GENERAL INFORMATION

The following information is intended to help you make an informed decision about having Laser Assisted In Situ Keratomileusis (LASIK) surgery.

It is impossible to list all of the possible risks and complications associated with this proposed surgery or any other treatment. Risks and complications that are considered unforeseeable, remote, or commonly known are not discussed.

The U.S. Food and Drug Administration (FDA) has approved our excimer laser for use in LASIK, for the treatment of myopia (nearsightedness) with/without astigmatism or hyperopia (farsightedness) with/without astigmatism.

AN OVERVIEW OF THE LASIK PROCEDURE

LASIK Surgery Described: LASIK permanently changes the shape of the cornea. The surgery is performed using a topical anesthetic (drops in the eye). The procedure involves folding back a thin layer of corneal tissue (corneal flap). The corneal flap is created with an instrument called a microkeratome or a femtosecond laser. The femtosecond laser creates the flap by producing tiny bubbles inside the cornea that are 1/10,000 of an inch in diameter. (The laser beam cannot penetrate into the eye beyond the cornea.) Once the flap has been made, a thin layer of corneal tissue is removed with the light from an excimer laser. After removal, the flap is replaced and bonds back into place, usually without the need for stitches. The removal of thin layers of tissue causes the center of the cornea to flatten in the case of nearsightedness, or steepen in the case of farsightedness or become more rounded in the case of astigmatism, which changes the focusing power of the cornea.

Limits of LASIK: Although the goal of LASIK is to improve vision to the point of not being dependent on glasses or contact lenses, or to the point of wearing thinner (weaker) glasses, this result is not guaranteed. Additional procedures, spectacles or contact lenses may be required to achieve adequate vision. LASIK surgery will not prevent you from developing naturally occurring eye problems such as glaucoma, cataracts, or retinal degeneration or detachment.

LASIK does not correct the condition known as presbyopia (aging of the eye), which occurs in most people around age 40 and requires them to wear reading glasses for close-up work, sometimes including computer distance. The key question you must ask yourself is: Can you
read up close while looking through the TOP part of your distance glasses? If you must take off your distance glasses or use bifocals to read up close, then you have presbyopia. Patients with presbyopia who get both eyes fully corrected for distance vision will then need to use reading glasses to seeing clearly up close, this sometimes includes computer distance. Therefore, if you presently need reading glasses, you will likely still need reading glasses after this treatment. If you do not need reading glasses because you take off your distance glasses to read, you will likely need reading glasses after this treatment if you have both eyes corrected fully for distance. If you do not need reading glasses now, you will need them at a later age. You may consider having one eye weighted for mid-range near vision. Many patients over the age 40 make this decision and are extremely pleased with both their distance and mid-range near vision (example: computer screen, shopping tags, seeing your food) and then use simple reading glasses for close-range and for smaller printed materials (example: newspapers, some magazines, road maps).

Risks and Contraindications

Contraindications: The treatment should not be performed on persons:

- with uncontrolled vascular disease
- with uncontrolled autoimmune disease;
- who are immune-compromised or on drugs or therapy that suppress the immune system;
- who are pregnant, nursing, or expecting to become pregnant within the six months following the LASIK procedure;
- with residual, recurrent, or active ocular disease(s) or abnormality except for myopia with/without astigmatism, hyperopia with/without astigmatism or presbyopia in either eye;
- with active or residual disease(s) likely to affect wound-healing capability;
- with unstable or uncontrolled diabetes;
- with progressive myopia or hyperopia;
- with uncontrolled glaucoma
- with uncontrolled dry eyes or blepharitis

If you know that you have any of these conditions, you should inform your physician. In addition, if you have any other concerns or possible conditions that might affect your decision to undertake LASIK surgery, you should discuss them with your physician.

