

# Preparing for LASIK:

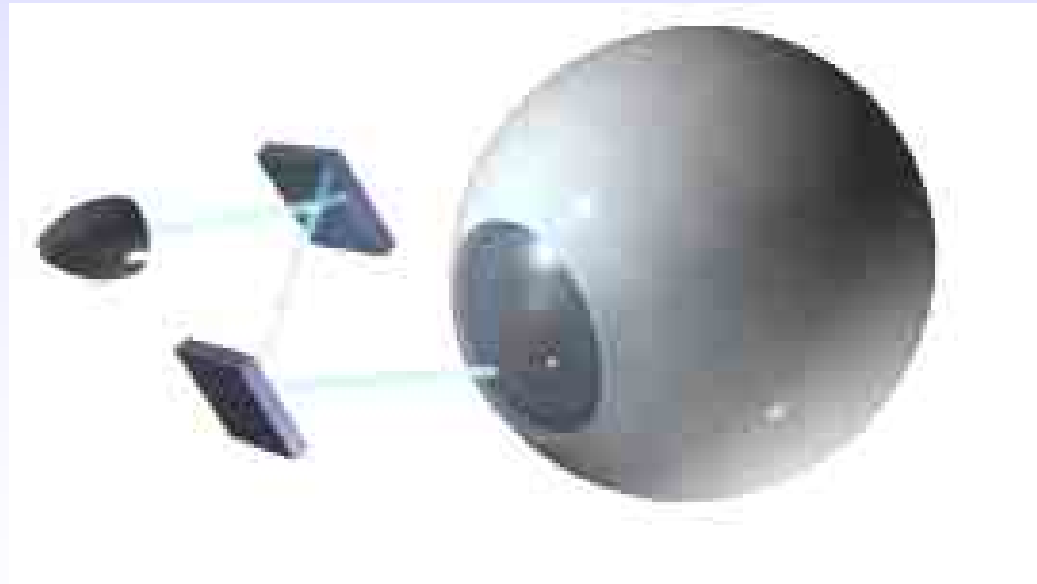
Basic steps for  
*informed consent*  
*and refractive error,*  
*cornea, systemic*  
*and wavefront*  
*measurements*  
for safer and better  
results

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[www.brilliantvision.com](http://www.brilliantvision.com)

# LASIK

- Laser In Situ Keratomileusis
- Reshapes the part of the eye known as the cornea, to possibly reduce or eliminate the need for glasses or contact lenses in cases of myopia, hyperopia, and astigmatism
- Benefits, limitations, risks
- Educational Material
  - Brochures
  - Articles
  - Videos



- has been practiced in S.America and Europe for over 15 years

# PreOp Care

- Reason & expectations
- Screening Examinations
- Patient selection
- Informed consent & psychological support



# Expectations

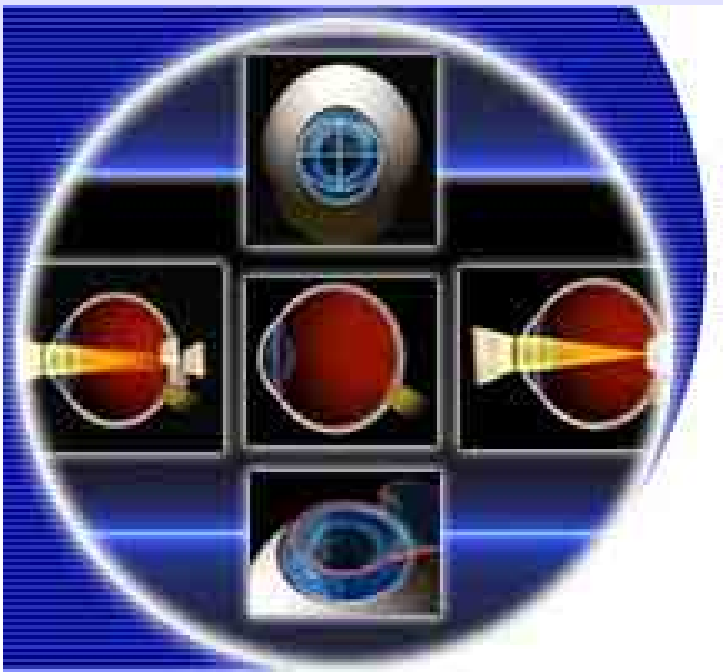
- Certain correction of 10/10 vision ?
- No risks, no limitations ?
- LASIK will not treat any ocular disease !!!



