

Optic Nerve Disorders

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Diagnosis and Management

Jane W. Chan, MD

*Associate Professor of Ophthalmology and Neurology,
University of Kentucky College of Medicine, Lexington,
Kentucky, USA*

Jane W. Chan, MD
Associate Professor of Ophthalmology and Neurology
University of Kentucky College of Medicine
Lexington, KY
USA

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This book is dedicated to my parents, Tom and Rosalie Chan—especially to my mother for her unconditional love and support. I also appreciate my mentors, Drs. William F. Hoyt, John L. Keltner, and David P. Richman, who have given me guidance in my career.

Preface

This book presents the salient features of optic nerve disorders, encompassing optic neuritis, papilledema, ischemic optic neuropathies, compressive and infiltrative optic neuropathies, traumatic optic neuropathies, nutritional and toxic optic neuropathies, hereditary optic neuropathies, and optic disc tumors. Chapters 1 to 9 outline key clinical aspects of each of these disorders. Chapter 10 illustrates some newer applications of optical coherence tomography (OCT) in monitoring optic nerve-related processes causing retinal nerve fiber layer loss and in ruling out retinal disorders. Chapter 11 discusses the adjunctive role of visual evoked potential (VEP), multifocal VEP, electroretinogram (ERG), and multifocal ERG in the diagnosis of more challenging visual problems, especially in distinguishing them from macular disorders and psychogenic etiologies.

Although there are excellent textbooks covering various aspects of neuro-ophthalmology, this book is intended for any physician, including ophthalmologists, neurologists, and neurosurgeons. Fellows, residents, and medical students can acquire an up-to-date knowledge base to better help their patients with optic nerve disorders. It is a unique reference that combines the applications of some newer diagnostic techniques with the symptoms and signs approach to visual loss in a useful and practical format.

Jane W. Chan, MD

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Contributors

Jane W. Chan, MD

Associate Professor of Ophthalmology and Neurology, University of Kentucky College of Medicine, Lexington, KY, USA

Thomas R. Hedges III, MD

Professor of Ophthalmology and Neurology, Tufts University, Director of Neuro-Ophthalmology, New England Eye Center, Tufts-New England Medical Center, Boston, MA, USA

Karen Holopigian, PhD

Research Associate Professor of Ophthalmology, New York University School of Medicine, New York, NY, USA

Donald C. Hood, PhD

James F. Bender Professor of Psychology and Professor of Ophthalmic Sciences (Ophthalmology), Columbia University, New York, NY, USA

Julio A. Rodríguez-Padilla, MD

Clinical Fellow in Neuro-Ophthalmology, Tufts University, Tufts-New England Eye Center, Boston, MA, USA