



# **DEL NEGRO & SENFT**

## **EYE ASSOCIATES**

NEPTUNE      RED BANK      BRICK

# **CATARACTS**

# Vision and Aging

Driving (source of independence)

Reading



**MORE THAN 28 MILLION AMERICANS OVER THE AGE OF 40 HAVE EYE ABNORMALITIES THAT PUT THEM AT RISK FOR VISION LOSS OR BLINDNESS**

# MYTHS ABOUT VISION AND AGING

- "Although eyeglasses make you see better, they cause vision to get worse over time. Eyeglasses will need to be constantly changed with higher powered one."
- "Don't wear your glasses so often, you need to exercise your eyes!"
- "Over the counter reading glasses hurt the eye"

# **Common Myths About Vision You May Have Heard.....**

“Overuse Of The Eyes Will Make Them Weaker”

“Sitting Too Close To The TV Will Damage Your Eyes”

“Reading In The Dark Will Damage Your Eyes”

“Eye Exercises Can Improve Your Vision”

# Cataracts

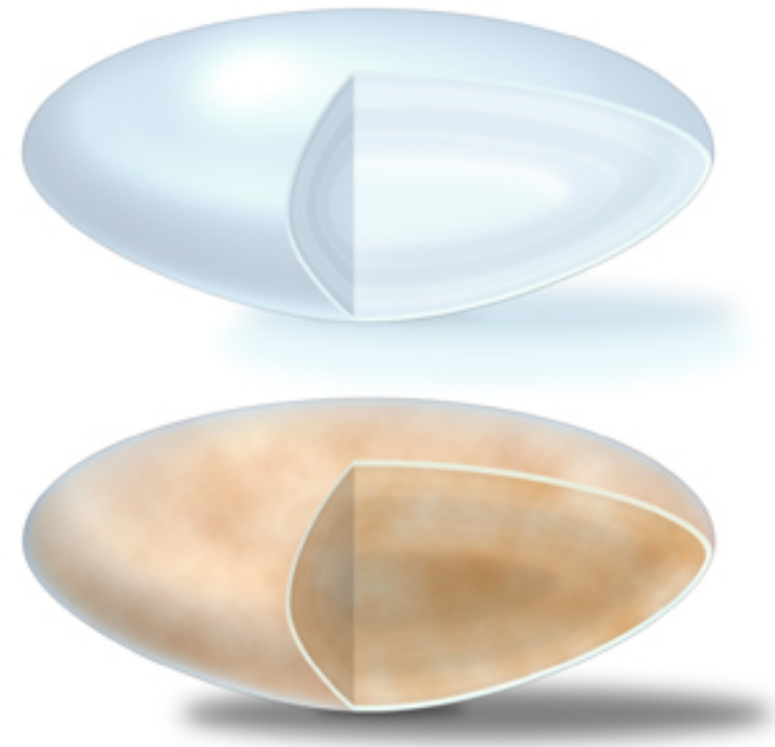
- Very Common After Age 60
- Leading Cause Of Blindness Worldwide
- 24.4 Million Americans age 40 and older have have Cataracts

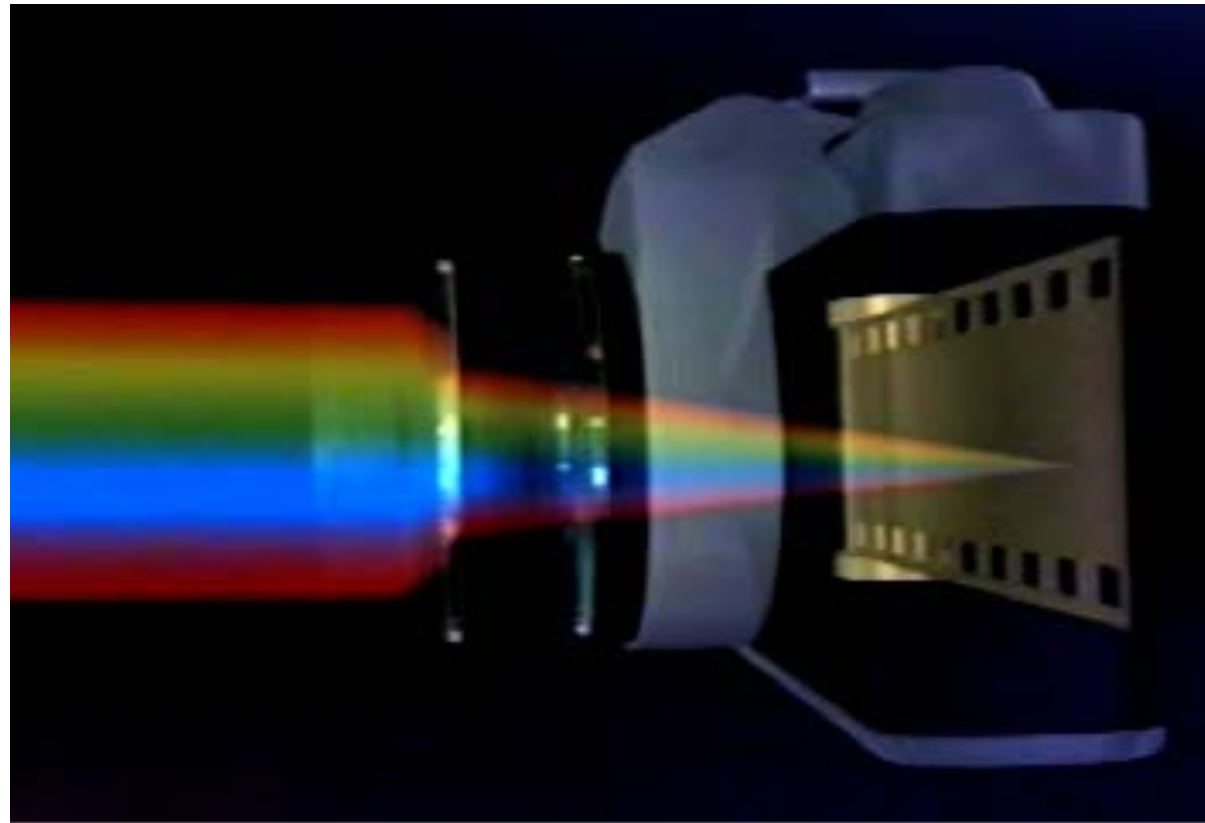
# Myths About Cataracts?

