Is LASIK for me?

Part 1 of a 3-Part Series

MAKING THE DECISION

Answers to your laser eye surgery FAQs

*Patient stories and photographs are based on real-life experiences, portrayed by models. Individual results may vary.
Is LASIK for me?

No doubt you’ve heard about laser eye surgery—especially LASIK. In fact, you probably haven’t been able to turn on your radio, TV, computer, or opened a magazine without ads popping up, telling how fast, easy, and life changing laser eye surgery can be.

“But you have questions. Like, ‘How do I find out about what to expect during surgery?’”

We designed the publication you’re holding now to answer the questions people ask most often about laser eye correction—and to answer them in a way that you don’t need a medical degree to understand. Your eye surgeon will also give you patient information telling you what to expect.

In this age of technology, you can learn a lot simply searching the Web, looking at blogs, watching videos, and reading organizations’ websites. Browsers, beware. You may find a lot of information, but you may also find a lot of misinformation. Your eye surgeon can provide reputable literature or websites. Sonia H. Yoo, MD, refractive surgeon with Bascom Palmer Eye Institute, and professor of ophthalmology, University of Miami Miller School of Medicine, Florida, guides patients to the Bascom Palmer Eye Institute website to learn more at http://bascompalmer.org/specialties/lasik.
“LASIK is a wonderful option with very high rates of success for a very high percentage of people who are nearsighted, farsighted, or who have astigmatism. It is very likely—especially if your eyes are otherwise healthy—that you could have laser eye surgery and do very well.” —Stephen Slade, MD
Am I a candidate?

The simple answer is: Maybe.

You may be a candidate if your vision problem is due to how your cornea bends or refracts the light that enters your eye. If you are the right age, are nearsighted, farsighted, or have astigmatism, and your eyes are otherwise healthy, you are very likely a candidate for corrective surgery.

That being said, you—and your eyes—need to meet certain criteria to be a good candidate. First, you need to have a stable prescription—that is, you’ve experienced no significant change in your prescription over the last year. You should also be free of any eye or other health problems that would affect healing.

It’s important that you be an educated consumer, but the only way to know for sure if you’re a good candidate is to have an evaluation by an ophthalmologist who specializes in laser eye surgery. “We have people who will spend hours and hours and hours of time on the Internet learning about LASIK and then they come in and they’re not a good candidate for it,” says Stephen Slade, MD, Slade & Baker Vision Center, Houston, Texas.

Do I have to have a certain prescription or vision loss?

The simplest answer is, if you wear glasses or contacts—and you see well with those glasses or contacts—you are probably going to be a candidate.
Laser vision correction can be used to treat myopia (nearsightedness), hyperopia (farsightedness), or astigmatism,” says Dr. Yoo, MD. “The goal is to reduce or eliminate the need for glasses or corrective lenses.”

So what exactly is LASIK?

Most laser surgery patients have a LASIK procedure. LASIK stands for laser-assisted in situ keratomileusis. The eye surgeon uses a femtosecond laser, or an instrument called a microkeratome blade, to create a thin, hinged flap on the top layer of the cornea. The surgeon lifts the flap and then uses an excimer laser underneath to sculpt the cornea. At the end of the procedure, the surgeon lays the flap back down; the epithelium goes back into shape and knits together very quickly, giving the patient almost immediate improvement in vision.

“LASIK is generally a safe and effective procedure. Someone inquiring about LASIK may experience what’s probably the most complete eye exam they’ve ever had. The testing that’s done ensures that the eye—particularly the cornea—is normal and healthy other than being nearsighted or farsighted or having astigmatism.”

Lewis Groden, MD, Executive Medical Director LasikPlus Vision Centers Tampa, Florida

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Astigmatism is often especially well suited for laser surgery correction.

Contact lenses—even soft lenses—change the shape of your cornea. Don’t wear contact lenses for at least a week (for soft lenses) and up to several weeks (for semi-permeable lenses) before your initial laser surgery evaluation.

In the US, about 20% of people who undergo evaluation for laser vision correction are determined not to be candidates.*

*Data on file
What is perfect vision?

What does 20/20 really mean?

