

## **IntraLasik – All you should know.**

IntraLasik is an advance, 100% bladeless technique used for the first and most critical stage of LASIK, creating the corneal flap. It uses the most advance 5<sup>th</sup> generation Intralase Laser to undergo the process. This procedure provides the patient with high level of safety and has the ability of designing customized flaps for all the patients. Unlike mechanical instruments, Intralase technology is able to program the dimensions of your flap uniquely based on the requirements of your eye and also what is best for your eye.

## **Working and procedures involved**

The process begins with the determination of appropriate size and thickness of a patient's corneal flap.

In the next step, the information is fed into the laser making it possible for the surgeon to customize Intra [Lasik](#) according to every patients' unique visual requirements.

The method uses very tiny and rapid pulses of laser for creating user specific corneal flap in place of using metal blade as done in the first step of LASIK. Ultra-fast pulses of laser position microscopic bubbles at a precise depth determined by your doctor.

The laser passes harmlessly through your cornea. Then the laser creates rows of microscopic bubbles at a specific position and depth right beneath the surface of cornea, as these bubbles move back and forth across the eye.

The next step involves the laser collecting the bubbles around the diameter of cornea, at a specified angle which differs from patient to patient because of their eye structure. It is later used in creating the edges of corneal flap. The process might sound very hectic and dangerous but it's the IntraLasik that makes it very easy and takes only about 12 seconds to complete the procedure successfully, which shows that the surgery is quite comfortable.

## **Recommendations and usefulness**

IntraLASIK was recommended and approved as the best treatment choice for optical laser surgery by NASA for their own astronauts and also by the US-DoD (United States Department of Defence) for their pilots in both Air Force and Navy, because of the vision correction achieved

and this has been one of the best achievements in the optics and medical field for vision correction, and involves minimum amount of risk, which includes the removal of blade.

The treatment procedure also provides a patient with

- a) biomechanical superiority,
- b) excellent visual acuity, and
- c) unmatched safety

## **Specific Features**

IntraLASIK offers the most effective, safest and still the fastest treatment to its patients. It also provides an ultimate level of safety due to its micron level precision feature.

The accuracy of this laser surgery is at least a 100 times more accurate and effective than any mechanical blade. It currently stands unchallenged by any other technology present in optical improvement surgery. IntraLasik gives a surgeon more power and control during the procedure as compared to LASIK or PRK. And as we already now, this process is patient specific as the corneal flap made, is according to requirement of the patients eyes. INTRALASE has also made the treatment of many patients, who were not accepted for laser vision correction due to thin corneas.