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## What Is LASIK Eye Surgery?

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### What Is LASIK Eye Surgery?

**LASIK** (laser-assisted in situ keratomileusis) is the most common type of refractive eye surgery to correct vision problems.

# Vision Problems That Can Be Treated by LASIK Eye Surgery

LASIK eye surgery can treat a range of vision problems, including **myopia** (nearsightedness), **hyperopia** (farsightedness), and **astigmatism** (irregularly shaped surface of the eye). Normal agerelated loss of close-up vision (**presbyopia**) cannot be reversed with LASIK, although a modified treatment called monovision can be performed so that one eye is corrected for distance and the other for near.

#### How Does LASIK Eye Surgery Work?

In LASIK, an ophthalmologist uses a laser to reshape the **cornea** (clear front part of the eye). A small flap is made in the upper cornea with either a small blade or a laser. The flap is lifted up and the laser is then used to reshape the deeper cornea by removing precise amounts of tissue. The goal of the surgery varies depending on the type of vision problem. If a patient is nearsighted, the goal is to flatten the cornea by removing tissue from the central cornea. If a patient is farsighted, the goal is to make the cornea steeper by removing tissue from the peripheral cornea. LASIK can also correct astigmatism by reshaping the cornea into a more symmetrical, spherical shape. It is a quick procedure (often less than 15 minutes) that requires only numbing drops, with no need for general anesthesia, stitches, or bandaging.

### **Risks of LASIK Eye Surgery**

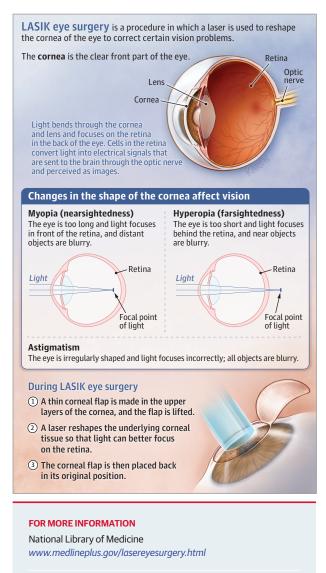
Complications following LASIK are uncommon. Eye infections and inflammation are rare but serious complications that can be treated with medications. Some patients experience dryness, glare, light sensitivity, and halos around lights. These are usually temporary and tend to disappear over time but may be permanent for some people.

Not everyone has 20/20 vision after LASIK. More than 95% of people who have LASIK eye surgery are satisfied with the outcome of the surgery. Some patients may require a touch-up treatment, called an enhancement, to make additional improvements. Some find that they may still need glasses for some activities, such as reading. Uncommonly, some people do not find that their vision is improved following LASIK.

Authors: Malcolm M. Kates, BS, BA; Sonal Tuli, MD Conflict of Interest Disclosures: None reported.

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literature review: quality of life and patient satisfaction. *Ophthalmology*. 2009;116(4): 691-701. doi:10.1016/j.ophtha.2008.12.037"https://www.ncbi.nlm.nih.gov/entrez/ query.fcgi?cmd=Retrieve&db=PubMed&list\_uids=19344821&dopt=Abstract"



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