
STRABISMUS,
NEURO-OPHTHALMOLOGICAL
DISORDERS, AND MANAGEMENT IN THE
PEDIATRIC POPULATION

Series Editor
Selda ÇELİK DÜLGER

©2024 Strabismus, Neuro-ophthalmological Disorders, and
Management in the Pediatric Population

ISBN: 978-625-98719-1-2

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

Selda ÇELİK DÜLGER

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. Tevfik Sağlık 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 Paralytic Strabismus and its Management in Pediatric Population.....	1
Chapter 2 Non-paralytic Strabismus and Management in Pediatric Population	9
Chapter 3 Optic Nerve Disorders in Pediatric Population	19
Chapter 4 Pupillary Diseases and Management in Pediatric Population	29
Chapter 5 Optic Neuropathies Associated with Systemic Diseases in Pediatric Population and Management.....	37
Index.....	49

*Strabismus, Neuro-ophthalmological disorders, and Management
in the Pediatric Population*

Contributors

Alev KOÇKAR

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

Aslıhan UZUN

Department of Ophthalmology, Faculty of Medicine, Ordu University, Ordu, Türkiye

Kader KASAR

Department of Ophthalmology, Ordu University Training and Research Hospital, Ordu, Türkiye

Rabiatül Büşra AKDAN BİLEN

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

Selda ÇELİK DÜLGER

Department of Ophthalmology, Etlik City Hospital, Ankara, Türkiye

*Strabismus, Neuro-ophthalmological disorders, and Management
in the Pediatric Population*

Preface

Dear Colleagues,

Disorders of the optic nerve are known as optic neuropathies. The most common categories of diseases affecting the optic nerve are inflammation (optic neuritis), ischemia (ischemic optic neuropathy), compression/infiltration (neoplastic or non-neoplastic), hereditary, degenerative, toxic/nutritional, traumatic, and raised intracranial or intraocular pressures (glaucoma). It can be an anterior optic neuropathy (swelling of the optic nerve head), or a posterior / retrobulbar optic neuropathy (optic nerve head appears normal).

Inflammatory optic neuropathies can be related to idiopathic demyelinating optic neuritis (associated with multiple sclerosis), neuromyelitis optica spectrum disorder (NMOSD), myelin oligodendrocyte glycoprotein (MOG)-associated optic neuritis, acute disseminated encephalomyelitis (ADEM), systemic infections, and systemic inflammatory diseases. Inflammation of the optic nerve is known as optic neuritis (ON).

The book titled "Strabismus, Neuro-ophthalmological Disorders, and Management in the Pediatric Population" is a comprehensive book that includes specific diagnoses in the pediatric group. We would like to thank everyone who made valuable contributions and hope that this book will be useful to readers.

Editor
Spec. Selda ÇELİK DÜLGER, MD
Ankara, 2024

*Strabismus, Neuro-ophthalmological disorders, and Management
in the Pediatric 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

*Strabismus, Neuro-ophthalmological disorders, and Management
in the Pediatric Population*