Neuro-Ophthalmology: Diagnosis and Management

Grant T. Liu, Nicholas J. Volpe, Steven L. Galetta. Neuro-Ophthalmology: Diagnosis and Management, 3rd Edition. New York, NY: Elsevier; 2018. 722 pages. ISBN: 978-0323340441.

For decades, Walsh and Hoyt's *Clinical Neuro-Ophthalmology* was the comprehensive reference text for neuro-ophthalmology, but it is no longer being updated. Thus, a new contemporary reference is needed, and Drs. Liu, Volpe, and Galetta have provided just that. The book is well-organized into 4 main sections: 1. history and examination; 2. visual loss and other disorders of the afferent visual pathway; 3. efferent disorders; and 4. other topics (headache, facial pain, and facial sensation disorders). In addition, there is an online video library accessed with a code provided inside the front cover.

The history and examination section is appropriately succinct and contains many figures comprehensively illustrating numerous examination techniques and equipment. I found the examination technique videos particularly useful.

Section 2 covers afferent visual system disorders divided by anatomical location from retina to higher cortical visual function. The content is well-illustrated and comprehensive. Section 3 addresses efferent disorders of the pupil, eyelid, eye movements, and orbital disorders. Again, the videos set this book apart from others covering everything from physiologic anisocoria to ocular bobbing, dipping, and opsoclonus due to West Nile virus encephalitis. In the book's last well-written section, headache and facial pain syndromes are characterized and categorized in a logical scheme.

The entire book contains a wealth of excellent clinical photographs, diagnostic neuroimages (magnetic resonance, computed tomography, and optical coherence tomography), and surgical anatomical images. The videos are in an indispensable addition, which optimize teaching and understanding of numerous dynamic ocular motility and pupillary abnormalities.

Overall, the new addition of Liu, Volpe, and Galetta's *Neuro-Ophthalmology* is up-to-date, extremely comprehensive and my new reference textbook in neuro-ophthalmology. It will appeal to medical students, ophthalmology and neurology residents, physicians in practice, and even to seasoned neuro-ophthalmologists!

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