

---

# CORNEAL DISEASES AND MANAGEMENT IN THE GERIATRIC POPULATION

---

*Series Editor*

Büşra Dilara YILDIRIM ERDAL

©2024 Corneal Diseases and Management in the Geriatric Population

ISBN: 978-625-98719-5-0

All rights reserved. Pursuant to Law No. 5846 and 2936 on Intellectual and Artistic Works; The rights of printing, publishing and sales of this book belong to MediHealth Academy Publishing without the permission of the corporation all or parts of the book may not be reproduced, printed or distributed by mechanical, electronic, photocopying, magnetic paper and/or other methods. Tables, figures and graphics cannot be used for commercial purposes without permission. The responsibility of the pictures and information used in the sections belongs to the author(s) of that section.

**Editor**

Büşra Dilara YILDIRIM ERDAL

**Publisher**

MediHealth Academy

**Project Coordinator**

Meryem YAVUZ  
(MediHealth Academy)

**Graphic-Design**

Çiğdem YÜCEL  
(MediHealth Academy)

**Edition-Volume**

Ankara Özgür Matbaacılık Basım Yayın Dağ. San. Tic. A.Ş.  
1250. Cadde No: 25 Ostim OSB Yenimahalle / Ankara  
Certificate Number: 46821



**Address:** SBÜ Teknoloji Geliştirme Merkezi (SBÜ TEKMER) Gülhane Yerleşkesi  
Emrah Mah. General Dr. Tevrik Sağlam Cad. No: 2/67, İç Kapı No: 101  
Keçiören, Ankara, Türkiye

**Phone:** +90 532 061 96 80

**e-mail:** mha@medihealthacademy.com

www.medihealthacademy.com

# Contents

Chapters .....	i
Contributors .....	iii
Preface .....	v
About MediHealth Academy and Thanks to.....	vii

## CHAPTERS

---

Chapter 1 Dry Eye and Management in Geriatric Population .....	1
Chapter 2 Management of Keratitis in Geriatric Population .....	11
Chapter 3 Keratopathies and Management in Geriatric Population .....	27
Chapter 4 Corneal Degenerations, Dystrophies, Ectasias and Management in Geriatric Population .....	33
Chapter 5 Contact Lens Applications in Geriatric Population .....	43
Chapter 6 Refractive Surgery in Geriatric Population .....	47
Chapter 7 Keratoplasty Applications in Geriatric Population.....	55
Index.....	63



# Contributors

## **Ayşe BOZKURT OFLAZ**

*Department of Ophthalmology, Faculty of Medicine,  
Selçuk University, Konya, Türkiye*

## **Burcu YÜCEKUL**

*Department of Ophthalmology, Haseki Training and  
Research Hospital, University of Health Sciences,  
İstanbul, Türkiye*

## **Büşra Dilara YILDIRIM ERDAL**

*Department of Ophthalmology, Ankara Etlik City  
Hospital, Ankara, Türkiye*

## **Çiğdem COŞKUN**

*Department of Ophthalmology, Ankara Bilkent City  
Hospital, Ankara, Türkiye*

## **Esra DAĞ ŞEKER**

*Department of Ophthalmology, Ankara Bilkent City  
Hospital, Ankara, Türkiye*

## **Hande Hüsniye TELEK**

*Department of Ophthalmology, Dışkapı Yıldırım  
Beyazıt Training and Research Hospital, University of  
Health Sciences, Ankara, Türkiye*

## **Sibel ZIRTILOĞLU**

*Department of Ophthalmology, Kanuni Sultan  
Süleyman Training and Research Hospital, İstanbul,  
Türkiye*



# Preface

Dear Colleagues,

Advances in medicine and technology have led to an increase in the average human lifespan. Increasing life expectancy has caused an increase in the geriatric (elderly) population, defined as those aged 65 years and over. Health problems in the geriatric population are observed in a unique and wide range in every field of medicine, and they also have an essential role in the field of ophthalmology. Cataracts, glaucoma, corneal opacities, age-related macular degeneration, and other causes of blindness and low vision are more frequently observed in the geriatric population. Corneal and ocular surface diseases are essential in geriatric patients, as they cause blindness and low vision, and are important in hospital admissions and hospitalizations.

Many valuable and essential books on corneal and ocular surface diseases have been published internationally. This book is essential because it only compiled corneal and ocular surface diseases that are common in the geriatric population. This book discusses corneal and ocular surface diseases in the geriatric population in terms of epidemiology, pathogenesis, risk factors, classification, clinical diagnosis, and current treatment developments. We hope that the book will help and guide ophthalmologists, geriatricians, and many clinicians working in this field regarding the ophthalmological problems they encounter.

We are pleased to share our books with the readers. I would like to thank the valuable authors who wrote the chapters of this book and shared their experiences in their fields with us. I want to express my sincere gratitude to the managers, editors, and all publishing house employees for their efforts in publishing this book.

Editor  
Büşra Dilara YILDIRIM ERDAL, Specialist, MD  
Ankara, 2024

Kitap Adı

*Corneal Diseases and Management in the Geriatric Population*



# About MediHealth Academy and Thanks to

Dear Readers,

The MediHealth Academy is an Ankara-based independent publisher managed by academics of medical origin, with more than 20 years of academic background. The expert team collaborated with university lecturers and the academic community to produce book projects. The mission of the publisher is to lead journals containing high-scientific-value articles in the fields of medicine and health sciences to capture the diversity of regional and international articles and citations.

The main interest of MediHealth Academy Publishing is in scientific publications. Within the body of the MediHealth Academy, many books will both contribute to the scientific literature and guide the problems faced by experts in that field in daily practice, and book projects. The aim of the books and book chapters pioneered by the MediHealth Academy is to contribute to a high scientific value by preparing a subject in an area that lacks scientific knowledge.

We hope that this book series, which addresses ophthalmology in a certain age group and includes diseases and treatments of certain parts of the eye, will be useful to all readers. We will continue to support book projects that shed light on science.

MediHealth Academy Publishing  
Ankara, Turkiye