- "Vision improves in older people as they gain second sight"
- "A cataract is a new growth inside the eye"
- "Cataract has to become 'ripe' before it can be removed"

# What Is A Cataract?

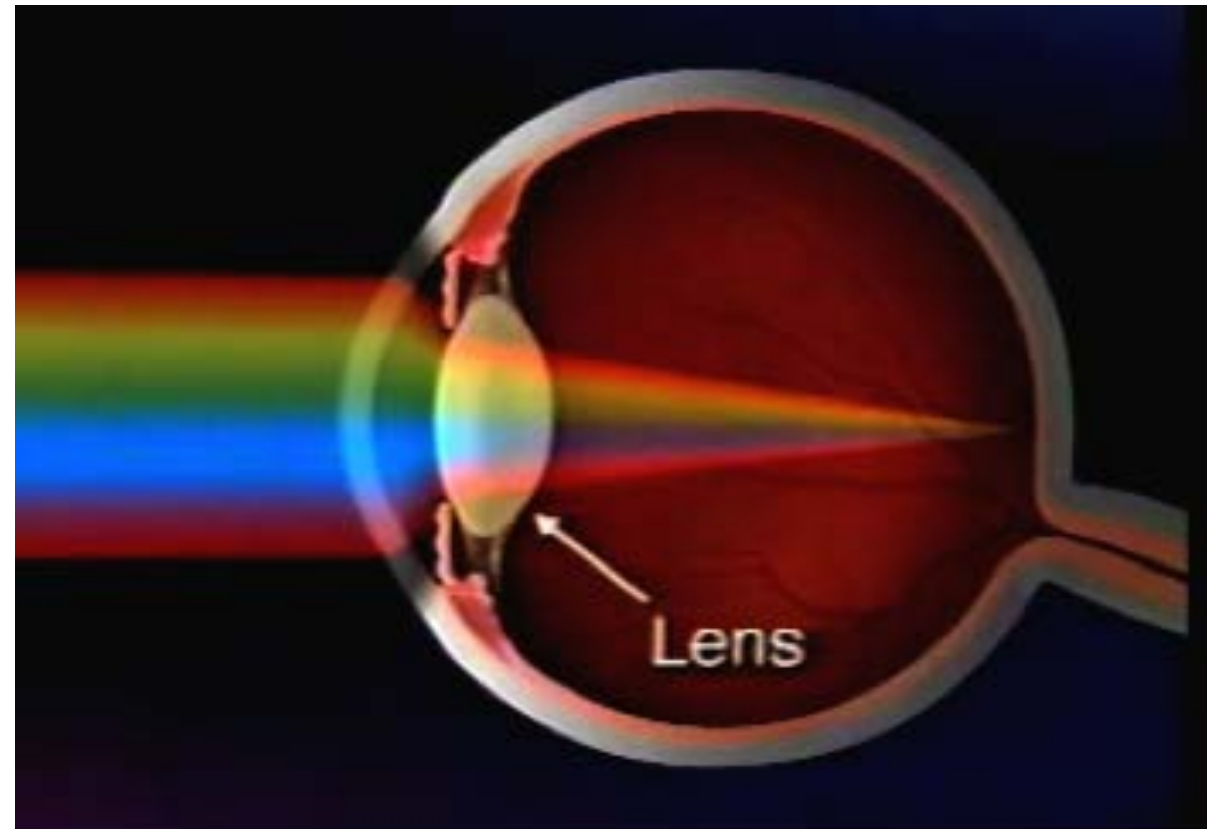
- Clouding Of Natural Lens
- #1 Cause = Aging
- Other Causes - Medication, Trauma, Diabetes, Congenital



