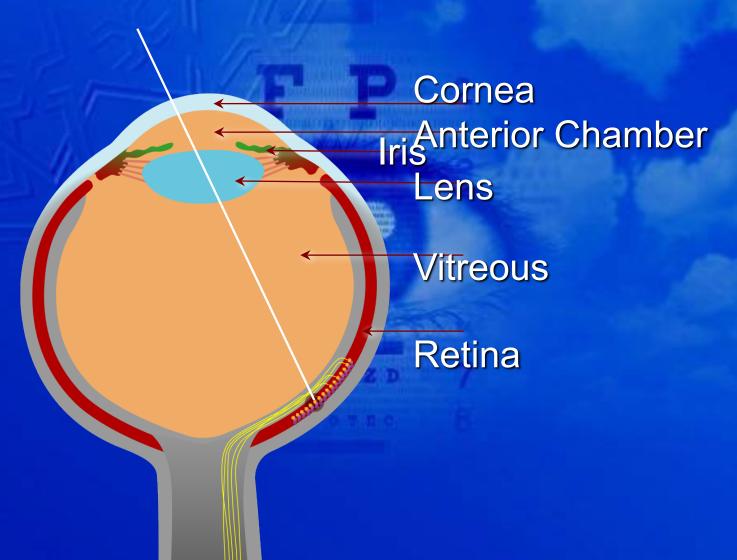
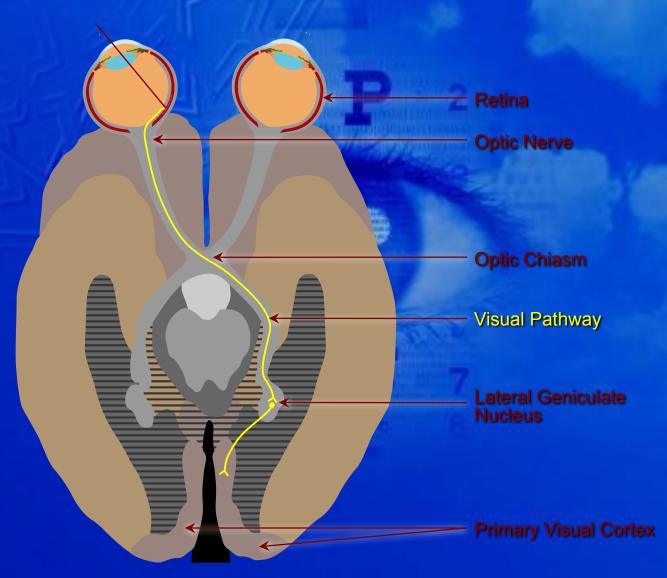


# The Visual Pathway



# The Visual Pathway



# CHRONIC VISUAL LOSS

- 1. Measure intraocular pressure with a tonometer
- 2. Evaluate the nerve head
- 3. Evaluate the clarity of the lens
- 4. Evaluate the function and appearance of the macula

### CHRONIC VISUAL LOSS

Causes of slowly progressive visual loss in an adult patient

- 1. Glaucoma
- 2. Cataract
- 3. Macular degeneration
- 4. Diabetic retinopathy

#### **GLAUCOMA**

\*A major cause of blindness. African Americans

\*Often A symptomatic; in early stage (peripheral vision)

