

بسم الله الرحمن الرحيم



أولاً

نقدم شكر خاص للدكتور : مدحت طه



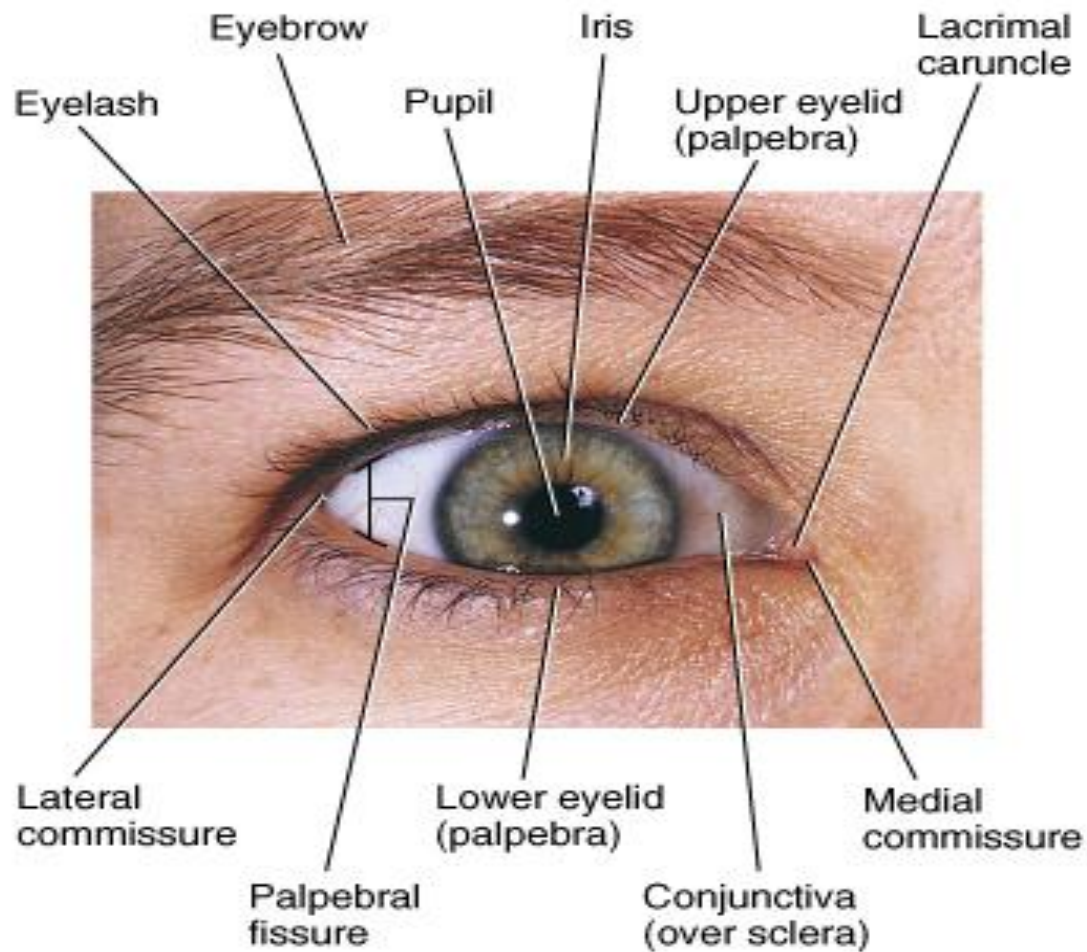
The anatomy of eye



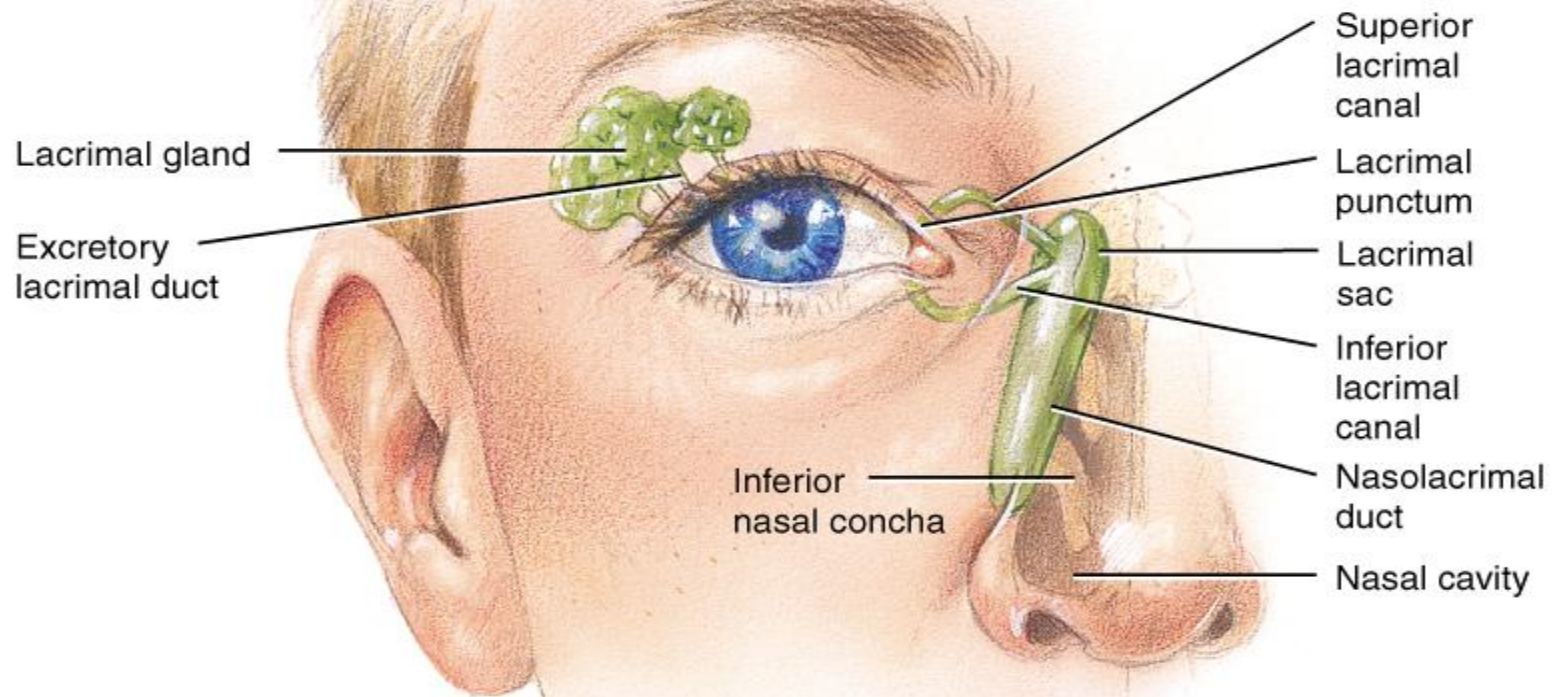
The objectives

- **External Anatomy of the Eye**
- **Lacrimal Apparatus of the Eye**
- **Anatomy of the Eyeball**
- **Accessory structures of the Eye**
- **Internal Anatomy of the Eye**
- **Ophthalmoscopic view**

