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Overview of Ophthalmic Evaluation

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- ▶ Assistant Professor of Ophthalmology
- ▶ Shahid Beheshti University of Medical Sciences



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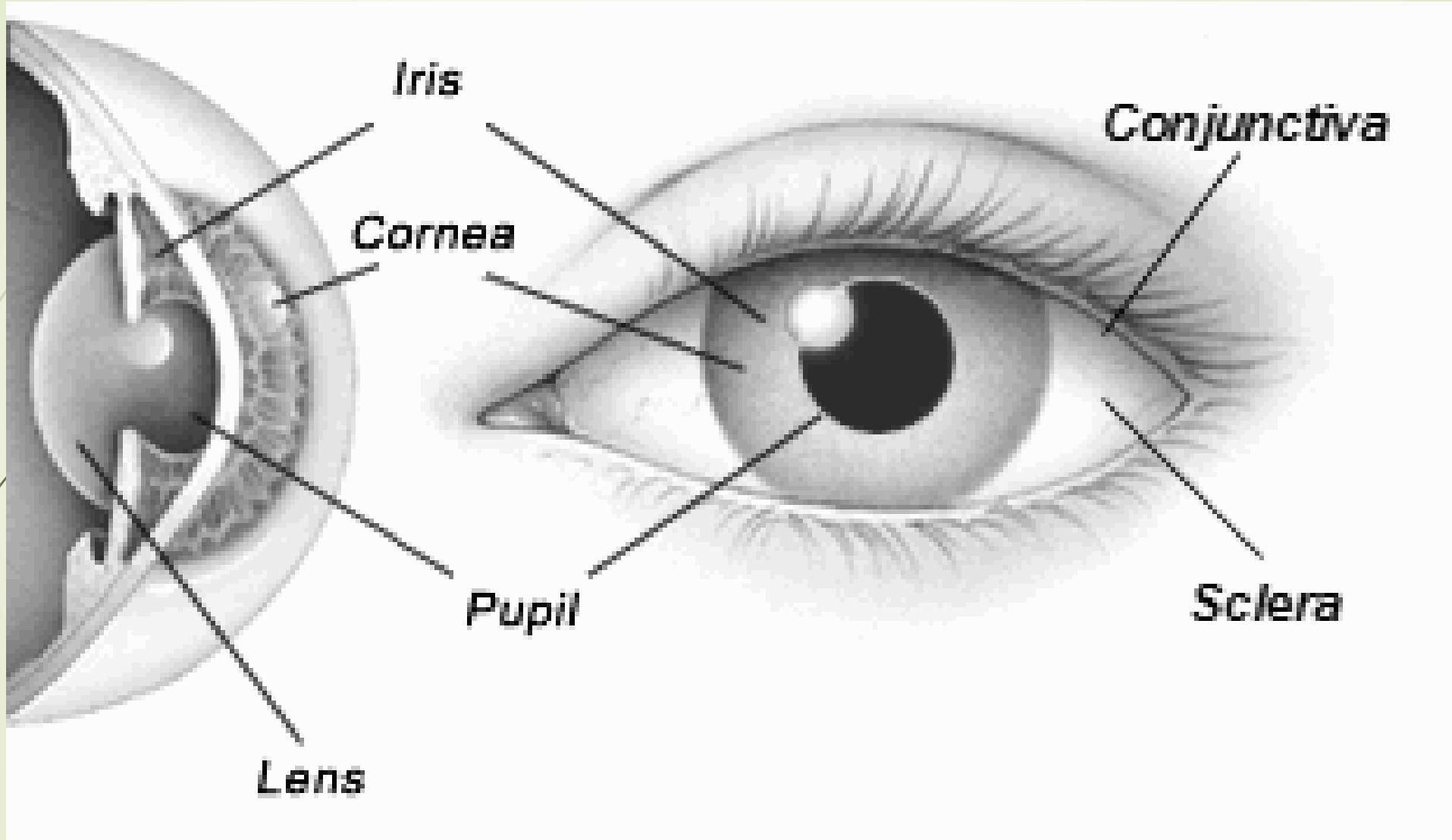
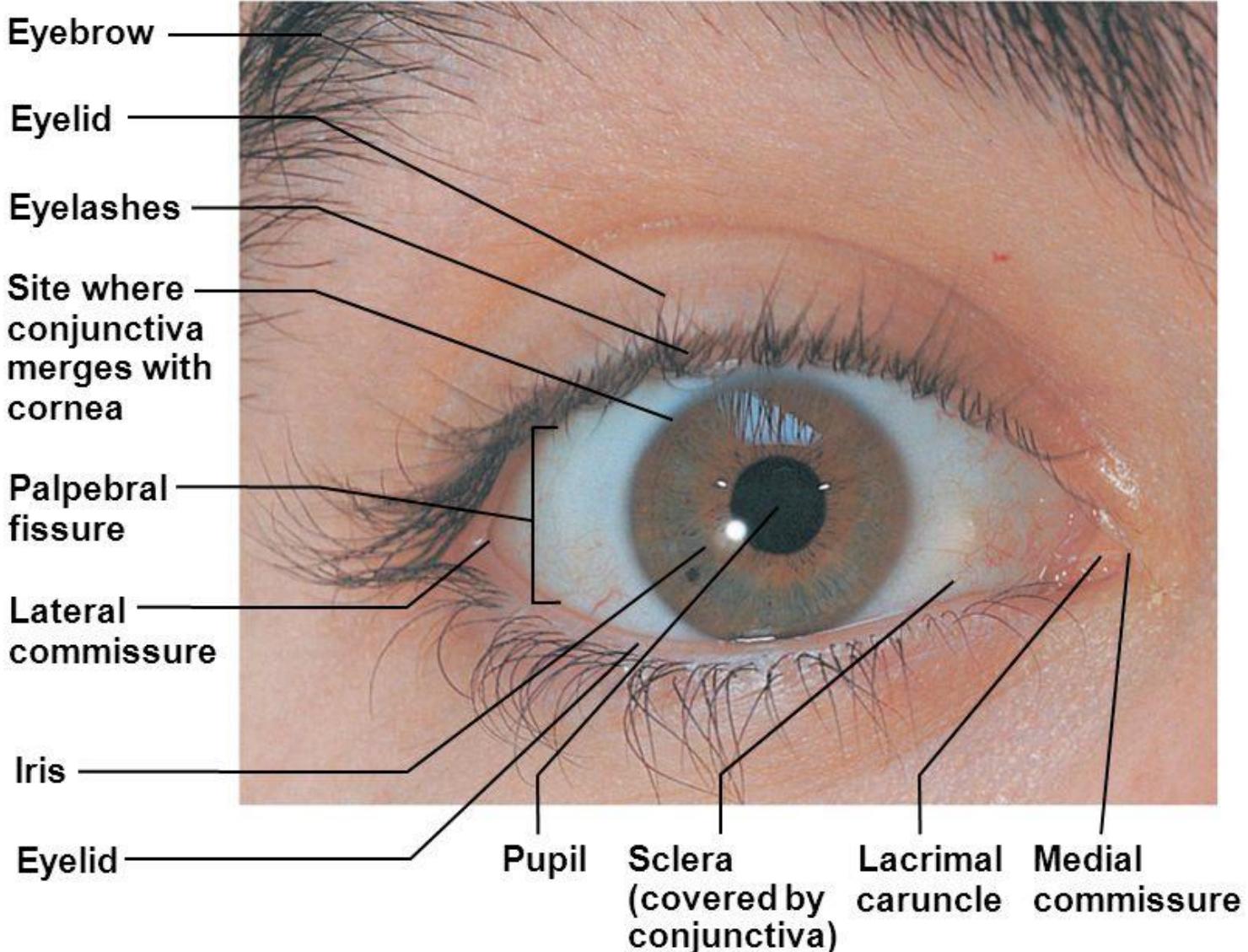
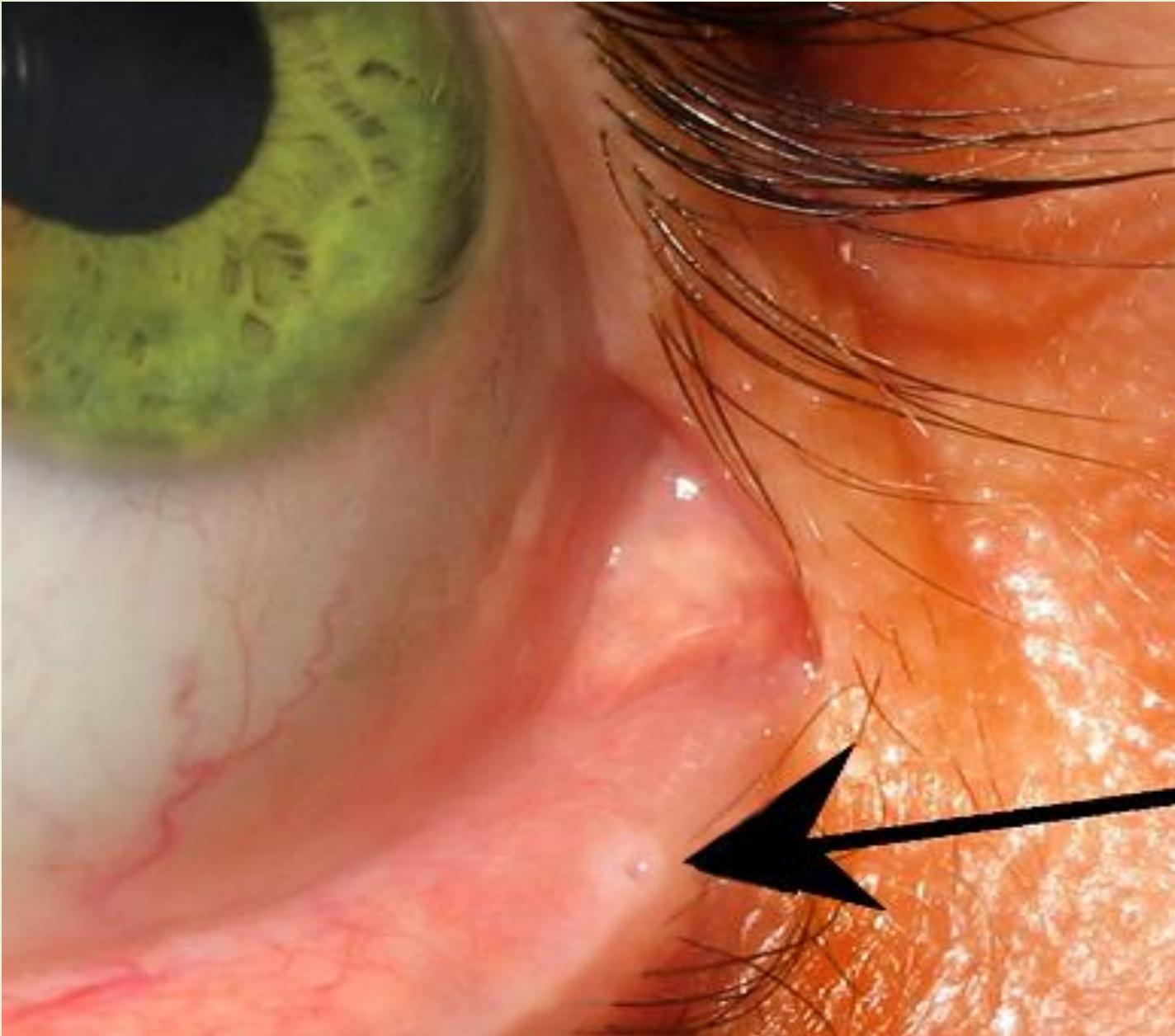
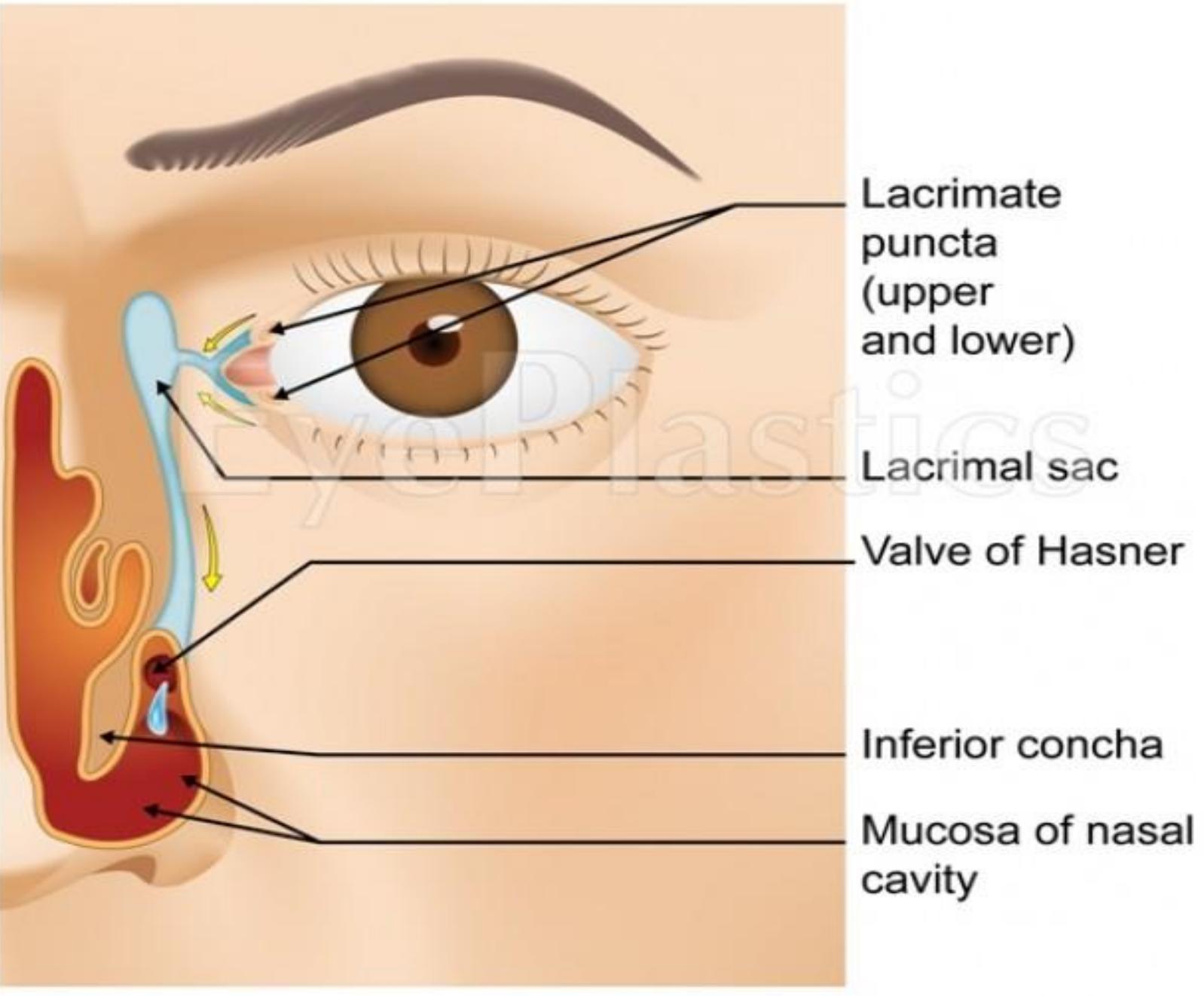


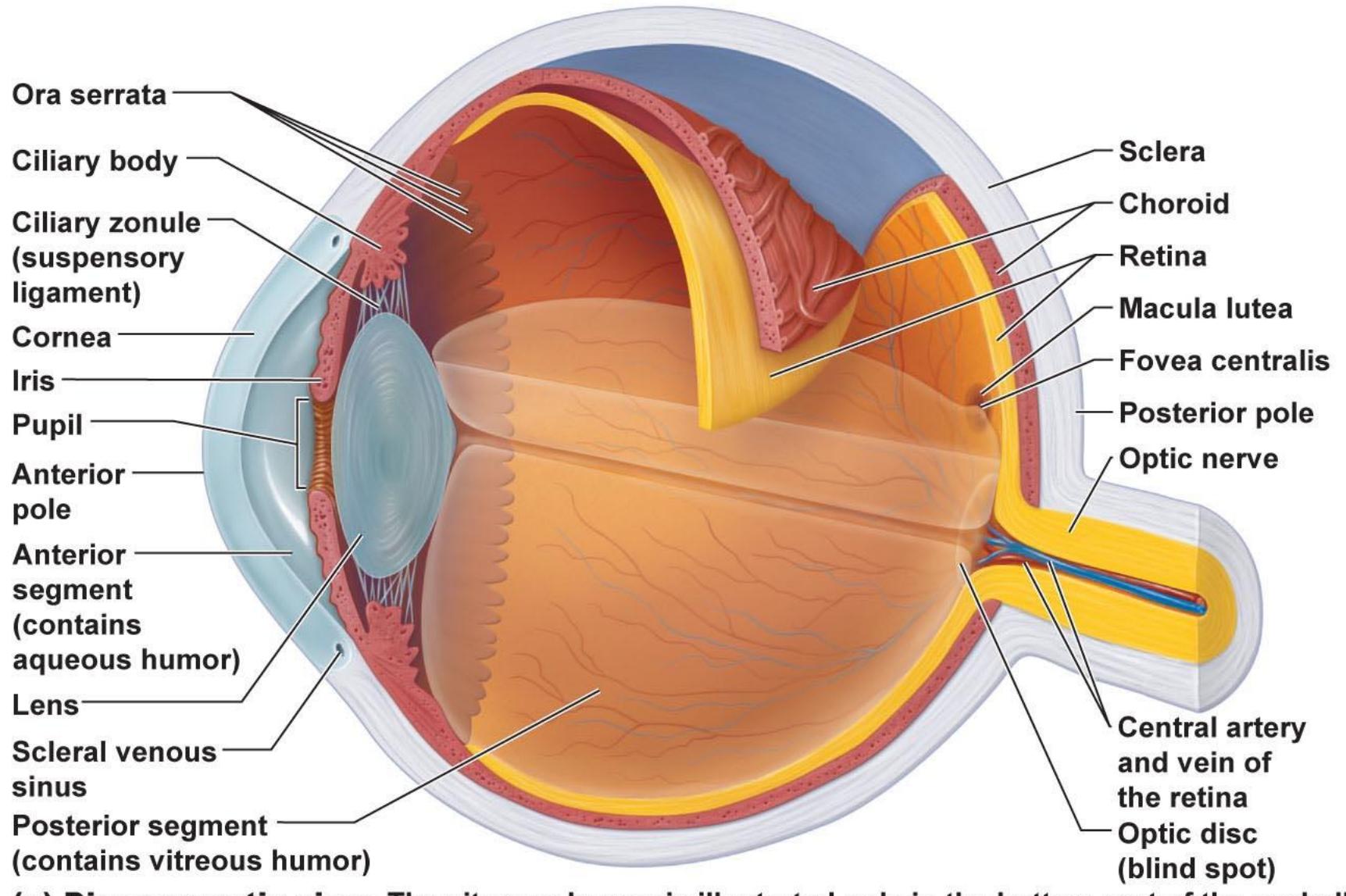
Figure 15.1a The eye and accessory structures.



