



Journal of Ophthalmology

Special Issue on
Developments in Imaging for Ocular Inflammatory Diseases

CALL FOR PAPERS

New techniques and advances in imaging technologies have changed considerably the diagnostic procedures in all fields of ophthalmology. Innovations have been made in hardware (light sources, imaging chips, etc.), theoretical basis (e.g., ocular coherence tomography), optics (adaptive aberration compensation, etc.), and software (image tracking, processing, and image analysis). These have recently led to a sort of revolution in clinical applications for ocular imaging, allowing the availability of new functions of photography, Scheimpflug imaging, scanning laser ophthalmoscopy, scanning laser polarimetry, ultrasonography, optical coherence tomography, confocal scanning microscopy, and also MRI (this latter chiefly referred to ocular syndromes with possible neurological involvement). Such new tools have been finding an increasing application in the field of ocular inflammation (i.e., uveitis), in which prompt and accurate diagnosis is mandatory to start specific therapy and preserve a good visual prognosis. New imaging technologies may significantly improve the knowledge of pathogenesis and the assessment of the clinical involvement of several inflammatory diseases. This will have favorable repercussions on the applicability of treatments and, accordingly, on the prevention of functional damages.

We invite clinicians to contribute original research articles as well as case series illustrating and discussing the use of recently developed imaging tools to the field of ocular inflammatory disorders. Any etiology (infectious or immunologic) or segment of the eye could be considered. Also imaging of ocular manifestations of systemic inflammatory conditions would be valuable.

Potential topics include, but are not limited to:

- ▶ Application of OCT angiography (i.e., using the split-spectrum amplitude-decorrelation angiography) to retinochoroidal inflammatory syndromes
- ▶ Improvements in optical coherence tomography (OCT) and confocal microscopy (CM) for the study of active inflammation or of inflammatory findings in the anterior segment structures
- ▶ Assessment of the aqueous or vitreous inflammation/flare quantification
- ▶ Adaptive optics retinal imaging in eyes with uveitis
- ▶ Recent advances in electrophysiology applied to uveitis
- ▶ Remarkable findings from routine investigations (e.g., fluorescein or indocyanine angiography) concerning poorly known inflammatory syndromes
- ▶ New strategies, timing, and indications for known tools (including neuroradiological or other systemic examinations) in uveitic disorders

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/joph/ocid/>.

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