External Anatomy of the Eye



Lacrimal Apparatus of the Eye



(b) Anterior view of the lacrimal apparatus

Anatomy of the Eyeball

- **Fibrous Tunic:**

 - Cornea**

 - Sclera**

- **Vascular Tunic**

 - Choroid coat**

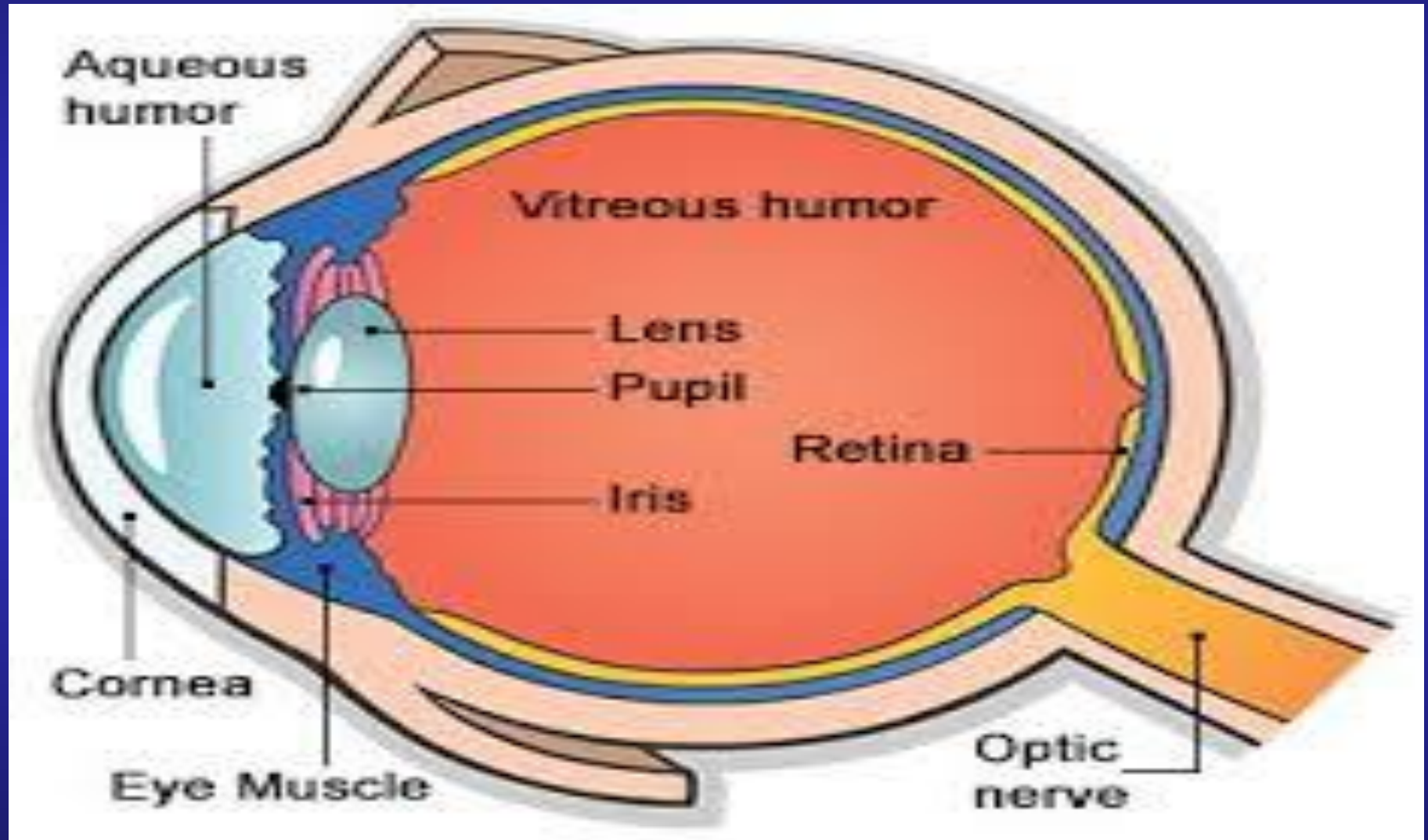
 - Ciliary Body (Ciliary muscle, Ciliary process)**

