

Question 1

Is refractive error a disability fully mitigated by glasses or contacts?

Why do our local National Guard members have Lasik just before or after they are posted?









It's easy to see why firemen have LASIK.

Ask policeman why they have LASIK?

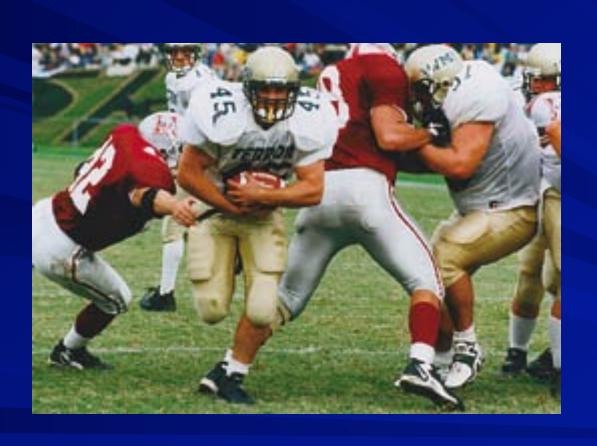




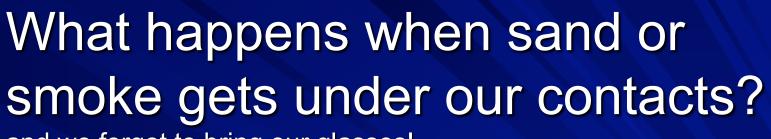
Do glasses give us normal vision?



Do glasses interfere with our play or work?

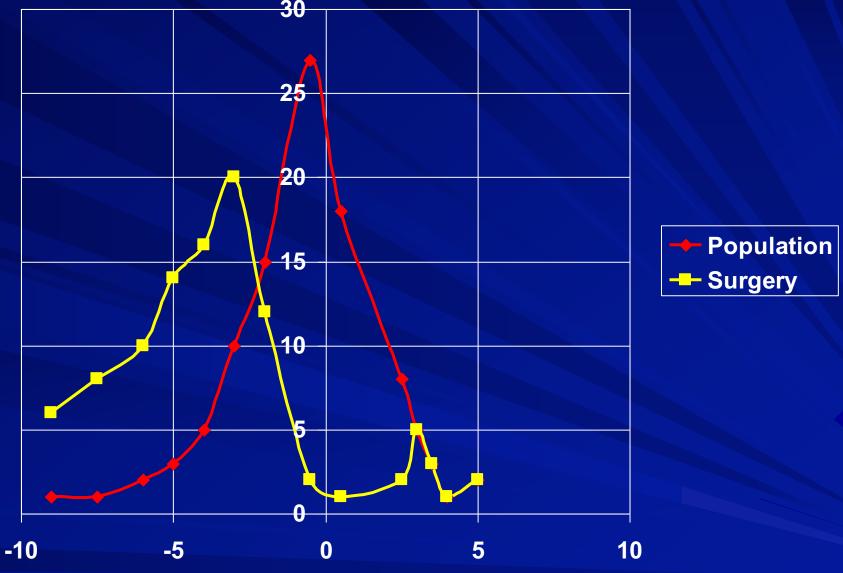






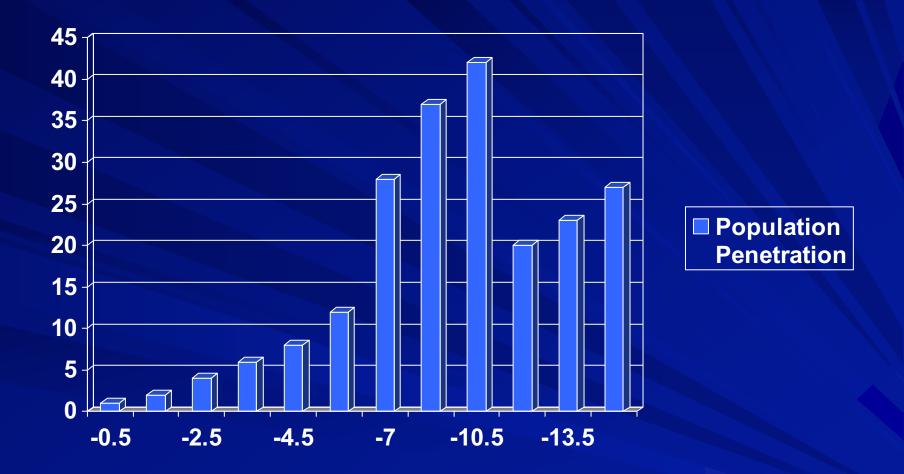
and we forgot to bring our glasses!





