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Advances in Ophthalmology and Optometry, Volume 8, is a refreshing compilation of topics within eye care. As editor Myron Yanoff, MD states “We continue to explore the new ideas, the new instruments, the new ways of doing things to give us a fresh frame of reference to sort through the crush of data and to make sense in a real way of how to proceed.” The text is comprised of invited experts within specialty areas of eye care that share up-to-date research, potential controversy and clinical pearls for both optometry and ophthalmology.

As an optometrist in pediatric and neuro-rehabilitative private practice, I appreciate the variety of clinical updates that include Functional vision loss, pediatric aphakia, conjunctival tumors in children, dropless cataract surgery, wet AMD treatments, neuro-ophthalmic complications of COVID-19 and vaccination, virtual visual field testing, photobiomodulation, cortical vision impairment, nasolacrimal duct obstruction; and much more.

With a strong interest in pediatric eye care, I found many of the articles useful. Dr. Damari’s article on visual disability was a rare resource I can reference to create appropriate accommodations for patients with visual deficits. He explains why additional time on tests may actually not be helpful for some patients, and why other accommodations may be appropriate. I appreciated Dr. Fox and Dr. Stern’s article on photobiomodulation and demonstrating how light therapies can improve ocular surface disease, myopia, migraine, amblyopia and visual sequelae after brain injury. I suspect photobiomodulation will be considered more and more in the coming years. The Update on Cortical Visual Impairment by Ong et al was a nice updated review on the leading cause of pediatric blindness. The article emphasized diagnostic testing, early intervention and the necessary multidisciplinary teamwork to optimize visual function.

In our neuro-rehabilitation clinic we frequently observe abnormal eye movements, which accompany neurological deficits such as Parkinson’s disease and progressive supranuclear palsy as well as concussion. The article “Zickzackbewegungen” A Back-to Basics Review of Square Wave Jerks was extremely interesting to shed light on the similarities and differences between a host of neurological deficits and how they manifest irregular eye movement patterns, specifically square wave jerks (SWJ) or saccadic intrusions. Interestingly, there is no evidence that SWJ frequency increases with
age. The article mentioned that there is a lack of normative data in the pediatric population. It appears promising that future research will allow for diagnostic eye movement testing of conditions like Parkinson’s Disease, encephalitis, Alzheimer disease and other neurological degenerative diseases. In the meantime, these biomarkers are commonly appreciated within eye care and a good reminder to refer for brain imaging and neurological consultation as increased SWJ are not a feature of normal aging.

Dr. Yanoff and his section editors do a wonderful job creating sections interesting to both optometrists and ophthalmologists while maintaining elevated specialty content. Volume eight continues to follow in providing relevant and cutting-edge information to support modern clinical practice and a glance at what is to come. Each article is summarized with helpful clinical care points. Thank you to Dr. Yanoff and his team for this excellent compilation of eye care knowledge.