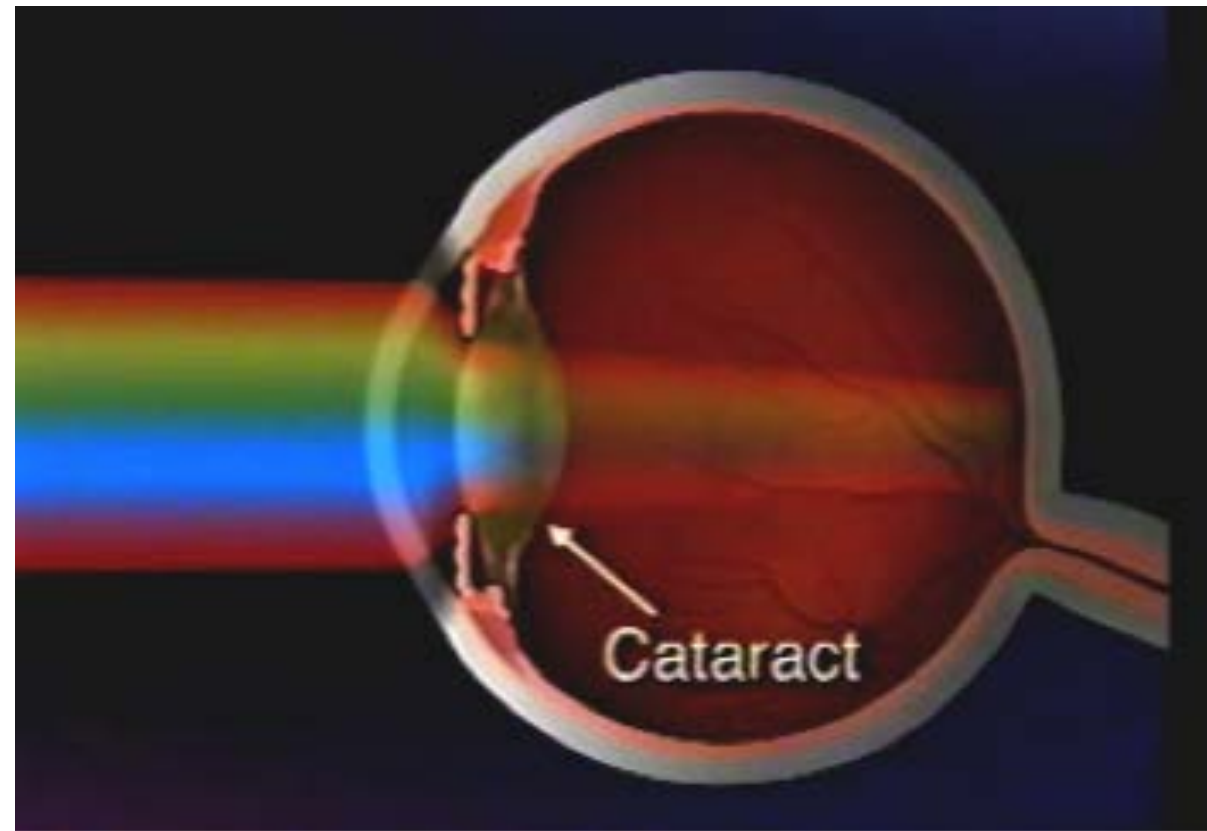


- The Eye Works Like a Camera



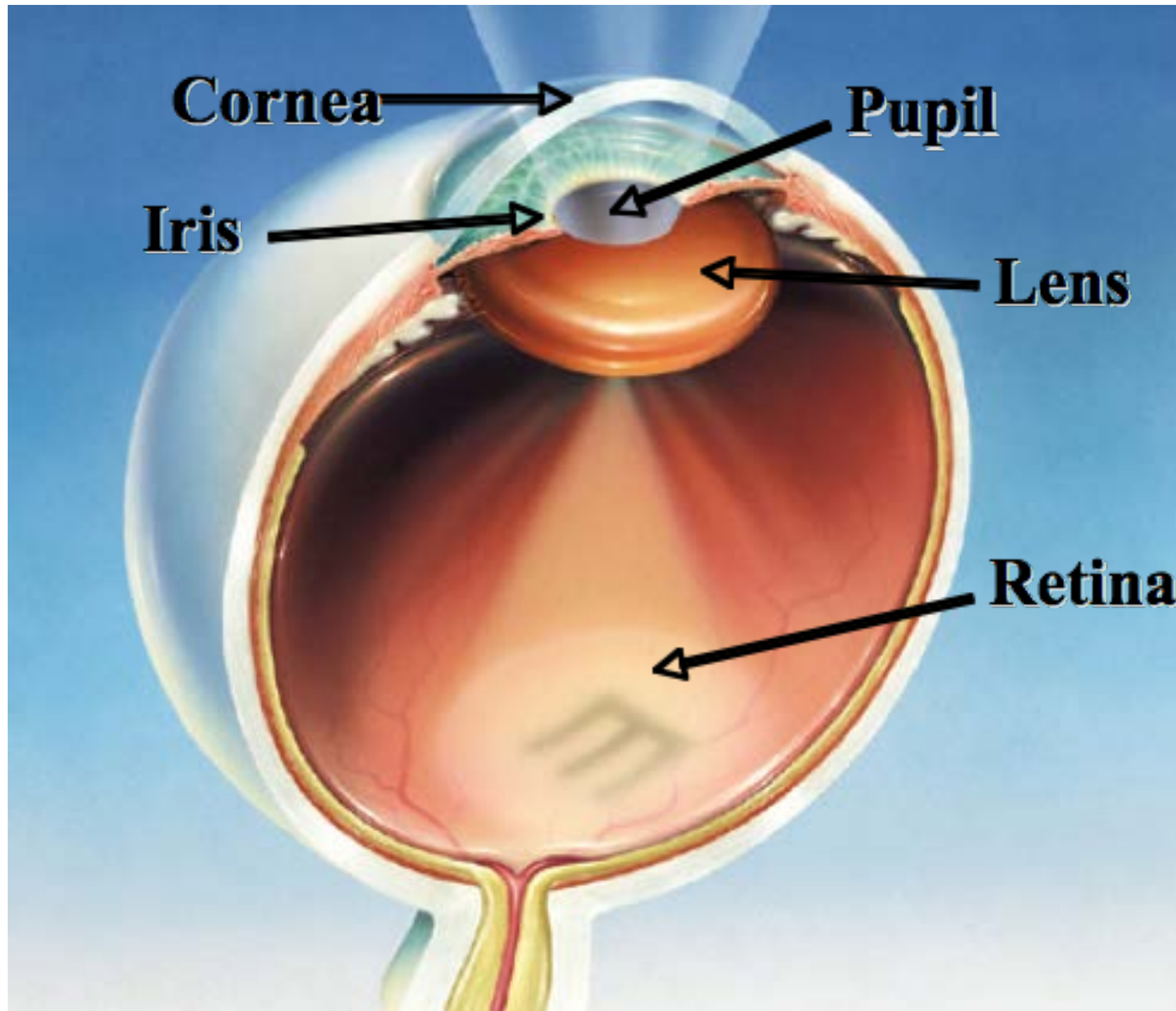