Patients with high myopia seek out refractive surgery in numbers disproportionate to their representation in the general population

Figure: Richard L Lindstrom MD



Twelve to 40% of patients with myopia in the higher ranges undergo surgery compared with 5% to 10% of patients with moderate myopia and less than 5% of patients with low myopia

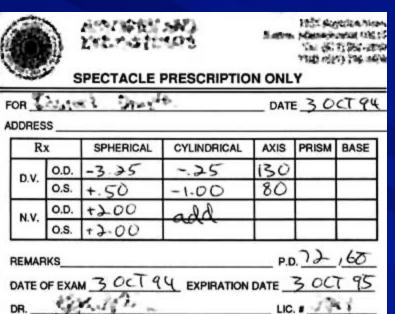
Figure: Richard L Lindstrom MD

Question 2

Given that the intent of the law is to make prescription lens, prescriptions, and prosthetic devices more affordable, is the FDA excimer laser system substantially equivalent?



Measure Prescribe Dispense



LIC. # JA



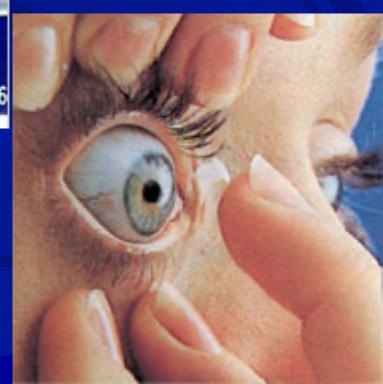
Measure, Prescribe, Dispense

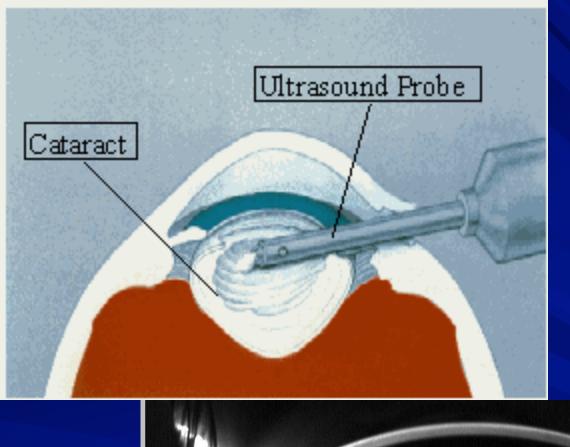


VERTEX TORIC (6) BC DIA PWR

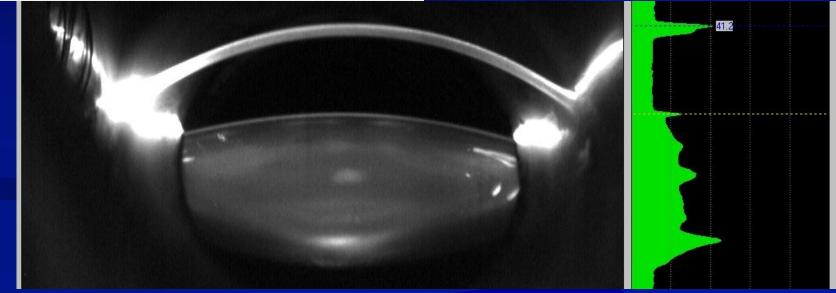
8.6 14.4 -4.00 /-0.75 x 16





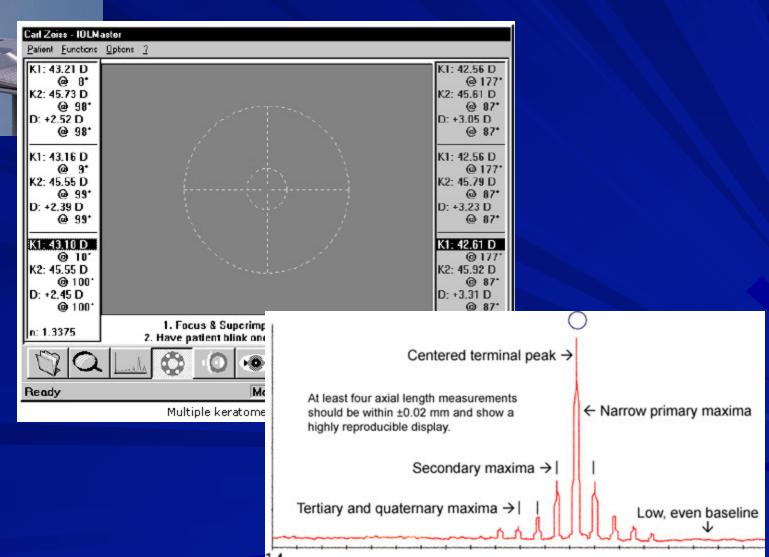


Cataract





Cataract: Measurements For an Intraocular lens



Cataract: Prescription for the Intraocular lens (Hoffer)

Hoffer ProgramsPostop Rx RangeAL 21.52 Short: use HoffQ K1 44.50 K2 43.75 44.2, OK TraRx 0 IOL Alcon IOL SAVE CLR SRK/T A Con 118.00 25.73

Holladay 1 SF 1.22 HofferQ ACD 4.97 26.10 26.34

26.0 (avg = 26.06)