# Reasons

- Get rid of glasses
- Get rid of contacts
- Sports
- Hobbies
- Aesthetic reasons

# Complete Eye Examination



- Full medical history
  - Presbyopia – monovision
  - Contact Lenses
- Refractive error measurements
- Topography- Orbscan
- Pachymetry
- Wavefront
- Endothelial Cell Count
- A –Scan (IOL)

# Pts with contacts

Obligatory termination of use preoperatively  
(to allow cornea to return to its natural contour)

- Soft Contact Lenses : 1 week preOp
- Overnight use : 1-2 weeks preOp
- Rigid Gas-Perm. Lenses : 1-3 months preOp



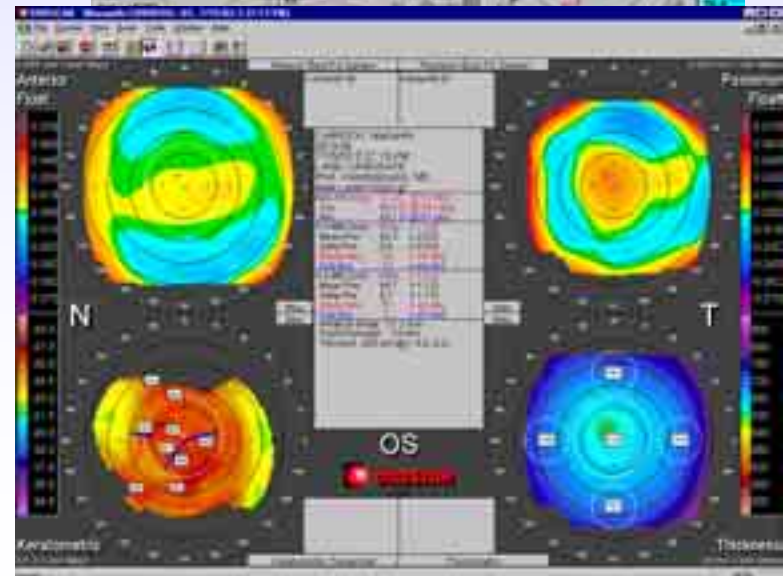
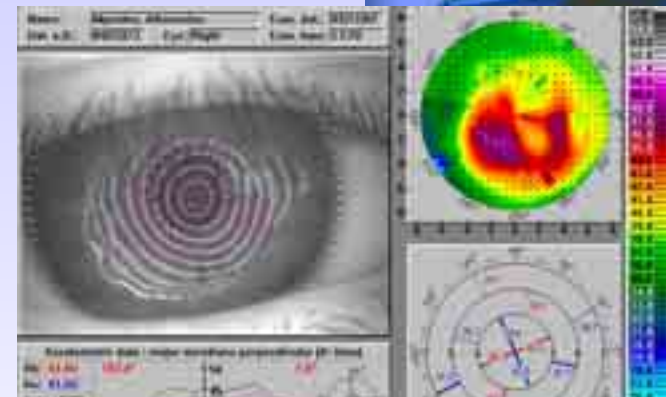
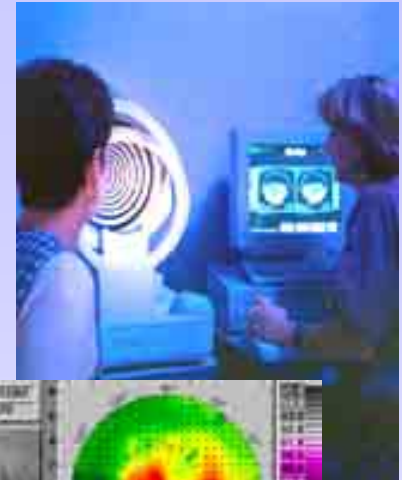
# Corneal Topography- -Orbscan

