

What are IOLs?

Choosing to have cataract surgery is an important decision. But equally important is talking with your doctor and deciding which type of intraocular lens (IOL) is the best choice to correct your own unique vision condition(s), including cataracts, presbyopia and astigmatism.

IOLs are very small, highly advanced medical devices designed to mimic the function of your eye's natural lens. Generally speaking, today's cataract replacement IOL designs fall into three basic categories:

Standard Monofocal — Typically designed to provide clear distance vision

Premium Multifocal — Specifically designed to correct presbyopia and provide good vision at near, intermediate, and far distances

Premium Toric — Specifically designed to correct astigmatism and provide clear distance vision



No single IOL is right for everyone. Your doctor will be happy to discuss, in detail, the specific advantages and disadvantages of each lens type, and help you decide which IOL is best suited to providing you with a lifetime of better vision.

Common vision conditions in perspective.

Cataracts

- Affect over 22 million Americans (age 40 or older)¹
- Are present in 90% of Americans 65 and older²
- Are the leading cause of visual loss in those over 55

Presbyopia

- Affects over 122 million Americans to some degree³
- Affects more than one billion people worldwide⁴
- Is present in virtually everyone over 50 years old

Astigmatism

- Affects about 33% of the U.S. population to some degree⁵
- Typically accompanies nearsightedness or farsightedness
- Is more common in women

1. Bailey G, Lee J. Cataracts: 3 common types, plus symptoms, signs and treatments. All About Vision Website. <http://www.allaboutvision.com/conditions/cataracts.htm>. Updated April 26, 2012. Accessed May 14, 2012.
2. Cataract. University of Michigan Kellogg Eye Center Website. <http://www.kellogg.umich.edu/patientcare/conditions/cataract.html>. Accessed May 14, 2012.
3. Bonilla-Warford N. What to do with 'new' presbyopes. Review of Optometry Website. February 15, 2012. http://www.revoptom.com/content/d/patient_care/i/1801/c/32670.
4. Holden BA, Fricke TR, Ho SM, et al. Global vision impairment due to uncorrected presbyopia. *Arch Ophthalmol*. 2008;126(12):1731-9.
5. American Academy of Ophthalmology. Eye health statistics at a glance. Updated April 2011. <http://www.aao.org/newsroom/upload/Eye-Health-Statistics-April-2011.pdf>. Accessed December 29, 2012.
6. 2011 Global Presbyopia-correcting Surgery Market: St. Louis, Mo: Market Scope LLC.

To learn more about cataract surgery, IOL options, and to view important safety information, visit www.MyCataractSolution.com

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A Promise for Life



Cataracts,
presbyopia, and
astigmatism:
Insights, info,
and options

Common vision conditions:

What's what.

If you have astigmatism or have recently been diagnosed with cataracts or presbyopia, you're definitely not alone. Although the eye is wonderfully engineered, as we age, virtually all of us will eventually have to cope with one or more of these common vision conditions.

Fortunately, advances in medical technology, especially in the areas of cataract surgery and intraocular lenses (IOLs), are making it safer and easier than ever to correct these conditions and enjoy a future that's clear, bright, and vibrant.

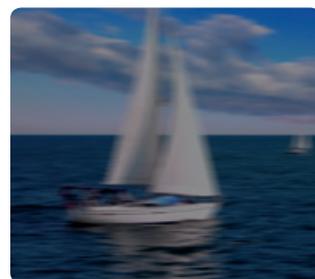


What are cataracts?

Cataracts are a very common vision condition and a normal part of the aging process. As we age, proteins begin to clump together inside the eye's natural lens, causing it to become cloudy and discolored. This causes light rays to scatter inside the eye instead of focusing directly on the retina—creating hazy, blurred vision and faded, dull colors. Typically, cataract surgery is indicated.

What is cataract surgery?

Every year, over 3 million Americans (and 18 million people worldwide) have cataract surgery.⁶ Thanks to today's innovative technology, cataract surgery is a remarkably common, safe, and effective outpatient procedure that often takes under 30 minutes. During surgery, your doctor will remove your cloudy natural lens and implant a new, clear intraocular lens (IOL). Best of all, the vast majority of cataract surgery patients enjoy much improved vision.



Cloudy, blurred vision with cataracts



Clear vision after cataract surgery

What is presbyopia?

Presbyopia is a Greek word that means “aging eyes” or “old eyes.” Medically, it describes the eye's inability to focus clearly on nearby objects due to the gradual stiffening and growing inflexibility of the lens.

It's also a natural and often annoying part of aging that most people begin to notice in their mid-40s and usually continues to worsen until one's mid-60s. This natural loss of elasticity and focus is especially noticeable during close-up activities, like reading or computer work, because the eye's “default” focus (at rest) is on distance objects. In the image below, while objects at a distance, such as road signs and traffic are clear, near vision is compromised, and the coffee cup and dashboard are blurry.



Can a single IOL correct both cataracts and presbyopia?

