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Imaging of Epiretinal Membranes Using En Face Widefield Swept-Source Optical Coherence Tomography

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Abstract

Background and objective: Swept-source optical coherence tomography (SS-OCT) imaging was performed on eyes with epiretinal membranes (ERMs), and the extent of the ERMs were compared between the 12 mm × 12 mm scans and the more routine 6 mm × 6 mm field of view (FOV).

Patients and methods: Eyes containing ERMs were imaged using a 12 mm × 12 mm SS-OCT scan. En face images derived from vitreoretinal interface (VRI) slabs were reviewed to assess the full extent of the ERM.

Results: En face VRI slab images from 12 mm × 12 mm scans could visualize the full extent in eyes with ERMs.

Conclusions: The use of 12 mm × 12 mm SS-OCT scans and en face VRI slabs provided better visualization of large ERMs compared with a 6 mm × 6 mm FOV. This strategy can be useful in identifying the full extent of tractional forces and may help with preoperative surgical planning in selected cases. [Ophthalmic Surg Lasers Imaging Retina. 2019;50:106-112.].

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