

The ReZoom® Multifocal Lens

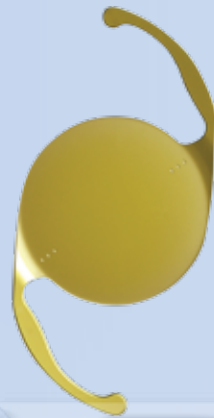


ReZoom
Multifocal Intraocular Lens

Until recently, patients undergoing lens implant surgery received a monofocal, or single focus IOL. Monofocal IOLs implanted in both eyes generally provide excellent distance vision, while patients often need spectacle correction for near and intermediate vision. In the late 1990s, Advanced Medical Optics (AMO) introduced its first multifocal IOL designed to provide multiple points of focus, thereby dramatically reducing the need for bifocals or trifocal glasses after surgery.

Today, with its many optical design enhancements, AMO's next-generation ReZoom Multifocal IOL is providing patients with a full range of vision and greater independence from glasses or contact lenses than ever before. Recent studies show that 92% of all people receiving the ReZoom lens technology NEVER, or only occasionally, need to wear glasses after the procedure.

Toric IOLs



Advances in Intraocular Lens (IOL) technology now provide a reliable and effective option for patients with astigmatism. Until the recent introduction of Toric IOLs, people who are considered candidates for intraocular lenses could only have their nearsightedness and farsightedness corrected during lens implant surgery. Patients with astigmatism would either require corneal refractive surgery (LASIK, PRK, or Limbal Relaxation Incisions) after lens implant surgery or they would remain dependent on glasses or contacts due to uncorrected astigmatism.

Astigmatism is caused by the cornea being more curved in one direction than the other, much like a football. Toric IOLs are specially shaped IOLs designed to offset the imbalance created by the irregular shape of the cornea. Once implanted and aligned inside the eye, they stay fixed in place, thereby eliminating pre-existing astigmatism.

There are several manufacturers of Toric IOLs that are available to correct various amounts of astigmatism. Your doctor will select the Toric IOL that is best suited for your eye condition. Toric IOLs are considered "premium" IOLs which means there will be additional costs associated with these lenses.

CK NearVision Conductive Keratoplasty



NearVision CK is a non-laser procedure that can reduce or eliminate farsightedness and presbyopia and offer those who have difficulty seeing small print the opportunity to read again without bifocals or reading glasses. It is best suited for patients over the age of 40 who had good vision until they reached their forties. CK can be used to correct vision after lens exchange surgery, and can be used to treat astigmatism as well.

AK Astigmatic Keratotomy

The AK procedure places arc-shaped incisions in the steeper axis (outside of the optical center of the cornea), causing the cornea to relax and become more spherical or round like a baseball. With a spherical cornea, light rays come to focus at one point on the retina, resulting in a clearer image. This procedure is performed quickly and easily in the office with topical numbing drops.

LRI Limbal Relaxing Incisions

Limbal Relaxing Incisions (LRI) are similar to AK incisions. The primary difference is in their placement on the cornea. Although they are still in the steeper axis, LRI incisions are placed much closer to the sclera (white part of the eye) on the part of the cornea called the limbus.

Incisional correction of astigmatism with AK and LRI is generally performed along with other types of surgery such as cataract surgery. They are also used to fine tune other surgeries in an effort to reduce or eliminate one's dependence on glasses or contact lenses.



New England Eye Center

Affiliated with Tufts University
School of Medicine

(888) 515-2745 or (617) 636-7800
www.BostonCataract.com

Board Certified Surgeons

Helen K. Wu, M.D.
Medical Director



Michael H. Goldstein, M.D.



Dan J. Hu, M.D.



Four Convenient Locations:
260 Tremont St., Boston, MA
1 Washington St., Welleseley, MA
20 Commercial Rd., Leominster, MA
11 Nevins St., Suite 205, Brighton, MA

Cataract Surgery

& Intraocular
Lens Options

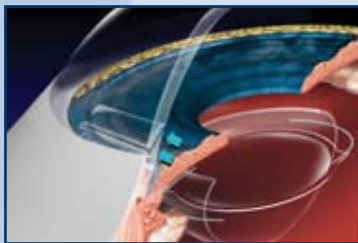


New England Eye Center

Affiliated with Tufts University
School of Medicine

www.BostonCataract.com
(888) 515-2745
(617) 636-7800

Cataract Surgery



Over fifty percent of people over the age of 60, and quite a few younger than that, suffer from cataracts. In fact, cataracts are so common it is said that everyone will develop a cataract if they live long enough.

A cataract is a progressive clouding of the eye's natural lens that interferes with light passing through to the retina. Sufferers usually describe the condition as being similar to looking through a waterfall, or a piece of wax paper, with a gradual blurring or dimming of vision.

Reading may become more difficult, and driving a car can actually become dangerous. Cataract sufferers may also be troubled by a bothersome glare, halos around lights, or even double vision. And, as the cataract becomes worse, frequent changes in eyeglass prescriptions may become necessary.

Currently, there is no medical treatment to reverse or prevent the development of cataracts. Once they form, there is only one way to achieve clear vision again, and that is to physically remove the cataract from inside the eye and replace it with an artificial intraocular lens (IOL).

In your parents' or grandparents' day, cataract surgery was considered risky, required a lengthy hospital stay, and was usually postponed for as long as possible. Today, cataract surgery is performed as an outpatient procedure and takes only about 20 minutes. Patients can then go home and rest in comfort and avoid the inconvenience and expense of staying in a hospital.