If you're having cataract surgery, suffer from presbyopia, and also want to avoid the lifestyle compromises of glasses and/or contacts, your doctor may recommend a premium multifocal IOL. This type of advanced IOL will address both your cataract and presbyopia, provide you with high-quality vision at near, intermediate, and far distances, and typically lessen your dependence on glasses.

What is astigmatism?

Astigmatism is a common condition that occurs when your cornea is oblong in shape, like a football, instead of being round like a basketball. When light passes through a cornea with astigmatism, the images are not focused properly, causing blurred vision. Astigmatism is typically treated with glasses or special contact lenses.



Blurred vision with astigmatism

Can a single IOL correct both cataracts and astigmatism?

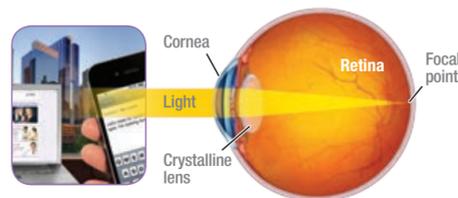
While a standard IOL can improve your vision by replacing your eye's cloudy natural lens, you will still need glasses or contacts to correct the astigmatism. However, depending upon your priorities and lifestyle, your doctor may recommend a premium toric IOL. Its advanced design replaces your cloudy natural lens, corrects your astigmatism, and typically provides crisp, clear vision with less reliance on glasses for distance vision. However, after surgery, you may still need glasses to ensure optimal near vision.

Picture yourself with a future that looks clear and bright

Advanced medical technology has given us a much clearer understanding of common vision conditions and remarkable new opportunities to correct them

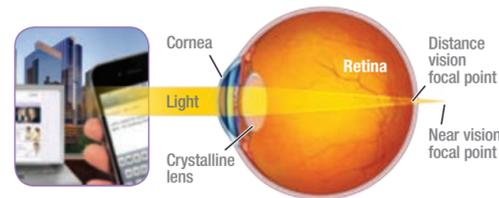
In a healthy eye

Light enters through the cornea, passes through your natural lens, and is sharply focused onto your retina, yielding a clear image.



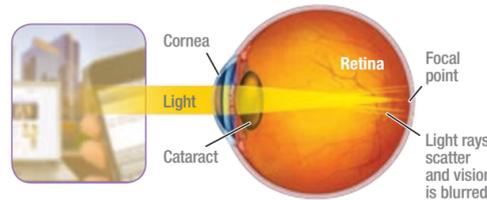
In an eye with presbyopia

Your natural lens begins to harden and, over time, becomes less flexible, reducing your eye's ability to switch between seeing objects at a distance and up close. This often results in the need for reading glasses or bifocals.



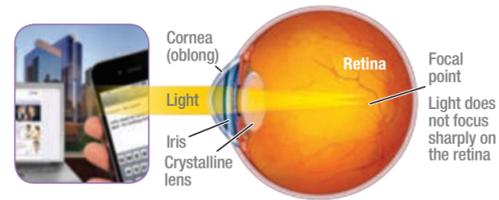
In an eye with cataracts

Proteins in your natural lens begin to cluster together with age. Over time, these clusters become clouded, discolored cataracts which scatter the light rays passing through the eye, resulting in a dull, blurry image.



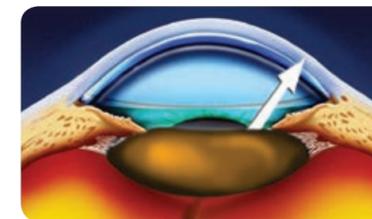
In an eye with astigmatism

Your cornea is shaped more like a football instead of a basketball (the shape of a healthy eye). When light passes through your oblong-shaped cornea, the image can't focus sharply on the retina, causing blurred vision.



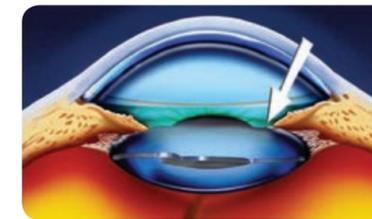
How cataract surgery is performed

Cataract Lens Removal



Your surgeon will make a small incision in your eye and use a special probe to remove your natural lens clouded by cataracts.

New Lens Insertion



Using the same small incision, your surgeon will precisely replace your cloudy lens with a new intraocular lens (IOL) implant.

Monofocal lens option

A standard monofocal IOL, such as the advanced **TECNIS**® Monofocal IOL, is designed to replace your natural lens and provide you with high-quality distance vision. You will still need glasses for viewing objects up close.

Multifocal lens option

A premium multifocal IOL, such as the versatile **TECNIS**® Multifocal IOL, is designed to provide you with high-quality vision at any distance—near, intermediate, and far—and in all lighting conditions. Since it also corrects presbyopia, your dependence on glasses will typically be diminished.

Toric lens option

Astigmatic patients typically need additional correction beyond what a standard monofocal IOL provides in order to see images in focus. A premium toric IOL, such as the innovative **TECNIS**® Toric IOL, not only corrects your astigmatism, but is also specifically designed to provide you with high-quality distance vision. You may still need glasses for near vision.