\*Damage is irreversible

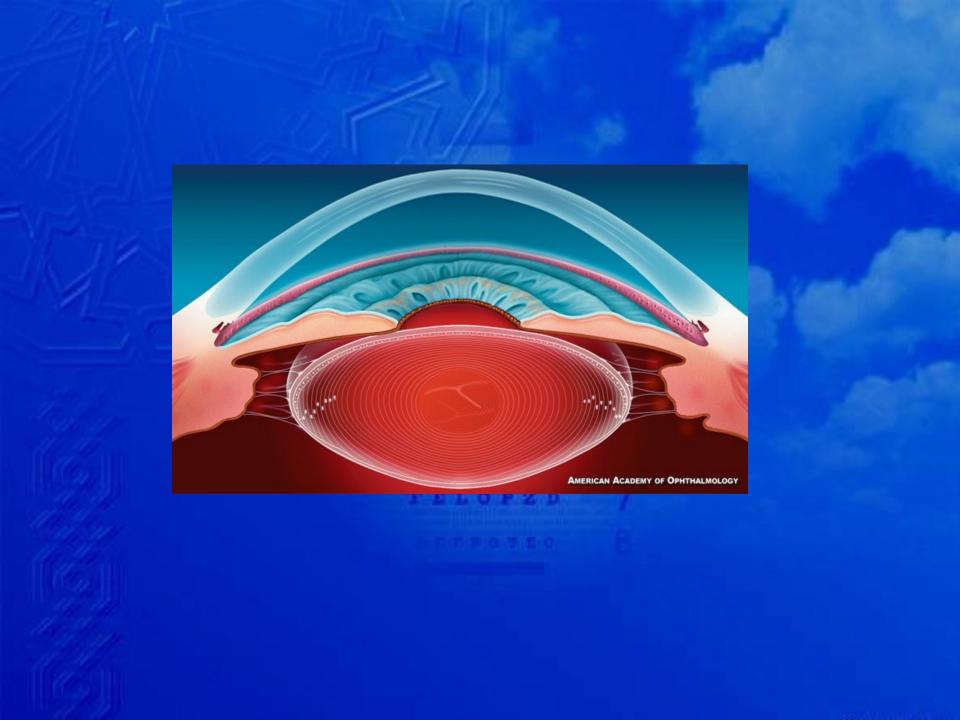
\*Effective treatment is available

# TYPES OF GLAUCOMA

**Open Angle** 

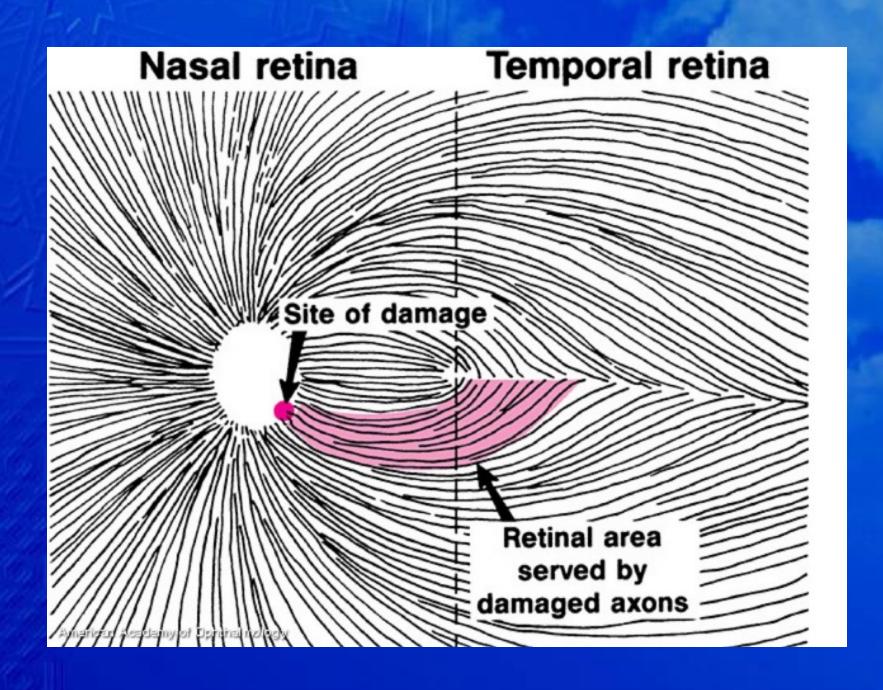
Closed angle