 - Iris**

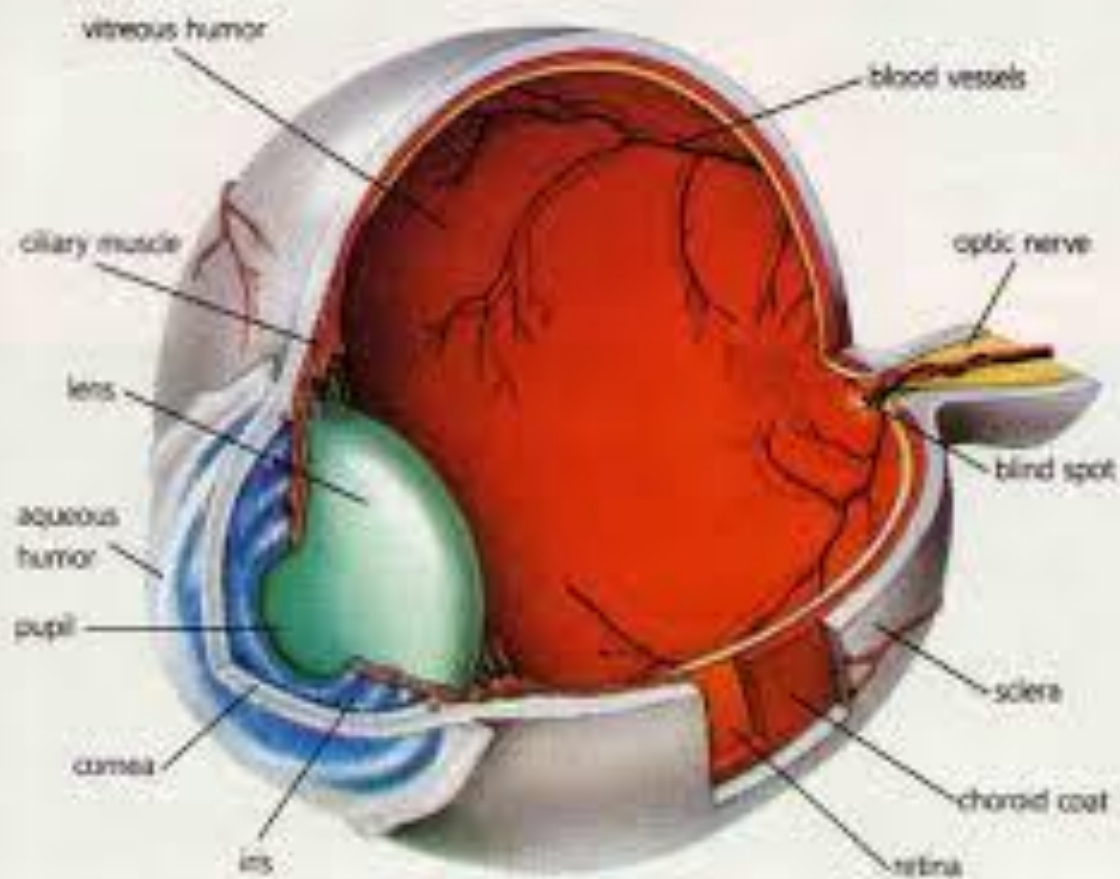
- **Nervous Tunic**

