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# Ocular Trauma

**Series Editor**

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Ocular trauma can be a serious threat to vision, especially if not medically intervened appropriately and in a timely fashion. Immediate and accurate diagnosis and effective treatment is the key to save the eyes and visual function, as well as a great challenge to ophthalmologists, especially emergency doctors. This book series is designed to help the doctors and clinical practitioners have a thorough understanding of ophthalmic emergencies and a mastery of every details of ocular trauma. To do the best, it is required that the ER doctors have solid theoretical knowledge about the anatomy of the eye and basic skills in ophthalmic operations. For that reason, "Anatomy and examination of ocular trauma" is believed to be necessary and fundamental for this book series. Beyond this, familiarity with the emergency room and efficient protocol will be helpful for the doctors to give treatment in the first time, and it will also be an important part of this book series. Almost all the aspects and details of ocular trauma will be covered in this book series, including mechanical and non-mechanical ocular trauma. Special topics of complicated situations, such as ciliary body impairment, will also be introduced in this book series. Hopefully the readers will enjoy it and find it helpful for them to provide better care to the patients and save vision.

More information about this series at <http://www.springer.com/series/15621>

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Hua Yan  
Editor

# Ocular Emergency

 Springer



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## Preface

Ocular emergency involves a series of diseases that may take a heavy toll on visual function in a short period, thus requiring ophthalmologists to make diagnosis and give treatment timely and accurately to cut the patients' loss as much as possible, especially in the era of precision medicine. With the rapid development of science and technology, multiple advanced equipment have been used in clinical diagnosis and treatment. However, good theoretical knowledge and a streamlined clinical process are important to the prognosis of ocular emergency. With good theoretical knowledge, ophthalmologists can recognize the disease within a short time, and with a streamlined clinical process, ophthalmologists can give the most efficient management to the patient. For the ophthalmologists, especially for young ophthalmologists, a precise and high efficiency clinical process is essentially needed. Hence, this book may give a direction to them. The focus of this book is on the basic theoretical knowledge of ocular emergency, including the pathogenesis, manifestations, diagnosis, differential diagnosis, emergency treatment, and follow-up care, with a large amount of pictures and tables. It also focuses on introducing the emergency room and clinical process for young ophthalmologists who are just starting to comprehend ocular emergency.

The authors of this book are top-rated doctors and professors from around the world, including:

- Hong Yan, MD, PhD\*, and Song Wang, MD (Chap. 1)
- Haoyu Chen, MD, PhD\*, and Danny Siu-Chun Ng, MD (Chap. 2)
- Hua Yan, MD, PhD\*; Jiaxing Wang, MD; Ying Li, MD; Xiangda Meng, MD, PhD; and Xuyang Yao, MD (Chap. 3)
- Bo Huang, MD, PhD\* (Chap. 4)
- Gokhan Gurelik, MD\*, and Huseyin Baran Ozdemir, MD (Chap. 5)
- Bo Huang, MD, PhD\*, and Suxia Li, MD, PhD (Chap. 6)
- Ugur Acar, MD; Ahmet Murat Hondur, MD; and Gungor Sobaci, MD, PhD\* (Chap. 7)
- Sengul Ozdek, MD\*, and Ece Ozdemir, MD (Chap. 8)
- Weiyun Shi, MD, PhD\*, and Suxia Li, MD, PhD (Chap. 9)
- Haoyu Chen, MD, PhD\*; Dan Chao, PhD; Guihua Xu, PhD; Chen Lin, PhD; and Zeyi Li, MD (Chap. 10)
- \*Corresponding author for each chapter

All of them have solid theoretical basis and abundant clinical experience. The authors' and their students' footprints cover the whole world including Asia, America, and Europe. Hundreds of thousands of patients' vision have been saved by them. In this book, they share the essence of their decades of clinical work and hope that it can help ophthalmologists to promote their diagnosis and treatment skills in ophthalmology emergency. However, because the book is highly professional and the authors focus differently, there may be some different opinions from doctors all over the world. And all the different views are welcomed and valued. We will be glad to discuss these with all colleagues.

Lastly, I hope this book can provide a reference for ophthalmologists to save more patients' visual function and can make a contribution to blindness prevention.

Tianjin, China

Hua Yan

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