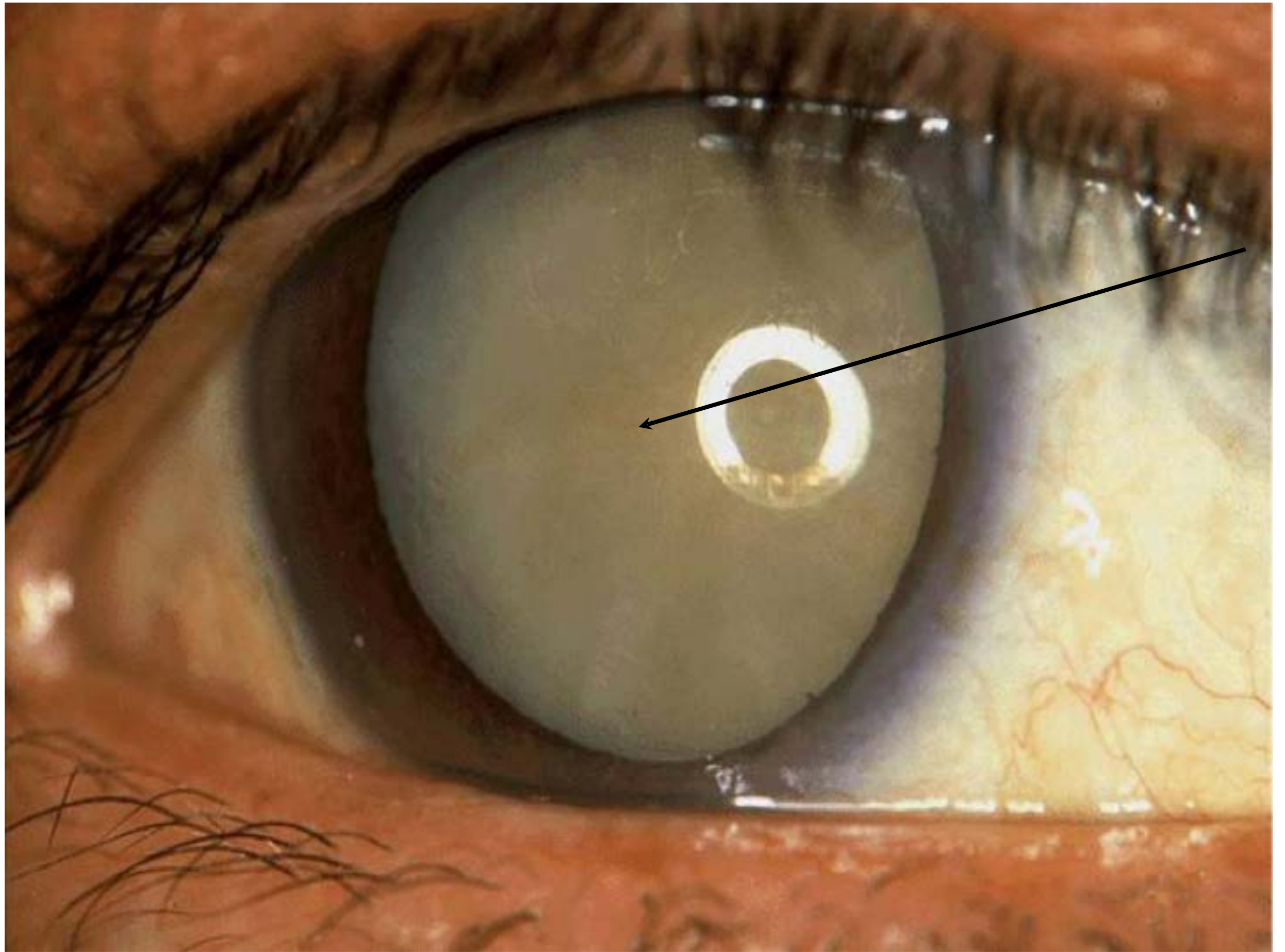
- Normal Human Lens Focuses Light Clearly On The Retina



