

Visian ICL Consent

INTRODUCTION

This information is being provided to you so that you can make an informed decision about having eye surgery to reduce or eliminate your nearsightedness. Only you and your ophthalmologist can determine if you should have phakic implant surgery based upon your own visual needs and medical considerations. Take as much time as you wish to make your decision before signing this consent form. You are encouraged to ask your doctor questions about this procedure before agreeing to have it.

The Visian ICL™ (Implantable Collamer Lens) is a lens that is permanently implanted in the eye behind the iris and in front of the natural lens. It is called a phakic intraocular lens (IOL) because the eye still has its natural lens. The Visian ICL™ has been approved by the Food and Drug Administration (FDA) for the treatment of patients with moderate to severe nearsightedness (myopia). Myopia, the clinical term for nearsightedness, is a condition that causes light rays to focus in front of the retina, causing distant objects to look blurry or distorted. It can be caused by an eyeball that is too long for its optical power or by curvature of the cornea or lens that is too high for the actual length of the eyeball. The amount of myopia is measured in “diopters,” a technical term used to describe the power of a lens. The Visian ICL™ is approved for treatment of myopia between the ranges of -3 diopters to -20 diopters, with up to 2.5 diopters of astigmatism.

Phakic implant surgery is an elective procedure: there is no emergency condition or other reason that requires or demands that you have it performed. You could continue wearing contact lenses or glasses and have adequate visual acuity. This procedure, like all surgery, presents some risks, many of which are listed below. You should also understand that there may be other risks not known to your doctor, which may become known later. Despite the best of care, complications and side effects may occur. Should this happen in your case, your vision could be affected, and might even be worse than before surgery.

ALTERNATIVES TO PHAKIC IMPLANT SURGERY

You are under no obligation to have phakic implant surgery. If you decide not to have phakic implant surgery, there are other methods of correcting your nearsightedness:

Non-Surgical Alternatives

Contact lenses or glasses are non-surgical, extremely accurate, permit easy changes in prescription, and also allow the eye to retain its focusing power for near vision.

1. *Spectacles (glasses)* Although there are essentially no risks to wearing glasses, the quality of vision with strong nearsighted glasses is not normal because of the smaller appearance of images (“minification”) and the slight decrease in peripheral vision caused by the thickness of the lenses.
2. *Contact Lenses.* While contact lenses provide higher quality and more normal vision, they have a slight risk of complications, especially if they are worn overnight. The risks of contact lenses include infection, allergies, irritation, and discomfort.

Surgical Alternatives, Including Laser

There are several other procedures for the correction of moderate to high myopia. Unlike phakic implant surgery, PRK and LASIK do not require an incision into the inside of the eye.

1. *Photorefractive Keratectomy (PRK)* uses an excimer laser to reshape the cornea to refocus light rays on the cornea. PRK is typically used to correct low and moderate amounts of myopia.
2. *LASIK* is a two-phase operation. First, a thin layer of cornea (flap) is created with the microkeratome using a laser. Then the exposed surface of the cornea is reshaped with an excimer laser, and the flap is returned to its original position. LASIK has been found to be quite successful and relatively safe for the correction of low and moderate amounts myopia. At higher levels of myopia, LASIK and PRK can cause complications involving the quality of vision, especially at night. For these reasons, many surgeons have stopped performing LASIK and PRK for highly nearsighted eyes.
3. *Refractive Lens Exchange (RLE)* is an intraocular procedure in which the natural lens is removed and replaced with a synthetic lens of a more accurate power. Patients age 40 or over may request a multifocal lens that corrects for both near and distance vision. Refractive lens exchange is most appropriate for patients who are already presbyopic.

GENERAL DESCRIPTION OF TREATMENT WITH PHAKIC IMPLANT SURGERY

If you wear contact lenses, you will be required to leave them out of the eyes for a period of time prior to having your preoperative eye examination and before your surgery. This is done because the contact lens rests on the cornea, distorting its shape, and this distortion will have an effect on the accuracy of the doctor's measurements of the power of surgical correction needed.