CALCULATE See

RangelOL SRK/T Holl HoffQ

28.0 - 1.73 - 1.42 - 1.23 27.5 -1.34 -1.04 -0.85

27.0 -0.96 -0.67 -0.48

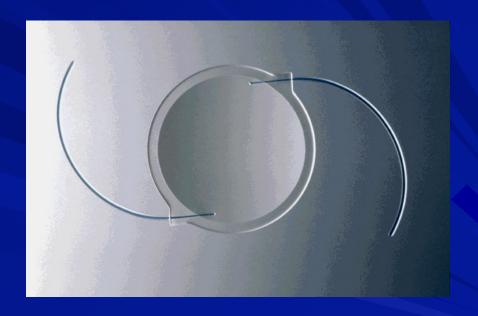
26.5 -0.58 -0.29 -0.11

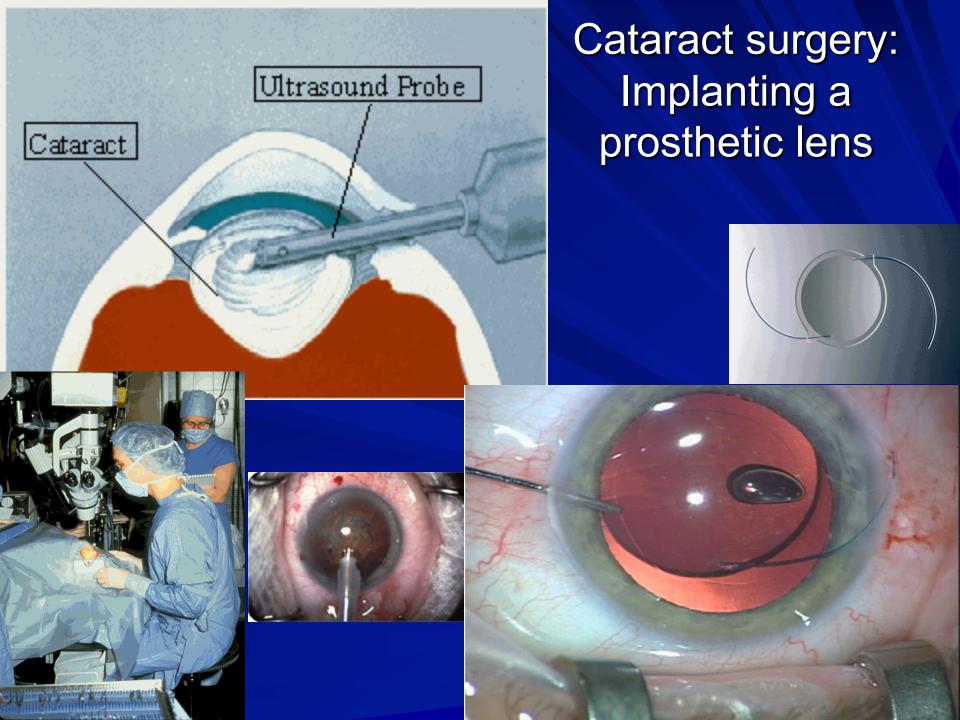
26.0 -0.20 0.08 0.25

25.5 0.17 0.44 0.61

25.0 0.54 0.80 0.97

OKLeft: The main calculation screen using the HofferQ, Holladay 1 and SRK/T formulas. Right: This screen shows refractive results of different IOL powers.





Lasik: Measure



Lasik Prescription

OS +1.12 DS -0.87 DC x 99° @12.5 mm (4.0 Rx Calc)

-02-Sep-2005 12:26:43 W.F. Diam (mm): 6.25

Eff. Blur (D): 1.04

Rms Err.(µ): 1.47

Quality: VVVV

High Order: 11.7 %

Manifest: +0.69 DS -0.38 DC x 86° @ 12.50 mm

Cycloplegic:

Auto:

Treatment Type: LASIK

Auto+Cyclo:

K1 (D): 43.60 K2 (D): 44.23 K2 Axis(°): 109

Corneal Thickness (µ): 474

Scotopic Pupil Size (mm): 6.00

Correction Type: CustomVue

Nomogram Change: +0%

Physician Adjustments - SPH (D): +0.00 CYL (D): +0.00 Axis(°):