Custom Cataract Surgery with Premium Lens

Patients who are undergoing cataract surgery and who also have nearsightedness or farsightedness can usually have these distortions corrected by a standard cataract procedure with implantation of a standard "monofocal" IOL and achieve good distance vision without glasses. However, patients with astigmatism will likely still need glasses for all distances. Additionally, standard IOLs do not address the need for reading glasses that, until now, most patients required following cataract surgery.

Custom Cataract Surgery refers to not only removing the cataract, but also performing additional procedures at the time of cataract surgery and/or replacing the cataract with an IOL that can reduce the dependence on glasses or bifocals.

For most cataract patients, life without reading glasses or bifocals is something they either experienced when they were very young or they just dreamed about for most of their lives. Now, surgical procedures and IOLs have taken a giant leap forward. No longer is the objective simply to correct your distance vision with a monofocal lens. Today, the goal is to enhance your vision with Custom Cataract Surgery that can provide you with decreased dependency on glasses or bifocals.

The vast majority of patients who chose Custom Cataract Surgery report they can read a book, work on a computer, drive a car – day and night – and play golf or tennis with an increased freedom from glasses. Although learning you have a cataract can cause concern, once you understand how your vision may be improved, you may actually have reason to be excited.

The two conditions that custom cataract surgery address are presbyopia and astigmatism.



Presbyopia Correcting IOLs

Presbyopia is a condition that most people over the age of 40 experience that results in difficulty seeing up close without the aid of bifocals, trifocals, or reading glasses. This age-related condition is believed to be caused by a hardening of the lens inside the eye, making it difficult for the eye's muscles to change its focus.

Over time, the lens becomes cloudy and develops into a cataract. It is said that, if we live long enough, we will all develop cataracts. The only way to treat cataracts is to remove and replace them with an Intraocular Lens (IOL).

Until recently, the primary option was to receive a "fixed focus" IOL. Patients who received this type of IOL typically had both eyes corrected for distance vision but usually still required glasses for intermediate and near vision.

If you are experiencing presbyopia or cataracts, you may be a candidate for one of the new technologically advanced IOLs that can provide a full range of vision. This means that you can read and see clearly in the distance and everything in-between, with little or no dependence on bifocals, trifocals, or contact lenses. It's almost like having a bifocal or progressive lens inside your eye.

Depending on the technological features of these IOLs, they may be described as "Accommodating IOLs," "Apodized-diffractive IOLs," or "Multifocal IOLs." Each of these lenses has some advantages and disadvantages. Which one is best for you depends on the unique characteristics of your eye as well as your life-style needs. You and your doctor will decide together which lens is more advantageous for you.

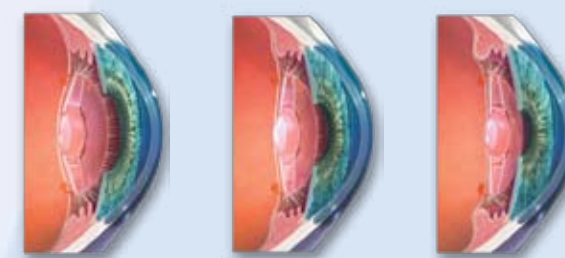


Crystalens®



Most patients over the age of 45 who are nearsighted or farsighted are also presbyopic. Presbyopia is a condition that prevents the eye's natural lens from changing shape, disallowing one to see clearly for both distance and near vision. Losing this ability is called 'loss of accommodation.' In order to restore accommodation, the crystalens is designed to provide a continuous range of vision for distance, intermediate, near, and everything in-between. This IOL is engineered with a hinge – designed to allow the optic, the part of the IOL through which you see, to move back and forth, which changes the focus from near to far.

Millions of eyes have received IOL implants when undergoing cataract surgery, using the same highly successful surgical techniques used to implant the crystalens. Performed as an outpatient procedure, the natural lens is removed using ultrasonic vibrations through a very small microincision and replaced through that same incision with the crystalens. You will remain comfortable as the eye is completely anesthetized. Many patients report improvement in their distance vision almost immediately, and your intermediate vision will improve in a week or two. The more you try to read without reading glasses, the quicker you will be able to read without them. One eye is done at a time, and the second eye is usually done in a week or two.



Distance Intermediate Near

AcrySof® ReSTOR® IOL



For most cataract patients, life without reading glasses or bifocals is something they either experienced before presbyopia or they just dreamed about for most of their lives. But today, the AcrySof® ReSTOR® IOL is turning those dreams into reality with its revolutionary lens technology, which is designed to allow patients to see clearly at all distances without bifocals or reading glasses. The AcrySof®

ReSTOR® IOL is now available and delivers a high level of glasses-free vision.

AcrySof® ReSTOR® is a breakthrough intraocular lens (IOL) that can provide patients a full range of vision—near through distance—and greatly reduce their reliance on reading glasses or bifocals. The AcrySof® ReSTOR® IOL is an artificial lens used in cataract surgery for patients with and without presbyopia.

The AcrySof® ReSTOR® IOL utilizes the apodized diffractive technology to achieve highly predictable visual acuity results, meaning patients can read prescription bottles, magazines, newspapers, and computer screens, while also seeing items at a distance independent of reading glasses or bifocals. In fact, in clinical trials, 80% of patients receiving the AcrySof® ReSTOR® IOL reported that they never wear glasses for any activities.

The AcrySof® ReSTOR® IOL is made of the same highly-biocompatible acrylic material as Alcon's market-leading AcrySof® family of intraocular lenses, which have been implanted in more than 21 million human eyes since 1991.