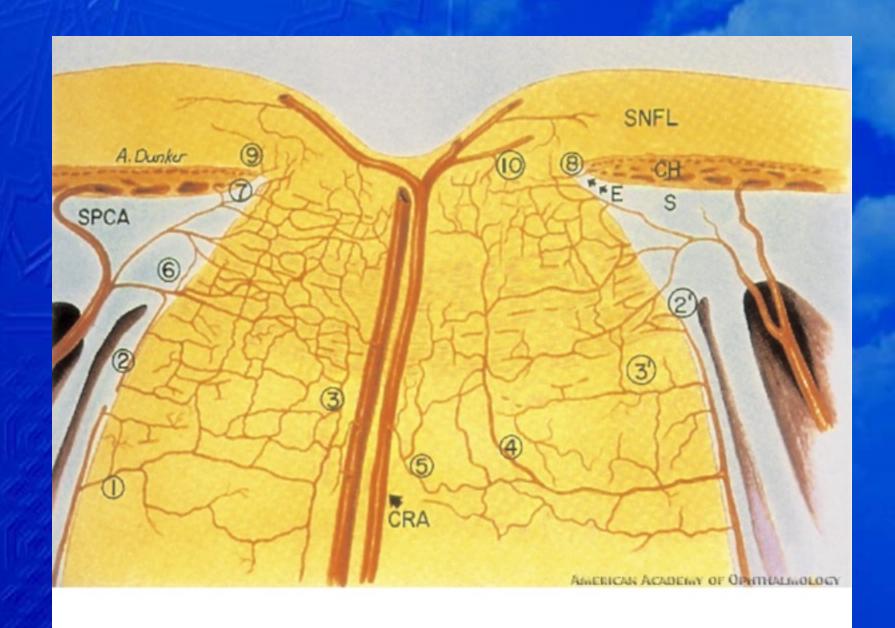
FELOPZD

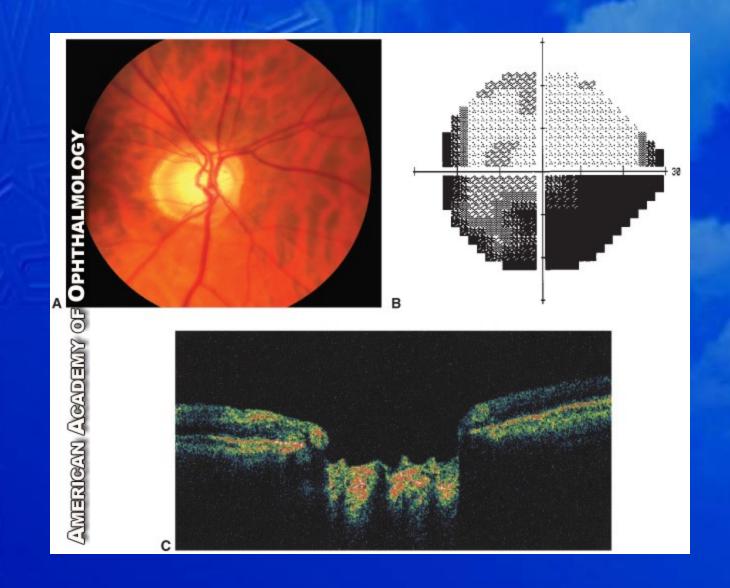


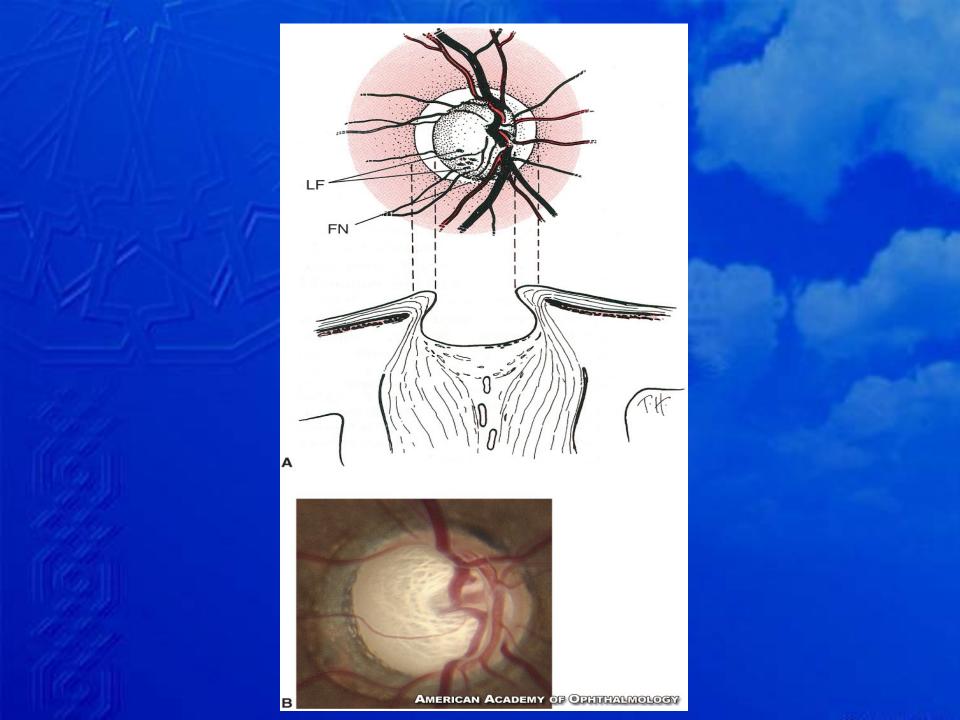






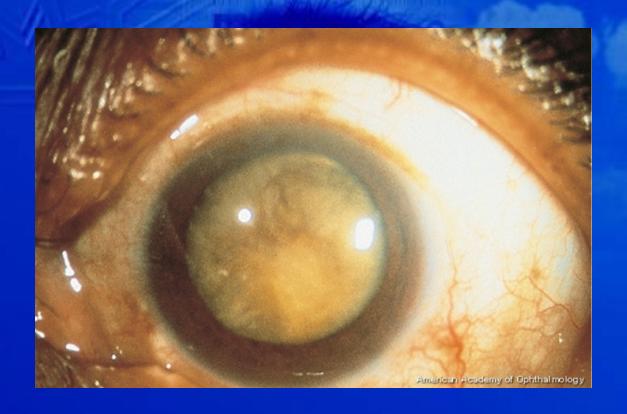






#### CATARACT

# Opacity of the lens



