Glaucoma is the leading global cause of irreversible blindness. By 2050, an estimated 7.32 million people will have primary open-angle glaucoma.¹ In the United States, the prevalence of glaucoma is rising radically. By 2035, the growing population is projected to have more people aged 65 years and older than under the age of 18.² In addition, the US Census Bureau predicts that, by 2050, the African American, Asian, and Hispanic population in this country will increase from 17% to 34%.³ These groups have an elevated incidence of glaucoma; the prevalence increases ninefold among African Americans and Hispanics in their 80s versus their 40s.³⁻⁵

While the treatment of glaucoma continues to advance, the typically asymptomatic nature of the disease means the diagnosis is frequently missed. Fifty percent of people in the United States with glaucoma and more than 90% globally are not aware that they have it. Because the resources available for increasing glaucoma awareness are limited, a logical strategy is to focus efforts on people at high risk of developing the disease.

GLAUCOMA POPULATION STUDIES

The Baltimore Eye Survey showed that a positive family history is strongly associated with having glaucoma and that the risk is even greater among African Americans and highest amongst siblings.³ Australian population-based studies in Tasmania found that familial cases of glaucoma occurred at an earlier age and were more severe than sporadic cases of open-angle glaucoma.⁶ The Barbados Eye Studies showed that, when evaluating 1,000 relatives from about 200 probands for almost a decade, 23% of the relatives examined had manifest glaucoma.⁷ In the Rotterdam Eye Study, siblings of glaucoma patients had a ninefold higher risk of developing glaucoma than siblings without a positive family history.⁸ Regardless of race or location, a positive family history of glaucoma has a high yield for finding other patients with the disease.

OPPORTUNITIES

Our relationships with glaucoma patients allow us to target their family members. When we see a patient in our office who has been diagnosed with the disease, we need to discuss its hereditary component if we have not done so previously. When family members accompany these patients to
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Regardless of race or location, a positive family history of glaucoma has a high yield for finding other patients with the disease. By initiating a discussion of hereditary risk with patients and their families, clinicians can increase detection of the disease.

Knowledge is power. Educating our patients empowers them to act for themselves and for others. It also shows them that we care and enhances their trust in us.

Any clinician who has difficulty initiating these conversations, as I did myself at first, can use posters as a starting point and as a reminder (Figure). Additional steps toward spreading glaucoma awareness include offering glaucoma screenings at our practices or in conjunction with community organizers. For more information on a campaign inspired by the 2016 annual meeting of the American Glaucoma Society, readers are welcome to contact me via email (see Watch It Now).

AT A GLANCE

- In the United States, the prevalence of glaucoma is growing radically, yet 50% of people with the disease are unaware that they have it.
- Because the resources available for increasing glaucoma awareness are limited, a logical strategy is to focus efforts on people at high risk of developing the disease.
- Regardless of race or location, a positive family history of glaucoma has a high yield for finding other patients with the disease. By initiating a discussion of hereditary risk with patients and their families, clinicians can increase detection of the disease.

SIXTY-SECOND DIALOGUE

Initiating a conversation about hereditary factors with my patients takes 60 seconds. Here is what I say: “Mrs. Jones, we are trying to make sure that our glaucoma clinic visits, are we discussing hereditary risk and strongly recommending that those family members be screened for the disease? Research reveals we cannot assume that glaucoma patients know about the hereditary risk or are even sharing their own diagnosis with family members. We clinicians can help patients see that communicating this information is a gift, not a burden.

START TALKING

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WATCH IT NOW

In this episode of GT Journal Club, Constance Okeke, MD, MSCE, discusses a glaucoma awareness campaign targeted at educating patients to encourage family members to be screened for the disease.