- Cloudy Lens (Cataract) Keeps Light From Focusing Clearly On The Retina

# THE HUMAN EYE





# Cataract Symptoms

- Blurred Vision
- Glare
- Change In Color Vision
- Halos
- Double Vision
- Eyeglass Prescription Change



# **VIEW THROUGH A CATARACT**



**View Through  
Clear Lens**



**Clouded View  
Through Cataract**

# Cataract Treatment Options

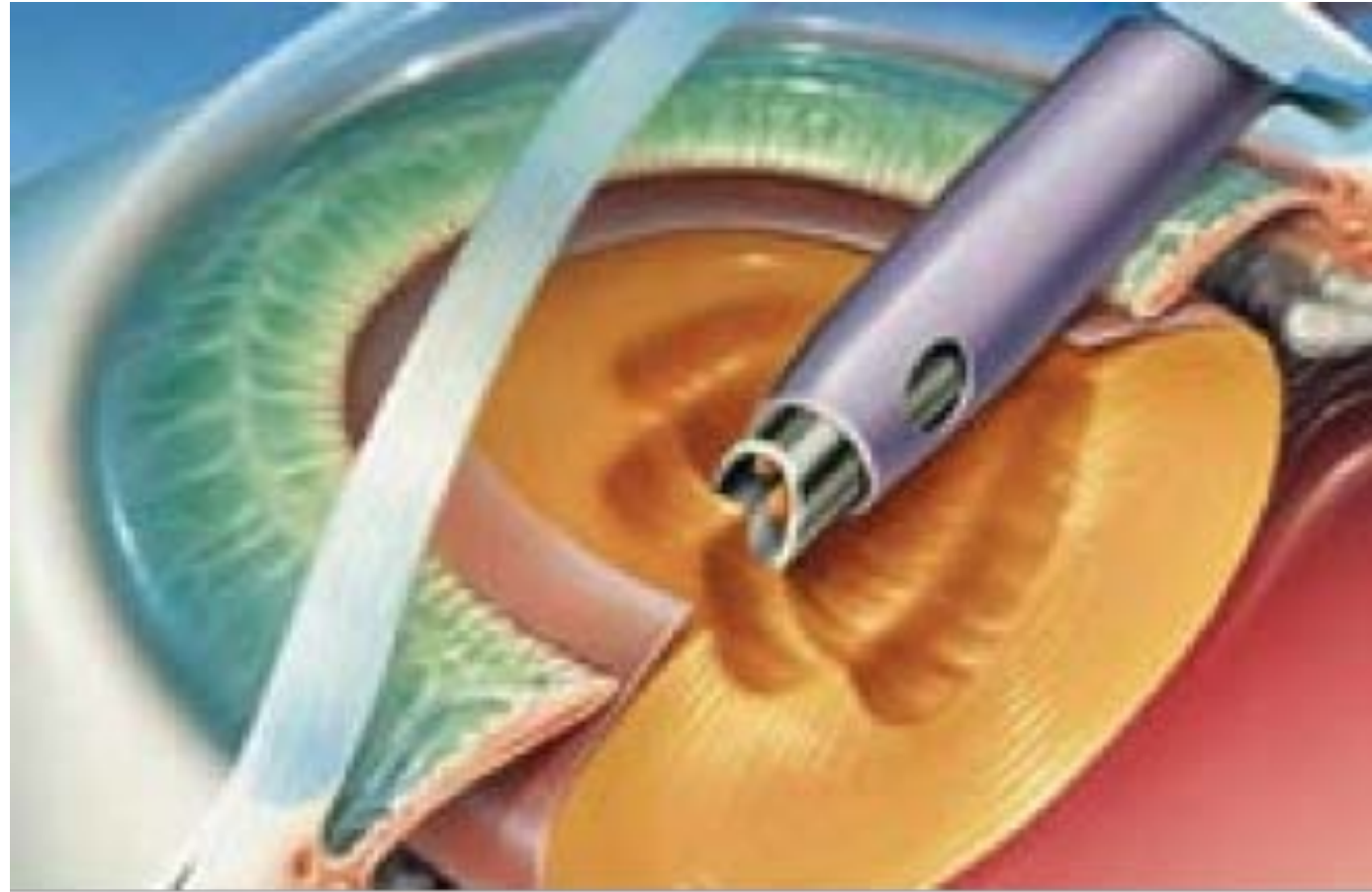
- Continued Observation
- Prescribe Stronger Glasses
- Cataract Removal With Intraocular Implant (IOL)



