

Retinal PHYSICIAN

Therapeutic and Surgical Treatment of the Posterior Segment®

Management of Concurrent and Delayed-Onset Retinal Detachment Associated With Endophthalmitis

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Parallel In-Office and Virtual Clinics for Retina Practice Post COVID-19

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Integrated Analytics in Retina Practice

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Artificial Intelligence as a Disruptor to AMD Diagnosis

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TECHNOLOGY ISSUE

NEW PRODUCT APPLICATIONS

BY KAREN APPOLD, CONTRIBUTING WRITER

Introducing the First Virtual Comprehensive Eye Exam

This mobile technology tests for all of types of eye conditions.

GlobeChek is the world's first and only comprehensive tele-eye-care solution. Patients undergo a thorough exam at a state-of-the-art mobile kiosk, which detects glaucoma, diabetic retinopathy, macular degeneration, and cataract, as well as other ocular and systemic diseases such as diabetes, high blood pressure, and carotid artery disease. Testing is performed with the same sophisticated high-quality instrumentation found in an eye doctor's office, says William J. Mallon, MD, cofounder of GlobeChek, and founding partner at Center for Advanced Eye Care.

A technician guides users through the exam process, which takes less than 10 minutes and doesn't require dilation. Testing begins with a visual acuity check, both near and far, followed by an autorefractor. Then, eye pressure and a high-definition photo of both the external eye and the retina are taken. An OCT is performed to evaluate the optic nerve and macula for signs of glaucoma and macular degeneration. Lastly, corneal topography and anterior-segment OCT are performed.

A certified GlobeChek physician reviews each patient's test results. Users are sent a report with diagnoses and recommendations for follow-up care, and they can schedule a tele-medicine consult to review findings. If follow-up care is recommended,

contact information for local physicians is provided.

"GlobeChek is an integrated instrument," says Shalesh Kaushal, MD, PhD, physician owner at Comprehensive Retina Consultants, with locations in Gainesville, The Villages, and Inverness, Florida, who is also a physician in GlobeChek's referral network. "It provides all of the



components of an ophthalmic exam from the front to the back of the eye, including the anterior segment, lens, and retina. That is very attractive, and even more so with the COVID-19 pandemic occurring."

FILLING AN UNMET NEED

GlobeChek was conceived out of the frustration of seeing patients with preventable vision loss coming in with late stage disease, says Adam

M. Katz, MD, president, COO, and cofounder of GlobeChek, as well as partner at Center for Advanced Eye Care. "Although vision is universally considered the most important of all senses, only about 20% of the population receives regular eye exams," he says.

"Our goal is to increase awareness of the importance of regular eye care while removing the barriers that prevent people from seeking and receiving such care," Dr. Katz says. "We can accomplish this goal by increasing access while reducing the cost and inconvenience of a traditional eye-care encounter."

Dr. Katz believes that the current tele-eye-care model, consisting of fundus photography alone, falls short of providing a true solution for eye care. Despite its wide availability and low cost, only a fraction of diabetics in need of exams have been screened. By focusing solely on diabetic retinopathy, other equally important eye diseases are missed.

GlobeChek can detect all of the leading causes of blindness as well as refractive errors and many eyelid and ocular surface issues. It also allows for the proper triaging of patients if eye disease is detected, Dr. Katz says.

MAKING SCREENING READILY AVAILABLE

GlobeChek can be used in the waiting room or lobby of a traditional office,

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