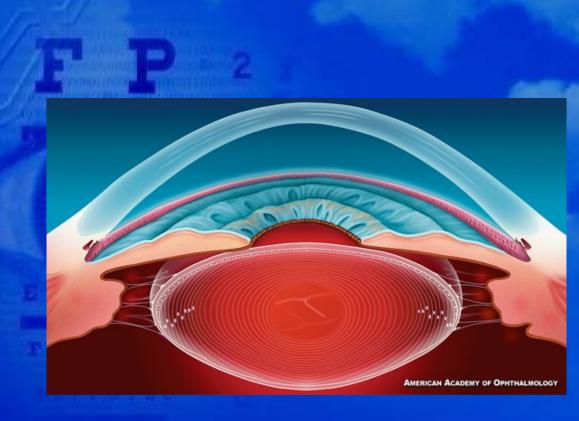
#### CATARACT

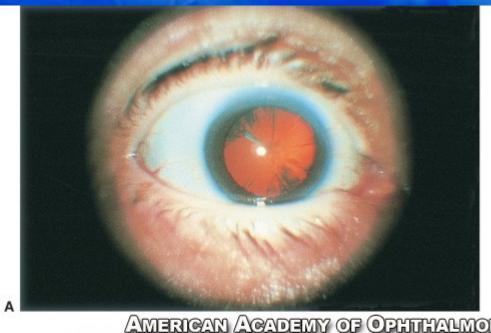
Causes Age Trauma Systemic diseases Myotonic dystrophy Medications **Steroids** Chlorpromazine **Miotics** 