(a) Surface anatomy of the right eye

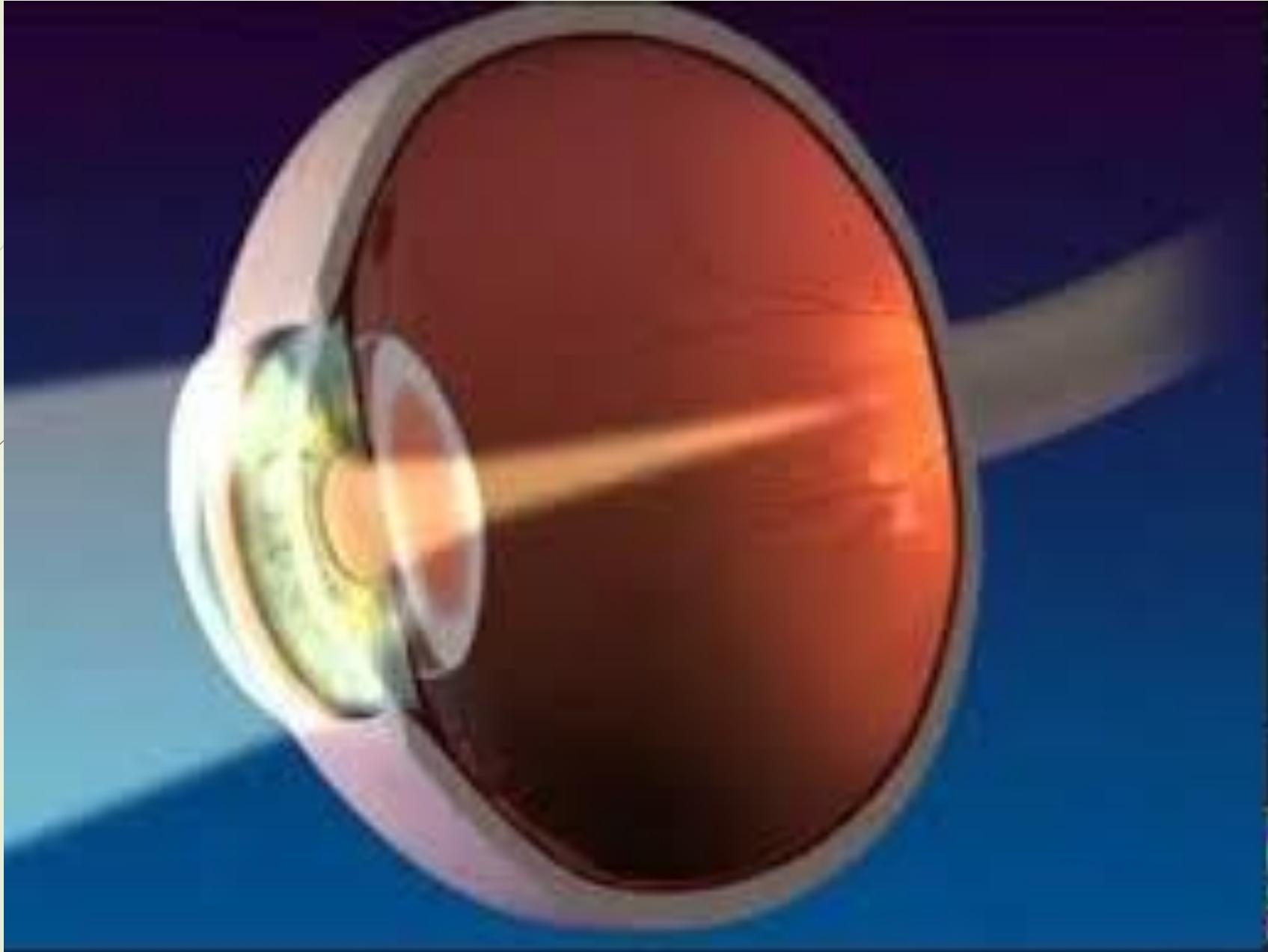




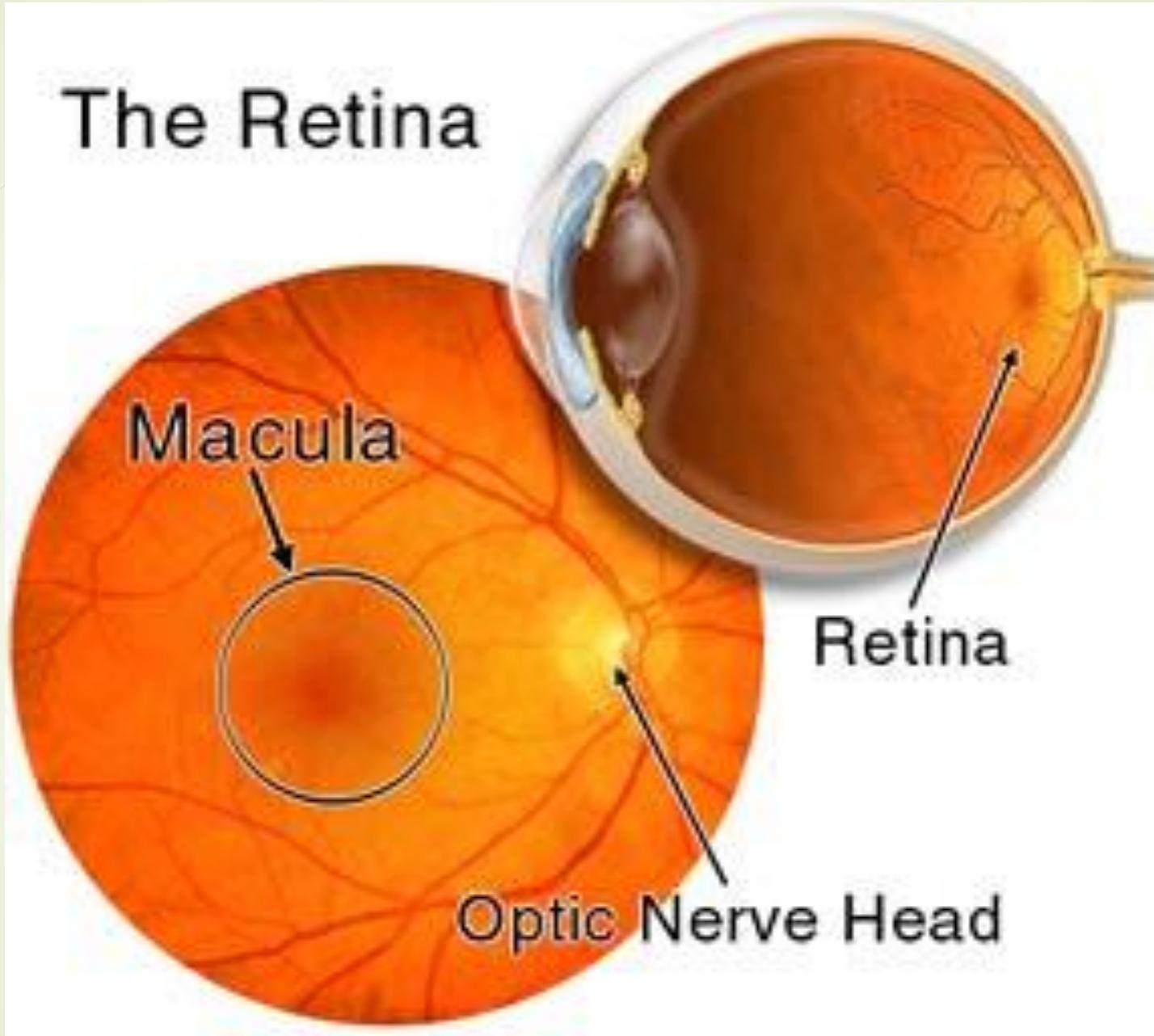


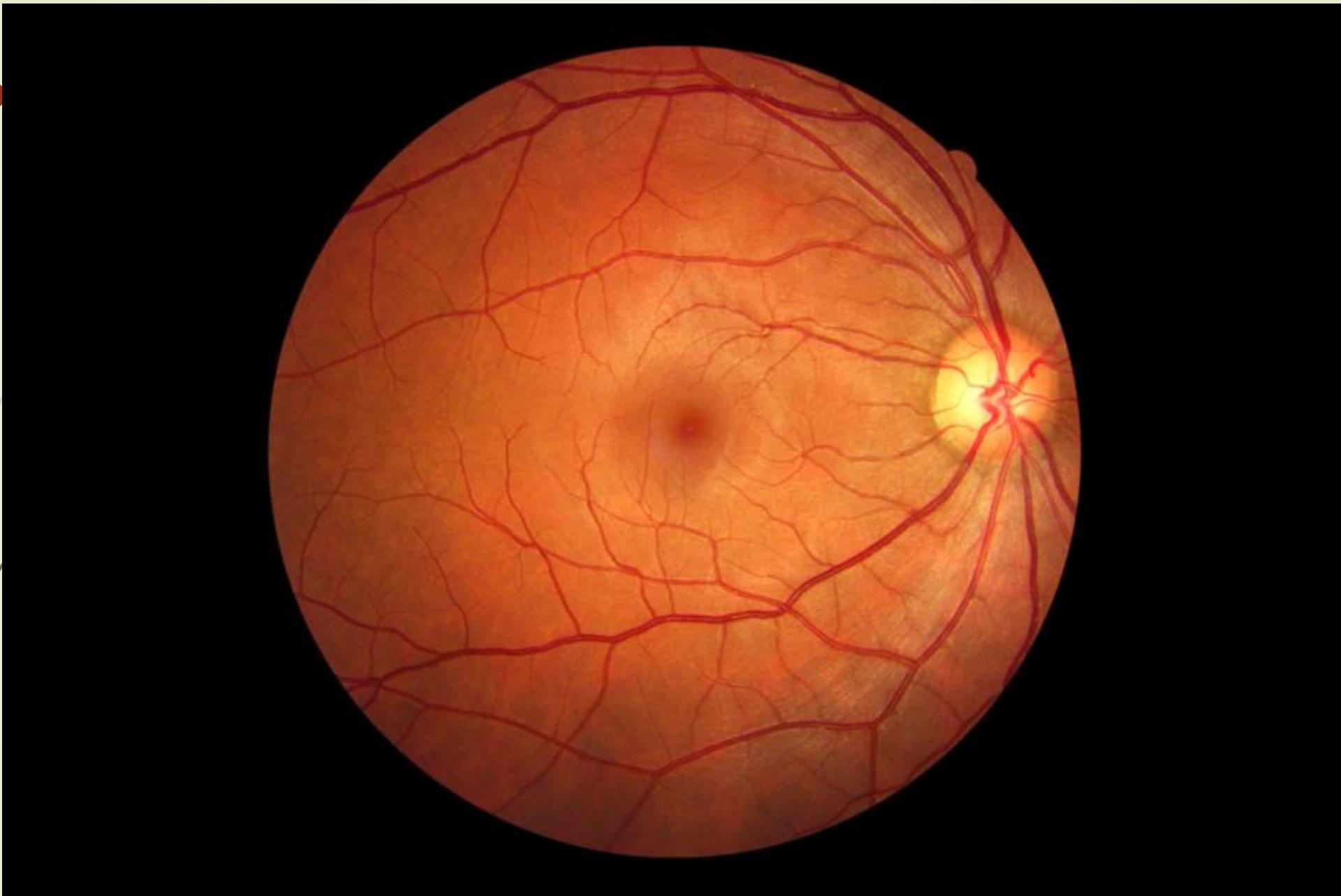
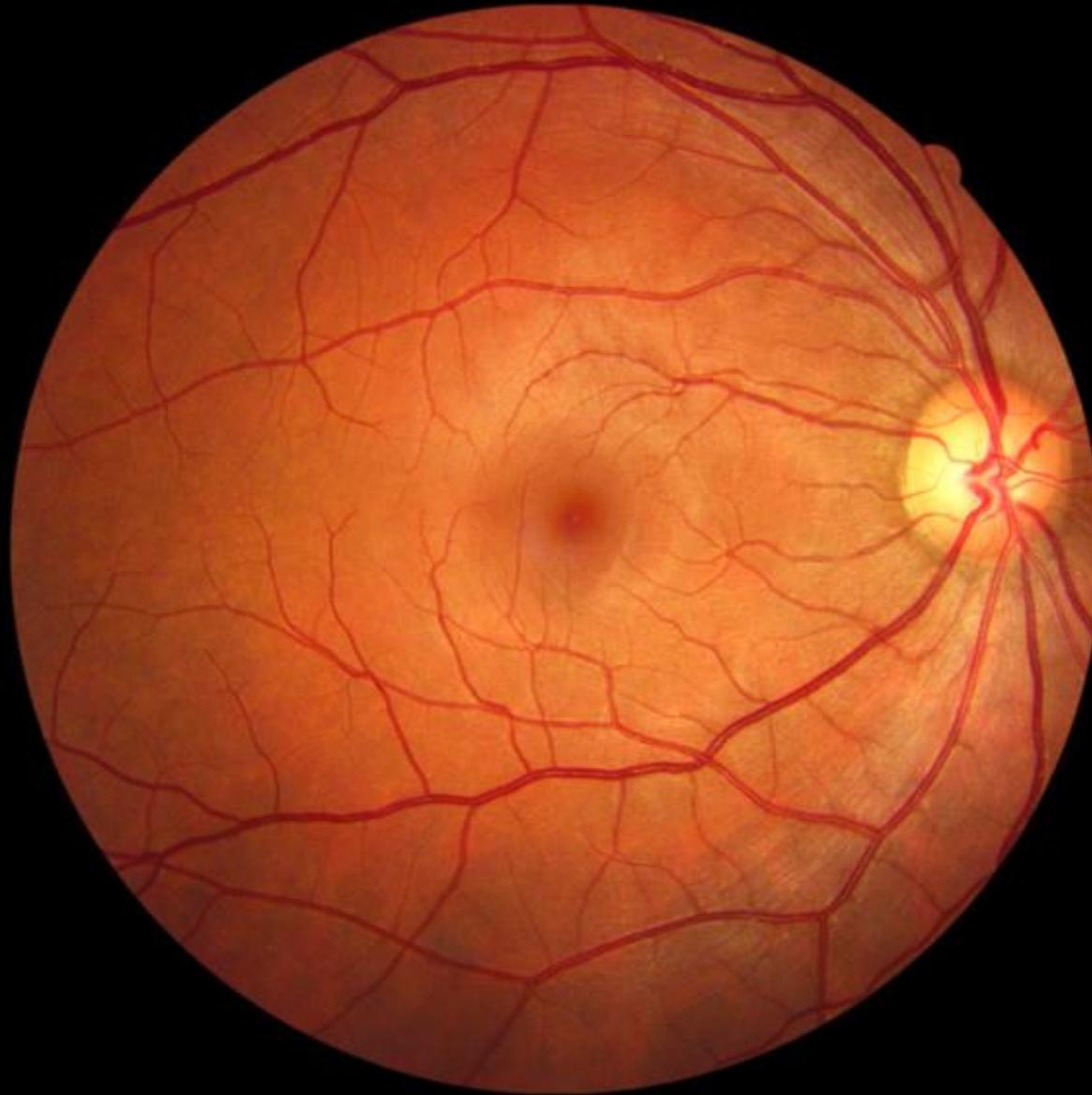


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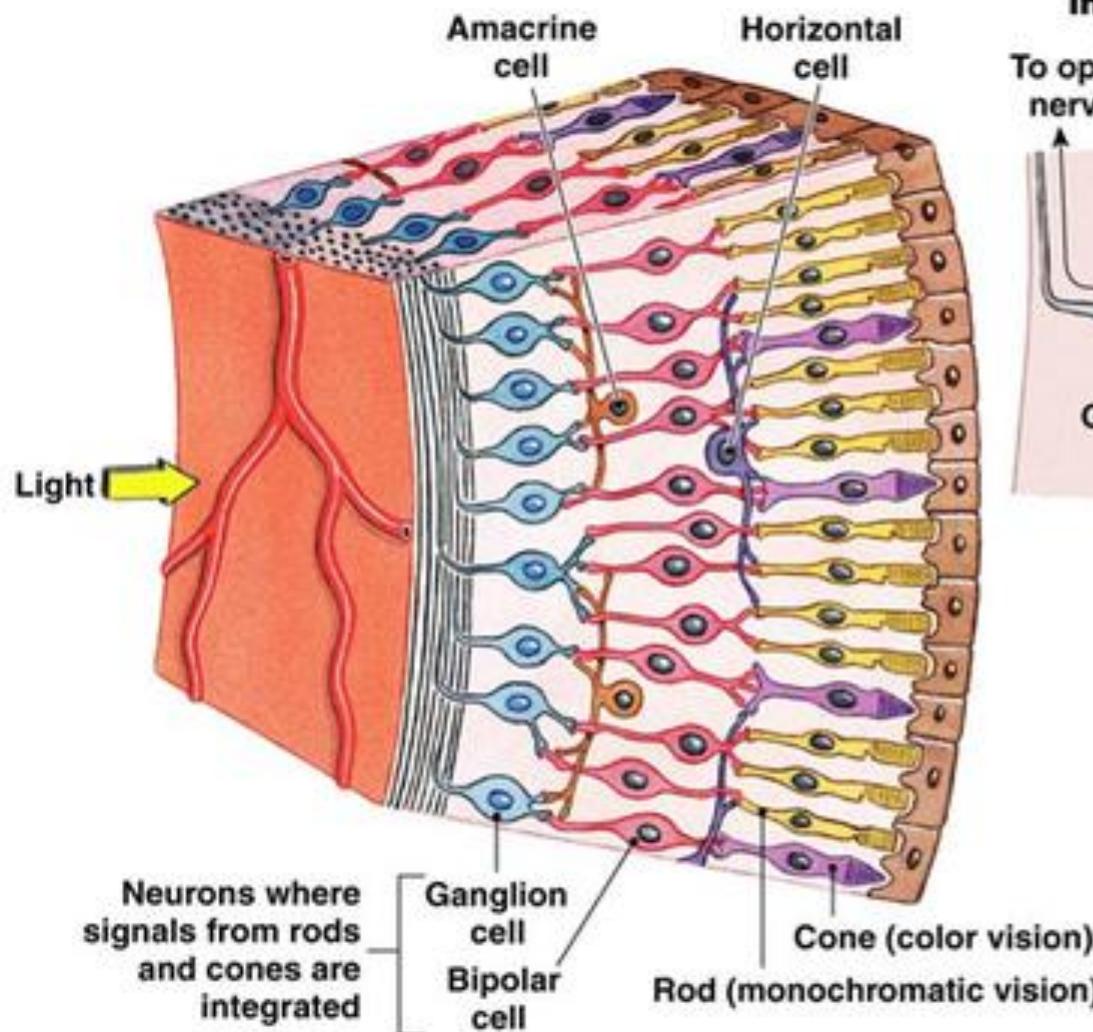


The Retina

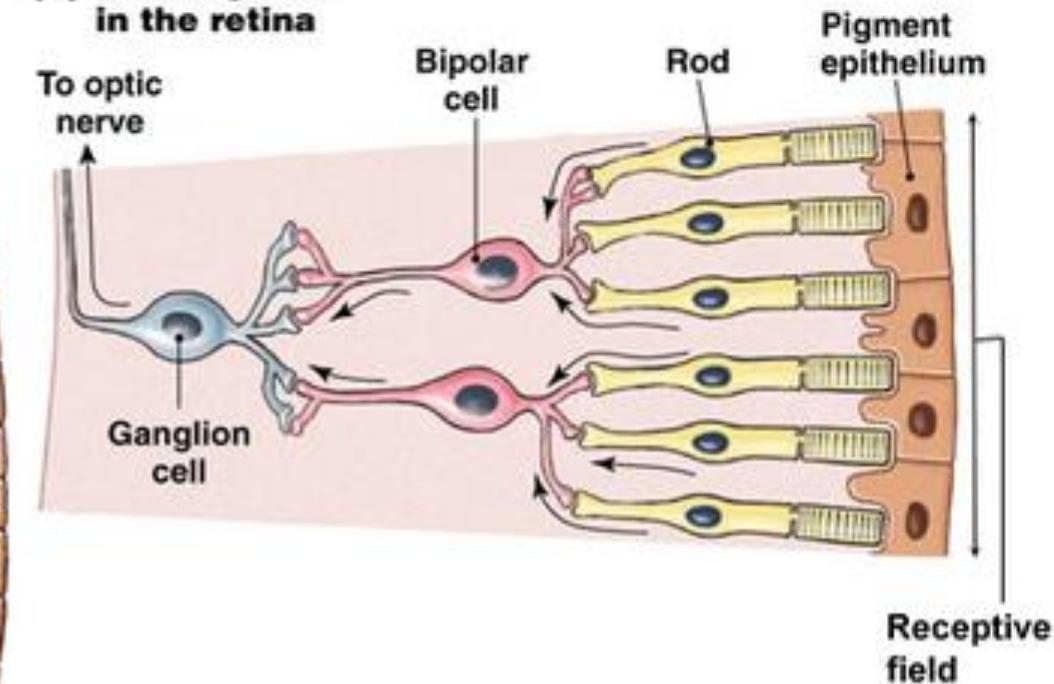




(d) Organization of the retina

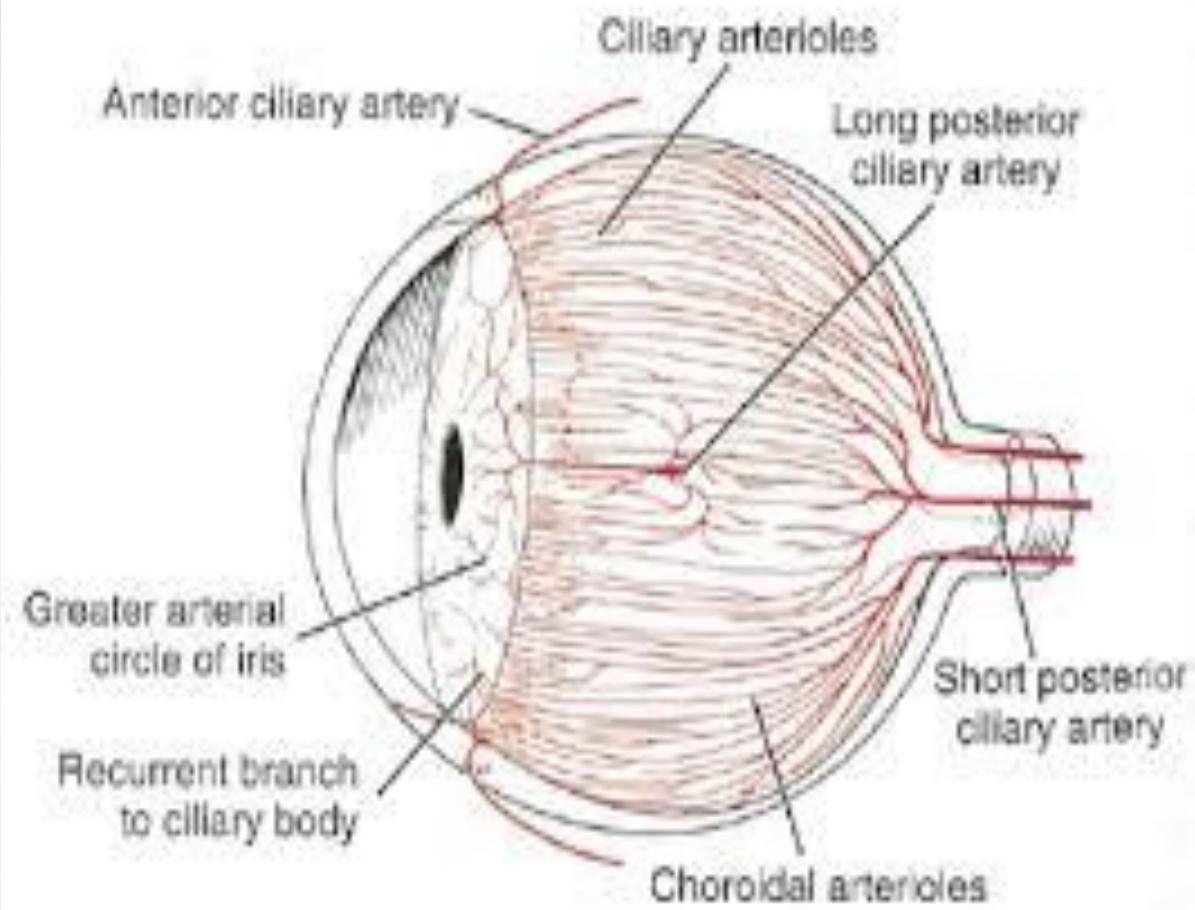
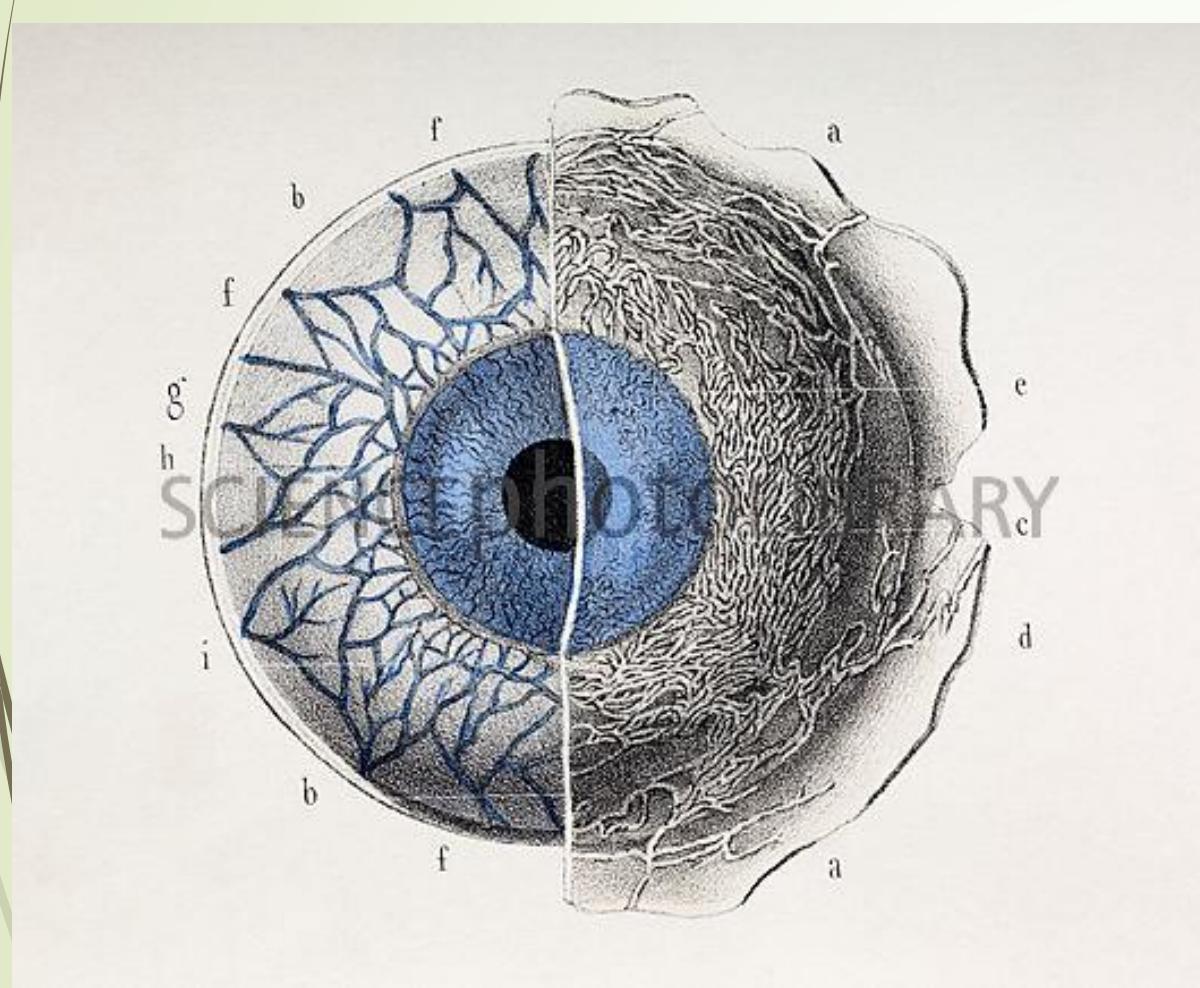


