



Angiography of Proliferative Diabetic Retinopathy

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Abstract

BACKGROUND AND OBJECTIVE: To demonstrate the utility of widefield swept-source optical coherence tomography angiography (SS-OCTA) for the diagnosis and management of proliferative diabetic retinopathy (PDR).

PATIENTS AND METHODS: Consecutive patients with vision-threatening diabetic retinopathy were imaged with widefield SS-OCTA using the 12 mm × 12 mm scan pattern.

RESULTS: Twenty-four eyes of 12 patients underwent SS-OCTA imaging. In all 24 eyes, the en face total retinal flow images detected areas of decreased retinal perfusion, and the en face vitreoretinal interface (VRI) slabs detected foci of retinal neovascularization (NV). NV was treated and followed using the VRI images.

CONCLUSIONS: Widefield SS-OCTA is a useful, noninvasive technology for the detection and monitoring of NV in PDR. Features of interest, such as areas of decreased retinal perfusion, increased retinal thickness, and NV, can be identified from different en face slabs extracted from a single 12 mm × 12 mm scan.

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