**Topography** reveals :

- Irregular Astigmatism
- Keratoconus
- Topographical irregularities in CL Pt
- Irregularities due to Dry Eye Disease

**Orbscan** reveals :

- Option of the posterior curvature
- Corneal thickness



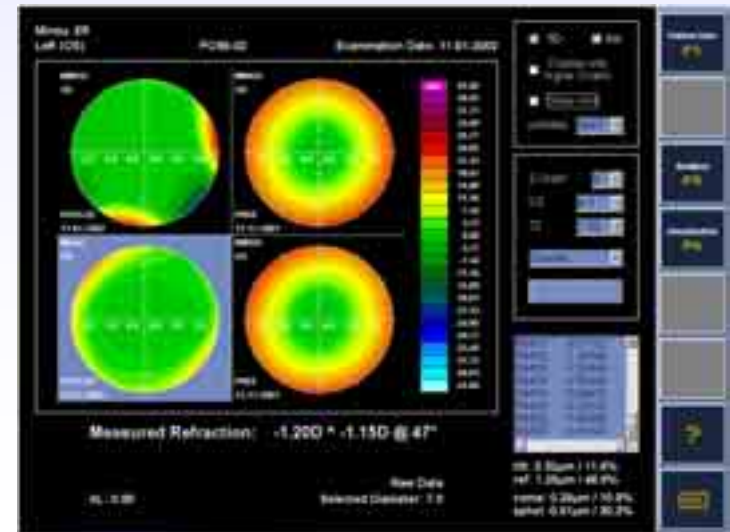
# Refractive Error Measurements

- Patient's existing lenses measured (Glasses, CL)
- VA (CC/SC)
- BCVA
- Soft Contact Lens Test –  
(Monovision, Presbyopia)
- Refraction
- Refraction after Mydriasis (Tropical)
- WaveFront



# Wavefront measurement

- accurate measurements of refractive errors and visual aberrations
- Evaluation of the Eye as an ‘Optical System’
- Scanning of high-order aberrations
- Aims not simply to ‘corrected Vision’, but to Vision  $> 10/10$
- May assist ‘fine-tuning’ of laser eye surgery



More accurate measurements for  
more accurate result

## Wavefront-guided LASIK

- Improved results of refractive surgery
- Minimization of complications of refractive surgery
- Minimization of Hyper and Hypo corrections



# Patient Selection



- over 18 with stable refraction
- aware of alternative forms of non-surgical vision correction
- free of certain eye diseases, eye viruses & health problems (DM, Autoimmune dis., Immunocompr.)
- inform the surgeon: medication in use or any allergies especially in medications
- Pregnancy and nursing = contraindications!

# Informed Consent

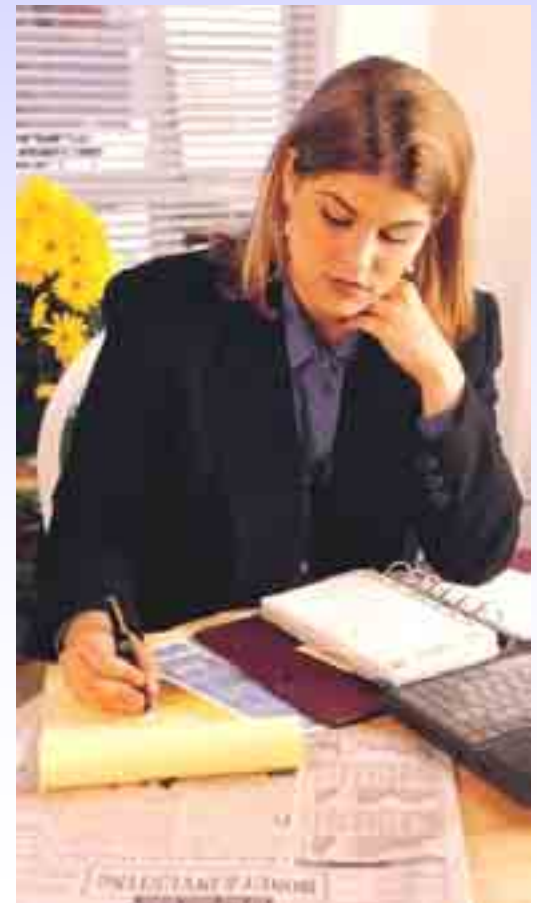
- Patient education and information
- Benefits vs known and unknown Risks
- Patient accepts a certain degree of risk and responsibility during both :
  - The procedure
  - The healing process