(e) Convergence in the retina



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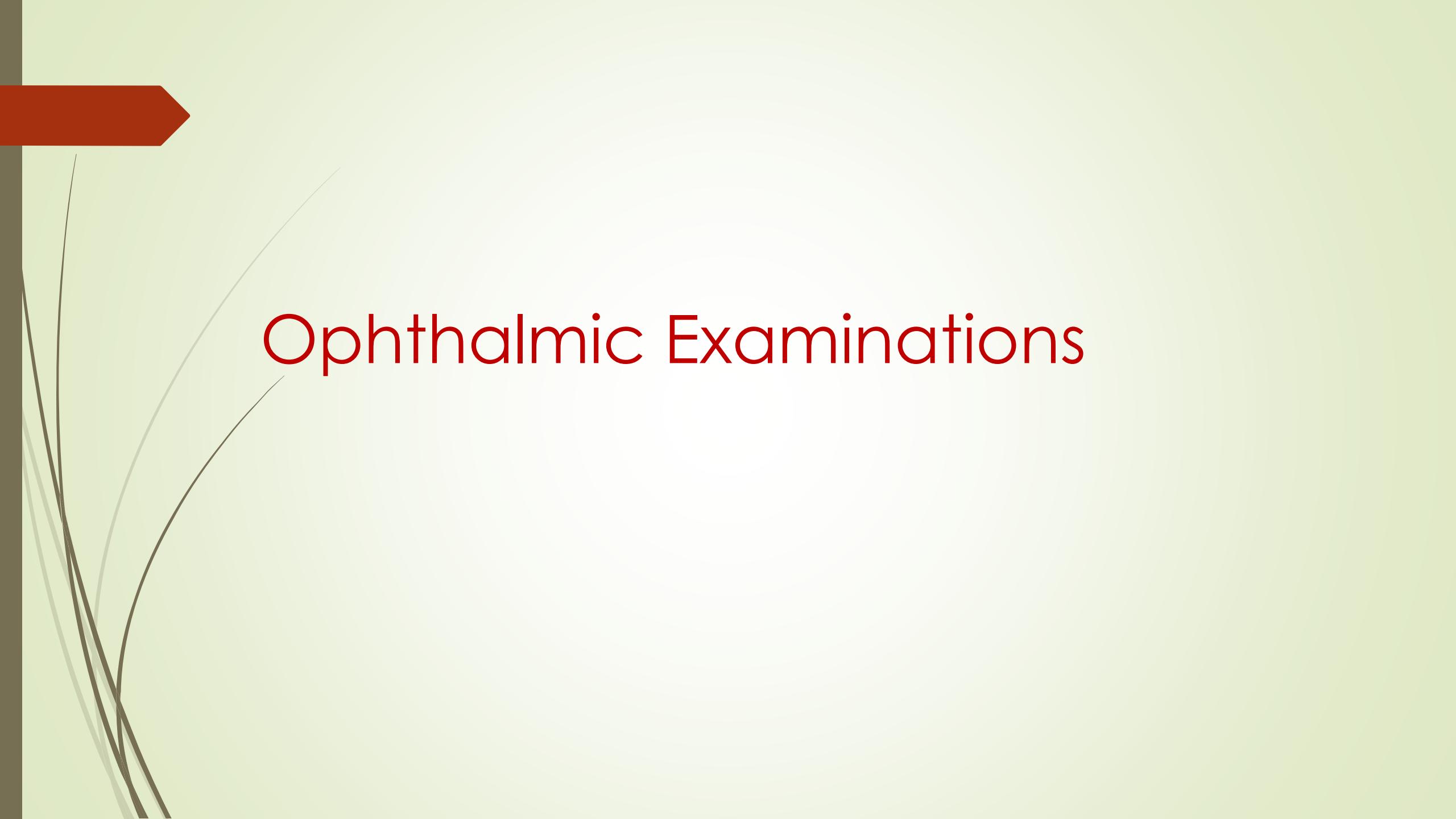
Fig. 10-35





History taking

- ▶ Chief complaint
- ▶ History of present illness
- ▶ Past ocular history
- ▶ Ocular medications
- ▶ General medical & surgical history
- ▶ Systemic medication
- ▶ Allergies
- ▶ Social history
- ▶ Family history
- ▶ Review of systems



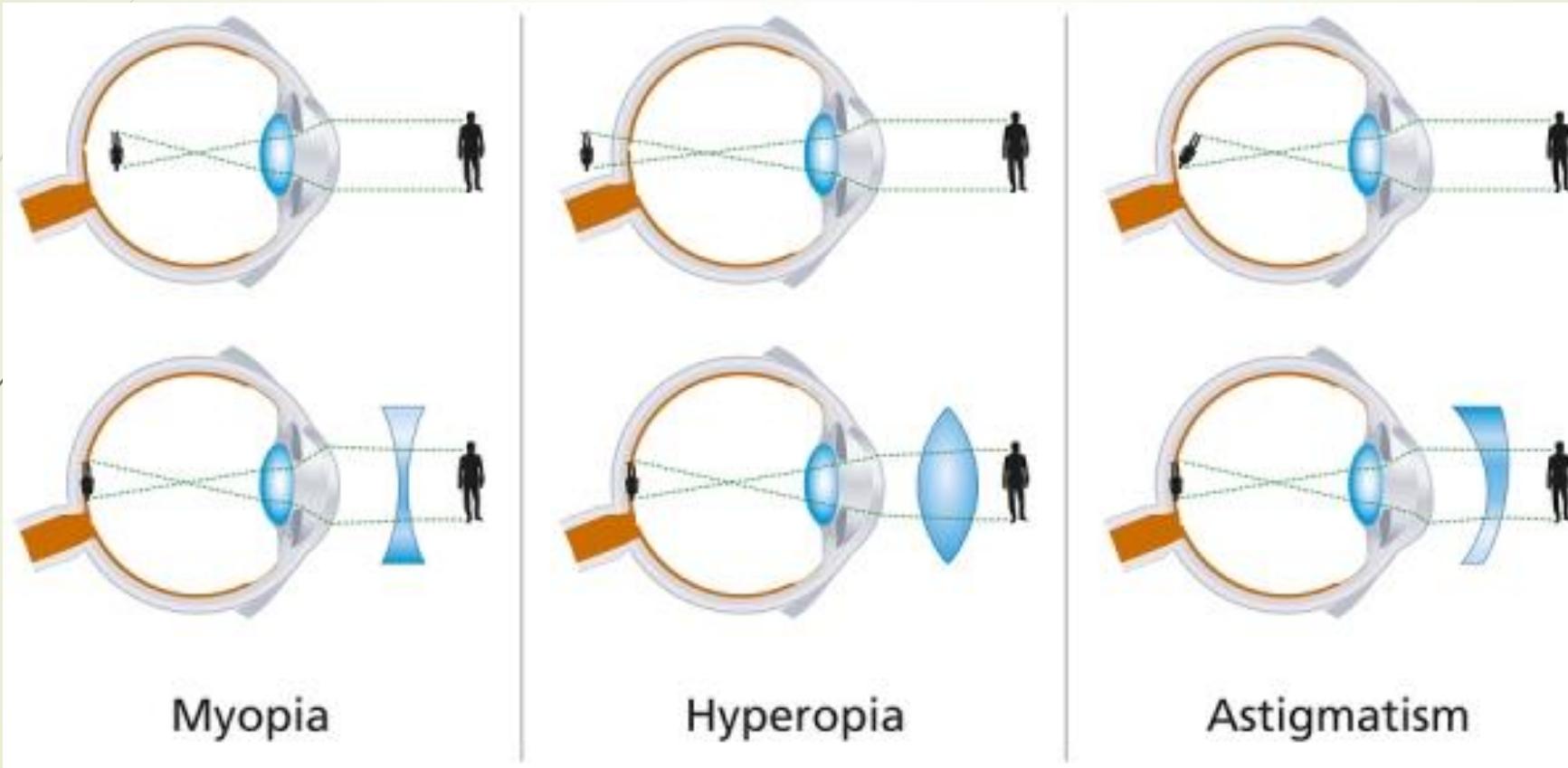
Ophthalmic Examinations

Visual Acuity Examination



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Refractive Errors





Pinhole

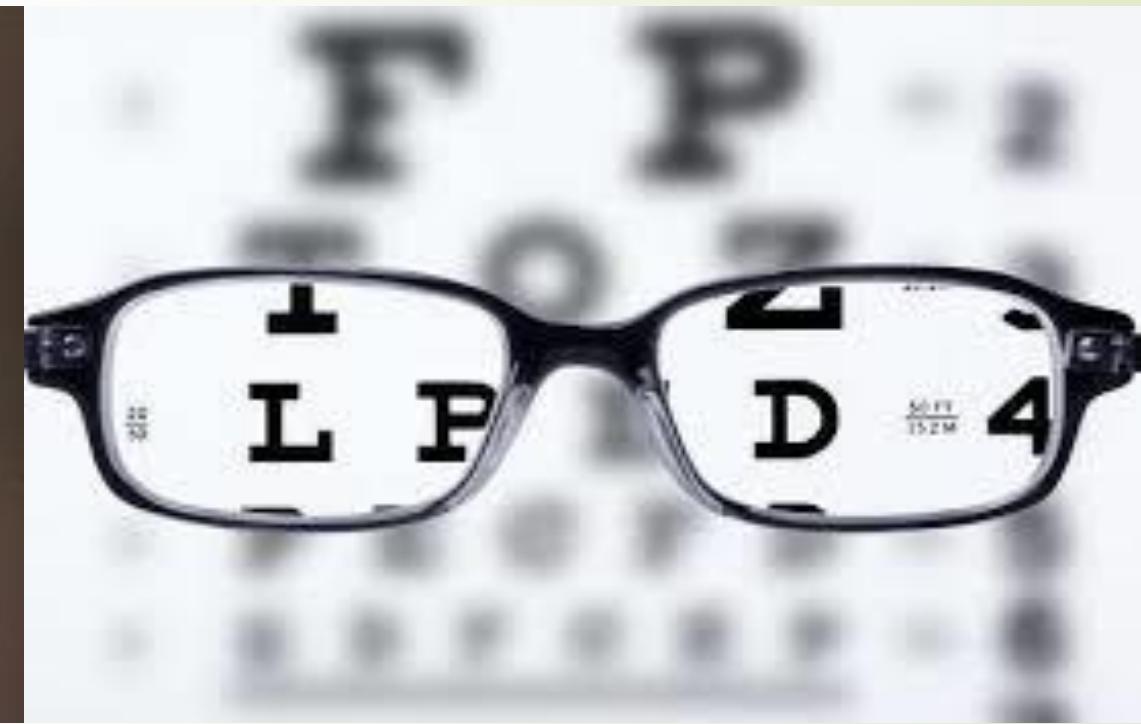


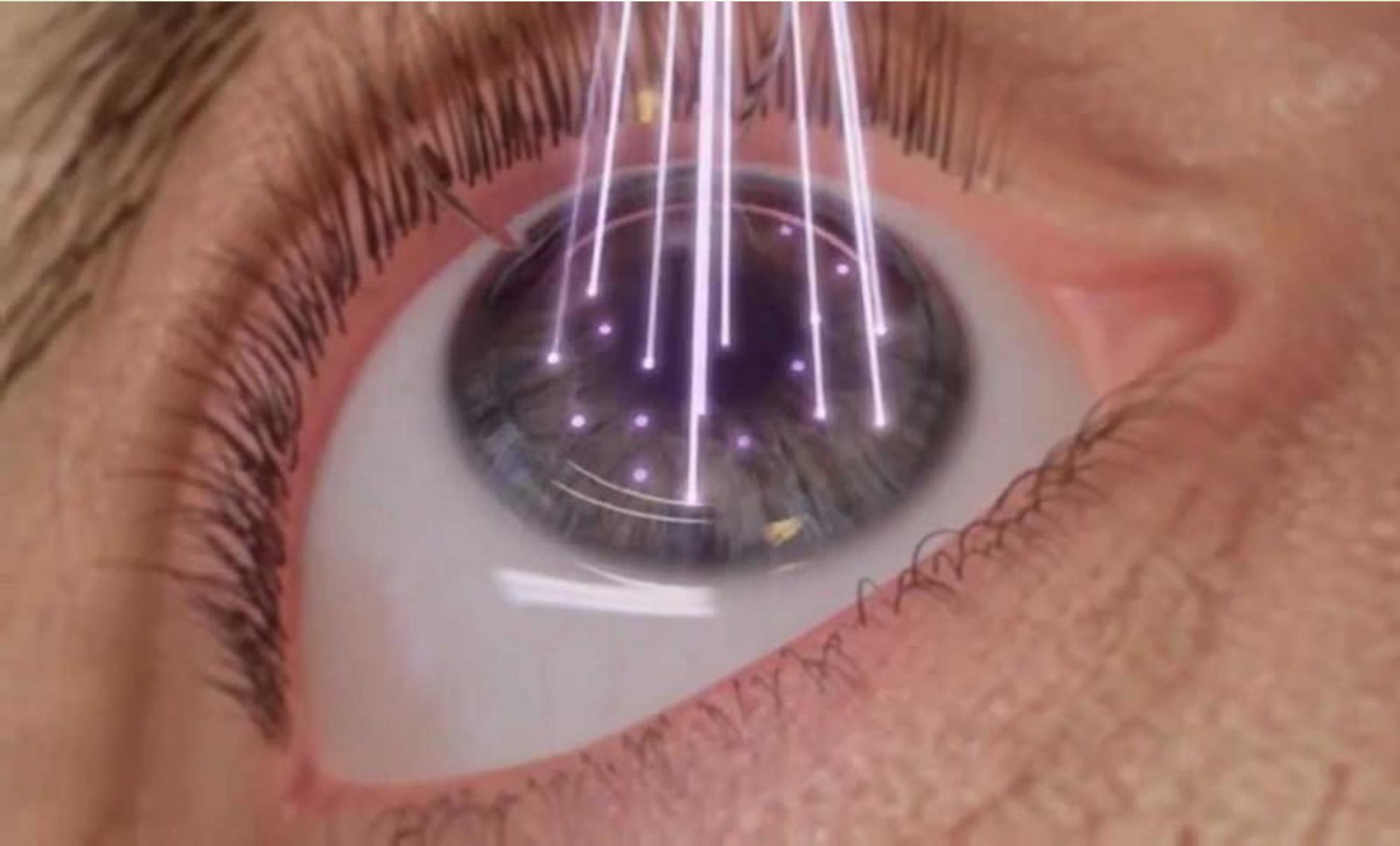
Retinoscopy

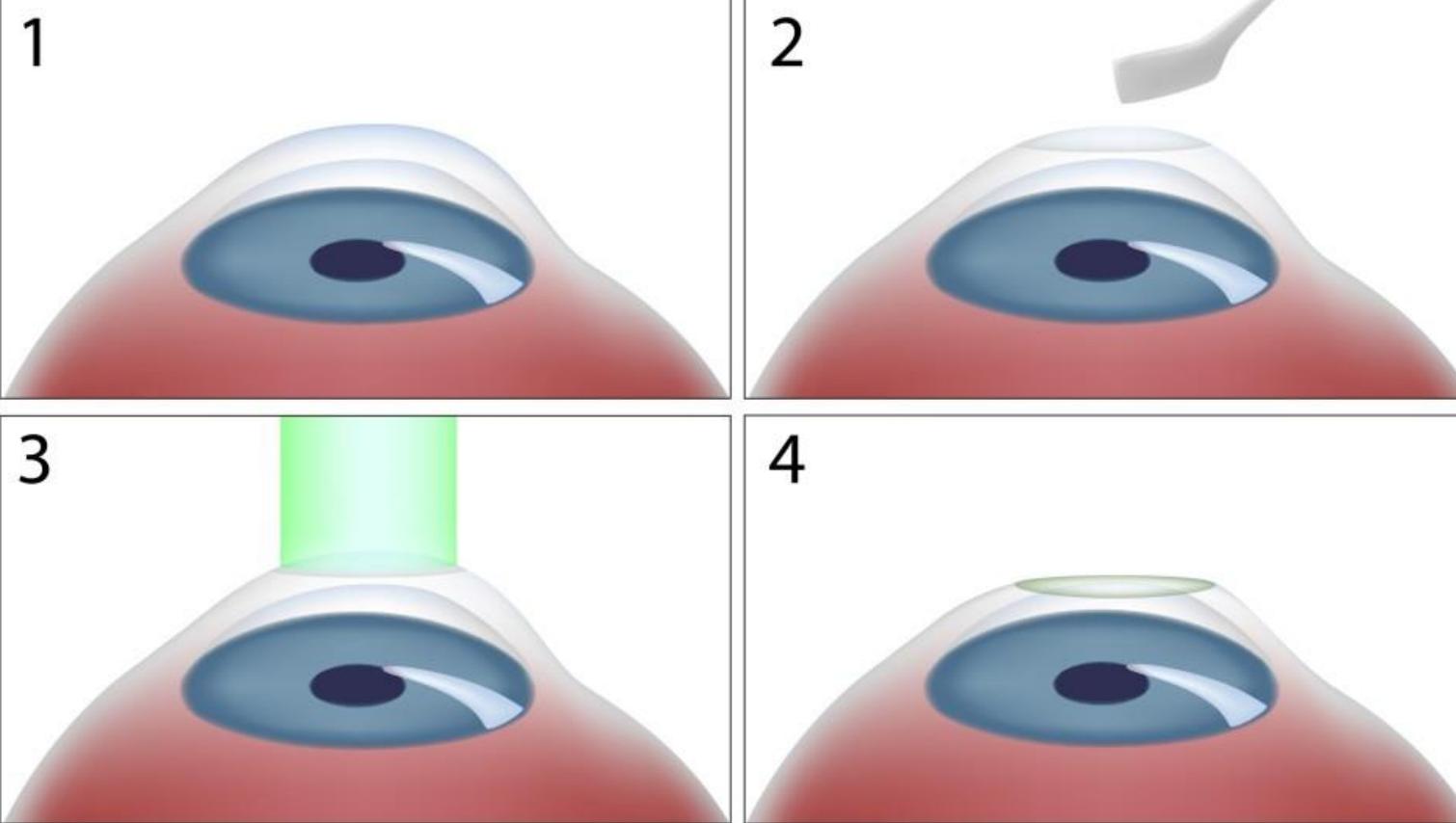


Fig. 1 A hand held instrument called a retinoscope projects a beam of light into the eye during a retinoscopy.





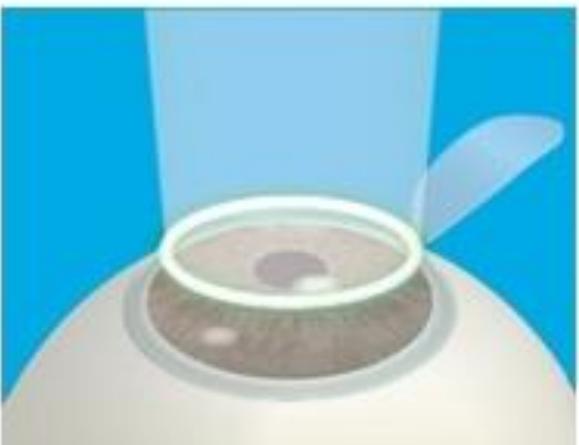




Photorefractive Keratectomy (PRK)



At the beginning of the procedure, the eye is anesthetized with topical eyedrops.



After the flap has been created, an excimer laser is used to reshape the cornea.



The surgeon then uses a device called Femto second Laser to create a corneal flap on the outer layer of the eye.



The corneal flap is replaced.



The eye will heal by itself, and no stitches are necessary.