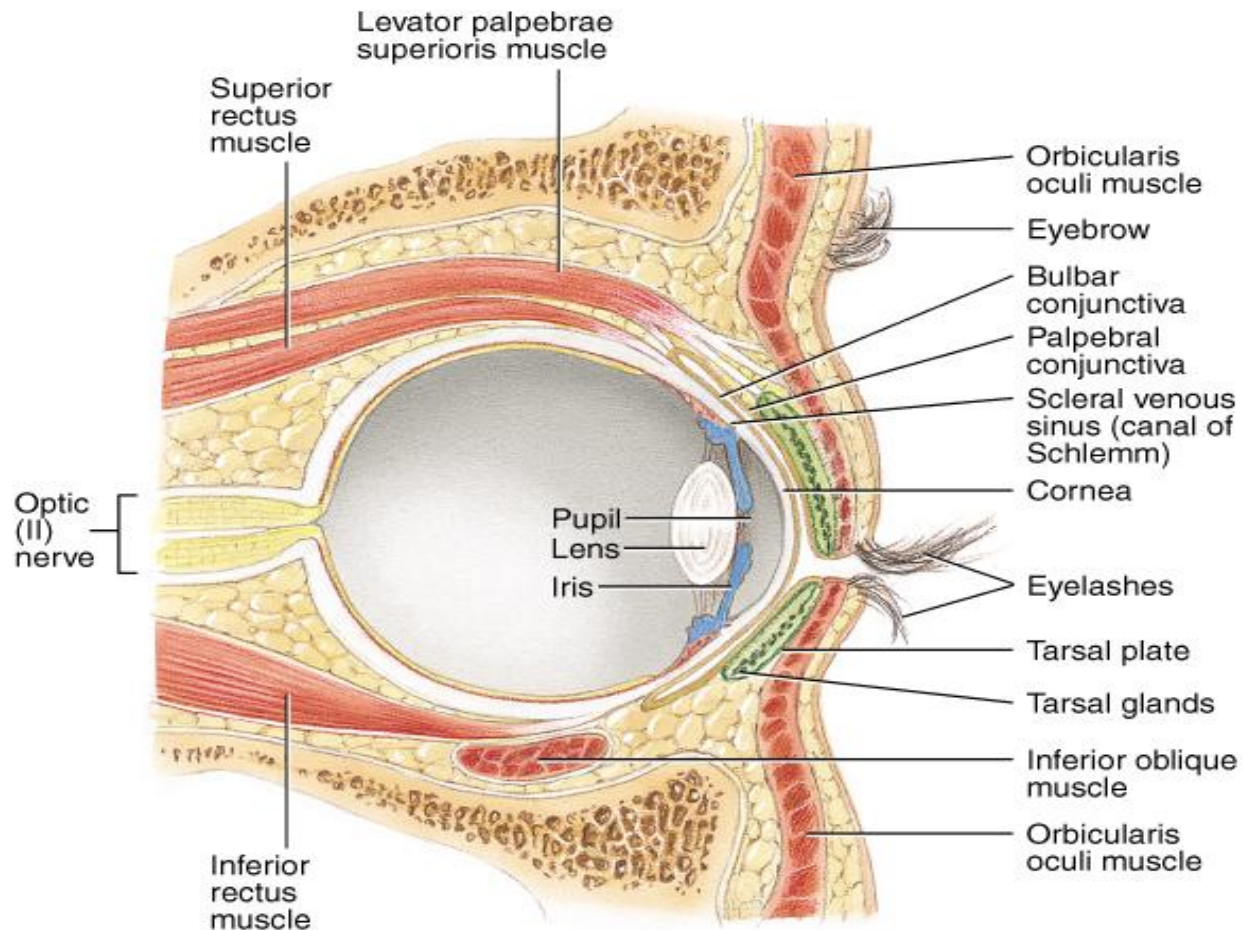
 - Retina**

Layers of eye



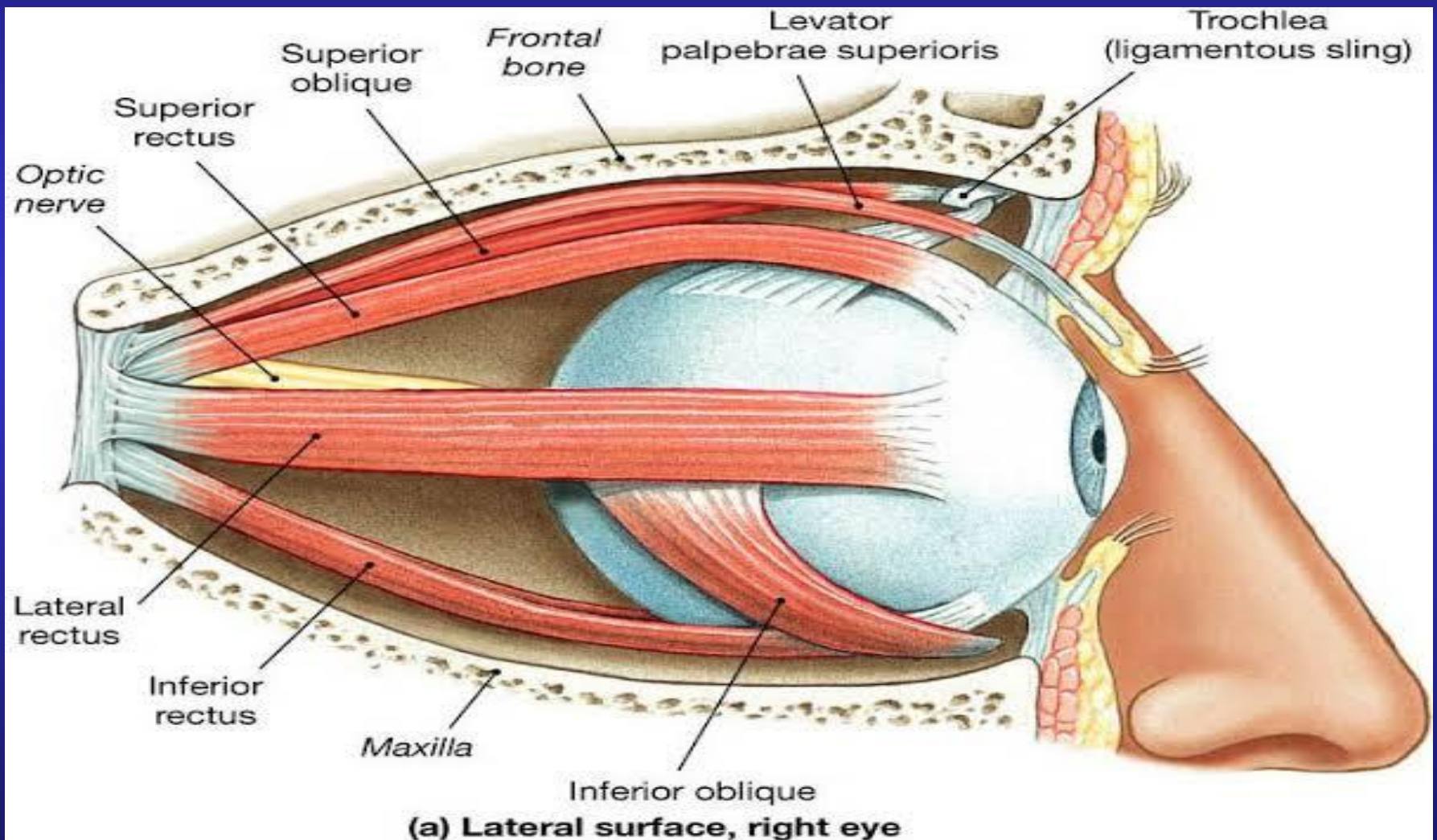
