

Glaucoma/Stargardt's

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History

A 37-year-old Hispanic female presented 5 years ago with a 20-year history of an "untreatable" retinal degeneration. At presentation, with high plus reading glasses, our patient was able to read magazine print at about 4 inches, but with some difficulty, and felt that her ability to read was worsening. The patient also complained of difficulty seeing at night.

Examination

Unaided vision was 10/400 in each eye. Goldmann IOP's were 23 OD and 24 OS. On viewing the fundus with a slit lamp its appearance explained the visual difficulties. Further testing was performed; Pachymetry was 498u OD and 505u OS. Threshold fields revealed central Scotomas about 12x15 degrees in size OU, but fixation was erratic. Flash ERG's were normal.

The pisciform flecks and the appearance of the macula define the full presentation of Stargardt's disease. Since the Flash ERG was normal, we need to consider another diagnosis to explain her peripheral and night vision problems. Another important observation is that the discs appear to have asymmetric cupping, glaucoma is obviously indicated. High IOP's support the diagnosis.

Conclusion

Although there is no known treatment for Stargardt's, glaucoma is treatable. The recognition that a patient can have more than one disorder, some of which are treatable and others not, must be considered. We have been seeing this patient over the last 5 years and controlling IOP has proven challenging. She has had several selective laser trabeculectomies in each eye and is presently taking Alphagan and Travatan. Fortunately, there is no evidence that either disorder has progressed while she has been under our care. The ability to capture in one high resolution image, the total extent of the damage to the retina caused by the two conditions in this case, is unique to the Optos imaging platform contained within the P200°C.

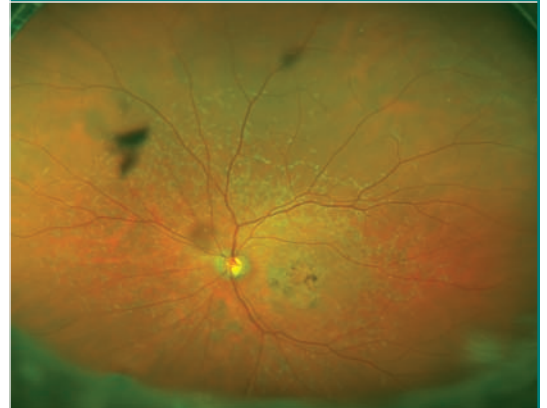
Although the patient is dilated yearly, **optomap**® images are obtained twice a year when the patient is not dilated and allow us to monitor for change in the posterior pole as well as in the mid and far peripheral retina in a highly efficient manner.



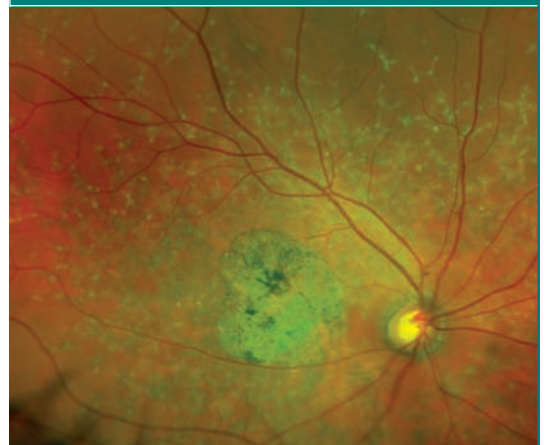
Optos plc is a leading and rapidly growing medical technology company for the design, development, manufacturing and marketing of devices that image the retina. The Company has gained regulatory clearance (CE and FDA 510(k)) to market its third device - P200°C. The P200°C is aimed at practices looking for advanced clinical capabilities. With a view up to 82% of the retina in a simultaneous, single image, Optos' technology provides an unequalled combination of wide-field retinal imaging, speed and convenience for both practitioner and patient.

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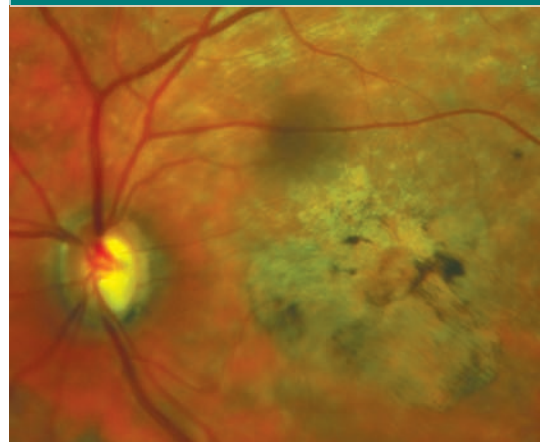
optomap® plus with P200C



optomap® plus image of left eye. Numerous pisciform flecks throughout the retina and maculopathy-characteristic of Stargardt's disease. Also seen are several large floaters.



ResMax™ image of the right eye. In this view the "beaten bronze" appearing maculopathy associated with Stargardt's and the asymmetric cupping seen in glaucoma are clearly viewed. NFL in the superior arcade can also be seen.



Zoomed view of **ResMax**™ image of the left eye. Here the cupping of the optic disc and an inferior notch can be identified.