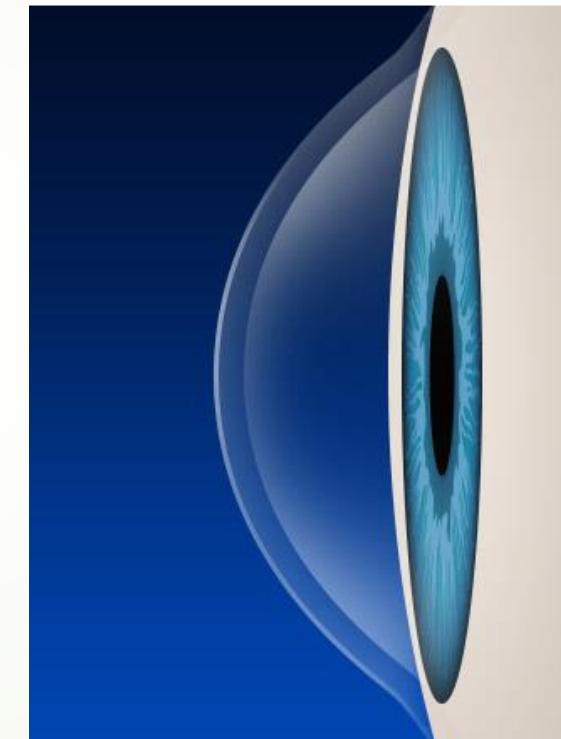


Normal Cornea

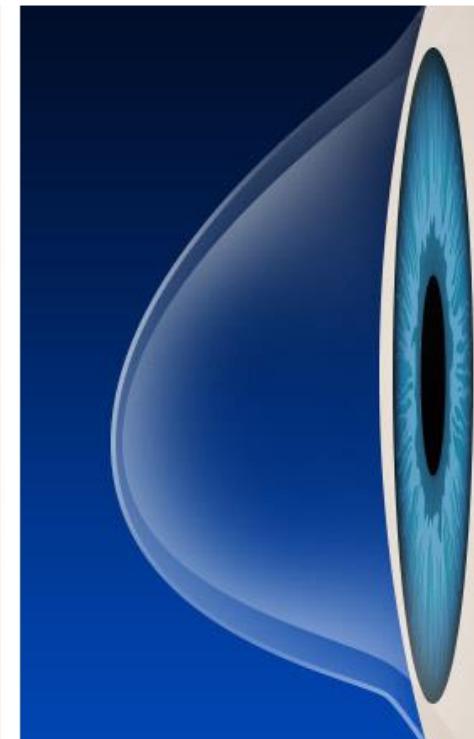


Keratoconic cornea

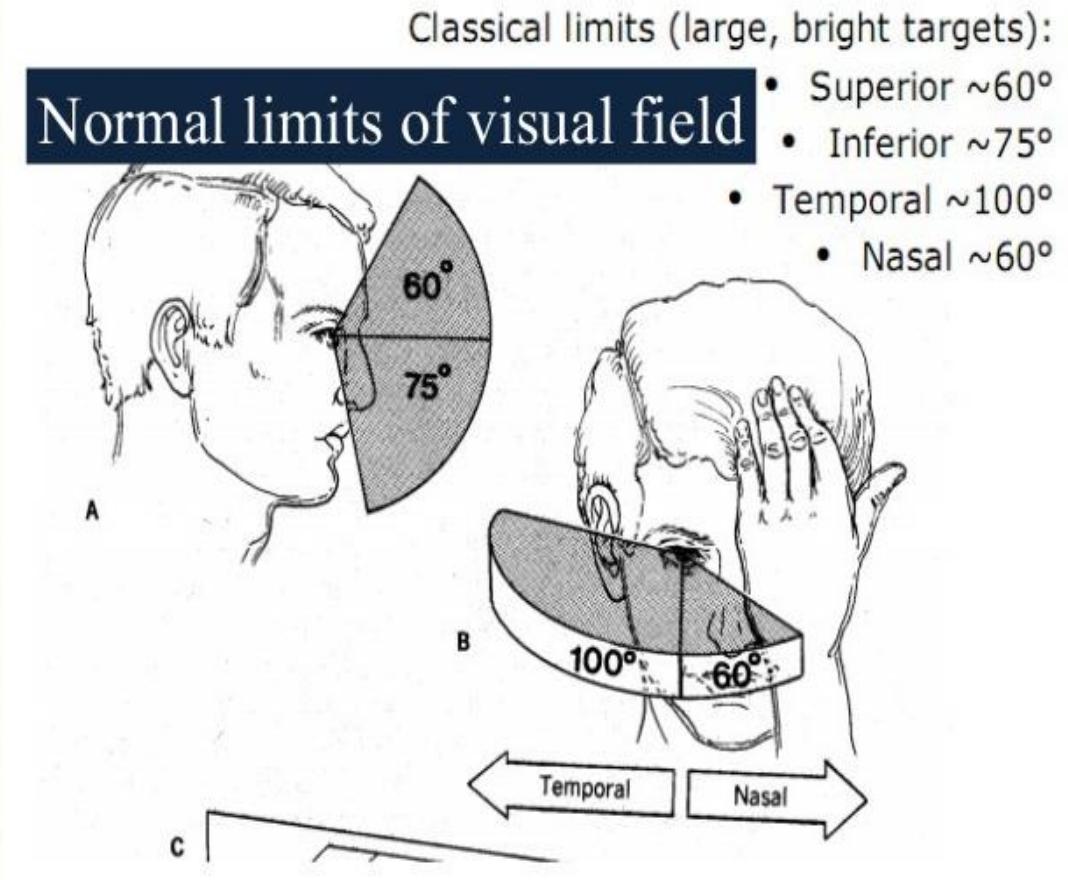
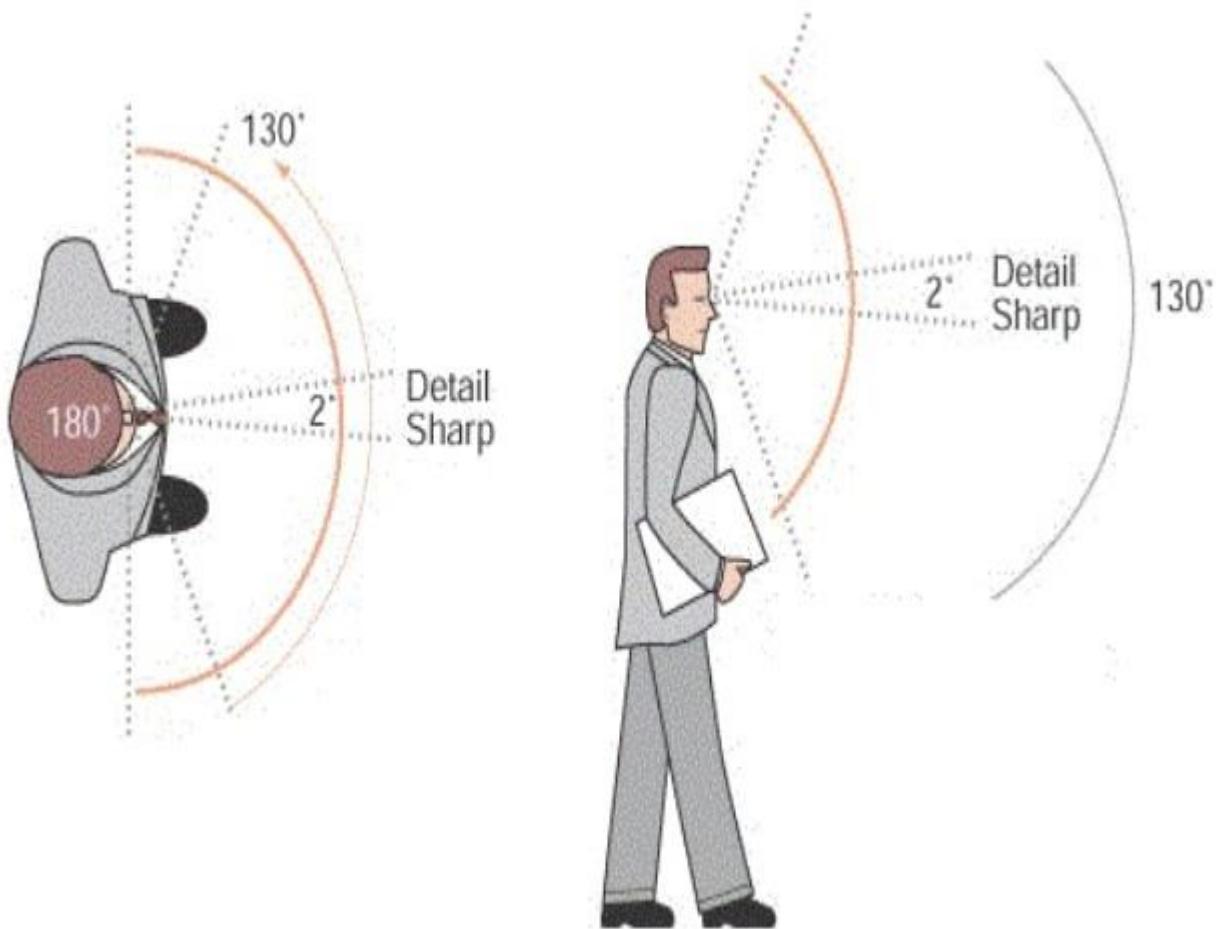
Normal cornea



Keratoconus



Visual Field

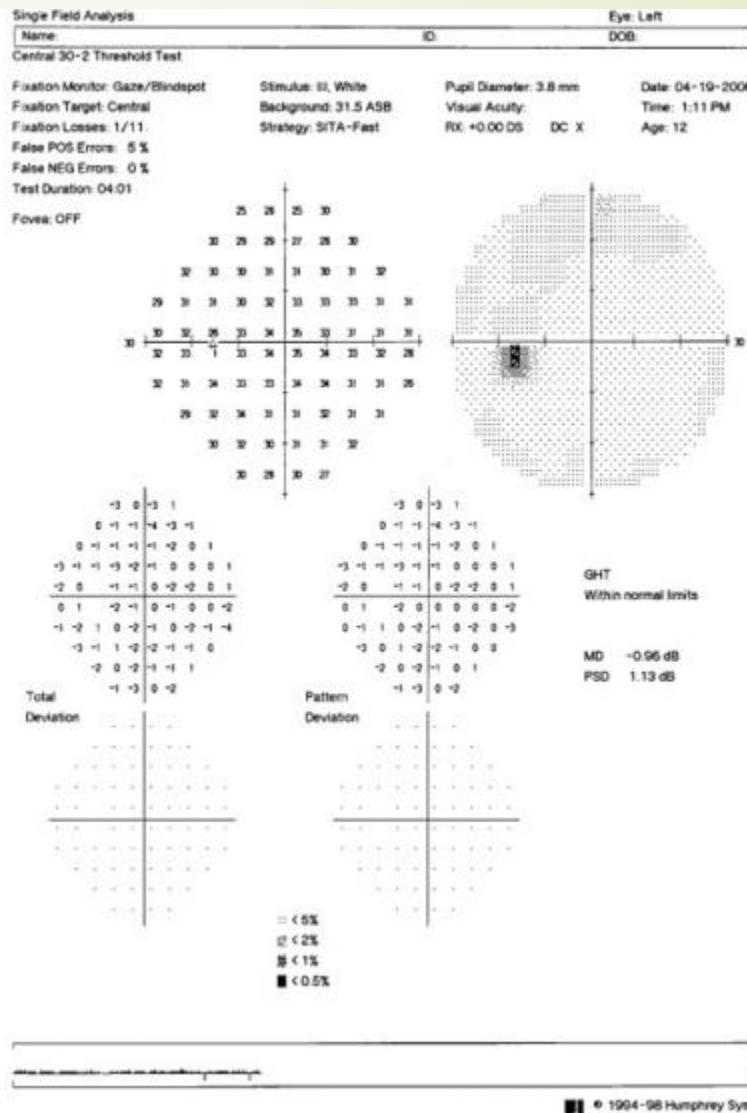
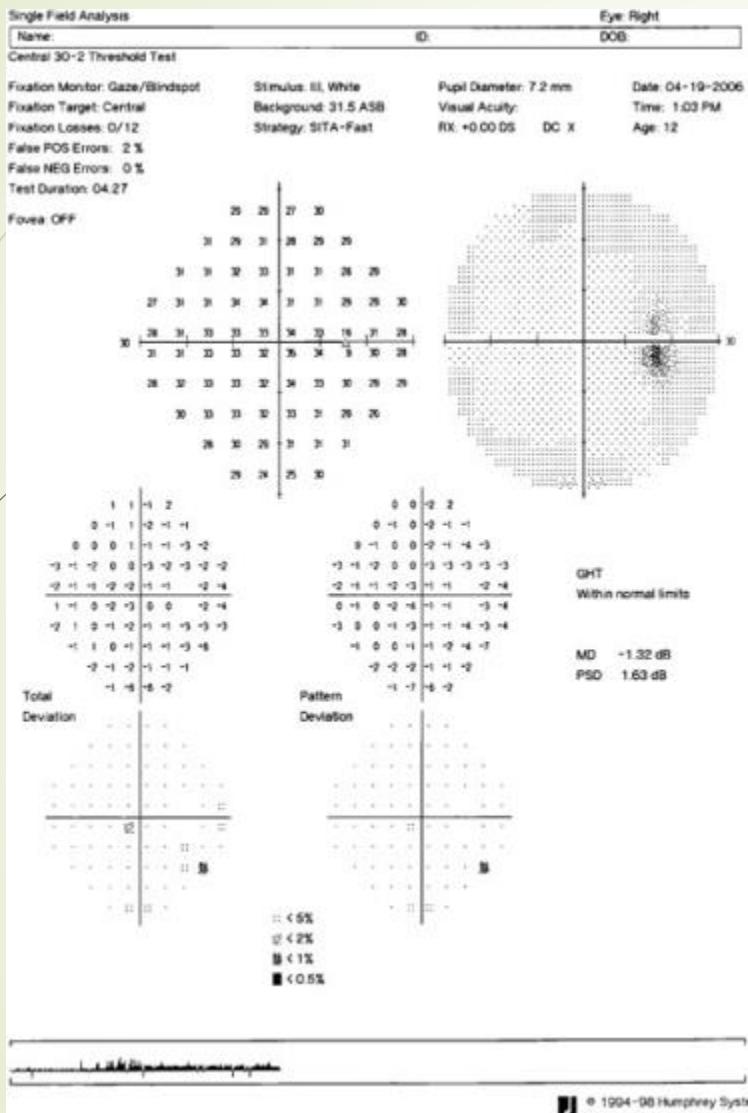




Confrontation visual field exam



Humphrey automated perimetry
servingnature

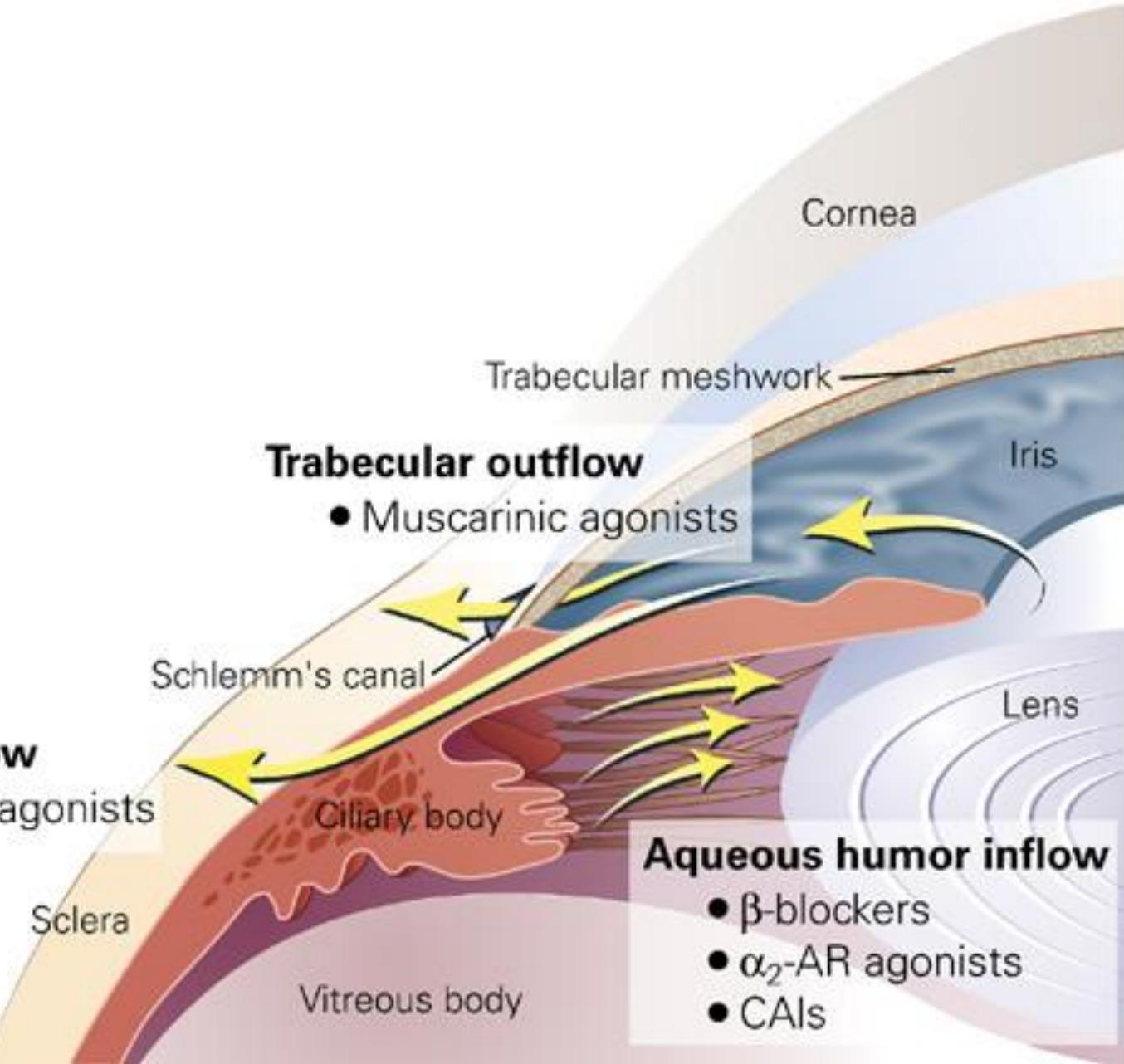


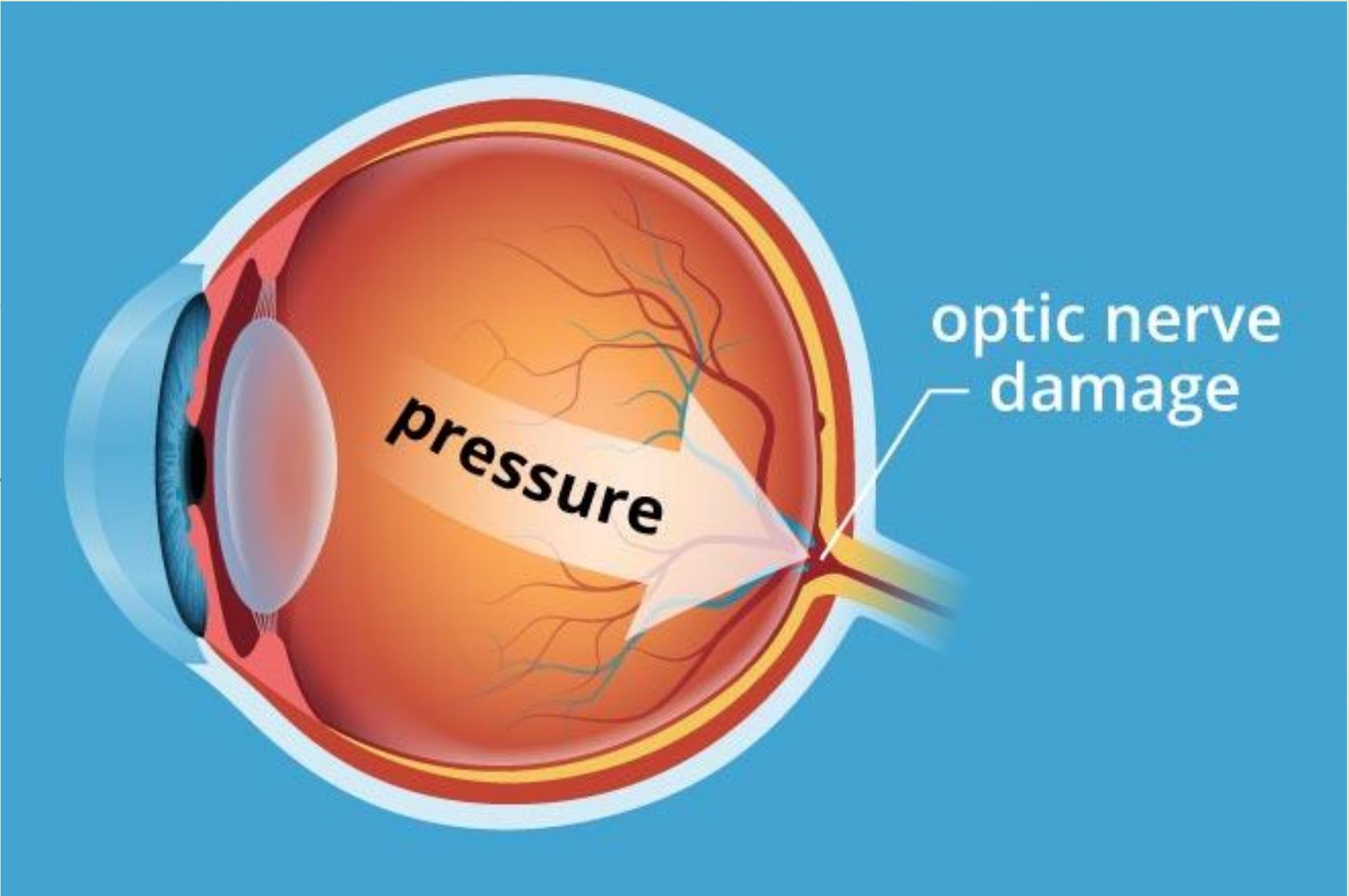
Uveoscleral outflow

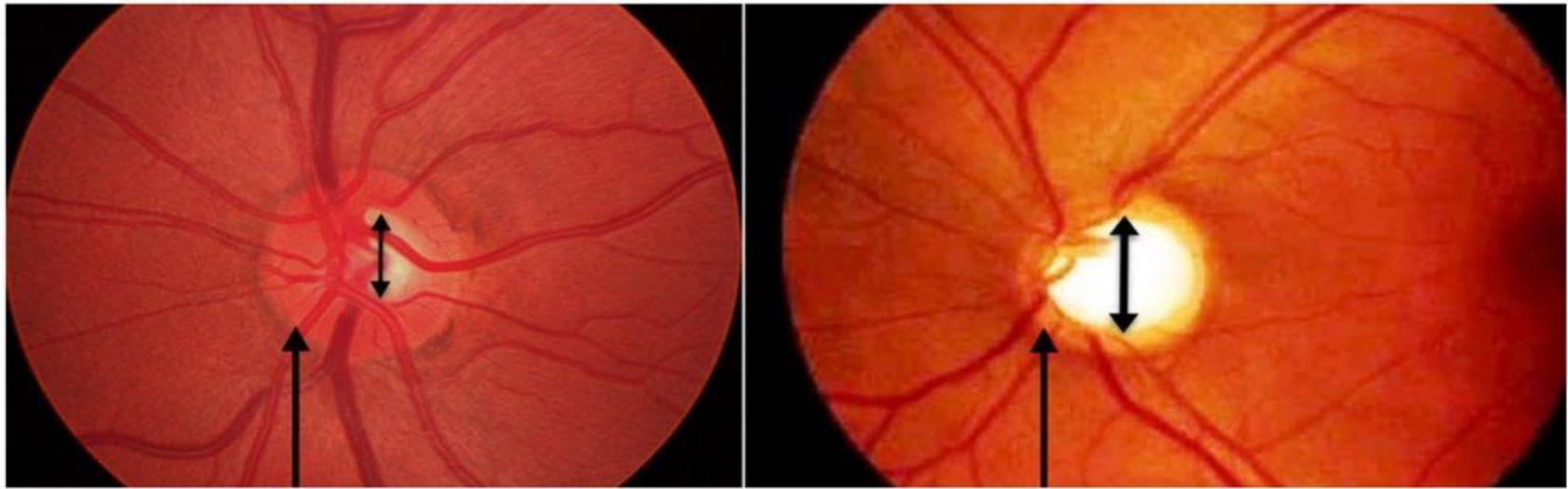
- Prostaglandin agonists

Trabecular outflow

- Muscarinic agonists

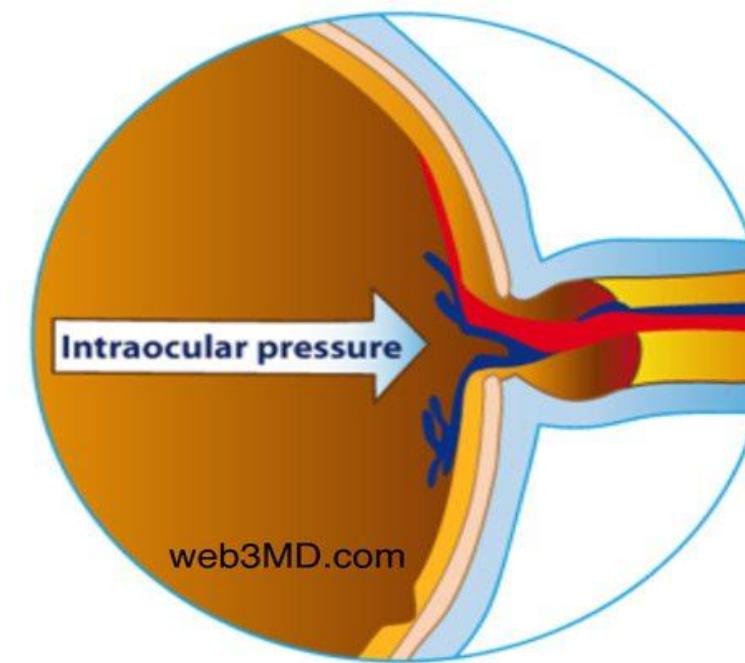
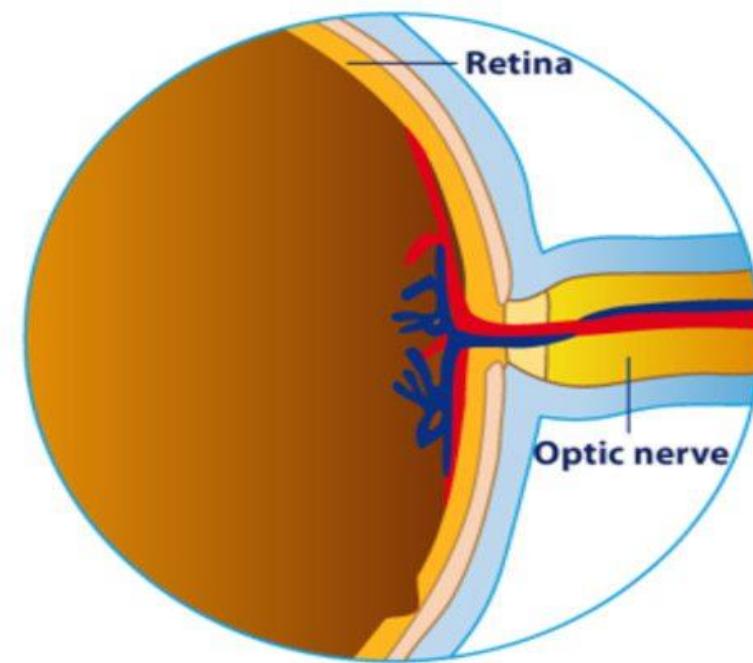




