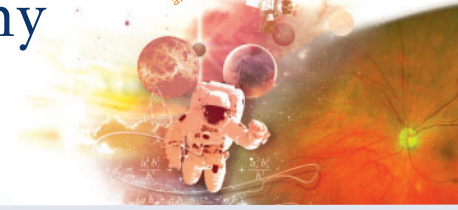


Case Study: Pigmentary Retinopathy

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Some of the greatest discoveries
are farther than the eye can see.



History

In August 2010, a 51 year-old Asian male with a long history of visual deterioration visited Doheny Eye Institute for a second opinion for retinopathy. He was highly myopic and previously had a retinal detachment in the right eye in which he underwent a vitrectomy in 2006. His current visual acuity in the right eye was 20/60 and 20/20 in the left eye. He had no relevant systemic diseases, but had vision problems since childhood.

Examination

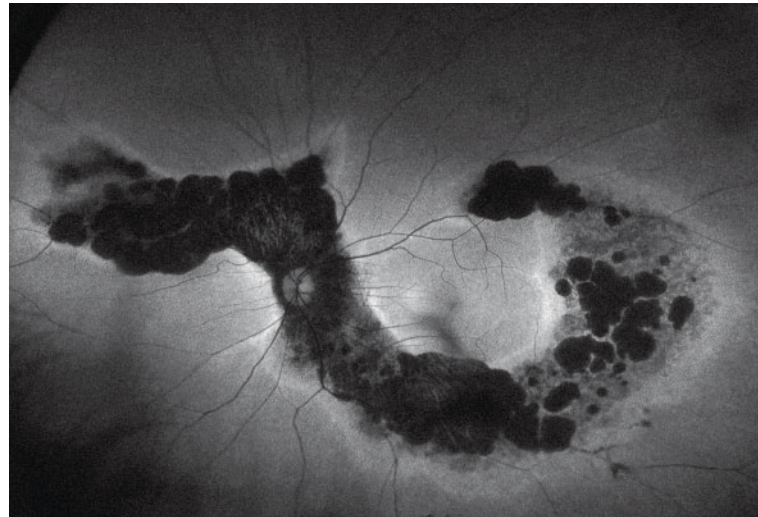
A dilated fundus exam was performed which demonstrated an extensive coherent area of chorioretinal atrophy along the vasculature and sparing the macula in both eyes. **optomap® af** images were captured showing massive atrophy, although the patient's vision is still intact due to central sparing. The hyperfluorescent rim around the lesion suggests further progression. **optomap® af** images were also captured showing slight peripheral non-perfusion and staining of the scars. In addition, an SD-OCT was performed demonstrating an epiretinal membrane in the right eye and a staphyloma in the left eye.

Discussion

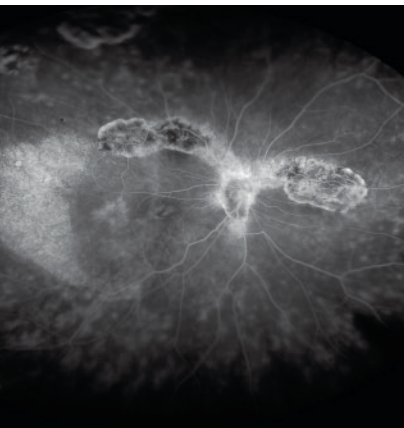
The **optomap® af** widefield images demonstrated the extent of the atrophy as it stretches to the far periphery in the left eye. In addition, **optomap® af** images may be considered a useful tool in evaluating pigmentary retinopathy due to enabling visualization of the hyperfluorescent outline of lesions which can suggest disease progression.

Conclusion

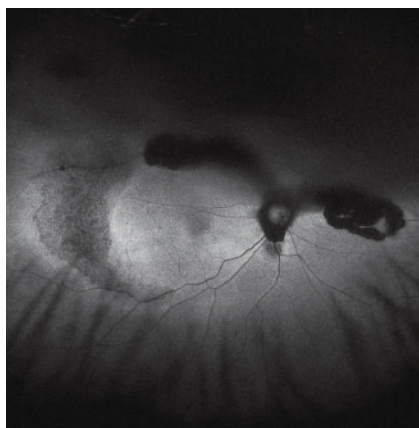
The patient underwent further testing. An electroretinogram demonstrated a significant reduced cone function. A differential diagnosis of either pigmented paravenous chorioretinal atrophy (PPCRA) or a Rod-Cone dystrophy was established. Further diagnostic work-ups were mostly negative.



optomap® af of the left eye demonstrating a hyperfluorescent outline of the lesion which may suggest disease progression



optomap® fa of the right eye



optomap® af of the right eye demonstrating the extent of the atrophy



optomap® fa of the left eye demonstrating staining of the scars