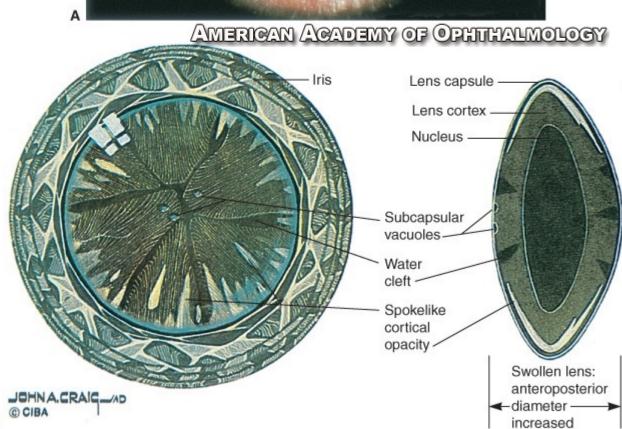


#### **CATARACT**

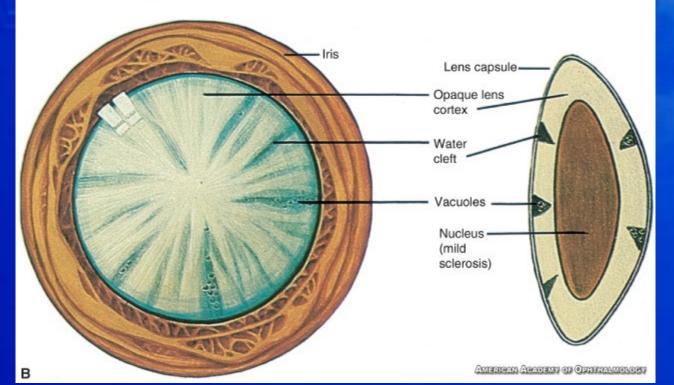
Classification 1-morphologic nuclear, subcapsular, cortical 2-maturity immature, mature, hypermature 3-age of onset cong,infantile,senile



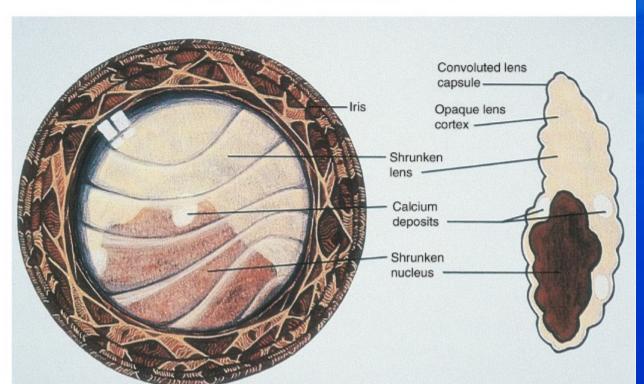










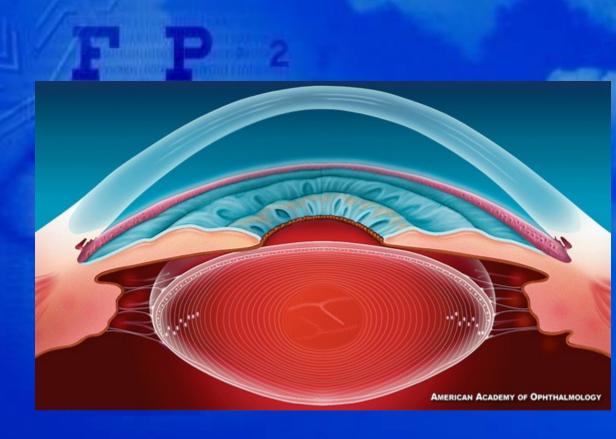


## **Congenital Cataract**

Hereditary 1/3
Metabolic
Syndromes
down syndrome, trisomy 13 & 18
Intrauterine infection
Rubella,toxo,cmv