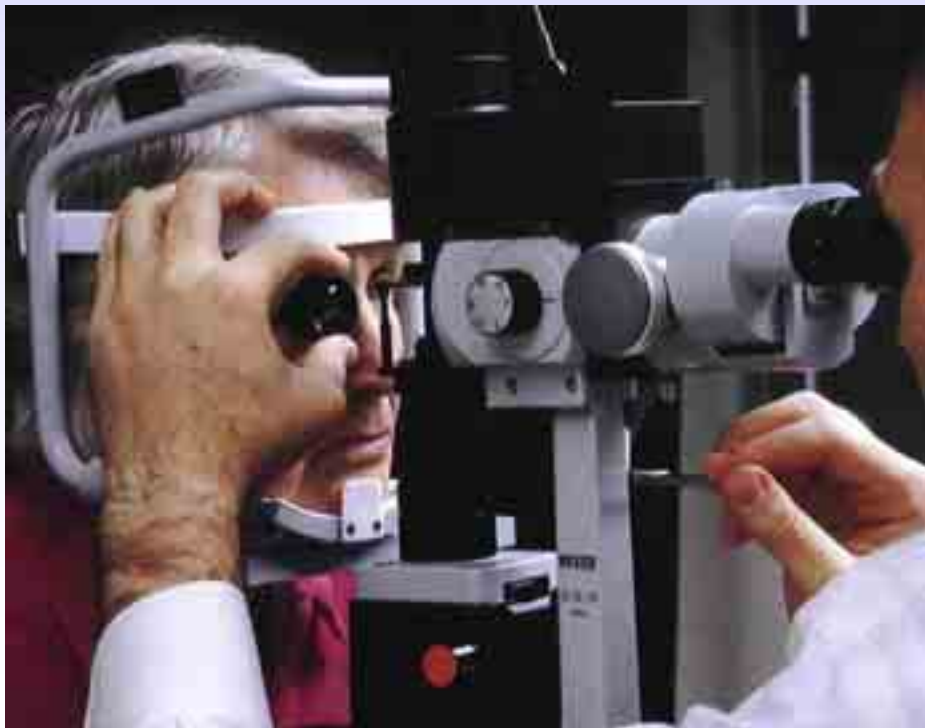


Pt signs under two statements :

- I understand that “there are risks and no guarantees”
- I understand that “ I may still need to wear glasses”



# Post-Op Follow Up



1 <sup>st</sup> day postOp	Flap Check
1 <sup>st</sup> week	Visual Acuity Check
1 <sup>st</sup> month	Assesment of necessity for enhancement procedures
3 <sup>rd</sup> month	If needed, enhancement procedure takes place
6 <sup>th</sup> month	Visual Acuity check
12 <sup>th</sup> month	Final Check

