

## **Asymptomatic Carotid Artery Stenosis**

Images and diagnoses courtesy of Heron Eyecare, Adam Barron, OD

## **Background**

A 76-year-old, asymptomatic male presented for a routine eye examination. His medical and ocular histories were unremarkable except for an oral statin for hyperchlorestolemia.

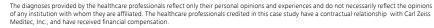
Clinical Findings: Fundus photography revealed a Hollenhorst plaque OD. An urgent carotid duplex showed carotid arteriolar stenosis of right 50-69%, left 15% due to arteriosclerosis. Patient is awaiting surgical evaluation for right carotid endarterectomy.

## Clinical efficiency and patient comfort

The stability and comfort of an integrated head/ chin rest and less than 0.2-second image acquisition minimized artifacts and facilitated a confident diagnosis of the Hollenhorst plaque. A quickly taken true color, widefield image of the retina uncovered a subtle, incidental finding, giving practitioners the opportunity to prevent a potentially life-threatening event (figure 1).

## **Color accuracy**

CLARUS widefield retinal photography revealed a 100µm bright yellow refractile lesion located at the bifurcation of a right superotemporal retinal arteriole (figure 2). Green LED channel separation enhanced the contrast of retinal vasculature, demonstrating that this lesion was inside the lumen of the retinal arteriole (figure 3). The enhanced color and clarity of the image supported the confirmation of a well-defined Hollenhorst plaque.



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