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# Surgical Ophthalmic Oncology

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Sonal S. Chaugule  
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Editors

# Surgical Ophthalmic Oncology

A Collaborative Open Access  
Reference

 Springer

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This book is an open access publication.

ISBN 978-3-030-18756-9      ISBN 978-3-030-18757-6 (eBook)

<https://doi.org/10.1007/978-3-030-18757-6>

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## Foreword

The readers are receiving this outstanding book which documents major advancements in the field of ocular oncology. Ocular oncology services are typically provided by highly trained subspecialists. However, general ophthalmologists also need to be sufficiently familiar with early signs, diagnostics, and treatment options to ensure timely management of oncological eye conditions which may progress into vision and life-threatening diseases. Several years of collaborative work have brought together more than 25 authors comprising ophthalmic oncologists, ophthalmic plastic and reconstructive surgeons, vitreo-retinal surgeons, ocular pathologists, and radiation oncologists from many internationally renowned healthcare institutions around the world.

This book was designed to describe symptoms, diagnostic, and treatment approaches for oncologic conditions. It includes indications, pre- and postoperative care, and surgical techniques required to manage various eye cancer ailments with the help of ample illustrations. The text provides a detailed approach to treatment for common and rare diseases and summarizes the key points required for performing the surgeries. The video atlas, comprising of more than 20 well-edited videos, is a valuable opportunity to review the actual surgical steps and enables the readers to understand the procedures in a comprehensive manner. The learning experience of the user is significantly enhanced by these easy-to-follow tutorials.

This book is fully in line with the strategic goals of the International Council of Ophthalmology (ICO) to improve patient's lives and eyesight by improving education and knowledge. General ophthalmologists, ocular oncologists, fellows, and residents as well as students in training will all stand to benefit from this unique collaborative effort. The truly international cooperation, the open-access nature and availability of the book everywhere in the world, and this up-to-date resource as a guiding tool in the field of surgical ophthalmic oncology make it a special delight for the ICO.

Peter Wiedemann, MD  
Ivo Kocur, MD  
International Council of Ophthalmology  
San Francisco, CA, USA

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## Preface

Ophthalmic oncologists care for the rare and unusual tumors of the eye, lids, and orbit. Around the world, there exist fewer than 300 known eye cancer surgeons. In fact, there are almost 40 countries with no fellowship-trained eye cancer specialist and many more that are underserved.

In 2015, the first Eye Cancer Working Day was held at the Curie Institute in Paris, France. During that meeting, Drs. Honavar and Finger recognized the opportunity to address the needs of the millions of eye cancer patients who do not have access to subspecialty care. It was proposed that a book containing preferred practice guidelines with surgical videos be published in an open-access format to offer ophthalmic surgeons guidance in underserved and unserved countries.

After almost 2.5 years of work, this book is a result of collaborative efforts of more than 25 authors which include ophthalmic oncologists, ophthalmic plastic and reconstructive surgeons, vitreoretinal surgeons, ocular pathologists, and radiation oncologists from various renowned centers spread over in total of five continents. We have enjoyed this unique opportunity to work with all the contributors in collaboration.

*With the help of 'The Eye Cancer Foundation', this project has materialized into a textbook and video atlas of surgical techniques involved in managing diseases related to ophthalmic oncology. We are hopeful that it would be a valuable resource for general ophthalmologists, surgeons as well as fellows and trainees around the world who encounter these diseases in the care of their patients. (Paul T. Finger, MD, Chief Executive Officer of the Eye Cancer Foundation (ECF))*

The layout of this book has been organized so that it is simple to use as a quick reference. This book covers tumors of the eyelid, cornea, conjunctiva, and orbit as well as intraocular tumors. A chapter dedicated to ophthalmic radiation therapy has been added to describe the eye sparing methods of treatment. It provides vital key points regarding radiation physics to be considered by ophthalmic oncologists during radiation treatment planning. Ophthalmic pathology is an integral part of ophthalmic oncology. A chapter on pathology has been included to guide the operating surgeons with the essential guidelines regarding specimen collection, transport, and interpretation of pathology report.

This book was designed to include indications, pre- and postoperative care, and surgical techniques required to manage the various eye cancer ailments with the help of ample illustrations. The text provides a detailed approach to treatment and summarizes the key points required for performing

the surgeries, whereas the video atlas gives an opportunity to review the actual surgical steps as a guiding tool. The atlas comprising of more than 20 well-edited videos would enable the readers to understand the procedures in a more comprehensive manner.

However, we understand that this reference is not a complete compilation of all the existent surgical techniques involved in ophthalmic oncology. The authors aim to provide preferred practice guidelines from their own experience. The surgical techniques may vary between different centers, countries, and areas of the world. We sincerely hope that this book would be able to guide the practitioners from underserved countries with even limited resources to manage the diseases which will allow them to adhere to the oncological principles and achieve optimal outcomes.

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New York, NY, USA

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## Acknowledgments

We gratefully acknowledge the important role of Dr. Paul T. Finger and “The Eye Cancer Foundation (ECF)” for supporting the concept of a Collaborative Open Access Surgical Textbook (COAST) at the First Eye Cancer Working Day held at the Curie Institute, Paris, France, in 2015. There, Dr. Santosh G. Honavar and colleagues presented COAST as a method to help eye care professionals in unserved and underserved areas of the world. The project would not have been possible without ECF’s generous contributions. In addition, we heartily thank the ECF board, trustees, and donors for underwriting this open-access effort. We also recognize the encouragement from the leadership of the International Council of Ophthalmology (ICO). All have supported the idea behind this book and gave constant encouragement during its execution.

However, it would not have been possible without all our contributors fulfilling their roles as authors in a timely manner. Their willingness as well as enthusiasm to create what has become a relevant and novel ophthalmic oncology resource for ophthalmologists and trainees in developing and underserved areas around the world has been very impressive. We must also acknowledge the reviewers who kindly offered their input for completion of chapters, including Drs. Sonal S. Chaugule, Carol Karp, Daniel Rootman, Steffen Heegaard, and Vikas Khetan. We thank them for donating their time and expertise in reviewing all the chapters.

We are also grateful to the wonderful team of editors at Springer with whom Dr. Sonal S. Chaugule has shepherded this work from inception to production. The final product would not have been possible without her invaluable contribution.

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