58. The Structure of the Human Eye

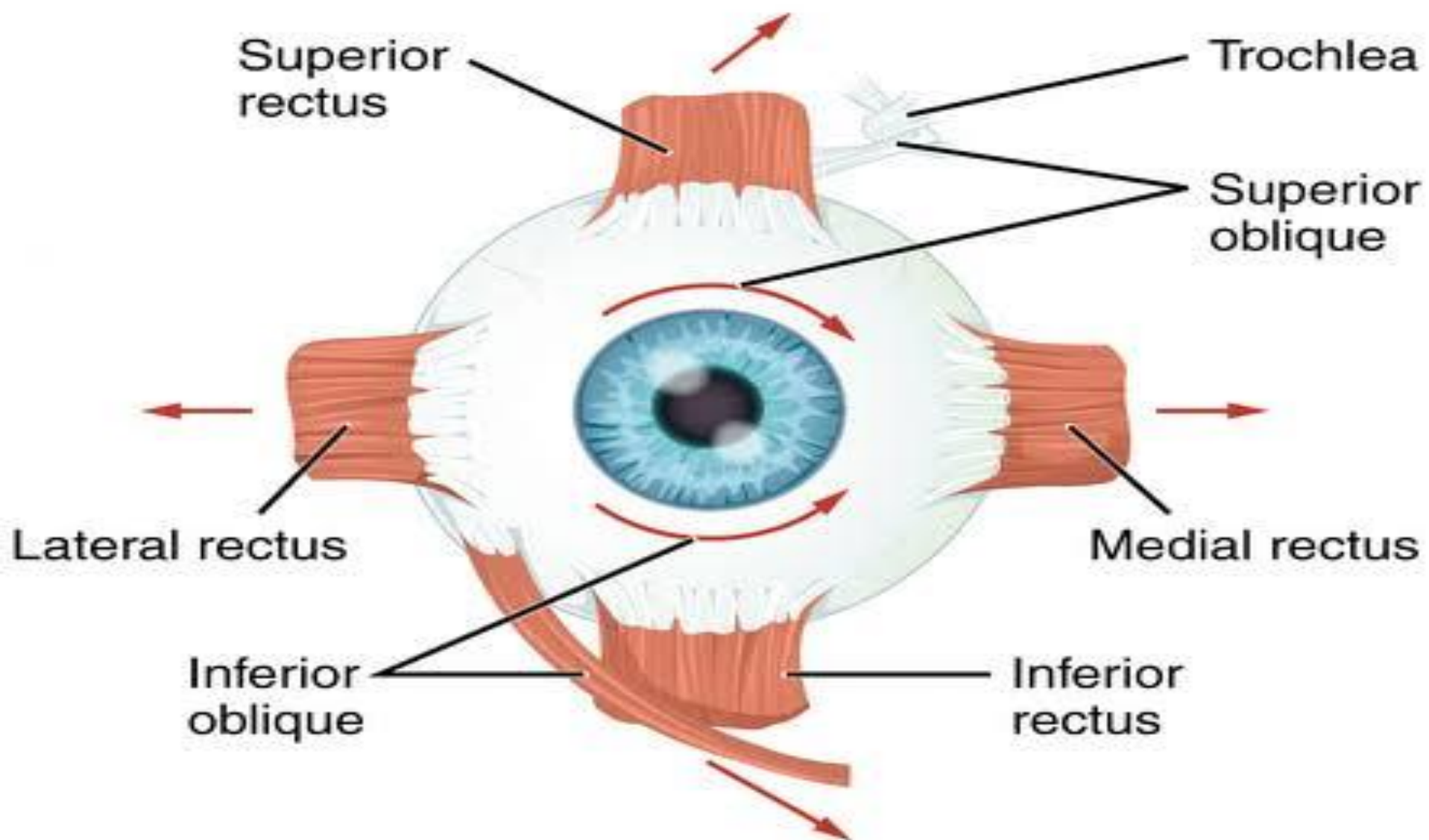