Risks: The risks of LASIK surgery include, but are not limited to:

- **Loss of Vision:** LASIK surgery can possibly cause loss of best-corrected vision. This can be due to infection (internal or external), scarring or other causes. Unless successfully controlled by antibiotics, steroids, or other necessary treatment, it could even cause loss of the infected eye. Vision loss can be due to the cornea healing with an irregular surface, which could cause astigmatism and make wearing glasses or contact lenses necessary. Irregular cornea healing could result in an uneven corneal surface so that distorted vision or “ghosting” occurs. This may or may not be correctable by spectacles or contact lenses. The femto-second laser or the excimer laser could malfunction, requiring the procedure to be stopped before completion. Depending on the type of malfunction, this may or may not be accompanied by visual loss.

- **Visual Side Effects:** Other complications and conditions that can occur with LASIK surgery include: epithelial ingrowth (epithelial cells growing underneath the corneal flap); anisometropia (difference in power between the two eyes); aniseikonia (difference in imaging size between the two eyes); double vision; hazy vision; induced astigmatism;
I have read and understand this page. Patient Initials ______

reduced contrast sensitivity; fluctuating vision during the day and from day to day; increased or decreased sensitivity to light that may be incapacitating for some time and may not completely go away; glare and halos around lights, which may not completely go away. There is a greater chance that the whites of my eyes may temporarily appear pink or red for several days to several weeks after surgery. This redness is more common with femtosecond -created flaps than with microkeratome-created flaps. Your vision after surgery using the IntraLase technology may not be clear immediately and you might not notice improvement for several days to several weeks.

- **Residual nearsightedness, farsightedness and/or astigmatism:** It may be that LASIK surgery will not give you the result you desired. Some procedures result in the eye being undercorrected. If this occurs, it may be possible or necessary to have additional surgery to fine-tune or enhance the initial result. It is also possible that your eye may be overcorrected to the point of becoming farsighted (by over treating myopia) or nearsighted (by over treating hyperopia). It is possible that your initial results could regress over time. In some, but not all cases, re-treatment, glasses or contact lenses could be effective in correcting vision. In some cases, even 90% clarity of vision is still slightly blurry. Retreatment surgeries can be performed when vision is stable UNLESS it is unwise or unsafe. Retreatment surgery can be performed no sooner than three months after surgery. Generally, the original flap can be re-lifted without creating a new flap. Rarely, a new flap may need to be created. A retreatment will only be considered if there is adequate corneal tissue. If there is inadequate tissue, it may not be possible to perform a retreatment. An assessment and consultation will be held with the surgeon at which time the benefits and risks of a retreatment surgery will be discussed.

- **Keratoconus:** It is a degenerative corneal disease affecting vision that occurs in approximately 1/2000 in the general population. While there are several tests that suggest which patients might be at risk, this condition can develop in patients who have normal preoperative topography (a map of the cornea obtained before surgery) and pachymetry (corneal thickness measurement). Since keratoconus may occur on its own, there is no absolute test that will ensure a patient will not develop keratoconus following laser vision correction. Severe keratoconus may need to be treated with a corneal transplant while mild keratoconus can be corrected by glasses or contact lenses.

- **Other Risks:** Other reported complications include corneal ulcer formation; clouding or hazing of the cornea; cornea scarring; endothelial cell loss (loss of cell density in the inner layer of the cornea, possibly resulting in corneal swelling); ptosis (droopy eyelid); corneal swelling; contact lens intolerance; increased dry eyes; blepharitis (inflammation of eyelids or scaly eyelids); rosacea (eyelid nodules); retinal detachment; new or increased floaters; hemorrhage; diminished depth perception; corneal epithelial (skin) abrasion or defect which can slow the recovery process and may lead to reoccurring corneal erosions with eye discomfort and blurred vision. Complications could also arise requiring further corrective procedures including either a partial (lamellar) or full-thickness corneal transplant using donor cornea. These complications include loss of corneal disc; damage to the corneal disc; disc decentration; progressive corneal thinning (ectasia). Sutures may also be required which could induce astigmatism. It is also possible that the microkeratome or the excimer laser could malfunction and the procedure stopped. There are also potential complications due to anesthesia and medications that may involve other parts of your body. The laser may need to be aborted if an improper flap is created. If this occurs, LASIK may be attempted again after at least 3 months or another procedure may be used to attempt vision correction. Since it is
impossible to state all potential risks of any surgery or procedure, this form does not provide a comprehensive listing of every conceivable problem. Prior to creating the flap the surgeon will test the outer layer of the cornea, epithelium, if this outer layer is loose the surgeon will need to change to a surface laser procedure (i.e. PRK or LASEK).