VTX(mm): 0.00

Total Correction - SPH (D): +1.14 CYL (D): -0.89 Axis(°): 99

VTX(mm): 0.00

Treatment Parameters

Optical Zone (mm): 6.00

Ablation Zone (mm) 9.00

Max. Ablation Depth (μ): 14.7

No. of Tissue Pulses: 245

Treatment Time (sec): 12

_____ Surgical Parameters __

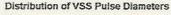
Flap Diameter (mm): 9.50

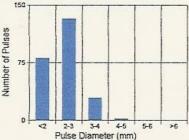
Flap Thickness (µ): 140

Residual Bed Depth (µ): 319

___ Additional Information ____

The Manifest and WaveScan refractions do not match

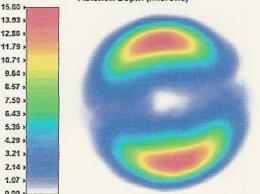




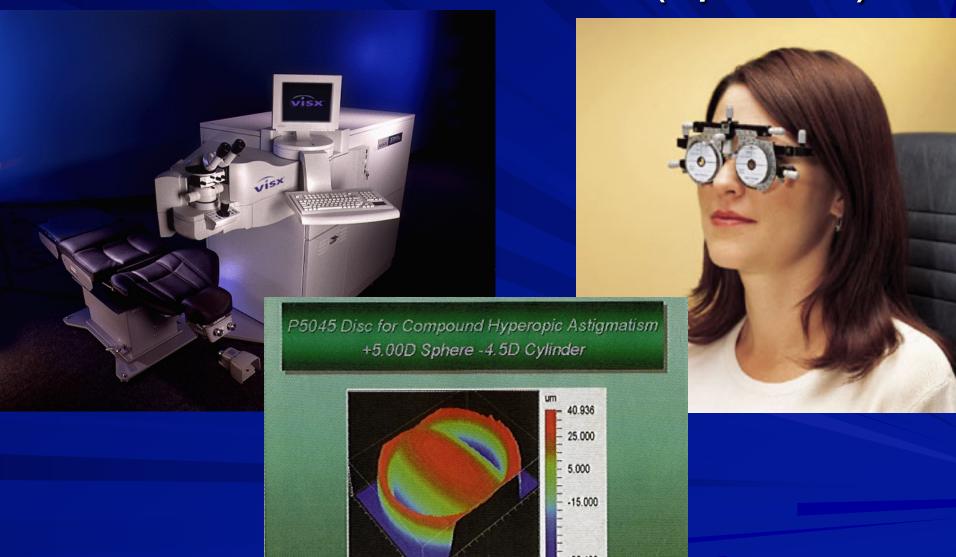
(GM

Ablation Depth (microns)

Limbus Diam: 12.8 mm Pupil: 8.1 x 8.0 mm @93° (avg 8.0)



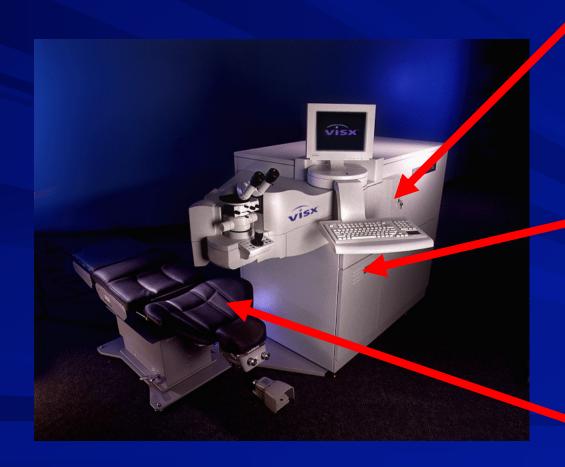
Lasik: Make Trial Lens (optional)



Laser calibration: Standard lens that are verified with a lensometer to assure that the laser is working properly, prior to any patient treatment