Discontinuing contact lens use allows the corneas to return to their natural shape. Soft contact lens wearers should leave lenses out of the eyes for at least one week. Rigid (including gas permeable and standard hard lenses) contact lens wearers should leave lenses out of the eyes for at least three weeks. Rigid contact lens wearers usually experience fluctuating vision once their lenses have been discontinued due to changes in the shape of the cornea. Although the cornea usually returns to its natural state within three weeks, this process may take longer, and you will need to remain contact lens free until stabilization is complete.

The surgeon will make two small holes in the colored portion of your eye (the iris) to help ensure that intraocular fluid does not build up behind the phakic lens; this procedure is called an iridotomy. It will take place either at the time of surgery by using an instrument (a surgical iridotomy) or within two weeks before the placement of the phakic implant by using a laser (YAG-laser iridotomy).

Before phakic implant surgery begins, your pupils will be dilated and you will be given an anesthetic to minimize any pain during surgery. You may undergo light sedation administered by an anesthesiologist or nurse anesthetist while your eye is made numb by your surgeon with either drops or an injection (local anesthesia). All methods of anesthesia have risks, and although not common, may include the risk of serious bodily injury or death. You have the right and are encouraged to ask your doctor or health care professional any questions you have related to the anesthesia.

After your pupil has been dilated, and your eye has been anesthetized, the surgeon will make a small incision in your cornea to allow insertion of the lens. The Visian ICLTM phakic IOL is inserted in the posterior chamber of the eye, behind the iris and in front of the natural lens. The incision required to perform this operation is usually self-sealing but it may require closure with very fine stitches (sutures) which will gradually dissolve over time or may require removal later in the office. A temporary shield may be placed over the eye to protect it during the immediate postoperative period.

You will return to the office the next day for an examination. The shield will be removed and your eye will be examined with a microscope to make sure the lens is positioned correctly and that there are no complications. You will return for additional postoperative exams. Although you may see some improvement in your vision as early as the first postoperative day, the visual effects of phakic implant surgery may take several weeks to stabilize. Patients are generally able to return to their normal activities within 2 or 3 days following phakic implant surgery.

BENEFITS OF PHAKIC IMPLANT SURGERY

If you have moderate to high myopia, phakic implant surgery may improve your natural distance vision without the use of glasses or contacts.

LIMITATIONS OF PHAKIC IMPLANT SURGERY

1. This procedure does not treat presbyopia, a condition common in patients age 40 or older in which the eye loses its ability to change power to allow focusing of both near and distant objects. Even with a successful surgery and an accurate intraocular lens calculation targeted to correct the eye's distance vision, close vision will usually remain blurred for presbyopic patients. Patients age 40 or older are likely to require bifocals or reading glasses to improve their near vision.
2. The phakic lens does not correct astigmatism.
3. The results of this surgery cannot be guaranteed, and glasses may still be required for sharpest vision for distance, for night driving or other activities performed in low light, for reading or, for all of these activities.
4. With increasing age, patients are likely to develop cataracts. If the cataracts are significant enough to cause visual problems, the phakic implant may need to be removed so that the eye can undergo cataract removal with or without implantation of an artificial intraocular lens.

PATIENT RESPONSIBILITY FOR COSTS

Health insurance generally does not pay for elective phakic implant surgery for the purpose of correcting natural vision. Therefore, the patient is responsible for the cost of the surgery, including the surgeon's fee, anesthesiologist's fee, (if any), and the surgical center's or hospital's fee. In the event of a complication, it may be possible that other surgery, eye drops, or even hospitalization may be required. Some or even all of these costs may be covered by health insurance. The patient is responsible for the costs of any uncovered surgery-related injuries.

POSSIBLE COMPLICATIONS

Complications of Iridotomy

Potential complications of either a YAG-laser iridotomy or a surgical iridotomy are very rare but include damage to the natural lens; inflammation inside the eye; temporary increases in the pressure in the front part of the eye; cataract formation; bleeding (usually a small amount but can be a large amount); scar formation between the iris and phakic IOL (synechia) that prevents the pupil from moving correctly; corneal damage; and vision disturbances such as double vision (diplopia), glare, or halos.

