Further Advances in Optical Coherence Tomography 2012

This fourth annual supplement to Ophthalmic Surgery, Lasers & Imaging devoted to optical coherence tomography (OCT) is a testament to the unique status and evolution of perhaps the single most important development of the era in ophthalmic imaging.

Presented here are the latest reports of diagnosis and treatment challenges utilizing OCT to study and solve the problem and benefit the patient. They describe the most recent technological innovations and applications of the technique first described in 1991 in the journal Science,¹ and as a group represent the broad range of relevance of this imaging technique.

Original clinical and experimental studies and case reports utilizing spectral-domain OCT, anterior segment OCT, and new findings from even the well-established time-domain OCT, in a diversity of applications for retina, glaucoma, cornea, and anterior segment, are presented. In addition is included a review that provides the most recently updated overview of high-resolution OCT in posterior segment imaging. Discussed in this valuable article and throughout the issue are the topics of combining OCT technology with other imaging modalities, such as scanning laser ophthalmoscopy and advanced adaptive optics, which promises to greatly enhance the lateral resolution of OCT, as well as other innovative approaches such as software technology to capture Doppler OCT retinal blood flow measurements, which promises to add an important functional dimension to the structural details offered by OCT imaging.²

I am very pleased to invite you to join me in the future of imaging in ophthalmology.

REFERENCES

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