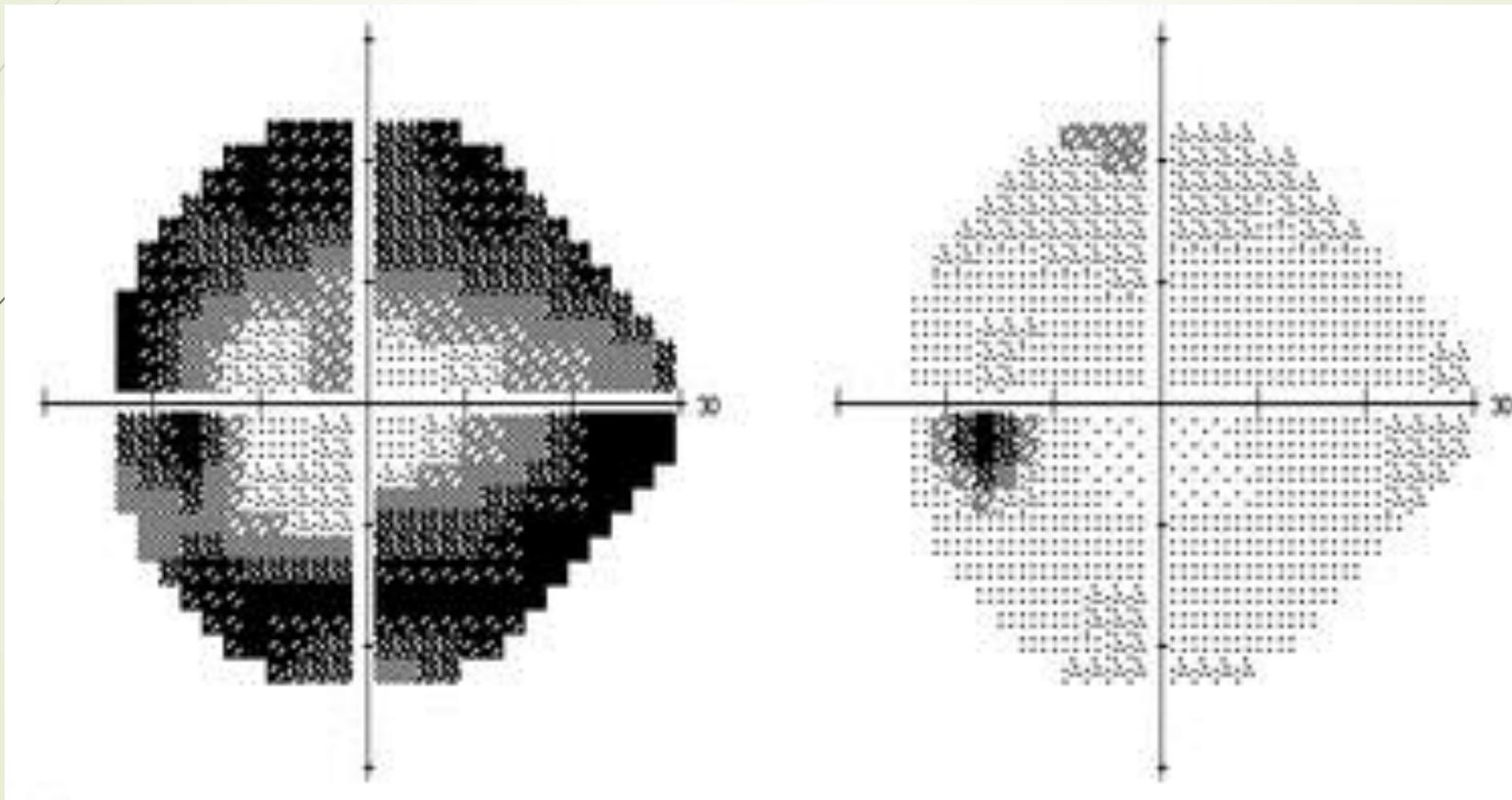


Healthy eye with a normal optic nerve head

Glaucoma eye with glaucomatous cupping of the the nerve head



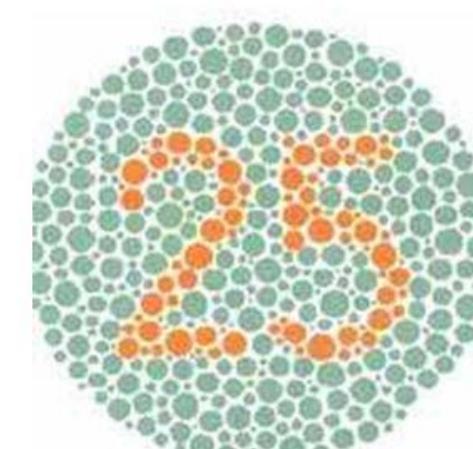
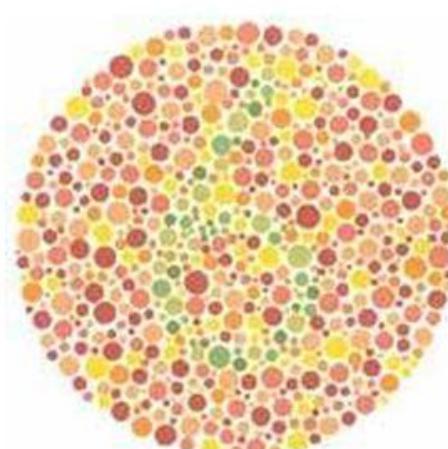
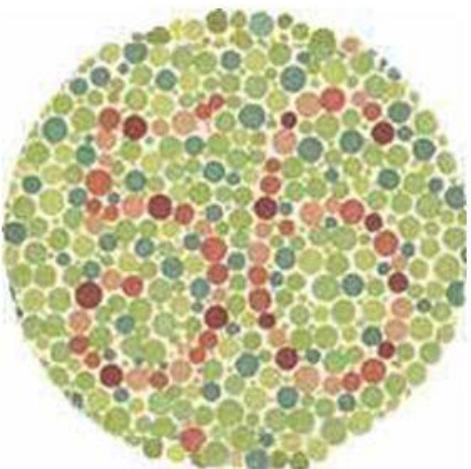
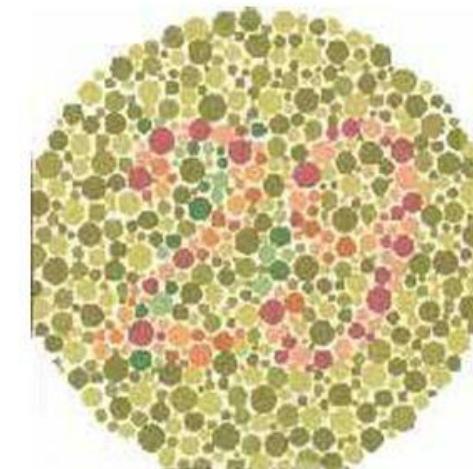
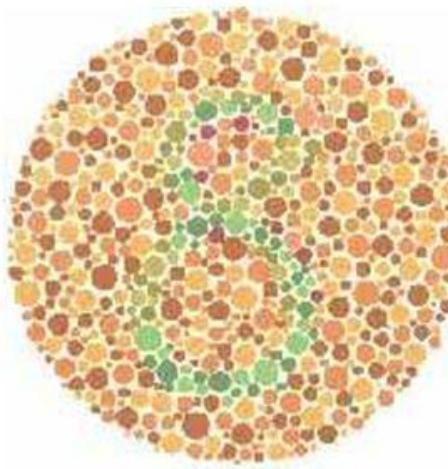
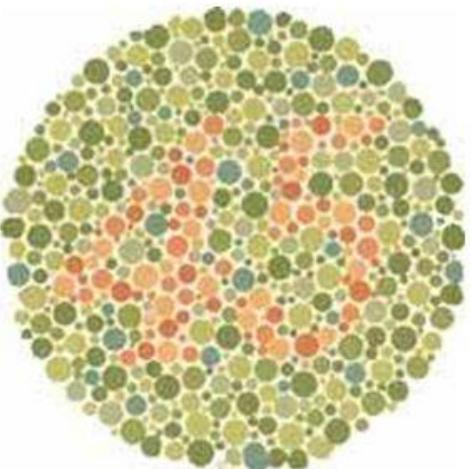
Advanced glaucoma

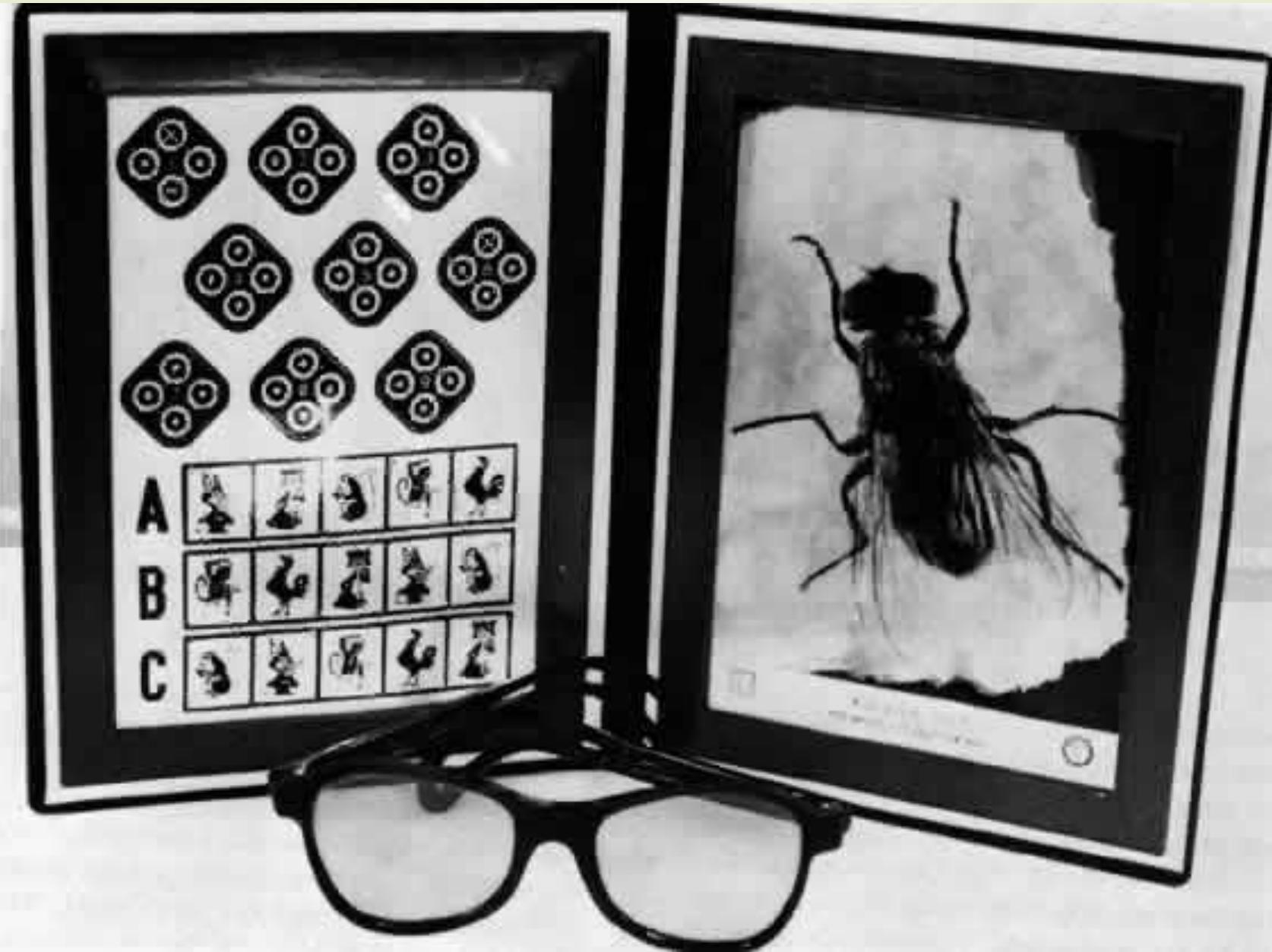


Tunnel Vision



Ishihara test for color blindness







V R S K D R
N H C S O K
S C N O Z V
C N H Z O K
N O D V H R
C D N Z S V
K C H O D K
R S Z H V R

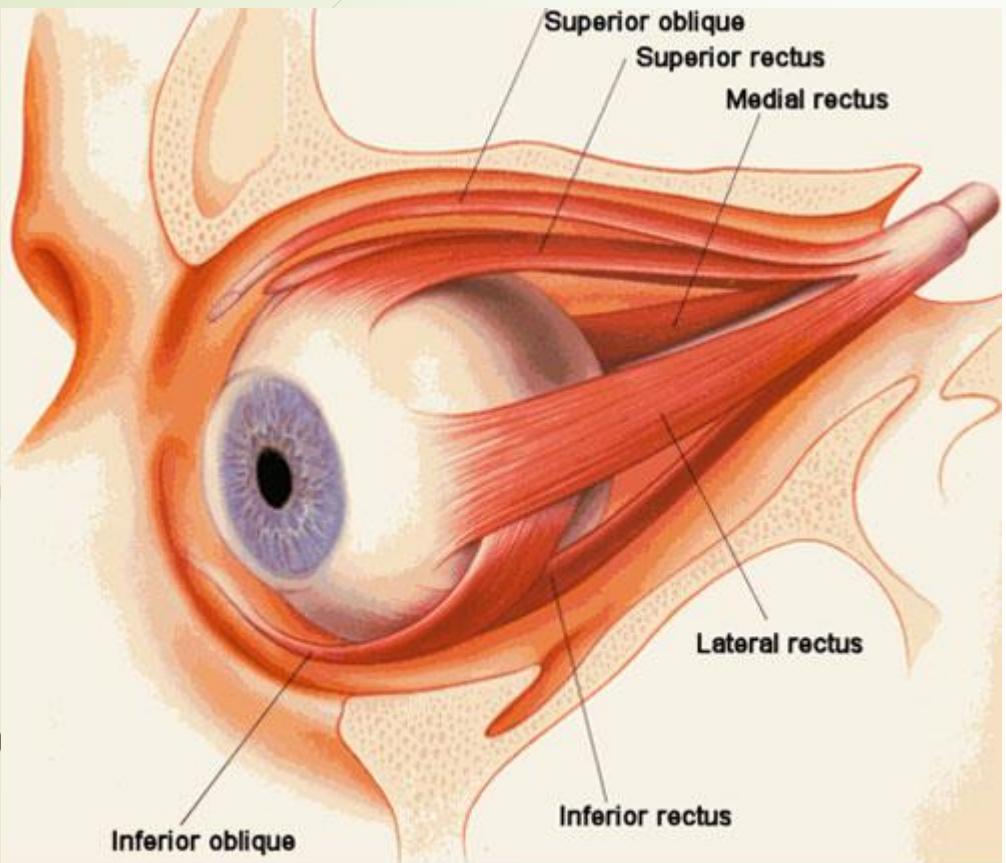
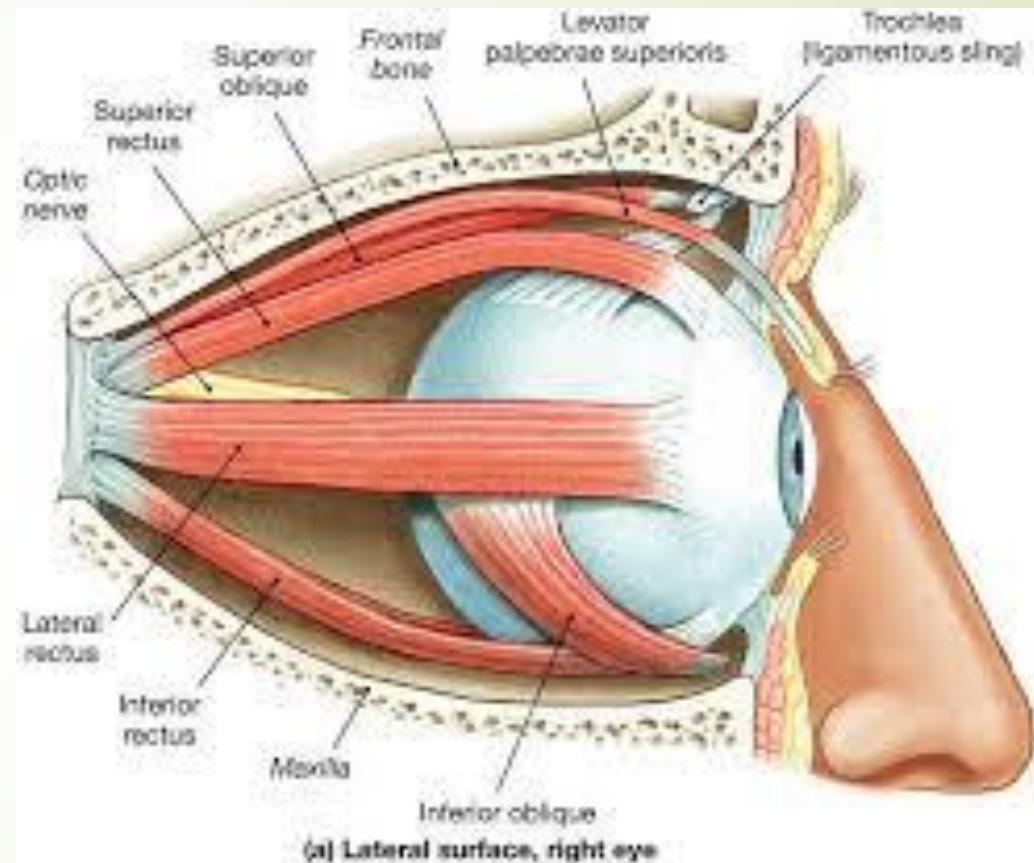