The term “20/20” has become a common metaphor to imply clarity. From the literal visual standpoint, however, 20/20 is simply a normal standard of measurement. Think of that chart we’ve all seen on the exam room wall. It sits 20 feet from the patient’s eye, so 20/20 represents what an “average” eye would see clearly at 20 feet.

“A letter [on the eye chart] a typical person with good vision can see at 20 feet is 20/20,” Dr. Krueger explains. A change in the numbers implies a change from “average” vision. For example, if you can only see at 20 feet what a “typical person” sees clearly at 40 feet, that means your vision is 20/40. “So, you have to be twice as close to it to discriminate the size of the letter,” Dr. Krueger says, or the letter would need to be twice as big for you to see it. Likewise, if you can clearly see at 20 feet what a “typical person” can only see at 15 feet, your vision is 20/15.

“20/20 is a very arbitrary standard,” says Sanjay “Sonny” Goel, MD, Executive Medical Director, LasikPlus Laser Vision Centers, in Annapolis, Maryland. “It basically means that you can see a certain size letter from 20 feet away.”

“Some eyes are normal and can’t see 20/20. Other eyes are normal and see better than 20/20,” adds Dr. Groden. Because measuring vision is so subjective, there really is no such thing as “perfect vision” in the human eye, Dr. Yoo states.

“The goal of laser vision correction is to give someone the vision they have with glasses or contacts. That may be 20/20, or it may be 20/25. Whatever their best corrected vision is before is what we want them to have after the surgery—just without glasses or contacts.”

—Lewis Groden, MD
Is Lasik for Me?

What is astigmatism? And does that disqualify me from having surgery?

Astigmatism is when the cornea is not perfectly round but is more oval shaped, like a football or the back of a spoon. Because the shape isn’t perfectly round, it changes how light coming into the eye is focused.

Because laser surgery changes the curvature of the cornea to correct how light is focused, many people with astigmatism are particularly well suited to correction with laser surgery. In fact, Dr. Goel notes, “I love to treat patients with high levels of astigmatism because,” in many cases, “I know I’m going to have a measurable impact on the quality of life that they’re going to have without having to rely on glasses or contact lenses.” And while helping patients see better is always satisfying, Dr. Goel finds treating patients with “high prescriptions such as patients with significant nearsightedness or farsightedness” particularly rewarding, “because I know they’re going to be thrilled with the results.”

He and all surgeons stress, however, the importance of proper evaluation and screening. “You need to be evaluated prior to surgery to see if your particular astigmatism is amenable to treatment,” Dr. Yoo says.
Chirag Shah, MD, an ophthalmologist specializing in refractive surgery with LasikPlus Vision Centers in the Philadelphia area, says, “A lot of moms come in and say ‘I can’t see anything and what if I have to wake up in the middle of the night or my house is on fire and I have to run out with my baby? I don’t want to be looking for my glasses. I want to be able to get up and go.’ That’s a very common complaint that we’ll see from concerned parents.”
What does it mean to be nearsighted? What does it mean to be farsighted?

If you’re nearsighted, you can see clearly up close, but objects farther away appear blurry. This is because the cornea’s shape focuses light in front of the retina. If you’re farsighted, you can see objects farther away more clearly than you can see up close (and often need corrective lenses to see up close as well) because the cornea’s shape focuses light behind the retina.

In either case, laser surgery changes the shape of the cornea so that the light focuses into the retina instead of in front of or behind it.

What is presbyopia?

As you age—usually starting at around age 40—you may begin to develop a condition known as presbyopia, begin to lose quality of up close vision, and may need to wear bifocals. Presbyopia isn’t a refractive error due to the shape of the cornea like nearsightedness or farsightedness. Instead, says Dr. Groden, “It is a normal change that comes with age in which the ability of the eye to change power to bring near objects into focus diminishes.” Items we could once hold in our hands and see clearly, “we hold out farther and farther because we can’t crank in that power to bring the image in focus. That’s a normal aging change.”
What is an aberration?

An aberration is a form of refractive error, Dr. Krueger says, that “has to do with an error in prescription or an error in refraction that is not typically correctable by glasses.”

There are “lower order” and “higher order” aberrations. Lower order aberrations are refractive errors that prescription lenses can help, and include nearsightedness, farsightedness, and astigmatism. Higher order aberrations are refractive errors that prescription lenses can’t fix, such as glare, halos, streaking of lights, and distortion, doubling, or ghosting of images. They’re usually due to very small irregularities in the cornea that change the way light enters the eye, and are “responsible for more subjective vision complaints,” Dr. Shah notes.

