Journal Article Review

Combined Depth Imaging technique on spectral-domain optical coherence tomography

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Summary

Purpose

To describe and evaluate an imaging protocol for the SPECTRALIS® system that produces full depth OCT images showing both vitreoretinal and choroidal structures, and to assess the clinical utility of the technique in normal eyes and those with cataract.

Methods

Full depth images were acquired from 42 eyes of healthy subjects, and 26 eyes of patients with cataract. In the cataract group, lens opacities were graded after dilation. Images were masked and graded based on visibility of preretinal pocket and outer border of the choroid.

Results

"In all the eyes, normal or with cataract, the [SPECTRALIS] was able to create a good quality combined image of the posterior structures in a few seconds".

Conclusion

• “[SPECTRALIS FDI imaging] is highly sensitive to visualize posterior vitreoretinal-choroidal structures into a single full-depth image, and is not affected by mild to moderate cataract.”