If you have had previous eye surgery it is possible that during the procedure that the incisions could re-open. This could decrease the healing and lead to irregular healing. A contact lens may need to be worn as a bandage until the incisions close. In a rare case sutures may be required to close the incisions. In a very rare case a cornea transplant may be needed to restore useful vision.

- **Employment Risk:** You should be aware that having this surgery may affect future employment opportunities with certain military or law enforcement agencies. This procedure may impair your ability to perform your job.

- **Later-Discovered Complications:** LASIK is a relatively new technique. You should be aware that other complications might occur that have not yet been reported. Longer-term results may reveal additional risks and complications. After the procedure, you should continue to have routine check ups to assess the condition of your eyes.

- **Risks of Not Undergoing LASIK:** The risks of not having the surgery are limited to those associated with your current visual condition. These include but are not limited to the dangers that may be associated with losing glasses or contact lenses, the risks of corneal distortion and/or infection from wearing contact lenses, and the risks of trauma to the eye caused by breakage of plastic spectacles or contact lenses in the eye.

**Alternatives to LASIK**

LASIK is purely an elective procedure, and you may decide not to have this operation at all.

Among the alternatives are:

- Eyeglasses/spectacles
- Contact lenses
- Photorefractive keratectomy (PRK)
- Radial Keratotomy (RK)
- Automated lamellar keratoplasty (ALK)
- Orthokeratology
- Hexagonal keratotomy (HK)
- Corneal relaxing incision (AK)

You may wish to discuss these options with your physician.

**Pre- and Post-Treatment Care**

I have read and understand this page. Patient Initials ______
Before the LASIK Surgery

- **Pregnancy:** Pregnancy could adversely affect your treatment result since your refractive error can fluctuate during pregnancy; In addition, pregnancy may affect your healing process, and some medications may pose a risk to an unborn or nursing child. If you are pregnant, or expecting to become pregnant, you should not undergo the LASIK procedure until after the pregnancy.

- **Taking medications and allergies:** You should inform your physician of any medications you may be taking in order to account for the risk of allergic reactions, drug reactions, and other potential complications during the LASIK surgery and subsequent treatment.

- **Contact lens wearers:** Patients who wear gas-permeable or hard contact lenses must completely stop wearing such lenses at least 3 weeks prior to the initial eligibility examination. (This period may be longer for some patients.) Patients who wear soft contact lenses must completely stop wearing their soft contact lenses at least 3 days prior to the eligibility examination. After the eligibility exam, you may wear your contacts up until 24 hours prior to surgery.

Post-Treatment Precautions:

- **Eye Protection:** Avoid exposing the eye to tap water in the bath or shower, as such nonsterile water may expose the eye to increased risks of infection. Wear sunglasses during the first day after having surgery. The eye shield should be worn nightly for 1 week. Avoid rubbing the eye. The eye may be more fragile to trauma from impact. Evidence has shown that, as with any other scar, the corneal incision will not be as strong after healing as the original cornea was at the site of the incision. If you have astigmatic keratotomy (AK) to correct astigmatism, it may weaken the eye as well. Therefore, the eye is somewhat more vulnerable to all varieties of injuries after LASIK, at least for the first year after surgery. You must wear protective eye wear when engaging in contact or racquet sports or other activities in which the possibility of a ball, projectile, elbow, fist or other traumatizing object contacting the eye may be high. No water skiing or jet skiing for 3 months after surgery.

- **Operating Motor Vehicles:** After LASIK, in order to operate motor vehicles, glasses, contact lenses, eye drops, or other measures may be needed. After surgery, you may experience starburst-like images or “halos” around lights, your depth perception may be slightly altered, and image sizes may appear slightly different. Some of these conditions may affect your ability to drive and judge distances. Driving should only be done when you are certain that your vision is adequate. On the day of the LASIK procedure and for your 1 day postoperative appointment, you should arrange to have a driver.

