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**Advances in retinal imaging modalities: Challenges and opportunities**

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#### Abstract

Imaging in ophthalmology is playing an increasingly important role not only in screening, but also in monitoring and assessing response to treatment in an objective manner. Technical advances in various modes of imaging acquisition provide more detailed images. These can be combined and reviewed on one screen in the place of acquisition or sent for a remote assessment. Moreover, the machines are more user-friendly, which reduces the need for highly skilled technicians. In this article the authors describe currently available and experimental ophthalmic imaging modalities and their impact on clinical practice.

**Key words:** Imaging; Retina; Macula; Retinal vessels; Choroidal vessels; Screening; Monitoring

**Core tip:** This article summarizes currently available and emerging imaging modalities in ophthalmology with respect to image acquisition, review options (i.e. software and file formats) and clinical application of the results.

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