	Near	Intermediate	Distance	Astigmatism
Monofocal lens option				
Multifocal lens option				
Toric lens option				

Pre- and post-cataract surgery: What to expect

Today, virtually all cataract surgery is conducted as an outpatient procedure, which means it's relatively quick, convenient, and there's typically no hospital or overnight stay required. In fact, most cataract surgeries are completed in 20 to 30 minutes or less. Better still, most patients are able to return to their normal routines and activities in a day or so.

Typically, before and/or after your surgery, your doctor will prescribe special eye drops to help deal with possible infection and swelling. Immediately prior to surgery, you'll also be given an anesthetic to numb nerves in and surrounding your eye. Within a few hours after surgery, most patients experience improved vision. Some patients continue to experience improving vision over several days or weeks.

To learn more about cataract surgery, IOL options, and to view important safety information, visit www.MyCataractSolution.com

Important Safety Information for TECNIS® Monofocal IOL—Approved Use: The TECNIS® 1-Piece Intraocular Lens (IOL) is an artificial lens designed to be placed inside a patient's eye to replace their natural lens after cataract surgery. The lens is used to improve distance vision in adult patients. Talk to your eye doctor to find out if the TECNIS® 1-Piece IOL is right for you. **Warnings:** Existing eye conditions and surgical difficulties may increase the risk of complications. Your doctor will determine if you are a good candidate for lens replacement. **Precautions:** If your eye is not healthy, you may not get the full benefits of the TECNIS® 1-Piece IOL. Before surgery your doctor will check to see if you have any eye diseases. If you wear contact lenses, your doctor may ask you to stop wearing them before being tested for the lens. Your doctor will tell you what activities to avoid while you are recovering from surgery. A monofocal lens may give you excellent far vision, but you may still need glasses for activities requiring near vision. **Side Effects:** In less than 4% of patients, side effects with the TECNIS® 1-Piece IOL included macular edema, a swelling/thickening of an area of the retina. In less than 1% of patients, there was a need for a second surgery to replace, reposition, or remove the new lens or to repair structures of the eye.

Important Safety Information for TECNIS® Toric IOL—Approved Use: The TECNIS® Toric Intraocular Lens (IOL) is an artificial lens designed to be placed inside a patient's eye to replace their natural lens after cataract surgery. The lens is used to correct corneal astigmatism (a focusing error in the eye where near and far objects appear blurry) and to improve distance vision in adult patients. Talk to your eye doctor to find out if the TECNIS® Toric IOL is right for you. **Warnings:** Existing eye conditions and surgical difficulties may increase the risk of complications. Your doctor will determine if you are a good candidate for lens replacement. There is a possibility that the lens could be placed incorrectly or could move inside the eye and you may experience vision problems or distortions. This may require a second surgery to have your doctor correctly reposition the lens. Although you may be able to see better without glasses or contact lenses at far distances, you may still need reading glasses. **Precautions:** If your eye is not healthy, you may not get the full benefits of the TECNIS® Toric IOL. Before surgery your doctor will check to see if you have any eye diseases. If you wear contact lenses, your doctor may ask you to stop wearing them before being tested for the lens. Your doctor will tell you what activities to avoid while you are recovering from surgery. **Side Effects:** In 3.4% of patients, side effects with TECNIS® Toric included the need for a second surgery to reposition the lens or repair the retina. Other side effects included swelling/thickening of the retina (2.9%), and separation of the retina from the surrounding tissues (less than 1%).

Important Safety Information for TECNIS® Multifocal IOL—Approved Use: The TECNIS® Multifocal Intraocular Lens (IOL) is an artificial lens designed to be placed inside a patient's eye to replace their natural lens after cataract surgery. The lens is used to improve vision at all distances in adult patients. Talk to your eye doctor to find out if the TECNIS® Multifocal IOL is right for you. **Warnings:** Existing eye conditions and surgical difficulties may increase the risk of complications. Your doctor will determine if you are a good candidate for lens replacement. Under poor visibility conditions, such as dim light or fog, your vision may be reduced. You may perceive halos and/or glare around lights under nighttime driving conditions and therefore may need to take extra care when driving at night. A very small number of patients (less than 1%) may not be satisfied and request removal of their multifocal IOL. **Precautions:** If your eye is not healthy (including glaucoma) you may not get the full benefits of the TECNIS® Multifocal IOL. Before surgery your doctor will check to see if you have any eye diseases. If you wear contact lenses, your doctor may ask you to stop wearing them before being tested for the lens. Your doctor will tell you what activities to avoid while you are recovering from surgery. There is a chance that your vision with a multifocal IOL may not be good enough to perform very near or detailed "up-close" work without glasses. **Side Effects:** In less than 4% of patients, side effects with the TECNIS® Multifocal IOL included macular edema, a swelling/thickening of an area of the retina. In less than 1% of patients, there was a need for a second surgery to replace, reposition, or remove the new lens or to repair structures of the eye.

Caution: Federal law restricts these devices to sale by or on the order of a physician.