



NEW:
LIGHT
ADJUSTABLE
LENS *in*
REFRACTIVE
LENS EXCHANGE

The Bochner Eye Institute is one of the first eye care centres in Canada to introduce the innovative *Light Adjustable Lens* technology.

This ingenious technology, approved by both the Canadian Health Protection Branch and the United States FDA, is the first intraocular lens that can be adjusted postoperatively to improve vision.

BOCHNER
EYE • INSTITUTE

HARNESSING THE POWER OF LIGHT TO ENHANCE YOUR VISION

The Light Adjustable Lens is made of a special photosensitive material that can be reshaped in response to ultraviolet light. Refractive Lens Exchange surgery is performed using the most advanced methods, including the use of the femtosecond laser, and then the Light Adjustable Lens is implanted. Three to four weeks after surgery, when your eye is fully healed, a Light Delivery Device (LDD) is used to shine UV light to adjust the power of the lens based on the prescription.

Usually any nearsightedness, farsightedness, or astigmatism can be corrected. The light treatment takes approximately 90 seconds and, unlike with standard IOLs, you are then able to test the vision. If you are pleased with your level of vision without glasses, then a final lock in treatment is performed.

The technique of mini-monovision is usually performed, in which your non-dominant eye is targeted for a slight under-correction for distance to allow near vision. You will have the unique opportunity to adjust and preview your vision based on your personal desires and lifestyle requirements. Following the Light Delivery procedure, if vision is satisfactory, the final light treatment is performed to permanently lock in the implant power and your vision.

In a clinical study of 600 patients, who received the Light Adjustable Lens, patients were twice as likely to achieve 20/20 distance vision at 6 months without the need for glasses compared to those that received a standard implant.



WHO IS THIS PROCEDURE FOR?

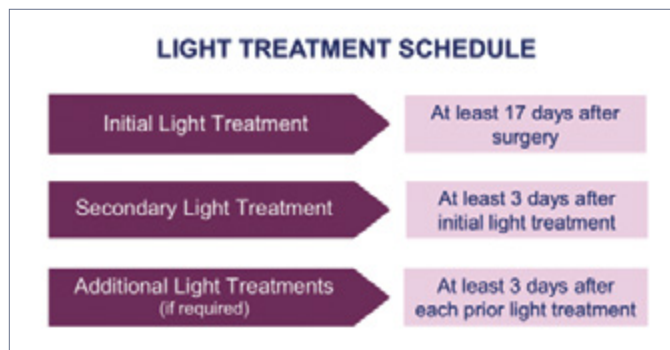
The Light Adjustable Lens can be performed in most patients looking for the best vision without glasses.

It is an ideal option especially for patients who have previously undergone any type of refractive surgery like LASIK and PRK, which makes accurate preoperative lens power measurements more difficult, increasing the risk of a postoperative refractive surprise. Patients must have a dilated pupil size of 5.3 mm or greater to qualify.

HOW DOES IT WORK?

The optimization after lens implantation is done by the team of eye doctors at Bochner through a series of light treatment procedures that take only a few minutes each.

The light delivery device (pictured below) delivers UV light noninvasively to the Light Adjustable Lens to adjust your vision to the desired target. The system gives your doctor the flexibility to make adjustments and refinements to meet your specific criteria.



Between 3 and 5 total light treatments, each lasting approximately 90 seconds, are required. The total number of light treatments is based on achievement of the desired visual outcome that you and your doctor selected.

Once you have achieved your final optimal vision, the lens power is permanently locked with two final light treatments to prevent any further changes. When you experience the results of your adjustments, you will better understand the value of adjusting and customizing your vision after your surgery.



WHAT TO EXPECT AFTER SURGERY

In the weeks following your surgery, you and your team at Bochner will work together to optimize your vision using UV light treatments. During this period, you will need to wear UV-blocking glasses provided to you by your doctor. These glasses will protect your eyes from exposure to all other sources of indoor and outdoor UV light, which can cause uncontrolled changes to the Light Adjustable Lens.

The UV protective glasses should be worn from the time of lens implantation until 24 hours after your last light treatment is completed. At that point, no further changes can be made to the implanted Light Adjustable Lens, and you can remove the UV protective glasses and enjoy your custom vision.

UV-PROTECTIVE GLASSES



You must wear the UV-protective glasses supplied to you as they have a special protective coating that no other glasses have.

The glasses can only be removed while showering, washing your face, when sleeping or applying eye drops. The glasses ensure there are no uncontrolled changes to the Light Adjustable Lens beyond the precise changes made during light treatments. You should not go to a tanning studio or receive facial beauty treatments (such as laser hair removal or permanent makeup).

Total wear is typically 4–6 weeks; however, this can vary depending on the number of light treatments needed. If you lose a pair, continue to wear the other pair provided and contact your eye clinic to replace them.

THE COST

The LAL and the subsequent laser treatments are not covered by OHIP. OHIP covers all medically necessary procedures and treatments. The LAL is considered elective to enhance your vision without the need for glasses.

The cost of the LAL procedure is \$6,200 per eye, which includes the preoperative tests, specialized implant, the laser treatments, and all follow-up visits during the first 6 months.

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