Possible risks of IOLs

There are possible risks and side effects with having an IOL implanted in your eye. Here are some of them:

- Your vision can be overcorrected or undercorrected (and you might need re-treatment).
- You could have an eye infection.
- You may get more floaters in your field of vision.
- You could have a retinal detachment (tissue at the back of your eye lifts up).
- You could have halos and glare around lights.
- You could develop clouding or hazing of part of the IOL.
- Your vision could become blurry (especially if you have dry eyes).
- You may need additional surgery to fine-tune the IOL prescription.
- You could lose some of your vision.
- Your IOL could move out of position.
- You may see halos and glare around lights.
- You could find it harder to see contrasting colors.
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Talk with your ophthalmologist about your vision needs.

There are benefits and drawbacks to surgery, eyeglasses and contact lenses. As you explore how to correct your vision, consider your vision needs and expectations. Talk about your vision needs and expectations with your ophthalmologist. He or she will explain IOL options for you in more detail.

Summary

Multifocal and accommodative IOLs (intraocular lenses) are types of artificial lenses that replace the eye’s natural lens. They are usually implanted after a cloudy natural lens is removed in cataract surgery. Sometimes these IOLs are implanted only to correct refractive errors. These IOLs reduce your dependence on glasses by allowing you to focus at different distances.

There are side effects with multifocal and accommodative IOLs. For instance, your vision may not be as sharp in dim light or fog, and you may also notice glare and halos around lights.

When choosing a new lens, talk with your ophthalmologist about your lifestyle and vision needs.

Who might not benefit from multifocal or accommodative IOLs?

With these IOLs, there are some visual side effects. For instance, your vision may be not be sharp in dim light or fog. You may also notice glare and rings (halos) around lights. For that reason, some people might not benefit from these IOLs. Pilots, night drivers or those who spend a lot of time in front of the computer may find these side effects cause problems.

When choosing a new lens, talk with your ophthalmologist about your lifestyle and vision needs.
What is an IOL?
An intraocular lens (or IOL) is a tiny, artificial lens for the eye. It replaces the eye’s natural lens.

The eye’s normally clear lens bends (refracts) light rays that enter the eye, helping us to see. If your lens has problems, light will not refract properly. An IOL will refract light properly again, giving you clear vision at certain distances. IOLs come in different focusing powers, just like the prescription eyeglasses or contact lenses.

If you have a cataract, your lens has become cloudy. Things look blurry, hazy or less colorful with a cataract. Cataract surgery removes this cloudy lens and replaces it with a clear IOL to improve your vision.

Some people without a cataract choose to replace their natural lens with an IOL. This is called a refractive lens exchange (RLE). This allows them to have an IOL that corrects a refractive error (nearsighted, farsighted, or astigmatism).

IOL focusing power
The most common type of lens used with cataract surgery is called a monofocal IOL. It has one focusing distance. It is set to focus for up close, medium range or distance vision. Most people have them set for clear distance vision. Then they wear eyeglasses for reading or close work.

People who want to reduce their dependence on eyeglasses might want to consider other IOLs. Two types, multifocal and accommodative IOLs, offer different focusing powers within the same lens. These IOLs reduce your dependence on glasses by giving you clear vision for more than one set distance. Here’s how they work.

Multifocal IOLs: Provide both distance and near focus. The lens has several rings or zones set at different powers. With this design, you are using both near and far vision at the same time. However, your brain learns to automatically select the right focus for what you want to see.

Accommodative IOLs: Similar to how your eyes’ natural lens changes shape to see at different distances. This type moves or changes shape to bring objects into focus at different distances.

Setting your IOL’s focusing power
Your eye surgeon will take measurements in and on your eye before surgery. These measurements are used to decide the correct power of IOL to use. Things that are measured include your:
- refractive error (nearsightedness, farsightedness, astigmatism or presbyopia)
- pupil size and function
- cornea curve and shape
- eye length from cornea to retina

How an IOL is put in your eye
- Your eye surgeon will numb your eye with a topical or local anesthesia.
- He or she will make 1–3 tiny incisions near the edge of the cornea. These incisions allow your surgeon to work inside the eye.
- Using special instruments, your ophthalmologist will break up the center of the eye’s natural lens. Then these pieces are gently vacuumed out through one of the incisions. The “capsular bag” that holds your natural lens in place is not taken out.
- The IOL is folded and inserted through the incision. It is placed in the “capsular bag,” where it unfolds.

It could take 6–8 weeks after surgery to be able to focus fully at all ranges. Basically, your eye has to relearn how to focus at various distances to see clearly.

Eye Words to Know
Lens: Clear part of the eye behind the colored iris. It helps to focus light on the retina (back of the eye) so you can see.
Cornea: Clear, dome-shaped window of the front of your eye. It focuses light into your eye.

Most IOLs are made of silicone or acrylic. They are also coated with a special material to help protect your eyes from the sun’s harmful ultraviolet (UV) rays.