Fig. 1 Extraocular Muscle Anatomy



(a) Lateral surface, right eye

Ocular Motility Examination

Right and Up



Up



Left and Up



Right



Primary Position



Left



Right and Down



Down



Left and Down



Pupillary Examination





RAPD

Consensual reflex - observe contralateral pupil GEEKYMEDICS.com

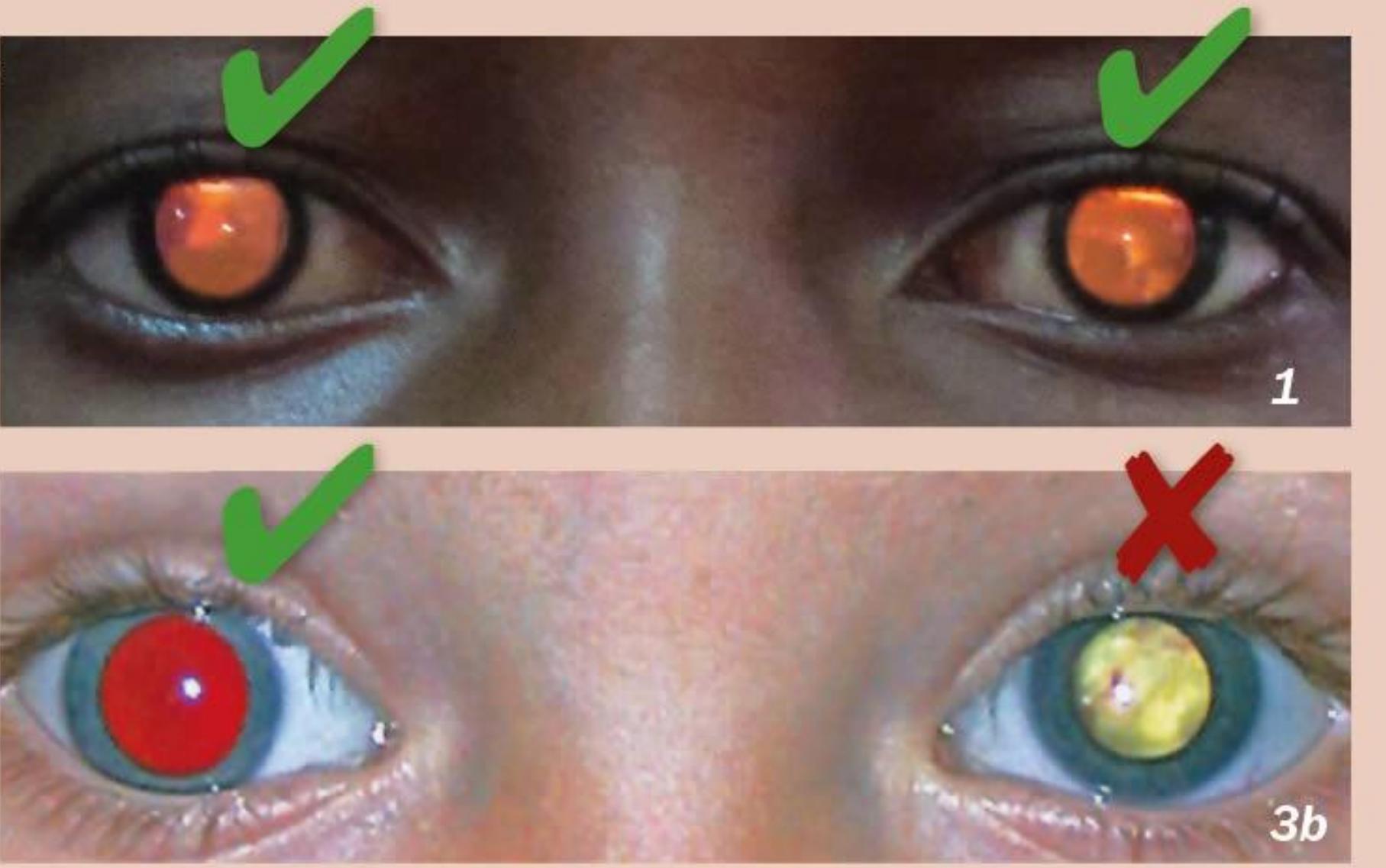


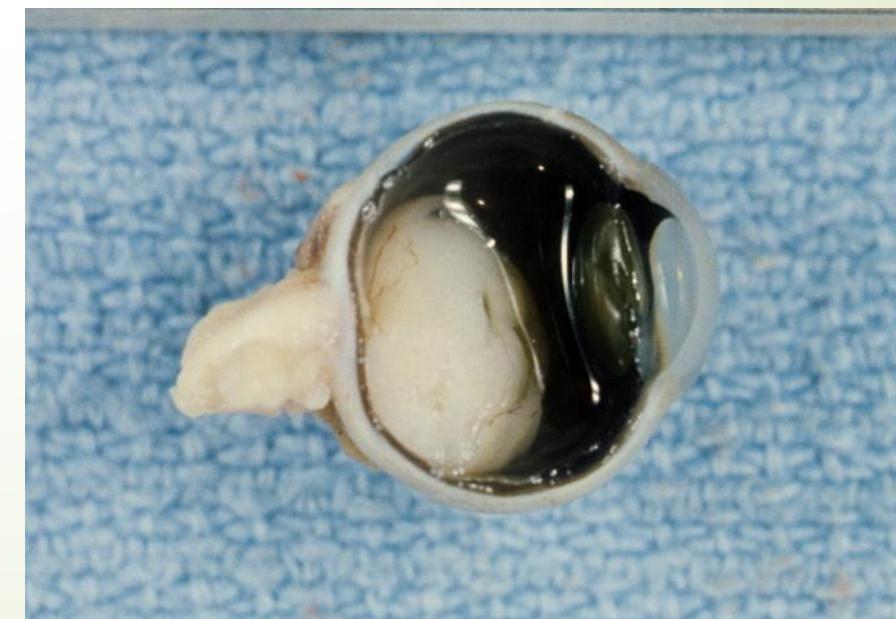
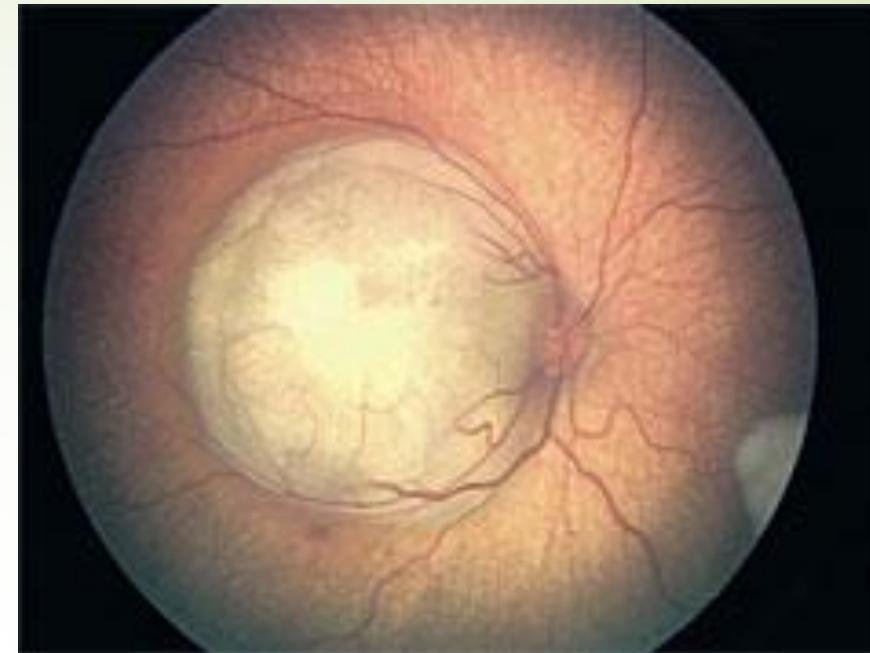
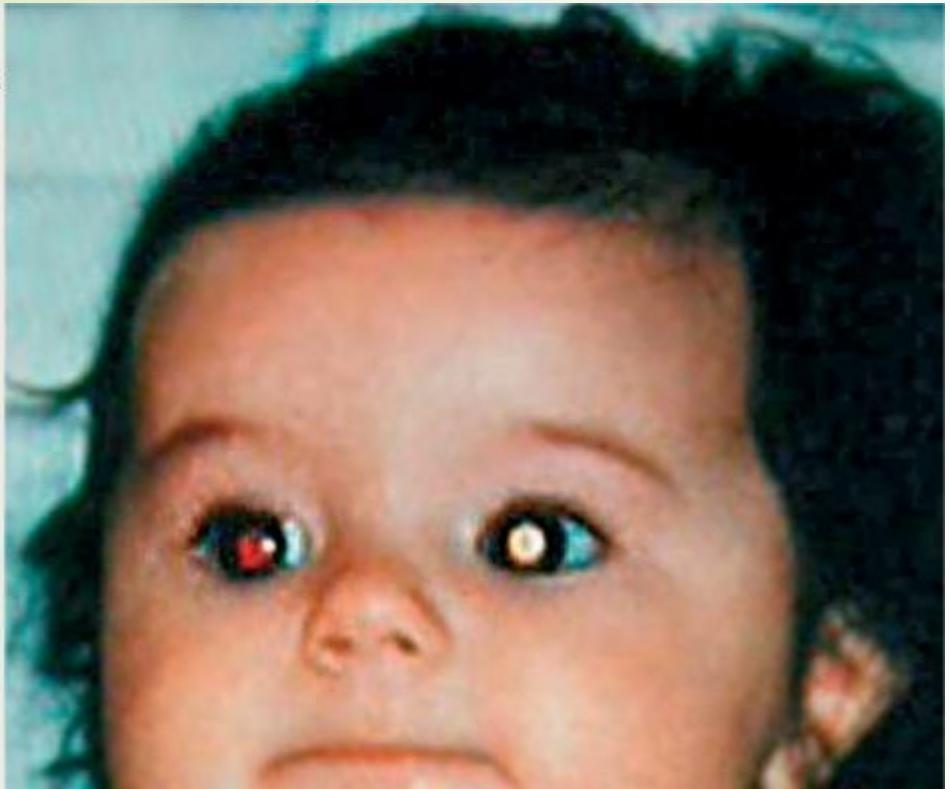
Corneal light reflex



© Childhood Eye Cancer Trust

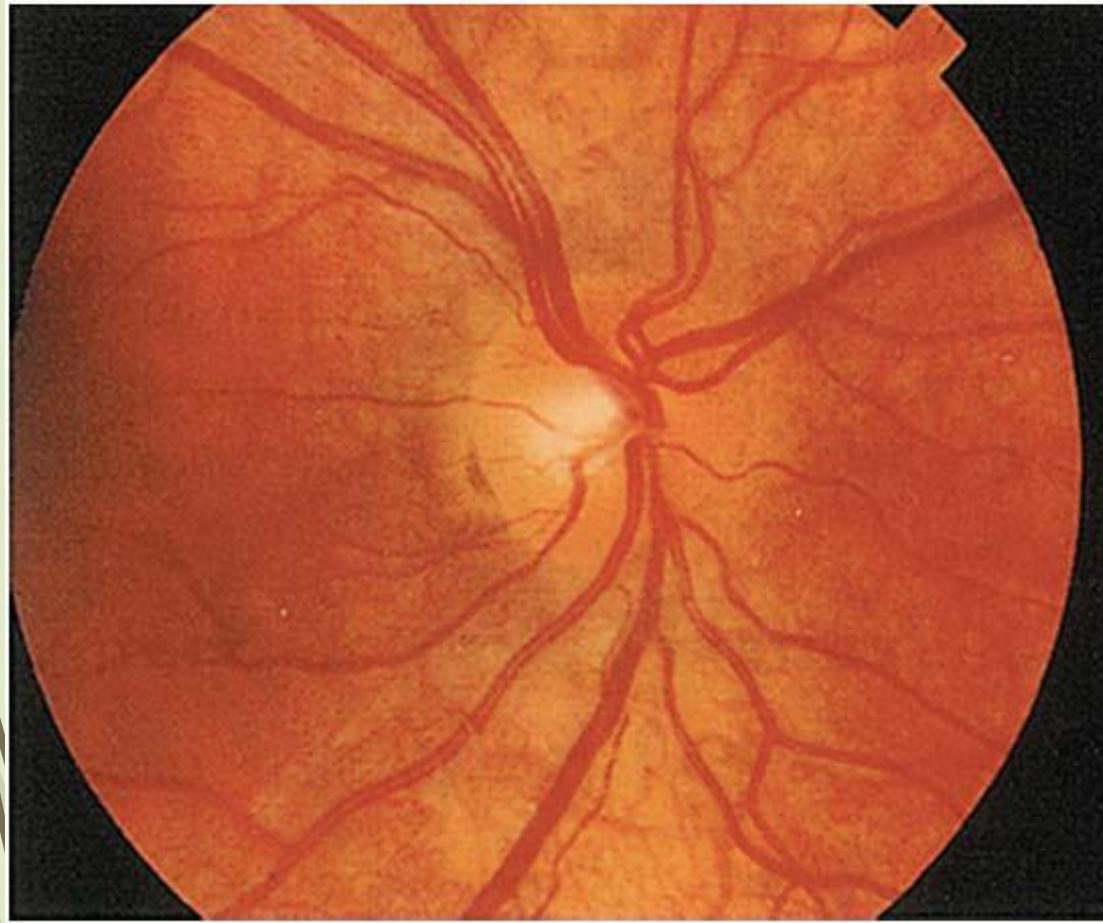
Heiko Philippin

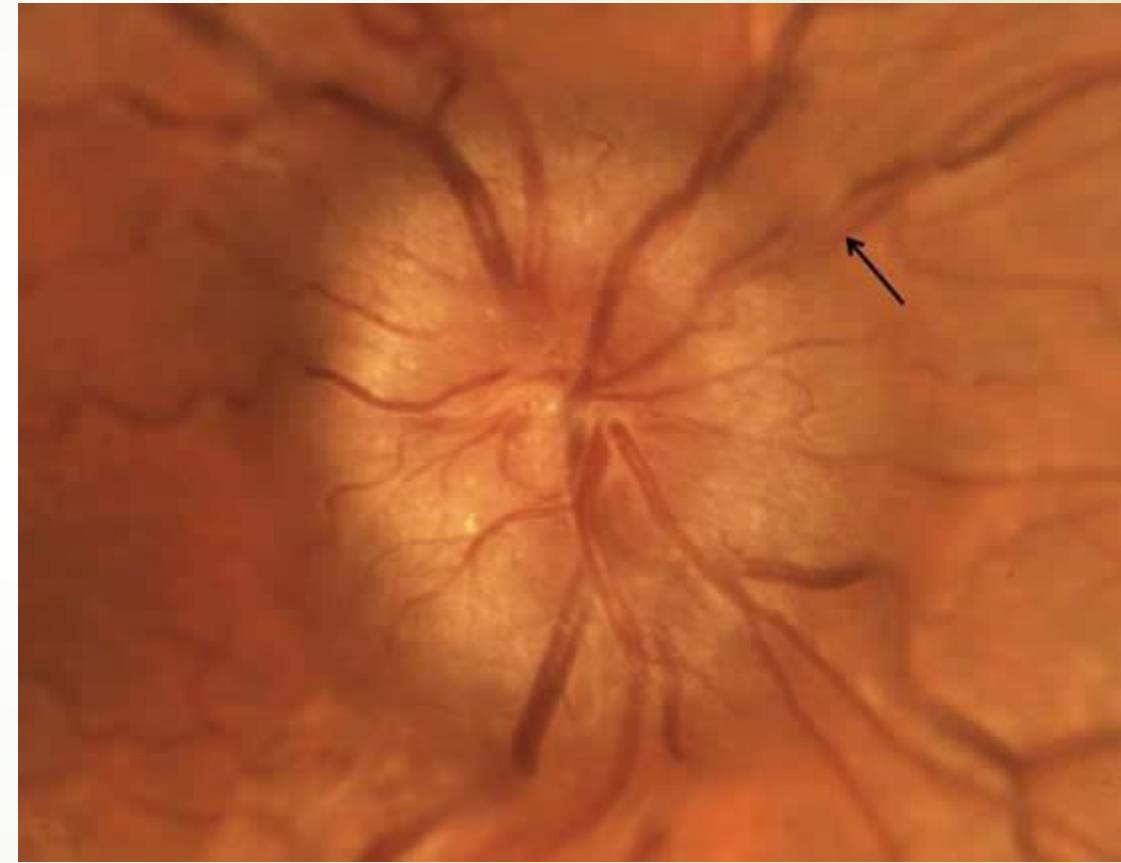
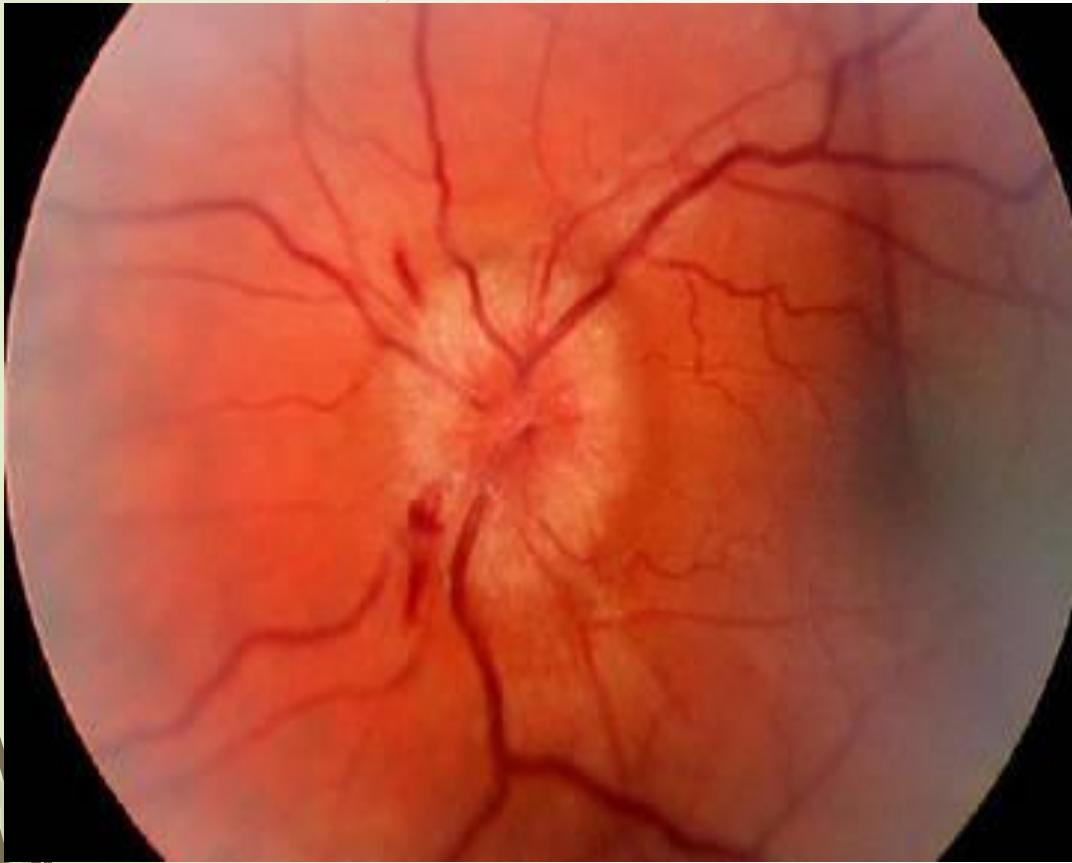