Newer generation lasers can be used to treat many aberrations.
“Almost any option that you would put on your new car would be $1,500 or more. Your flat screen TV costs as much as or more than surgery...and if you can’t see anyway, why have it?” —Stephen Slade, MD

Factors influencing price include:

- The technology being used
- The surgeon’s experience
- Current market forces
How much does it cost?

LASIK procedure costs vary, but usually run anywhere between $1,000 and $3,000 per eye.

Because laser eye surgery is something people buy to enhance their lives, it has the element of a commodity, and “those prices vary pretty amazingly,” says Dr. Krueger.

Although Dr. Krueger’s practice charges just under $5,000 for both eyes, the average cost for the procedure is approximately between $1,000 and $3,000 per eye. “Now, there might be some competitor down the street that charges $1,750 an eye. For both eyes, that’s $3,500. Somebody who wants to do everything based on price is going to look for the biggest discount. But that could be like saying ‘I’m going to buy the cheapest stereo.’ I always make the point: you can always throw away a stereo. You can’t throw away your eyes. So, you want to be making a decision that’s a smart decision that’s going to last you for your lifetime.”

Dr. Slade agrees. “It’s like anything else,” he says. “If you’re paying the absolute cheapest, you might ask yourself why. If you think about it, the value delivered by this surgery is absolutely tremendous. You can get your eye fixed from a lifetime of myopia for $1,500; you can’t get a root canal for that amount.”

Ultimately, of course, you’re the one to decide if you want laser surgical correction instead of wearing glasses or contacts—and how much that surgery is worth to you.
Is surgery covered by insurance?

Health insurance generally does not cover the cost of laser refractive surgery because it’s an elective surgery to treat vision problems that can be addressed with corrective lenses. Some companies do offer discounts, limited coverage through employee health plans, or coverage through contributions to the employee’s Flexible Spending Account. So, check with your individual insurance carrier(s) and benefits administrator.

If I need refinements, do I have to pay for those separately?

Generally, when you pay for LASIK, the price includes refinements for a certain length of time after the primary surgery, but this varies among practices. Most practices have a one-year to three-year window during which patients can return at no charge.

Most doctors agree that you go into the surgery with certain expectations. If you have an immediate need for fine-tuning, most doctors would say that’s covered under the original surgery because that’s your expectation level.

“The question is what about the timing of that?” Dr. Krueger notes. “Most surgeons would say that if you need to do any kind of refinement, that would be free within the first year of your surgery. But, if somebody has the surgery and walks away happy, and then, 10 years later comes back,” wanting additional surgery, it would probably not be covered under the original procedure.

Some practices have different policies. “At my practice, patients pay one fee and have what we call a lifetime commitment,” Dr. Goel says. As long as the patient’s original surgery was performed at another office in our group, “If they come back any time in the future for more LASIK, we do it at no charge to them.”

As with all else regarding laser eye surgery, find out your surgeon’s policy.

“Insurance companies generally don’t cover [laser correction procedures] because they see it as elective surgery. And that’s part of what makes laser vision correction almost like a commodity because patients are now going to choose to spend out-of-pocket money for something that they value and consider life enhancing.”

—Ron Krueger, MD

Talk to your doctor and review the appropriate patient information booklet for your condition to learn more about the potential risks and benefits for laser refractive surgery.
Did you know?

Laser surgery uses a “cool-beam,” high-energy laser that breaks the chemical bonds and vaporizes tissue without damaging anything below or adjacent to where the beam hits. This is how it so precisely reshapes the cornea.

The lasers used for eye surgery are the same lasers used to create semiconductor chips and computer chips. Few other mechanical systems today achieve this level of precision.

Refractive surgery reshapes your cornea to correct your refractive error. Think of your “refractive error” as the prescription for your glasses or contacts.

LASIK treats only problems with the cornea at the very front of the eye. It doesn’t treat problems with the lens (like cataracts) or with the retina at the back of the eye.

Your cornea is about as thick as three sheets of newspaper.
Get all the answers to your laser eye surgery questions.

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