing@slackinc.com).

*Soosan Jacob, MS, FRCS, DNB, MNAMS* is a Senior Consultant Ophthalmologist in Dr. Agarwal's Eye Hospital, Chennai, India. She is a gold medalist in ophthalmology. She has won many international awards for video films and challenging cases at prestigious international conferences such as ASCRS, AAO, WOC, and ESCRS; she has received the Special Gold Medal of the Indian Intraocular Implant and Refractive Society (IIRSI) and is the only winner of the prestigious Golden Apple Award for the Challenging Cases Symposium in Cataract Surgery at the ASCRS twice. She has also won the prestigious John Henahan Award for Young Ophthalmologist given by EuroTimes at the European Society of Cataract and Refractive Surgery in 2011. She is a noted speaker and has been invited to conduct courses and deliver lectures in numerous national and international conferences. She has special interest in cutting-edge surgical techniques for cataract, cornea, glaucoma, and refractive surgery, including intrastromal ring segments, ocular surface reconstruction, subluxated cataracts, new refractive solutions, and so on. Dr. Jacob was the first to bring out the concept of anterior segment transplantation where the cornea, sclera, and an artificial iris, pupil, and IOL are transplanted en bloc in patients with anterior staphyloma. She also devised a new technique—the

Jacob–Agarwal technique of suprabrow single-stab incision ptosis surgery—where the sling surgery can be done with primarily a one-stab incision rather than three, thus improving the postoperative cosmetic appearance of the patient as compared to previous techniques. She has devised 2 new techniques, the turnaround technique and the double-pass turnaround technique, for successful completion of femtosecond laser-assisted Intacs implantation in eyes with false channel dissection for both symmetric and asymmetric Intacs segments. This technique won an award at the Australian Society of Cataract and Refractive Surgery in 2010. She has also described a new technique of relaxing descemetotomy for taut Descemet membrane detachment in the cornea and has proposed a new classification system and treatment algorithm for Descemet membrane detachments. She has also designed a new intraocular device, the glued endocapsular ring for fibrin glue-assisted sutureless transscleral fixation of the capsular bag, which makes safe phacoemulsification in subluxated cataracts possible and provides good intraoperative and postoperative safety and stability. She has also won an award for the same at the prestigious American Society of Cataract and Refractive Surgery Film Festival in 2012. She has authored many articles and numerous chapters in 27 textbooks for international and national publishers, and is also the Editor of 10 textbooks on ophthalmology. She is a Senior Faculty Member of the Diplomate of National Board (DNB) postgraduate training program, and phacoemulsification and LASIK training program for overseas doctors. She is an Editorial Board Member of the ISRS/AAO Multimedia Library and the Ocular Surgery News–Asia Pacific Edition. She is also an Executive Committee Member of the Indian Intraocular Implant and Refractive Society. Her life and work has been featured on the cover page of Ocular Surgery News in the article titled “Ophthalmic Innovator Balances Love of Surgery, Research and Teaching.” She can be contacted at [bookspublishing@slackinc.com](mailto:bookspublishing@slackinc.com).

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