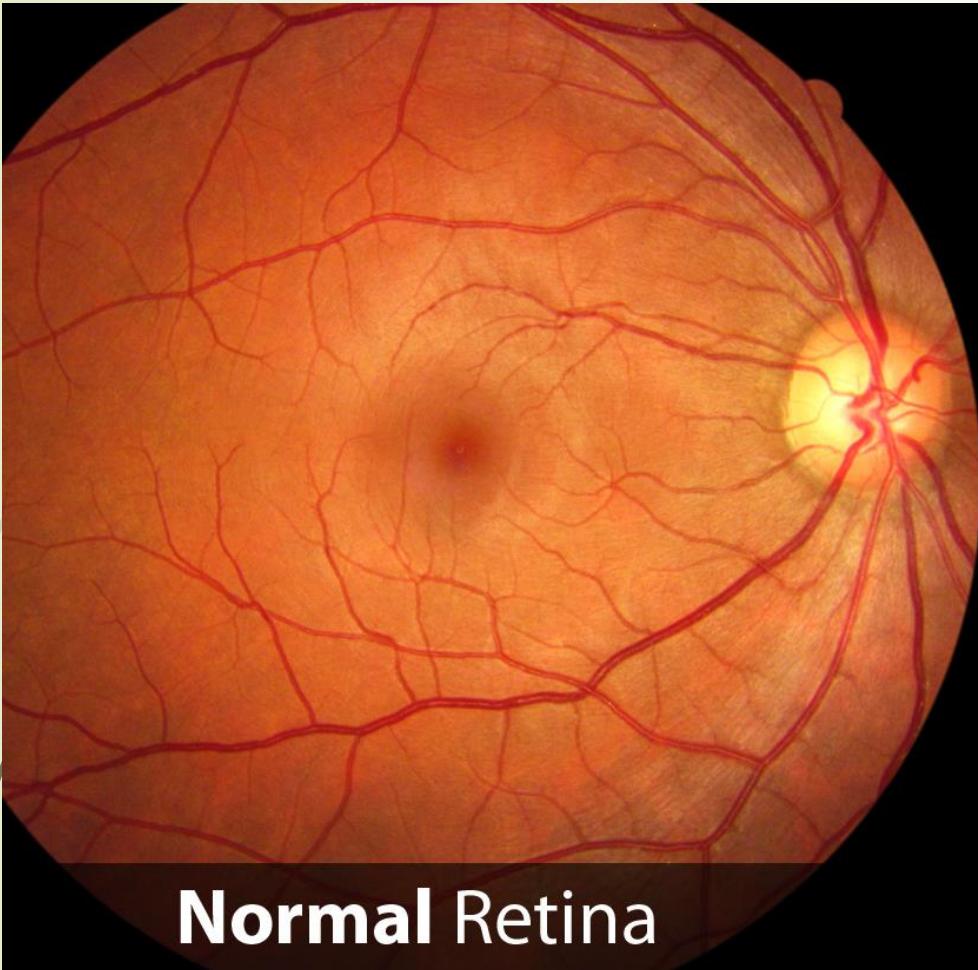


Direct Ophthalmoscope

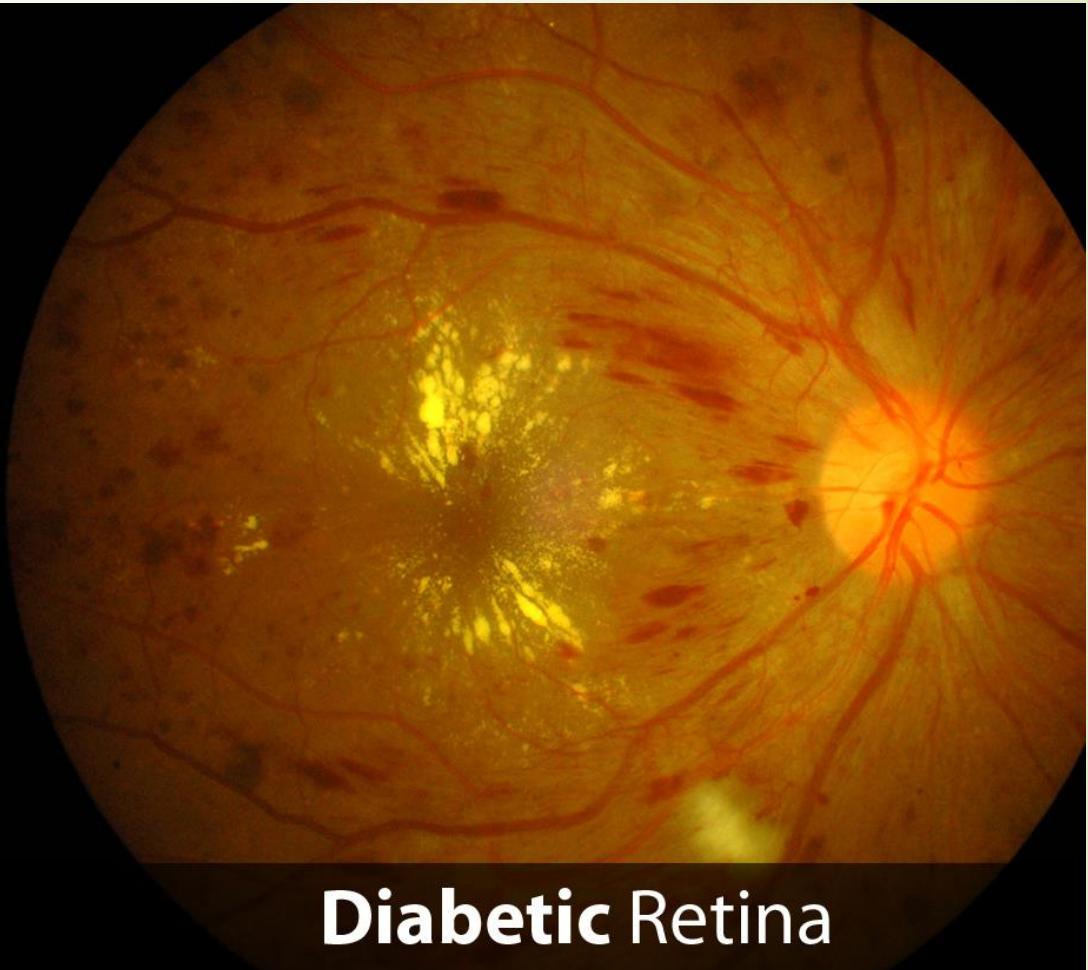




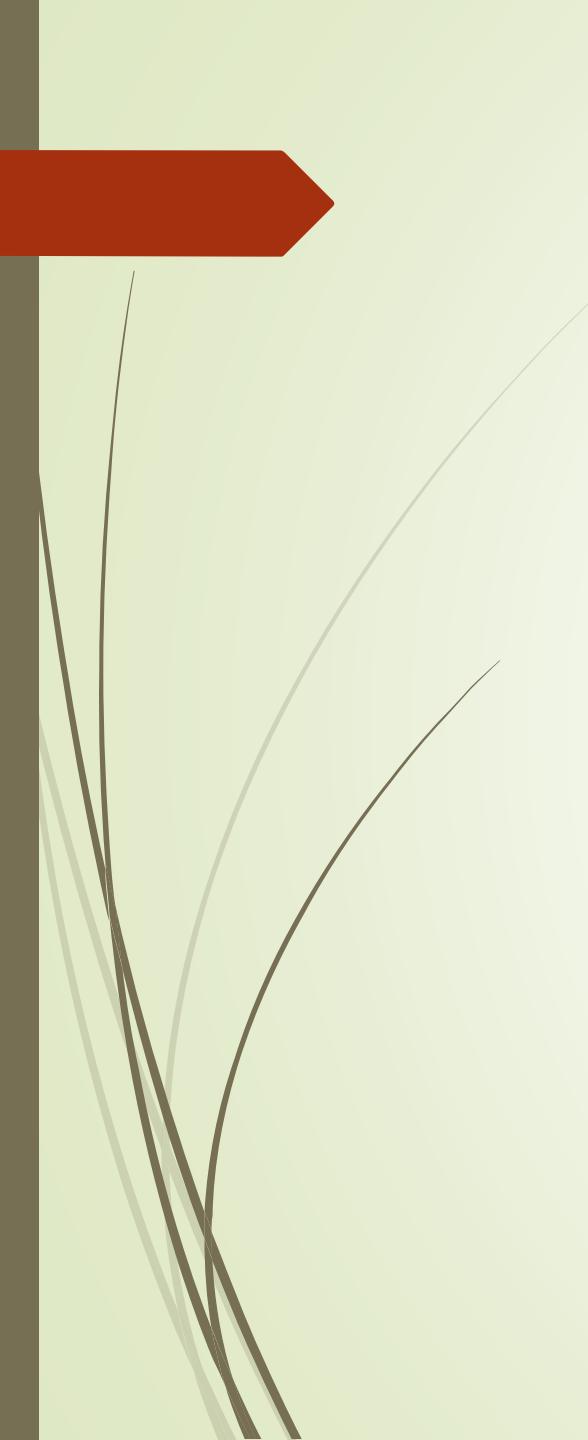




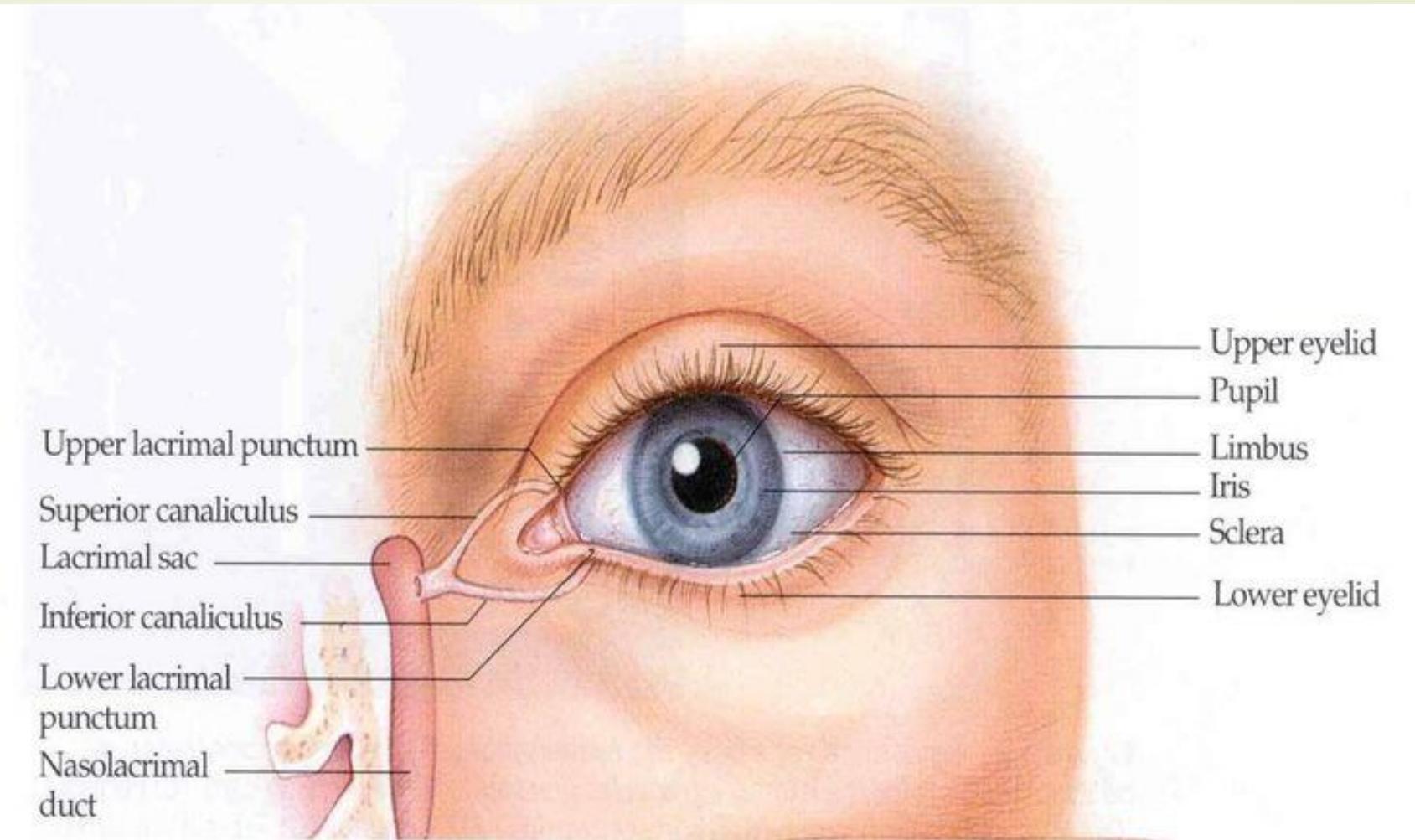
Normal Retina

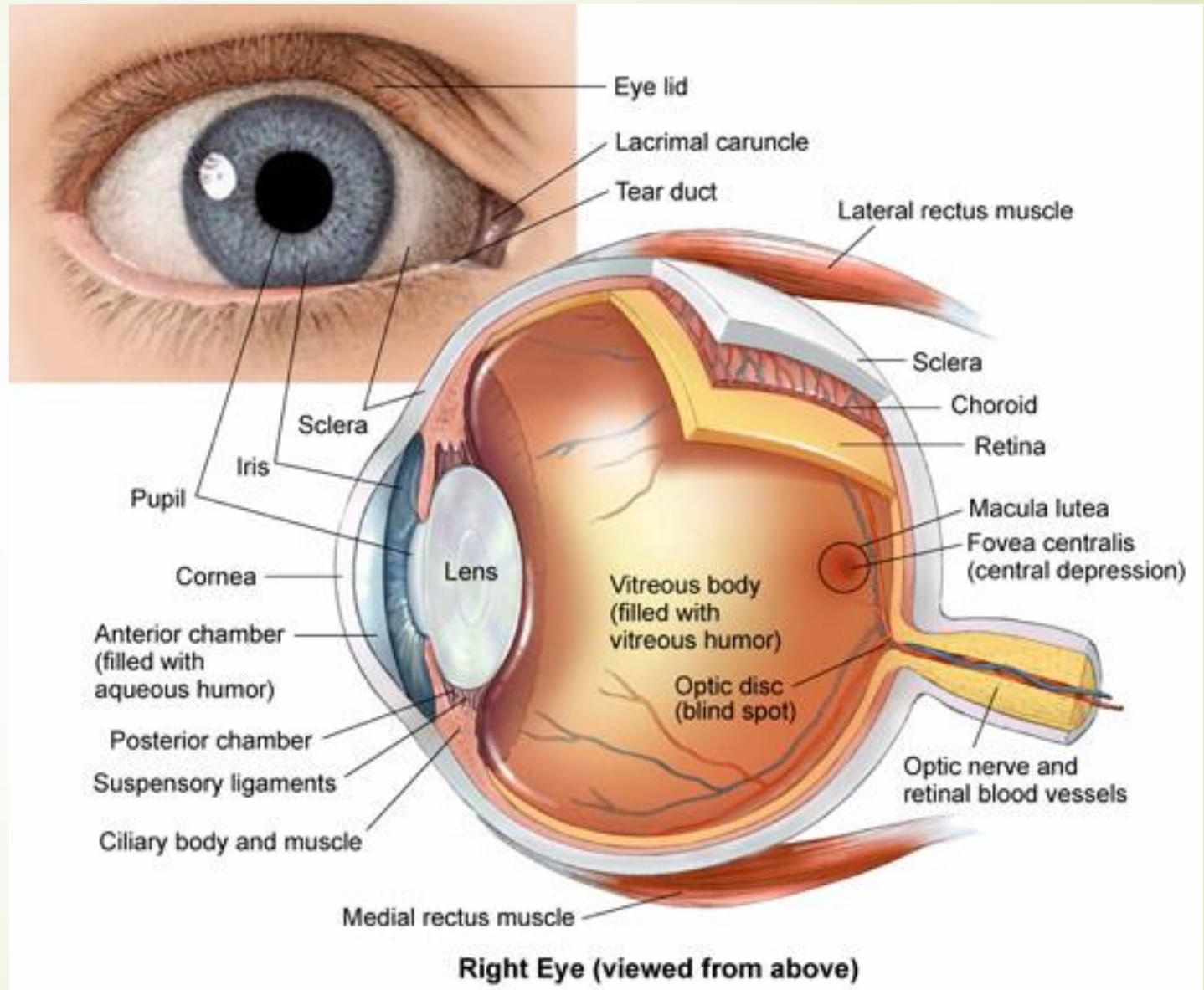
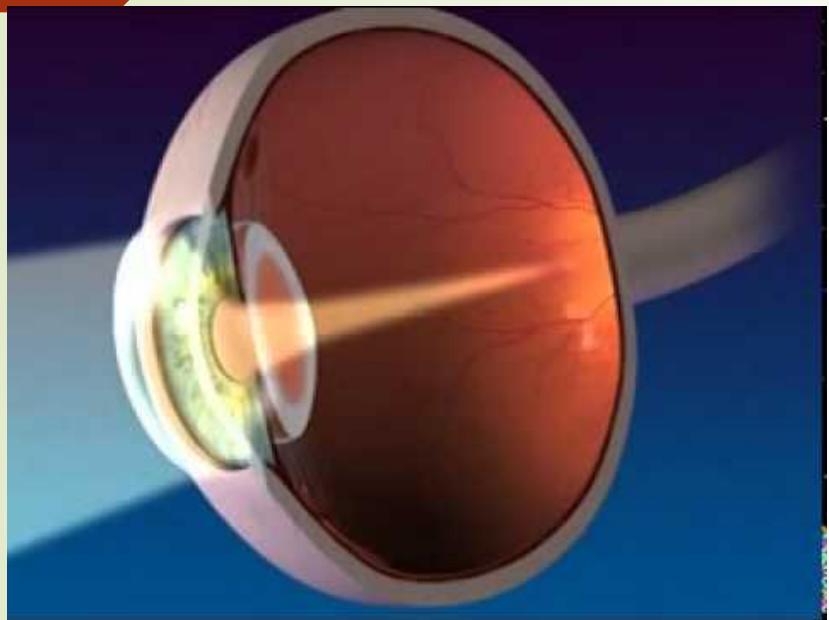


Diabetic Retina



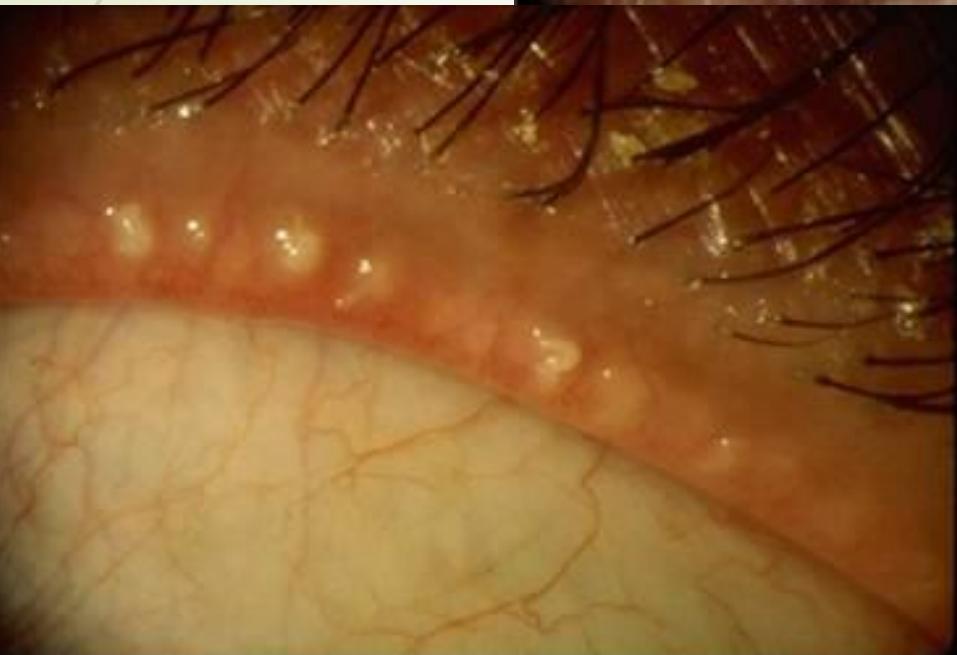
External Examination





Hordeolum

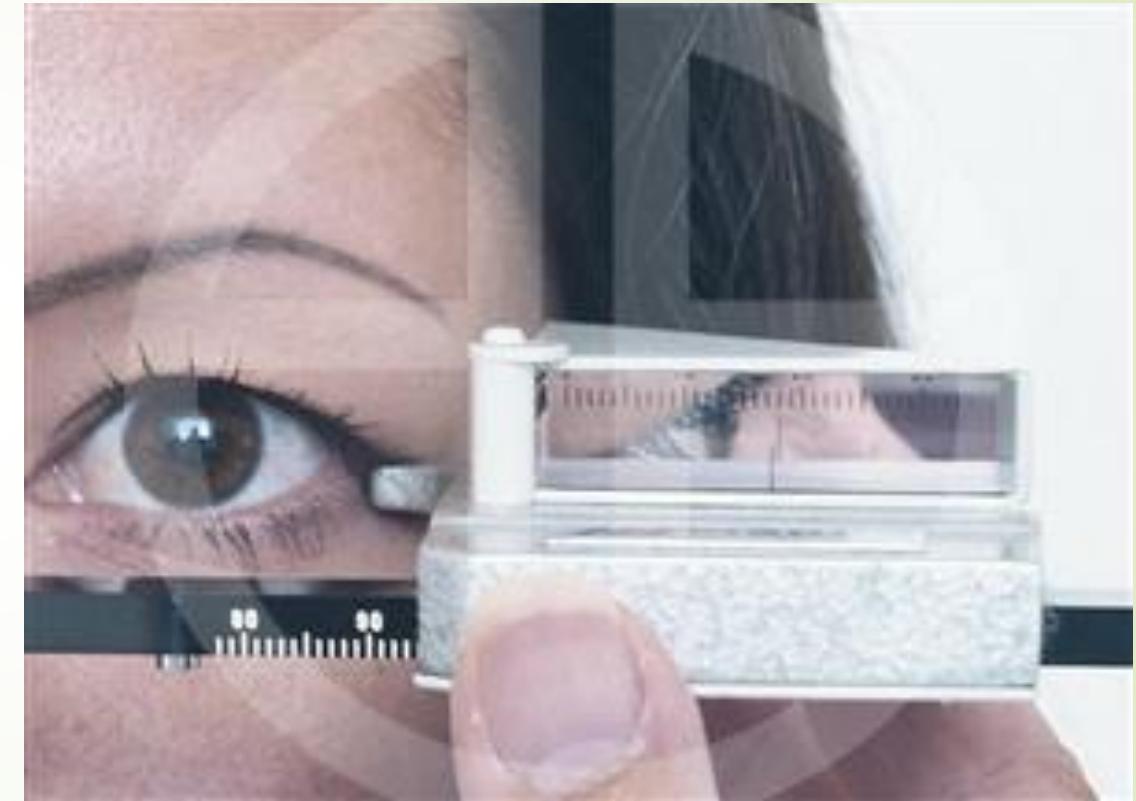




proptosis



Exophthalmometer



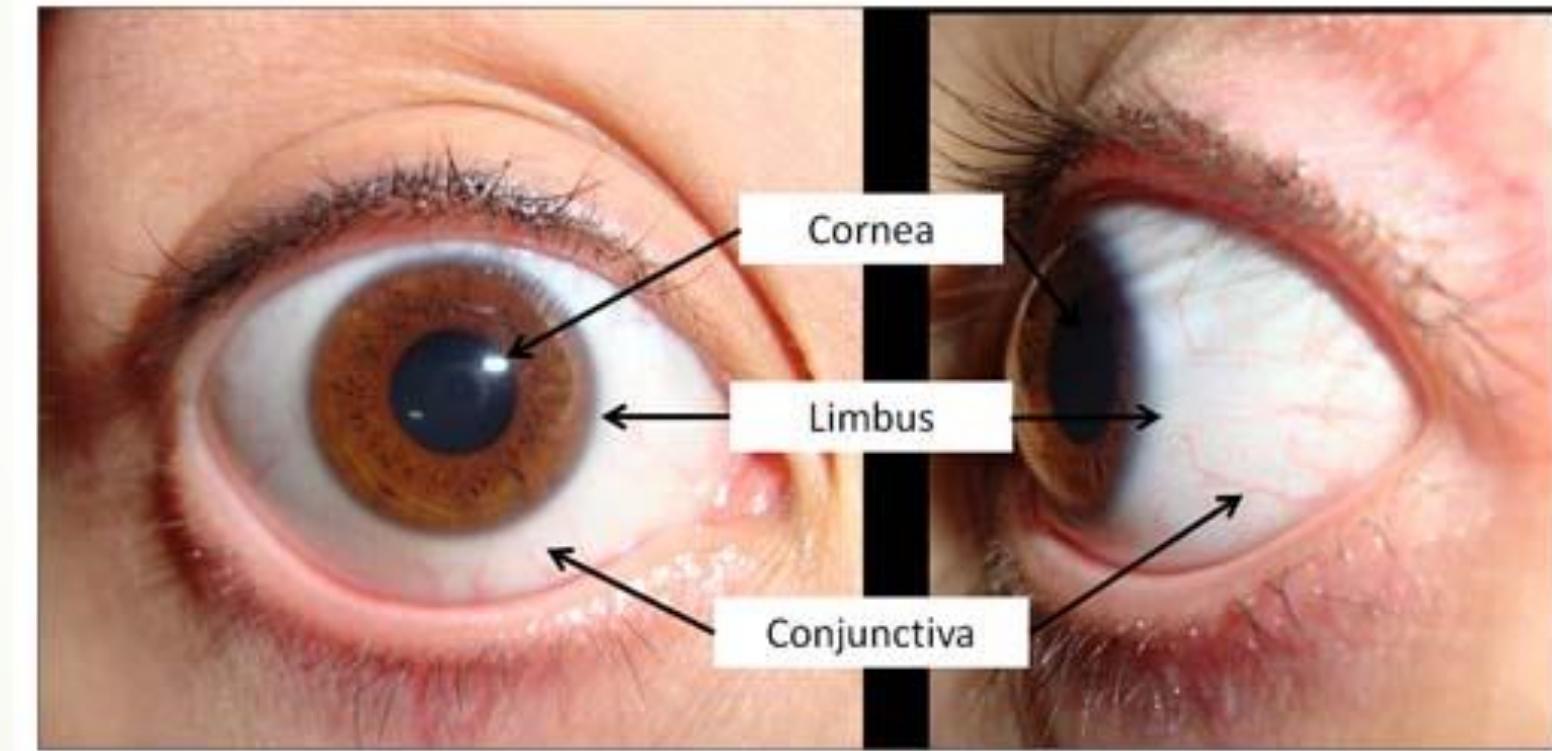
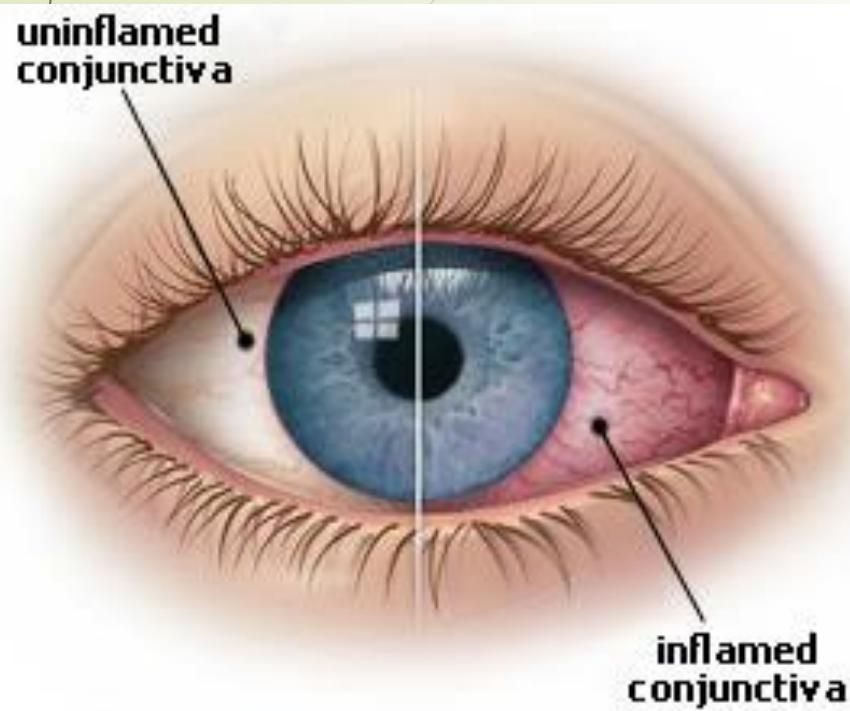
Lid Retraction



Strabismus

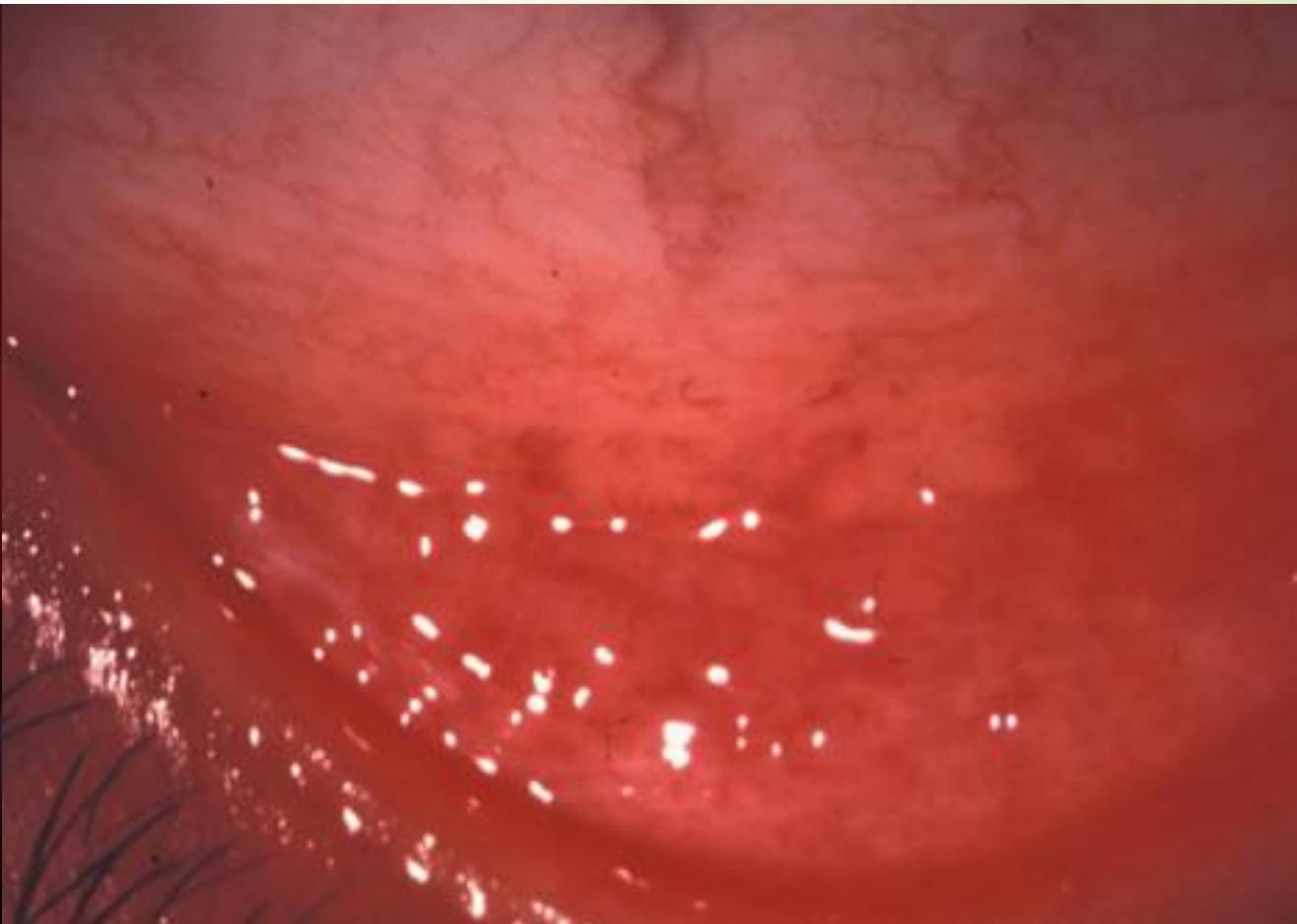
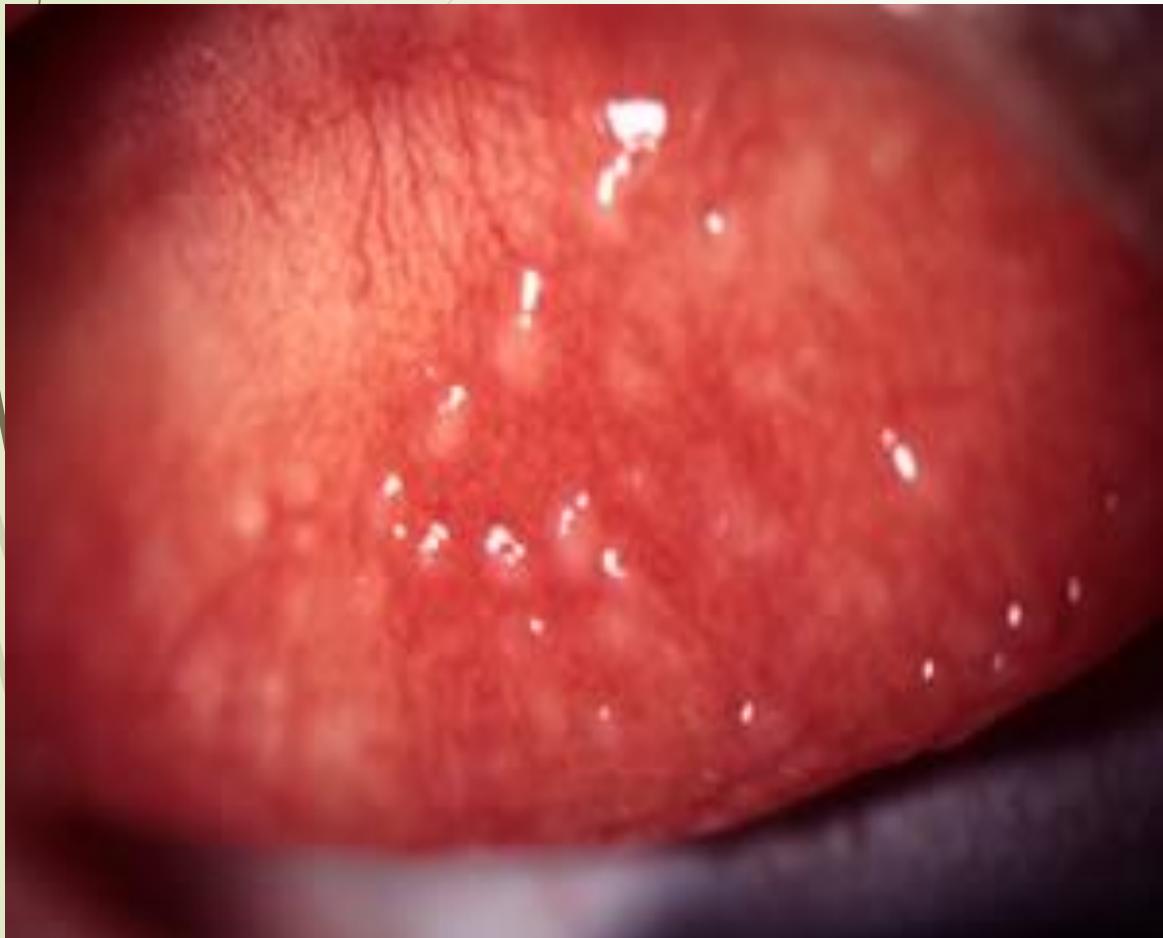