# Management of Cataract

Only surgical ICCE
ECCE
ECCE IOL
PHACO IOL

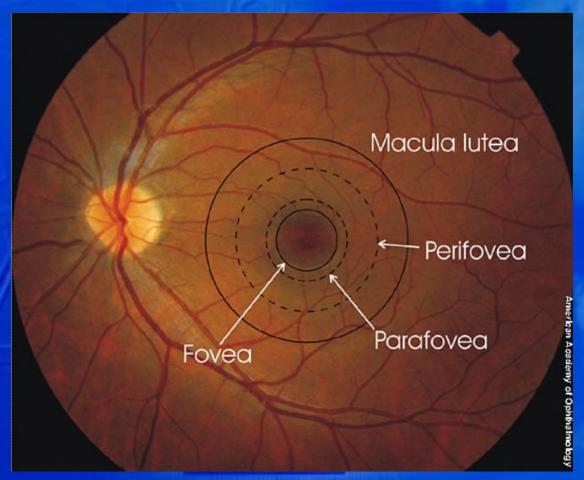


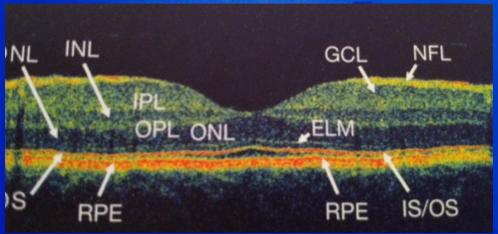












# Macular Degeneration

Risk Factors

- Age
- Race
- Gender
- Genetics

- Smoking
- High Blood Pressure
- High Cholesterol
- Unhealthy diet and Obesity
- Ultraviolet (UV)

### Macular degeneration

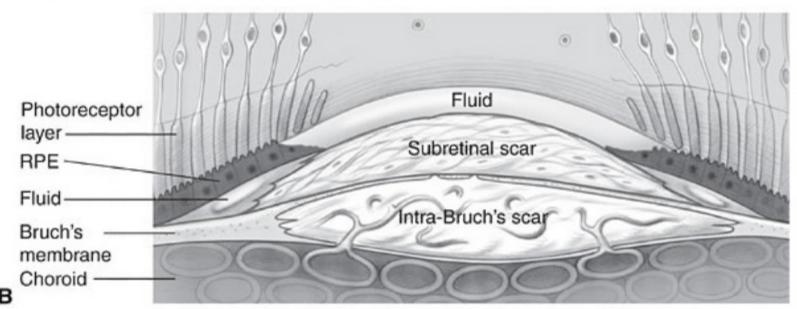
#### **Types**

Dry type: slow progressive atrophy of RPE and photoreceptors

Wet type: RPE detachment and choroidal neovas.

Amarisan Asadamy of Opininalmology





## Macular degeneration

Tests for macular function

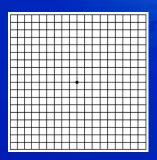
Visual acuity

Ophthalmoscopy

Amsler grid

OCT

Fluorescein angiography





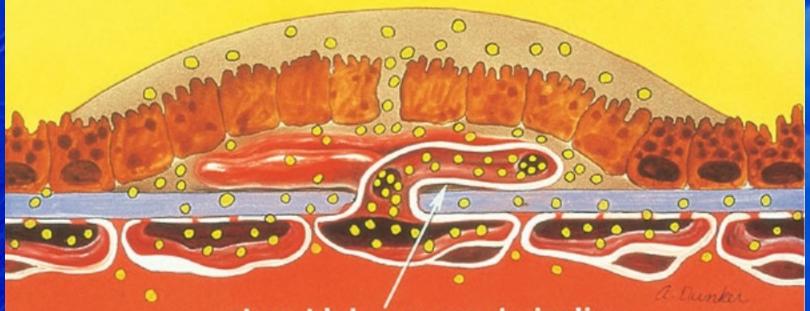












choroidal neovascularization

American Academy of Ophthalmology