Vision-Threatening Complications

1. In most cases, the surgery will be accomplished with numbing drops.

2. I understand that mild or severe infection is possible. Mild infection can usually be treated with antibiotics and usually does not lead to permanent visual loss. Severe infection, even if treated with antibiotics, could lead to permanent scarring and loss of vision that may require corrective laser surgery or, if very severe, corneal transplantation, blindness, or even loss of the eye.
3. I understand that I could experience damage to the iris (the colored portion of the eye) or develop a rise in the pressure in the front of my eye (secondary glaucoma). I may require another iridotomy or eye drops to control the pressure if this occurs.
4. I understand that I could develop a retinal detachment, a separation of the retina from the inside wall of the eye, which usually results from a tear in the retina and could lead to vision loss. Patients with moderate to high levels of nearsightedness have a higher risk of retinal detachment when compared to the general population. This risk level may be increased with implantation of the phakic IOL.
5. I understand that I may develop a cataract, or a clouding of the eye's natural lens, which impairs normal vision, and may require removal of the lens, the phakic implant, and insertion of an artificial lens. Patients with high levels of nearsightedness are at higher risk for cataract development, and that risk may be increased with implantation of the phakic IOL.
6. I understand that I may develop corneal swelling (edema) and/or ongoing loss of cells lining the inner surface of my cornea (endothelial cells). These cells play a role in keeping the cornea healthy and clear. Corneal edema and loss of endothelial cells may result in a hazy and opaque appearance of the cornea, which could reduce vision. It is not yet known how much endothelial cell loss will occur and what effect the cell loss and phakic implant will have on the long-term health of the cornea. If too many cells are lost over time, I may need a corneal transplant.
7. I understand that I may develop glaucoma, which is an increase in the pressure of the eye caused by slowed fluid drainage. Glaucoma can lead to vision loss, and may require treatment with long-term medications or surgery. Patients with high levels of nearsightedness are at an increased risk for the development of glaucoma, and that risk may be increased by implantation of the lens. The effect of the Visian IC^{LTM} Phakic IOL on the future risk of glaucoma is not known.
8. I understand that other complications could threaten my vision, including, but not limited to, iritis or inflammation of the iris (immediate and persistent), uveitis, bleeding, swelling in the retina (macular edema), and other visual complications. Though rare, certain complications may result in total loss of vision or even loss of the eye. Complications may develop days, weeks, months, or even years later. On occasion, it is necessary to remove the ICL from the eye entirely to prevent ongoing problems.

Non Vision-Threatening Complications

1. I understand that I may be given sedation in conjunction with the procedure and that my eye may be patched afterward. I have been advised not to drive immediately after receiving sedation and for a period of eight hours thereafter. I understand that my life and health and the life of others will be at risk if I drive during this period. This is because I may be impaired by the sedative. I also understand that driving while impaired may violate traffic laws.
2. I understand that there may be increased sensitivity to light or night glare. I also understand that at night there may be a "starbursting" or halo effect around lights. The risk of this side effect may be related to the size of my pupil, and larger pupils may put me at increased risk.