# Traditional Cataract Surgery

- Phacoemulsification - Gold Standard
- Small Incision
- Topical Anesthesia
- No Patch
- No Stitches
- Faster Recovery



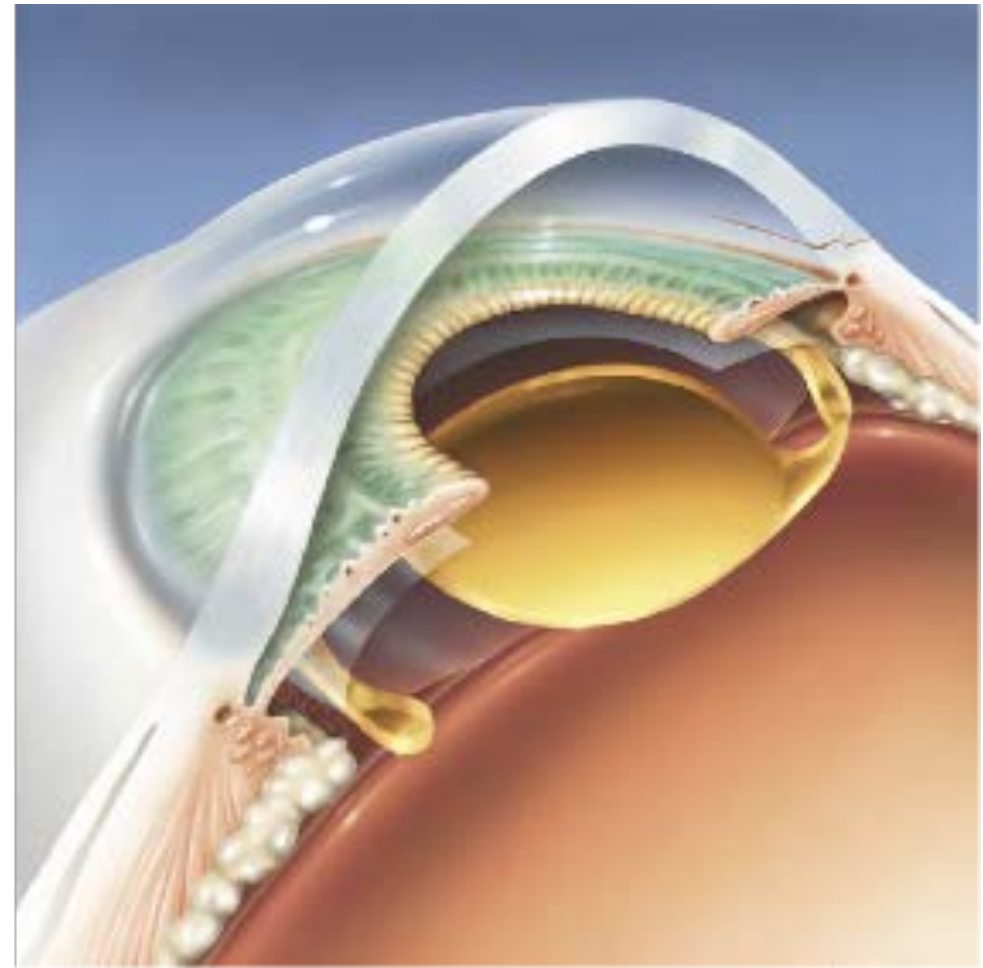
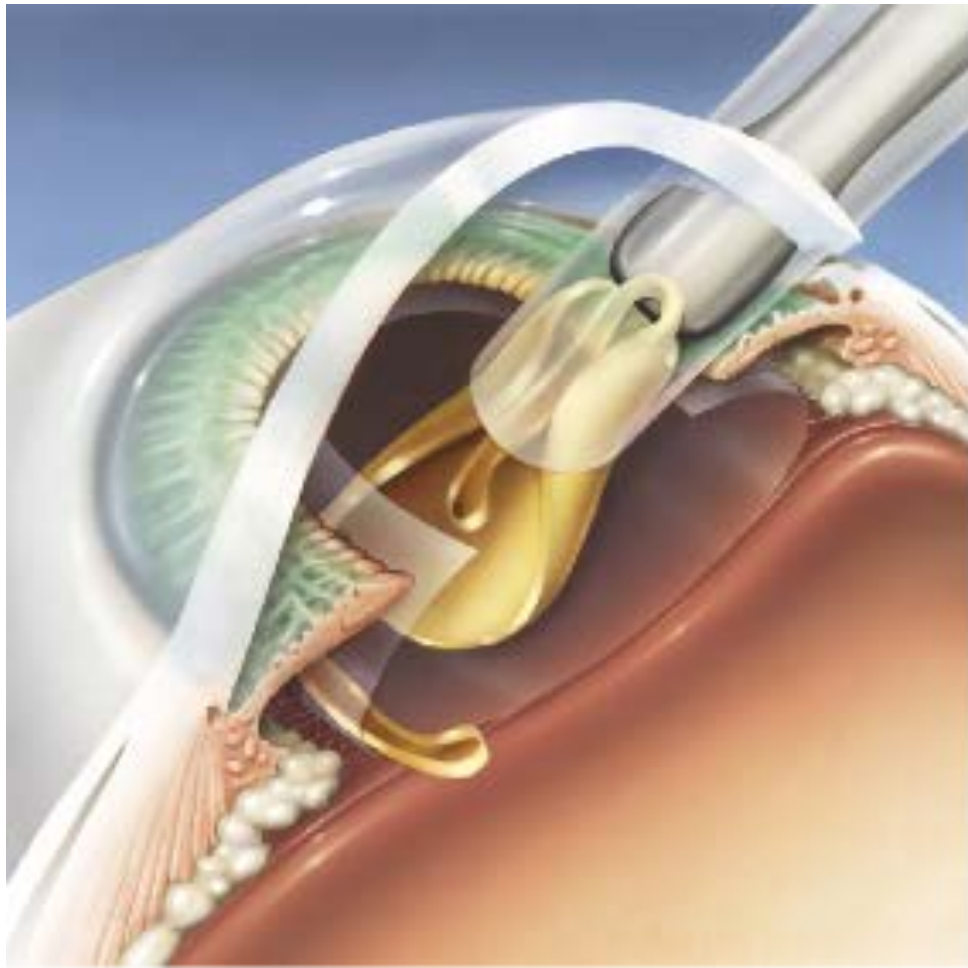


- Through the incision, the surgeon inserts an instrument, about the size of a pen tip, to break up and gently remove the cloudy lens.

# Implantable Intraocular Lenses (IOL)

- Introduced in 1949
- Many Shapes and Sizes
- Foldable Lenses Inserted Through Small Incisions (AcrySof)
- Over 21 Million Since 1994
- Excellent Results and High Level of Patient Satisfaction





- Insertion of Foldable Intraocular Lens Through Small Incision

# LASER CUSTOM CATARACT SURGERY

The **LenSx** laser is a femtosecond laser that gives Drs. Del Negro, Senft and Glatman computer controlled precision, allowing more accurate performance of some of the key steps of cataract surgery.



# ***The Alcon LenSx® Laser***



# Laser Custom Cataract Surgery



A “brunsescent” or, advanced cataract,  
removed from a patient in Africa









# CATARACT SURGERY

Total surgery time is typically less than 15 minutes.

You can go home the very same day.



# MONOFOCAL IOLs



Standard Option of Improving Vision

Quality Distance Vision

Reading Glasses or Bifocals Required for Near Vision

Many new advances in cataract surgery have been made over the past few years:

