Journal of Ophthalmology

Special Issue on

OCT-A in Retinal and Macular Diseases

CALL FOR PAPERS

Fluorescein angiography and indocyanine green angiography are the gold standard in retinal and macular disease in order to visualize the retinal and choroidal vasculatures, respectively. Despite being useful, they are invasive, time-consuming tests based on dye injection and are not free from side effects. Moreover, they are 2-dimensional tests. Optical coherence tomography angiography (OCT-A) is a recent technology that permits investigating retinal and choroidal vascular networks in a dye-less, noninvasive, rapid, and three-dimensional fashion. Although several different algorithms have been developed, OCT-A is based on the assumption that flowing blood cells are the only moving structure and vessels can be differentiated from static tissue using blood flow as motion contrast.

OCT-A provides different information from fluorescein angiography and it should not be considered only as a replacement test. In association with fully established eye imaging techniques, OCT-A can allow better understanding of the cause, pathogenesis, and anatomic basis of different ocular pathologies. Moreover, it can provide diagnostic clues and prognostic factors.

We are interested in articles in the field of optical coherence tomography angiography in retinal and macular diseases. In particular articles will be focused on the new findings and biomarkers assessed using OCT-A.

Potential topics include but are not limited to the following:

- OCT-A in age-related macular degeneration
- OCT-A in macular dystrophies
- OCT-A in retinal and choroidal vascular diseases
- OCT-A in vitreoretinal diseases
- OCT-A in retinal and choroidal tumors

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