Exotropia Left





Viral Conjunctivitis



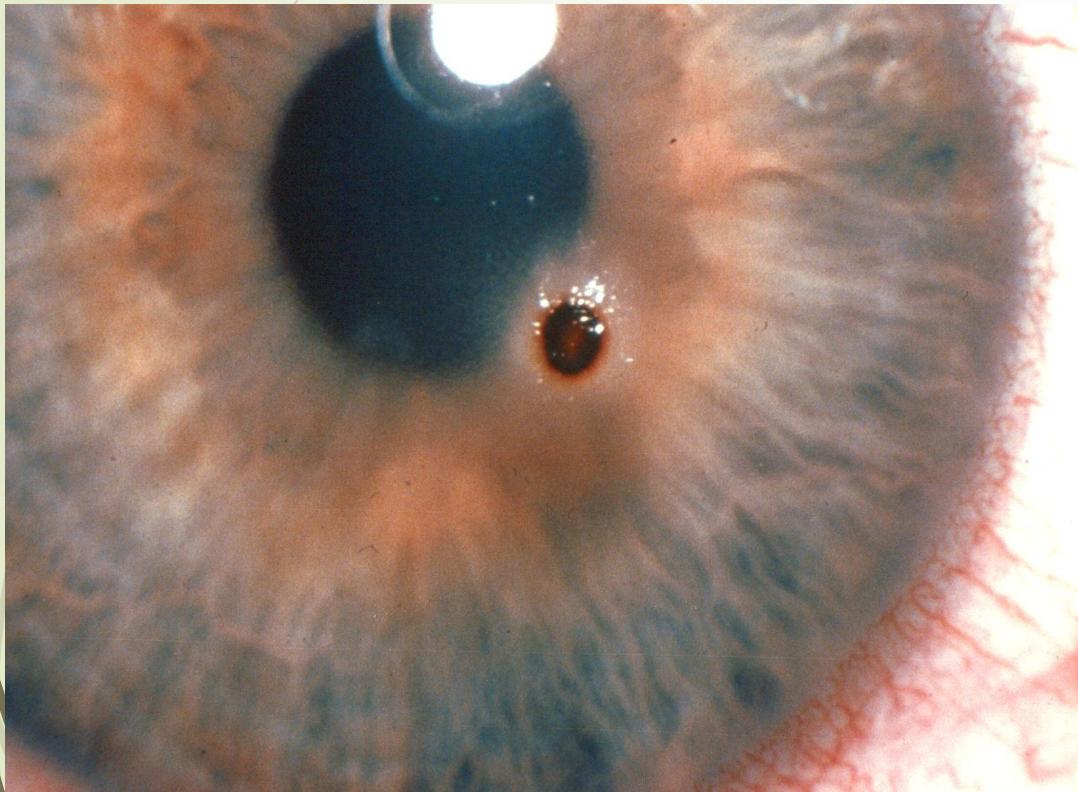
Allergic conjunctival chemosis



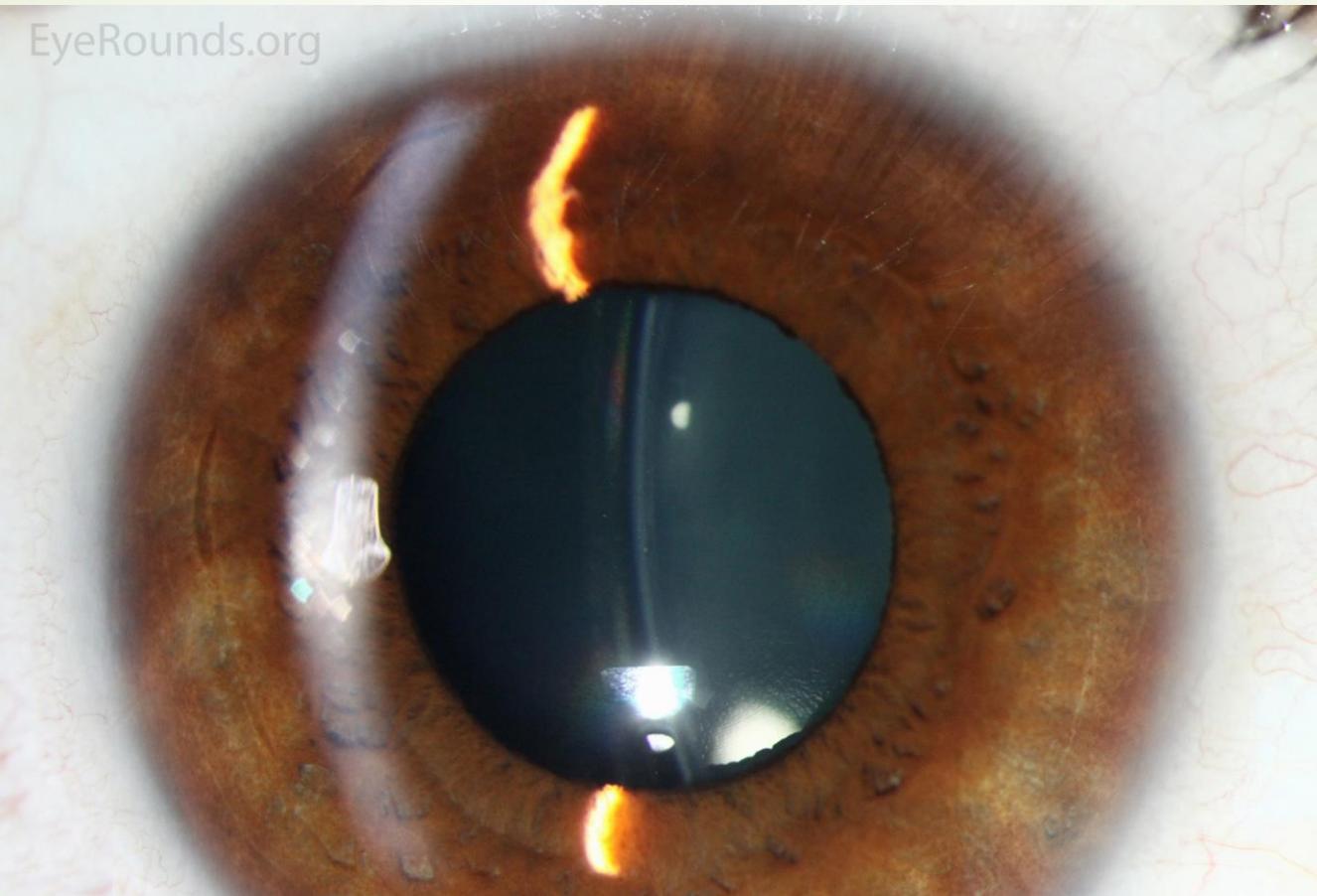
Subconjunctival hemorrhage



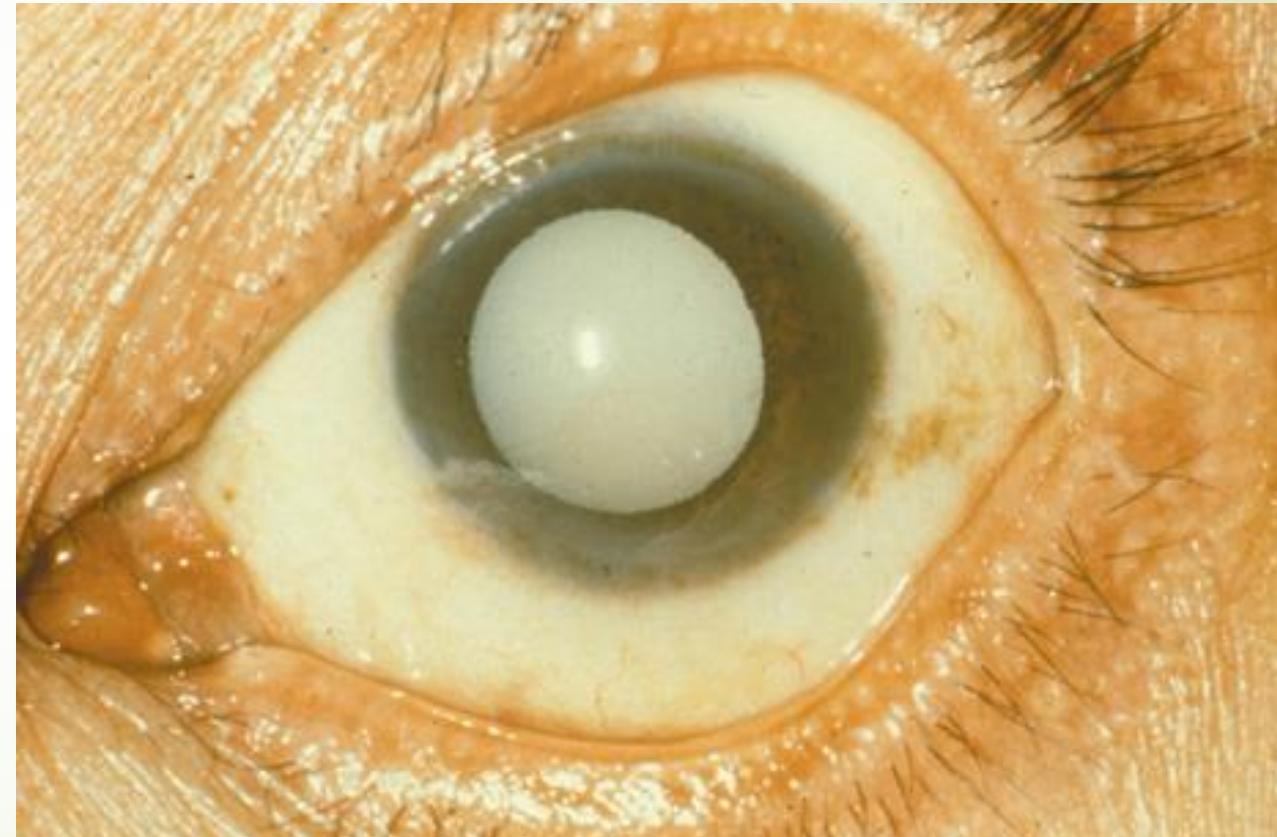
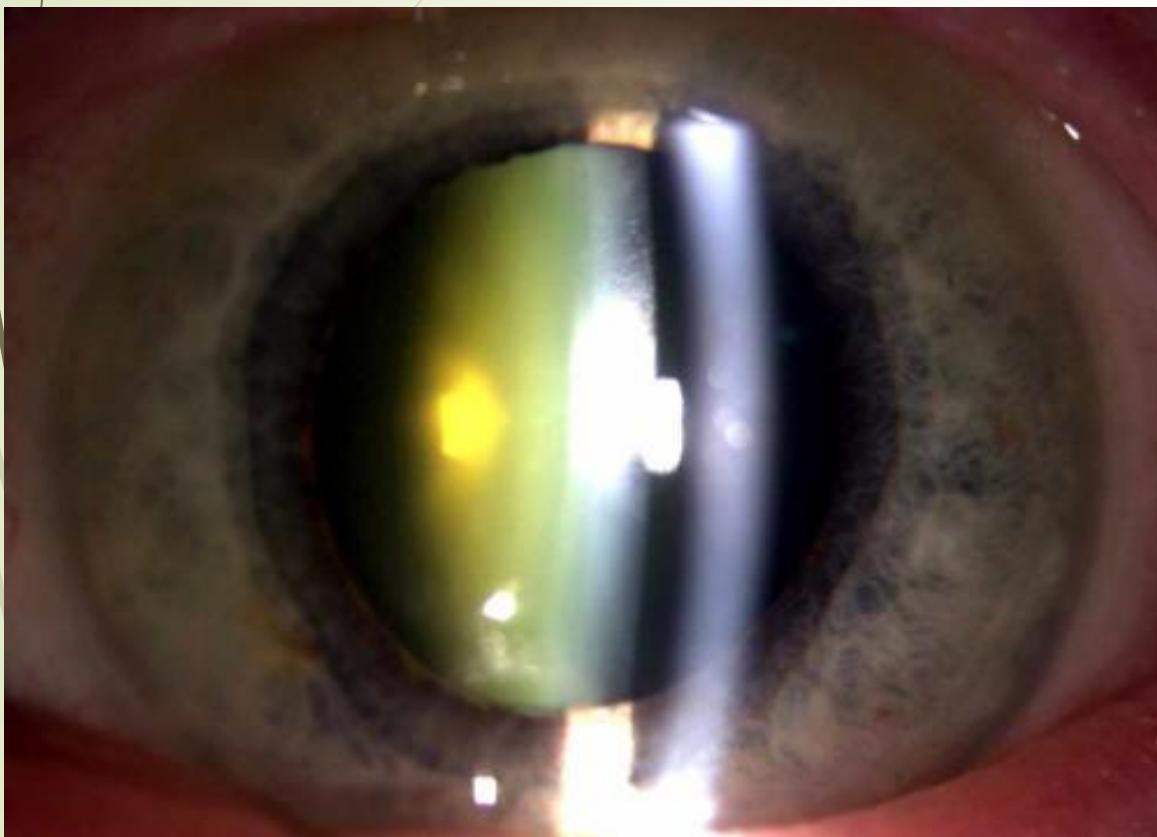
Foreign Body



Crystalline Lens



Cataract



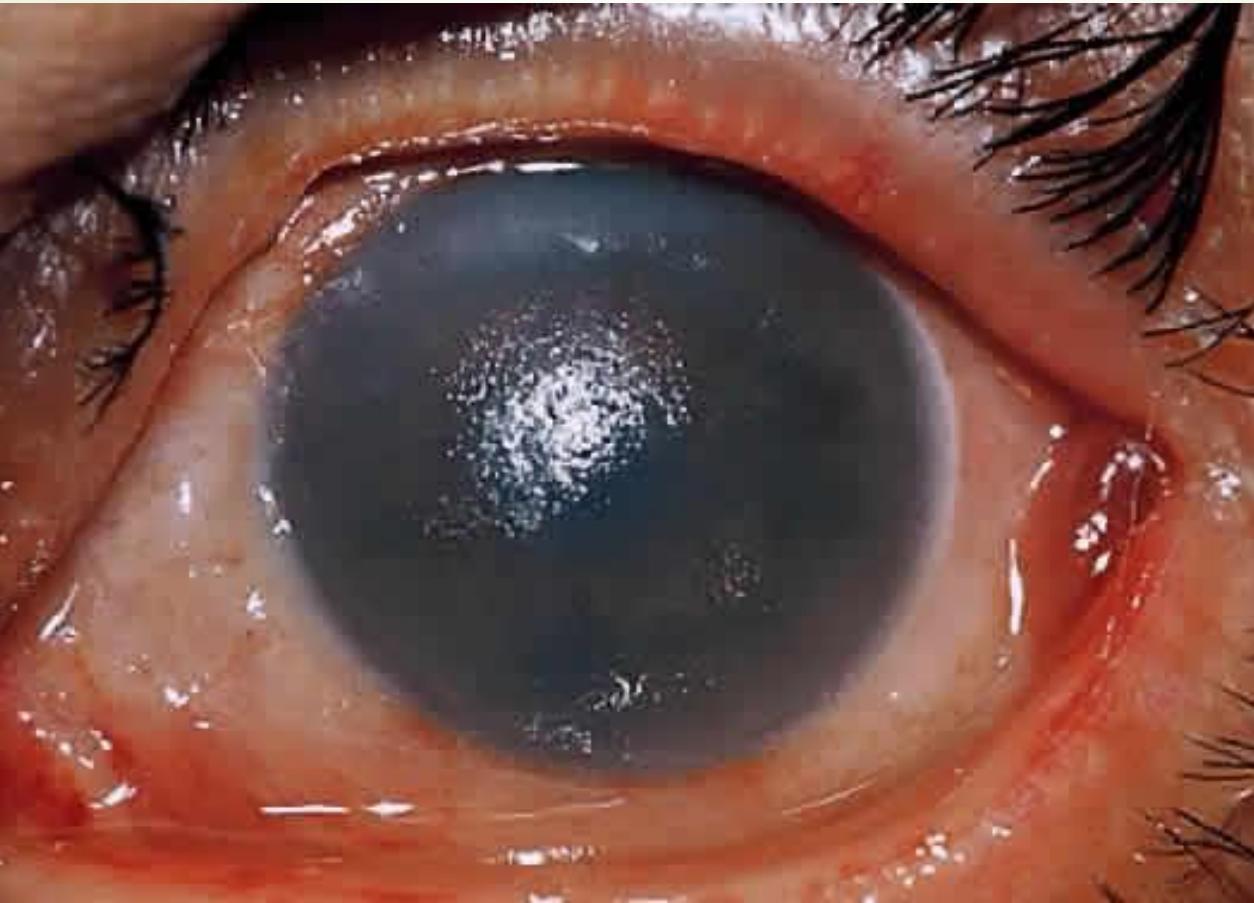


Ophthalmic Emergencies

Acute Angle Closure Glaucoma

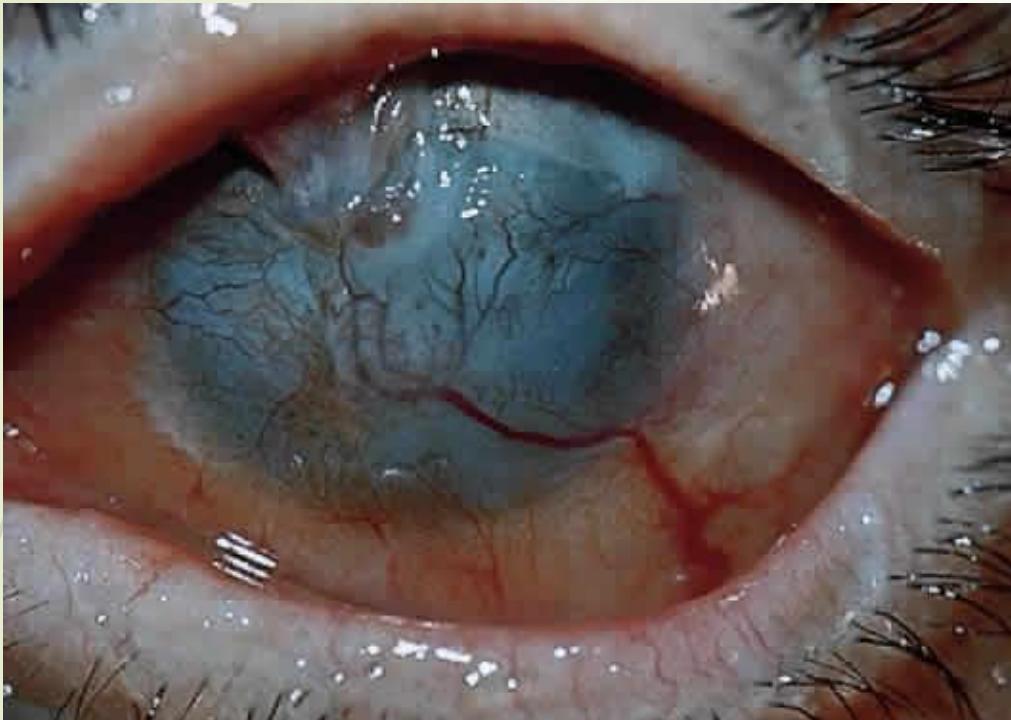


Ocular Chemical Burn

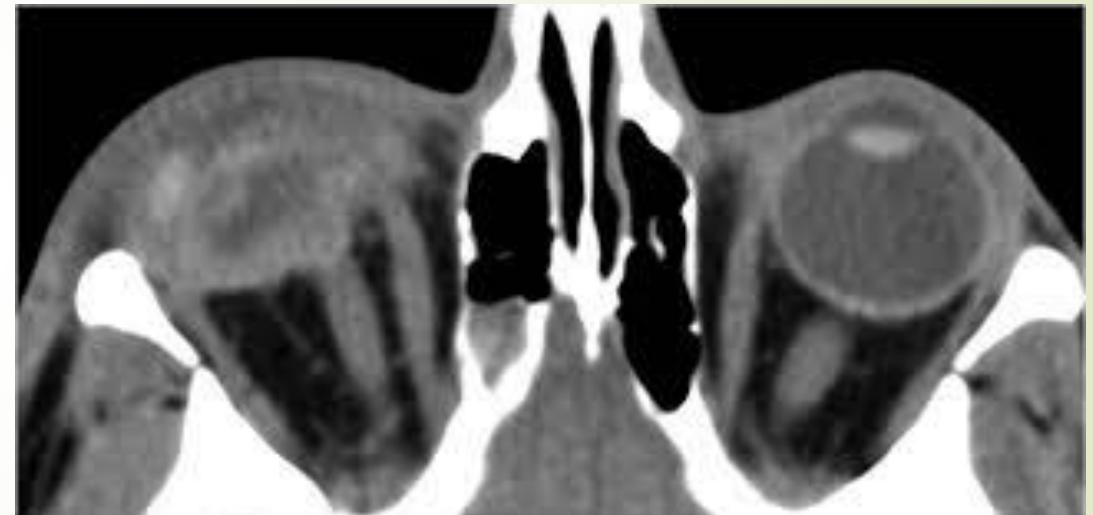


Irrigation





Globe Rupture







Thank you for your
attention!