

Annoyed by floating specks in your vision? You may soon be able to zap them away

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Millions of people who put up with seeing annoying specks drift through their field of vision may now have a safe, high-tech solution to their problem. A study of patients who had laser treatment to vaporize these flecks and spots known as floaters, showed a very low complication rate, according to research presented today at AAO 2017, the 121st Annual Meeting of the American Academy of Ophthalmology. Additionally, most patients reported a significant improvement in their vision.

Collecting long-term safety data is vital to determine the effectiveness of lasers for floaters. To that end, Inder Paul Singh, M.D., an ophthalmologist with the Eye Centers of Racine and Kenosha in Wisconsin, shared his results with 680 patients, who collectively underwent 1,272 laser procedures for large floaters. Dr. Singh saw these patients anywhere from one to four years to check for complications. Only 10, or 0.8 percent, experienced a complication. The most common complication was an increase in intraocular pressure, which was successfully treated with an antihypertensive eyedrop.

Eye floaters are a general term describing the specks, threads, cobweb-like images, or large clouds that can occasionally drift across the line of vision. Most floaters are bits of a protein called collagen. They're part of a gel-like substance in the back of the eye called the vitreous. As you age, the vitreous slowly shrinks and forms opacities of varying size and shape. What you see isn't the floater itself, but the shadow it casts onto the retina. Floaters can move as your eyes shift.

About one-quarter of people have some vitreous changes with floaters by age 60. By age 80, the number rises to about two-thirds. People are more likely to have them if they are nearsighted or have had cataract surgery. For some, floaters are a mere annoyance, but those with large floaters experience significant interference with their vision and daily functioning. A 2013 study found that

about one-third of patients say floaters interfere with their daily activities.

Using a laser to break up larger floaters into smaller pieces so they are less visually disabling dates back to the 1980s. But most physicians counseled against using lasers to treat floaters due to reports that the laser couldn't properly visualize floaters, which could lead to inadvertent damage to the lens or retina, the light sensitive part of the eye that is essential to sight.

As [laser](#) technology has advanced, newer generation lasers have been designed to maximize visualization of the floaters in relation to the lens and retina. Energy is delivered more efficiently to break up or even vaporize floaters. These improvements have raised the possibility that treatment of [floaters](#) could become a mainstream procedure in ophthalmology.

"The procedure and new technique is slowly growing in acceptance, and an increasing number of ophthalmologists are adopting it in Europe and the U.S.," said Dr. Singh. "We have also founded the International Ophthalmic Floater Society, which is open to ophthalmologists worldwide. It's aimed at studying the merits of this and other treatment options, sharing experiences and protocols, and raising awareness."

Provided by American Academy of Ophthalmology

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