3. I understand that an overcorrection or undercorrection could occur, causing me to become farsighted, remain nearsighted, or increase my astigmatism and that this could be either permanent or treatable with either glasses, contact lenses, or additional surgery.
4. I understand that the phakic lens may need to be repositioned, removed surgically, or exchanged for another lens implant. The lens may change position (decentration), or I may require a different size or power of lens than that of the implanted lens. In rare instances, lens power measurements may significantly vary, resulting in the need for corrective lenses or surgical replacement of the phakic lens. Potential complications of additional surgery include all of the complications possible from the original surgery.
5. I understand that, after phakic implant surgery, the eye may be more fragile to trauma from impact. Evidence has shown that, as with any scar, a corneal incision will not be as strong as the cornea originally was at that site. I understand that the treated eye, therefore, is somewhat more vulnerable to all varieties of injuries, at least for the first year following phakic implant surgery. I understand it would be advisable for me to wear protective eyewear when engaging in sports or other activities in which the possibility of a ball, projectile, elbow, fist, or other traumatizing object contacting the eye may be high.
6. I understand that there is a natural tendency of the eyelids to droop with age and that eye surgery may hasten this process.
7. I understand that there may be pain or a foreign body sensation, particularly during the first 48 hours after surgery.
8. I understand that the long-term effects of phakic implant surgery are unknown and that unforeseen complications or side effects could possibly occur.
9. I understand that the correction that I can expect to gain from phakic implant surgery may not be perfect. I understand that it is not realistic to expect that this procedure will result in perfect vision, at all times, under all circumstances, for the rest of my life. I understand I may need glasses to refine my vision for some purposes requiring fine detailed vision after some point in my life, and that this might occur soon after surgery or years later.
10. I understand that if I currently need reading glasses, I will still likely need reading glasses after this treatment. It is possible that dependence on reading glasses may increase or that reading glasses may be required at an earlier age if I have this surgery.
11. I understand that, as with all types of surgery, there is a possibility of complications due to anesthesia, drug reactions, or other factors that may involve other parts of my body. I understand that, since it is impossible to state every complication that may occur as a result of any surgery, the list of complications in this form is not complete.

PATIENT CONSENT

I give Dr Parekh permission to perform either a YAG-laser iridotomy or a surgical iridotomy AND phakic implant surgery, and acknowledge that I understand the following: the foreseeable risks of phakic implant surgery are not fully known. I have received no guarantee as to the success of my particular case and I understand that I may still need glasses, contact lenses, or a laser procedure such as LASIK or PRK for further improvement of my vision. I understand that during the surgical procedure, the doctor may decide not to implant the lens even though I have given permission to do so. Furthermore, I understand that the following risks are associated with the procedure.

PATIENT'S STATEMENT OF ACCEPTANCE AND UNDERSTANDING

The details of phakic implant surgery have been presented to me in detail in this document and by my eye doctor. Although it is impossible for the doctor to inform me of every possible complication that may occur, my eye doctor has answered all my questions to my satisfaction.

In signing this informed consent for YAG-laser iridotomy or surgical iridotomy, AND phakic implant surgery, I am stating that I have read this informed consent (or it has been read to me), fully understand the possible risks, complications, and benefits that can result from the surgery and the alternatives available to me, and hereby give my consent to have phakic implant surgery performed on my _____ (**state "right" or "left" or "both" eye(s).**)

Patient (or person authorized to sign for the patient)

Date

Witness

Visian ICL Consent Addendum

This addendum is to be used in conjunction with the Visian ICL Consent. Do not sign this addendum without first reading and signing that form.

Risks:

Having both right and left eye phakic implant surgeries done on the same day may increase the consequences of having vision-threatening complications such as infection, swollen corneas, swollen retinas, retinal detachment. Instead of vision impairment or loss in one eye, it could lead to loss of vision or even blindness in both eyes. In addition, the planned visual outcome may not be as precise since my doctor won't have the advantage of knowing the results from the first eye phakic implant surgery, and altering the surgical approach or IOL power accordingly.

Benefits:

Having both phakic implant surgeries done on the same day reduces the risks for me of having anesthesia twice and the inconvenience and problems associated with anisometropia which can make it hard to see well between surgeries scheduled days or weeks apart.

Discussion:

My doctor has determined that I am a candidate to have phakic implant surgeries in both eyes. If I choose to have bilateral same day phakic implant surgeries, my doctor has discussed certain steps he will take to reduce the risk of complications, especially infection, in each eye.

By signing below, I am indicating my willingness to accept the possible increased risk of eye complications of bilateral phakic implant surgery.

Patient (or person authorized to sign for the patient)

Date

Witness