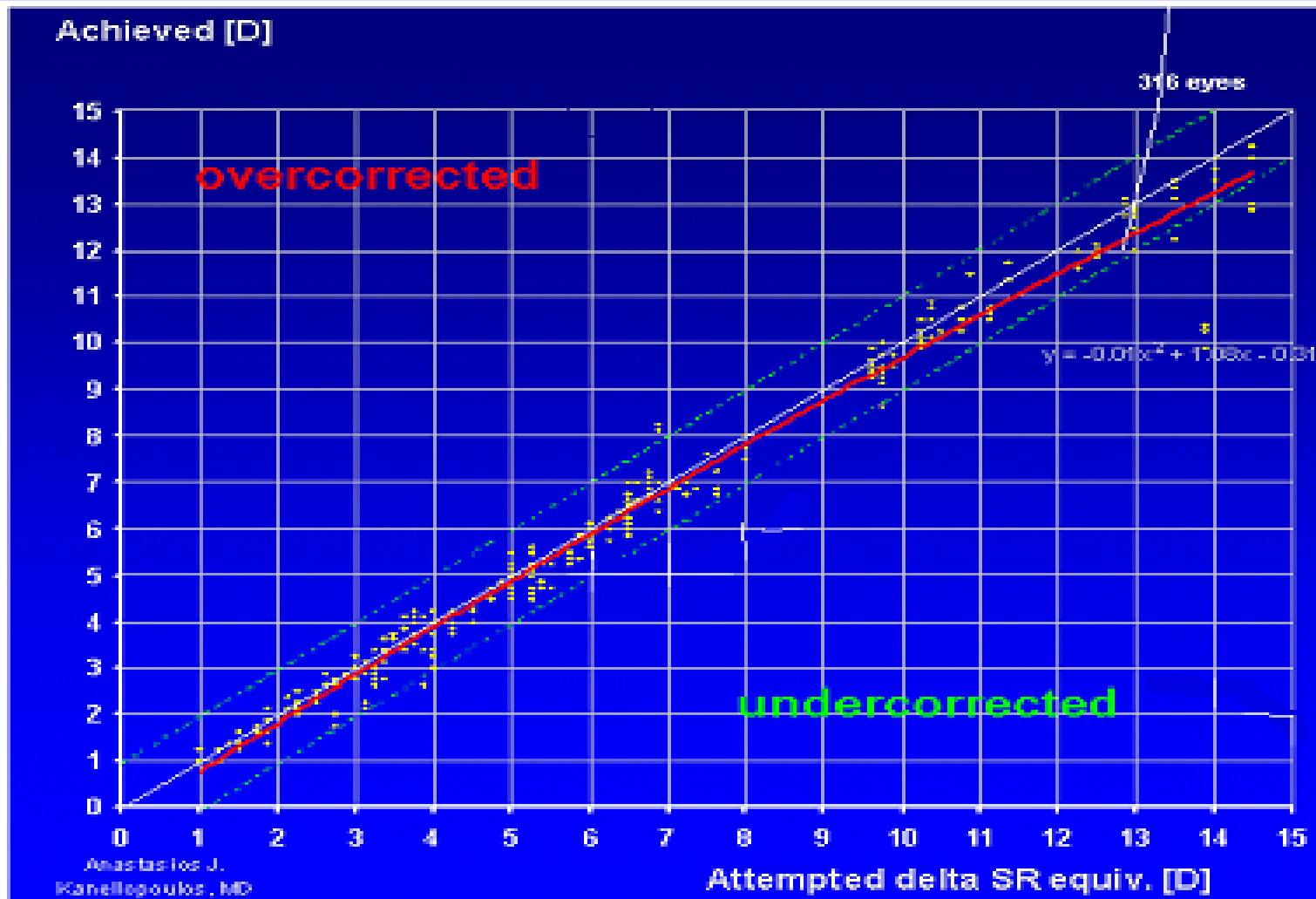
# Our intention is not to frighten...

- Most of pts never encounter any serious complications
- Vast majority is thrilled with the gross improvement in vision
- Intention :
  - to accurately outline the risks to all candidates so that they may either select not to accept these risks or be better prepared to deal with them if they arise.
- LASIK : a purely elective procedure
- You may decide not to have this operation at all.



# Results of our LASIK patients

## LaserVision.gr





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Thank  
you