Lasik: Preparing for surgery



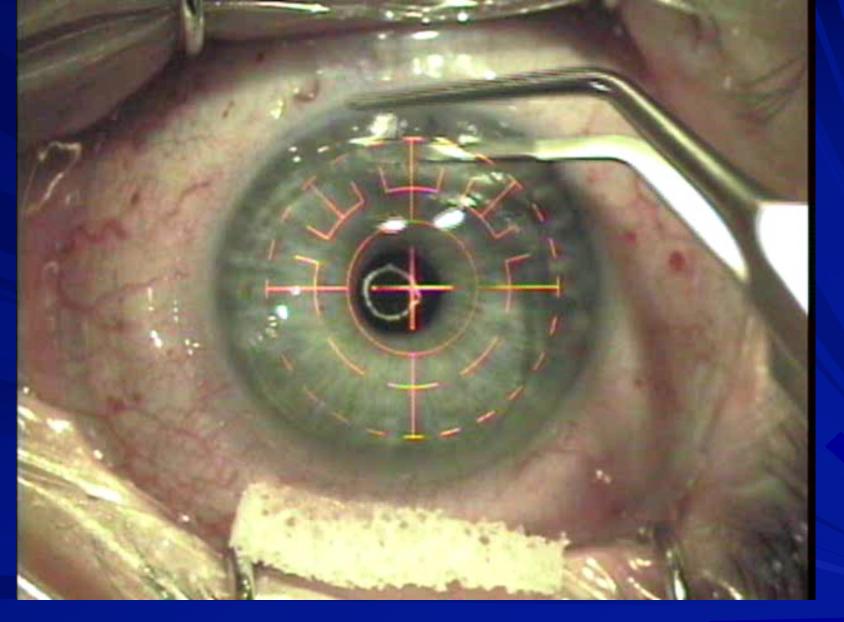
1.Enter
VisionKey
Card

2. Enter prescription

3. Location
Photons Will
Be Delivered

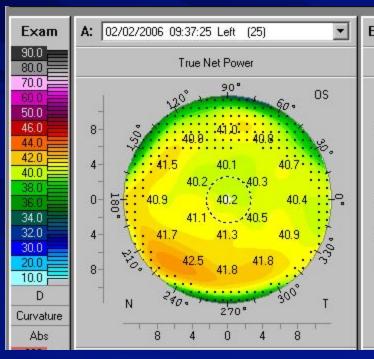
Lasik: Direct the photons into the

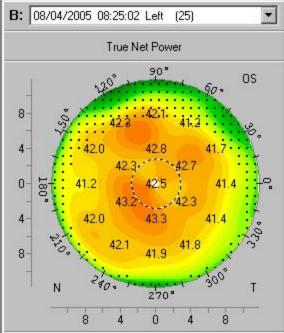


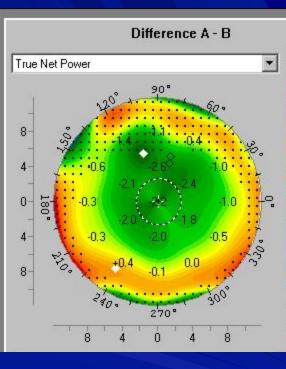


Surgeon supervises/directs the delivery of the prescription lens prosthetic device (photons) into the eye

Pre-op minus Post-op= Lasik lens



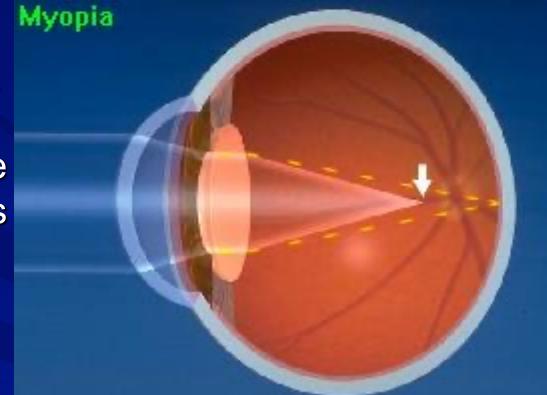


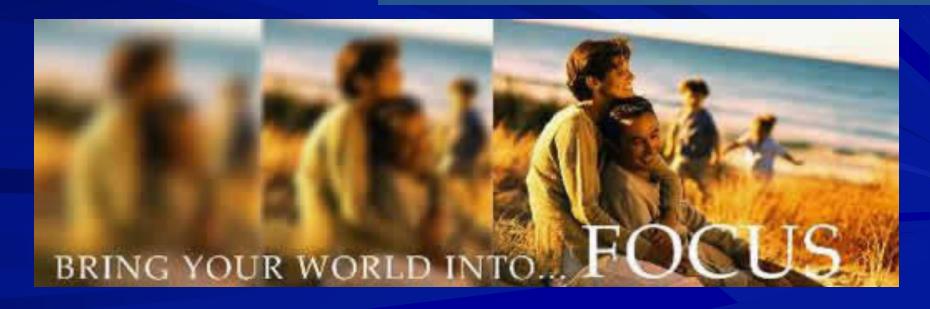


FDA Excimer Laser System

- FDA "Prescription" Device
- Corrects refractive error: "a lens"
- A "Prosthetic Device" that dispenses ultraviolet photons into the cornea to reshape or wear (by photodegradation) the deformed eye into the correct shape

Lasik uses ultraviolet photodegradation (wear) to reshape the eye and bring objects into focus





FDA Excimer Laser System Regulations (Prescription Device)

- The manufacturer has control of the device
 - The Manufacturer controls the VisionKey card which activates the device
 - The manufacturer delivers the requested prescription to the surgeon, when the surgeon requests the delivery, into an agreed location (focal plane)
 - The surgeon is prohibited by the FDA from "opening" the device
- The physician can
 - Writes the prescription for the treatment
 - On the patient's behalf, pays the device manufacturer on a per treatment basis
 - Dispenses the treatment into the proper location in the eye
- The patient
 - is the consumer of the prescription device (photons)

CONCLUSION

■ The assessed charge is a payment to an FDA approved service provider for Dispensing a proton Prescription, which is Consumed in the patient's eye.