- **Pain and Discomfort:** The amount of pain and discomfort that can be expected soon after the LASIK procedure varies with the individual. You should expect that the eye will be sore to some extent after the surgery. Vision may be blurry, and you may experience some redness and/or corneal edema (swelling of the cornea). Some patients report the sensation of a foreign object in the eye, itching, or dryness of the eye.

Patient Statement

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I have read and understand this page. Patient Initials ______
• I have read this Informed Consent form (or it has been read to me). The LASIK procedure has been explained to me in terms that I understand.

• I understand that the LASIK procedure has been approved by the FDA for the treatment of myopia (nearsightedness) with/without astigmatism or hyperopia with/without astigmatism.

• I have been informed about the possible benefits and possible complications, risks, consequences, and contraindications associated with LASIK. I understand that it is impossible for my doctor to inform me of every conceivable complication that may occur, and there may be unforeseen risks. I have been given the opportunity to ask questions and have received satisfactory answers to any questions I have asked. I understand that no guarantee of a particular outcome was given and that my vision could become better or worse following treatment.

• My decision to undertake the LASIK procedure was made without duress of any kind. I understand that LASIK is an elective procedure, and my myopia or hyperopia and/or astigmatism may be treated by alternative means, such as spectacles, contact lenses, or other forms of refractive surgery. It is hoped that LASIK will reduce or possibly eliminate my dependence on glasses or contact lenses. I understand that the correction obtained may not be completely adequate and that additional correction with glasses or contact lenses may be needed.

• I authorize the physicians and other health care personnel involved in performing my LASIK procedure and in providing my pre- and post-procedure care to share with one another any information relating to my health, my vision, or my LASIK procedure that they deem relevant to providing me with care.

• I understand that my surgical measurements will be entered into a database (without any personally identifiable information) for the purposes of surgical planning, research, marketing and publication and that this non-identifiable data will be accessible to parties outside of Santa Monica Eye Medical Group.

• I have had sufficient time to review this consent form. A physician or an associate has adequately addressed my questions and concerns. By signing below, I am making an informed decision to undergo the LASIK procedure. I have received (or been offered) a copy of this consent for my own records.

• I authorize the release of my medical records in order to process medical claims or requests for further information from insurance companies.

• I understand that I have had an interpreter or legal guardian read this consent that they will sign under the surrogate consent area for me.

• I understand that if I elect to have another physician and/or optometrist (outside of the Santa Monica Eye Medical Group) follow my postoperative care that I will sign the management consent form.
I consent to have Dr. ________________________ perform LASIK on my:
(circle one) right eye/ left eye/ both eyes.

____________________________________
Patient Printed Name

____________________________________            _______________________
Patient Signature                        Date

____________________________________
Witness Printed Name

____________________________________            _______________________
Witness Signature                        Date

FOR SURROGATE CONSENT

I am the guardian, next-of-kin, or legal representative of the patient whose name appears above on the patient signature line. I have read and fully understand the foregoing information and have discussed this information and its terms with the patient to the extent of the patient’s understanding. Due to the patient’s inability to provide informed consent, I consent to have LASIK performed on the patient’s right eye/ left eye/ both eyes.

____________________________________
Printed Name of Surrogate

____________________________________
Surrogate Signature                        Date

____________________________________
Nature of Relationship to Patient

____________________________________
Witness Signature

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I have read and understand this page. Patient Initials _____
MANAGEMENT CONSENT FORM

It is my desire to have Doctor ____________________________, perform my preoperative/postoperative follow-up care for refractive surgery. I have been assured that the Santa Monica Eye Medical Group will be contacted immediately if I experience any complications related to my eye surgery.

Reason for Management by this doctor, is: (please check one)

___ Maintain established eye care relationship.
___ Difficult to return to Santa Monica Eye Medical Group for follow-up care because of location.
___ Other (please give reason) _______________________________________________________

Patient Signature ___________________________________ Date _________________________

Witness Signature ___________________________________ Date _________________________