Abstract

Glaucoma which is a leading cause of blindness in the world is not a single disease but a group of disorders with diverse clinical manifestations. If not controlled at an early stage, it causes irreversible damage to vision. Proper medication slows down or even halts its growth. Identifying glaucoma at a very early stage is vital and at the same time difficult. Careful evaluation of Optic nerve head structure and its documentation is extremely important for diagnosis of the disease and to monitor its progression. This paper presents a review of diagnostic techniques available for evaluation of optic nerve head.

References

Diagnostic Methods for Optic Nerve Head and Retinal Nerve Fiber Evaluation in Glaucoma

- Glaucoma, an insight into disease and therapy, Karen Long, CphA 2006, Home study program, Canadian Pharmacists association Online learning centre
- Murray Fingeret, Felipe A. Medeiros, Remo Susanna, Robert N. Weinreb, Five rules to evaluate the optic disc and retinal nerve fiber layer for glaucoma, Optometry, 76 (2005) 661-668
- Pooja Sharma, Pamela A. Sample, Linda M. Zangwill, Joel S. Schuman, Diagnostic tools for glaucoma detection and management, Survey of ophthalmology, 53 (2008) 17-32
- Quantitative three dimensional imaging of the posterior segment with Heidelberg retina tomograph, Heidelberg Engineering GmbH, Heidelberg, Germany
- In Ha Shin, Sung Yong Kang, Samin Hong, Seung Kab Kim, Gong Je Seong, Kyoung Tak Ma, Chan Yun Kim, Comparison of OCT and HRT findings among normal, normal tension glaucoma, and high tension glaucoma, Korean Journal of Ophthalmology, 22 (2008) 236-241

Index Terms

Computer Science  Biomedical

Keywords

Glaucoma  Optic Nerve Head  Retinal Nerve Fiber Layer  Optical Coherence Tomography
Scanning Laser Polarimetry
Confocal Scanning Laser Ophthalmoscopy