Wavefront IOLs

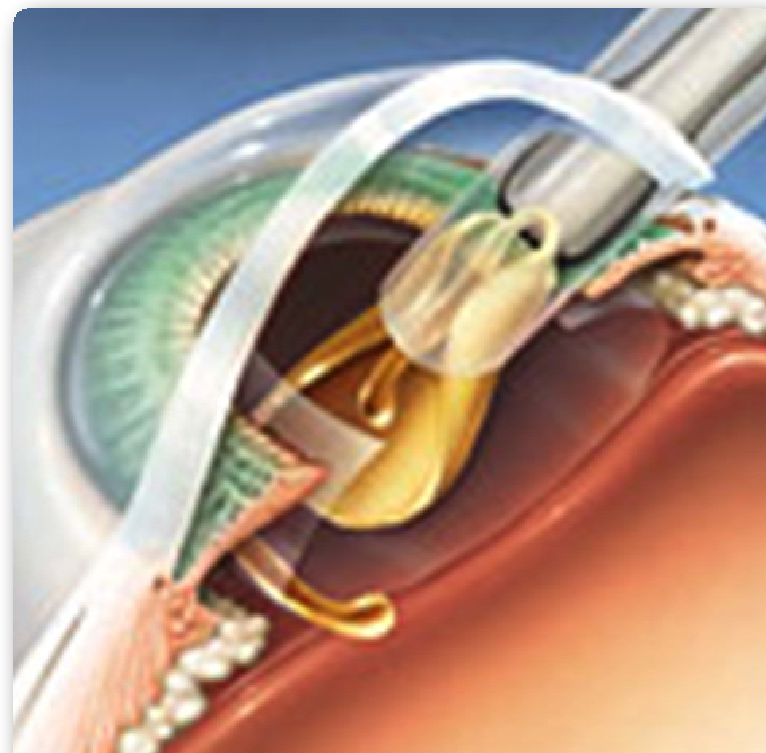
Filtered IOLs ( Blue Blocker)

Toric IOLs

Presbyopia-Correcting IOLs

Presbyopia-Correcting IOLs with astigmatism correction

Laser Custom Cataract Surgery



# AcrySof Natural Lens

Approximates natural filtration properties of healthy human lens

Provides excellent quality of vision and restores vibrancy of colors

Transparent yellow - the color necessary to filter blue light



# **MULTIFOCAL IOL**

## **AN OPPORTUNITY FOR VISUAL FREEDOM**

Addresses Cataract Patient With Or  
Without Presbyopia

Allows Patients A High Level  
Of Freedom From Glasses In  
Clinical Trials

Nearly 94% of Patients Who Had the  
Acrysof Lens Said they Would Do So  
Again





**Tecnis  
Multifocal  
Lens**



# PRESBYOPIA-CORRECTING LENSES



Provide a Full Range of Vision  
Decreases Dependency on Glasses

# Toric IOL

Intraocular IOL specifically designed to neutralize patient's astigmatism

New generation of premium IOL with axis marker on the IOL

Blue blocker filter (yellow lens)





# Toric Lens



Surgeon & Patient Information		Lens Recommendation	
Surgeon Name	Carl J. Senft, MD	<h1>OD (Right)</h1> <p>IOL: SN6AT5 22.5D SE, Cy:3.00D @ 100°            Flat K:44.50D @ 10° Steep K:46.75D @ 100°            P-IOL:22.5D SIA:0.00D IL:190° [V3.1.0]            29b8a5baa6deca95180c7c48bd28bc80423/11 12:10:14</p>	
Patient Name	John Smith		
Additional Patient Information	2020		
(I.D., Case, etc.)			
Lens Details		<h1>Pre-Op Information</h1> <p>Flat K:44.50D @ 10° Steep K:46.76D @ 100°            P-IOL:22.5D SIA:0.00D IL:190° [V3.1.0]            20b0a6baa6deca95180c7c48bd28bc80 4/23/11 12:10:16</p>	
AcrySof® IQ Toric IOL	SN6AT5		
IOL Spherical Equivalent (SE)	22.5 D		
Axis of Placement	100°		
Cylinder Power (IOL Plane)	3.00 D	<h1>Notes:</h1>	
Cylinder Power (Corneal Plane)	2.06 D		
Calculation Details			
Pre-Op Corneal Astigmatism:	2.25 D X 100°		
Surgically Induced Astigmatism:	0.00 D X 100°		
Crossed-Cylinder Result (corneal plane):	2.25 D X 100°		
Anticipated Residual Astigmatism:	0.19 D X 100°		
Patient Data			
Flat K	44.50 D		
@ Flat Axis	10°		
Steep K	46.75 D		
@ Steep Axis	100°		
IOL Spherical Power (P-IOL)	22.5 D		
Surgically Induced Astigmatism (SIA)	0.00 D		
Incision Location (IL)	190°		

The Toric IOL is customized for each individual patient's astigmatism.

# Cataract surgery Post op eye drops

1. Antibiotic
2. Steroid
3. Anti inflammatory



**NOTE:**

When appropriate post-cataract antibiotic and steroid injections are employed.







# **Vision for the Way You Live!**

**Reading a Book or Menu  
Driving – Day or Night  
Working on Computer  
Playing Golf or Tennis**



**Questions?**

Visit us at  
[DSeye.com](http://DSeye.com)  
to learn more about your  
Ocular Health