

AND NOW THE BRILLIANT NEW

ACURAC © Vision Treatment

*Aberrometrically Guided, Corneal
Topography Waveform
Computed, Artificial Intelligence
based, Contoured Vision, Surgery*



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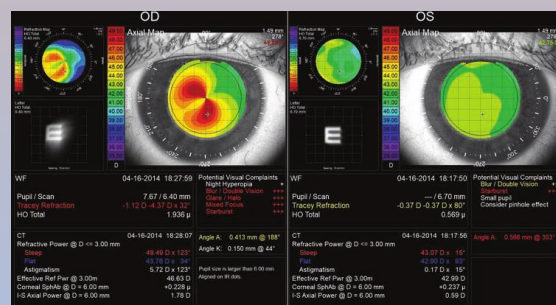
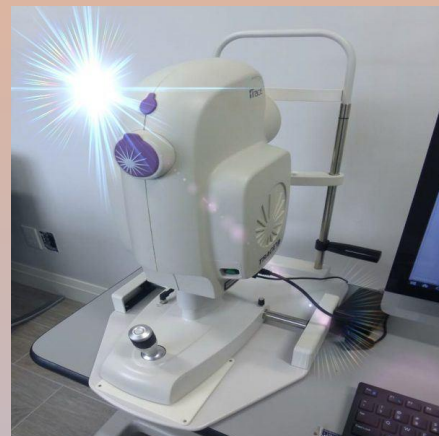
What Is The Difference Between *ACURAC* © Surgery And Regular Lasik Surgery?

- Advanced Newer Technology : *ACURAC*© utilizes an aberrometer to analyze the cornea, selects the best wave forms based on corneal topography and, using artificial intelligence, computes a perfectly contoured Lasik procedure.
- It automatically picks up individual irregularities which will affect the final vision and it does so over the entire central 9 mm of the cornea. Original technology would simply transfer the data to the laser, but now using advanced artificial intelligence it in addition, computes the best wave forms, to contour an almost perfect corneal shape to give you excellent vision.
- Results are superior: since the irregularities of the cornea are eliminated the quality of the laser application is smoother and using the SoftSurf technology of the Schwind laser gives a far better result
- Peripheral vision is more superior. Customarily most of the aberrations lie on the periphery of the cornea which affects side vision. Acurac vision technique eliminated these abnormalities resulting in sharper, better side vision



How is the procedure termed *ACURAC* © carried out

- *ACURAC* is an acronym for Aberrometrically Guided, Corneal Topography Waveform Computed, Artificial Intelligence based Contoured Vision surgery.
- The technique utilized is quite different from standard lasik laser. Where standard lasik laser only measures the curvatures of their cornea, termed topography and the central corneal thickness, the ACURAC method in addition, maps out the surface of the cornea using an iTrace aberrometer to map out 314,000 points on the cornea. These are then, analyzed using artificial intelligence to correct and stabilize the cornea to give a perfect symmetrical, balanced vision.
- This data is then Analysed using artificial intelligence, appropriate corneal wavefront analysis done and then fed to the Schwind Excimer Laser which then applies it onto the cornea.
- The result is that you get excellent vision especially in the periphery of the cornea which give sharp clear vision.



What Post Lasik *ACURAC* © patients need to observe.

- The procedure is completely painless. After simple application of numbing (aesthetic) eye drops, A corneal flap is made using using a Femto laser, (bladeless surgery).
- The Visumax Femto laser generates the flap in virtually 8 seconds, and is totally painless.
- A Femto flap is better than a simple blade based flap as the flap thickness is symmetrical in thickness all through and is stronger and more stable and heals faster.
- The computer application takes only 5-10 seconds in a majority of cases. Following the procedure antibiotic drops are applied and a very thin bandage contact lens is applied on the surface for 24-48 hours. This bandage lens, supports the flap, prevents dust and dirt entering and keeps the area sterile.
- Subsequently lubricating drops are to be used a a few months to keep the cornea smooth and the eye comfortable.



Which cases are not suitable for the *ACURAC* © Vision Surgery

- You required multiples change in your contact lens or glasses prescription in the past year.

This is called refractive instability. Patients who are:

- In their early 18s or younger,
- Whose hormones are fluctuating due to disease such as diabetes,
- Who are pregnant or breastfeeding.
- You have a disease or are on medications that may affect wound healing
- Intraocular pressure is high and not well controlled at all times.
- Keratoconus distortions on the cornea a need a special line of treatment to stabilize the corneas which are often very thin termed as C3R procedures.



Mehta International Eye Institute

Knowing Prof. Dr. Keiki R. Mehta



Prof. Keiki Mehta receives the Grand Honors award from the ASCRS in Boston at the hands of the President Prof. Eric Donnenfield



Prof. Keiki Mehta presented the Prestigious Antonio Scarpa Medal in Italy.



Prof. Keiki Mehta receives Leading International Ophthalmological Award from Swiss Eye Research Foundation Award

- The American Implant Society awarded him its Appreciation Award, at San Francisco for pioneering Soft Intraocular implants for the first time in the world. He has received Grand Honors Award from the National Eye Research Foundation, Chicago, USA, the only Indian to be ever awarded. Presented the prestigious Lim International Award from the Asia Pacific Intraocular Implant Association for outstanding work in Ophthalmology in the Asia Pacific Region, the only India to be presented this award. Awarded the Triple Ribbon Award of the American Society for Cataract and Refractive Surgery, USA, for Outstanding Research presentations in Ophthalmology. Presented the Outstanding Recognition Award by International Council of Cataract Surgeons for Outstanding Research & Development in Cataract Surgery, award presented at Barcelona, Spain. Presented advanced research papers on Lasik Internationally and won the Outstanding Presentation Award at San Diego, USA
- He is the winner of 11 Gold Medals in India, having received virtually all the Honors possible, has been the President of the All India Ophthalmologists Association and President of the Intraocular Implant and Refractive Society among many others. Chairman and Organizing Secretary of the very successful Eye Advance Congresses for the last 25 years 1996- 2022 These have now reached an iconic status and are recognized worldwide.
- He is Honorary Visiting Professor at ONO Eye Hospital in Geneva, Switzerland and St. Luke's Institute, Texas, USA
- He is the Consultant Ophthalmic Surgeon to the Governor of Maharashtra, to the Armed Forces, Government of India and to the Maharashtra Police.



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