(a) Sagittal section of eye and its accessory structures

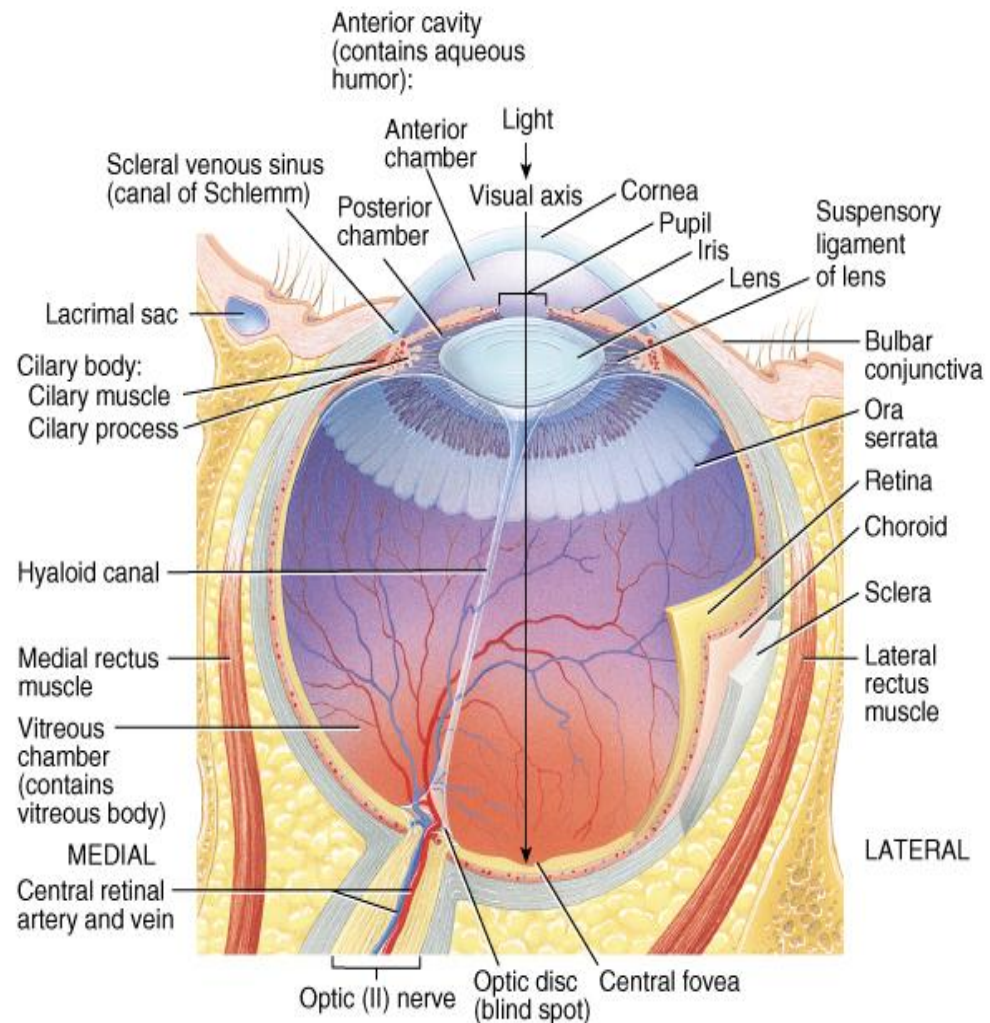
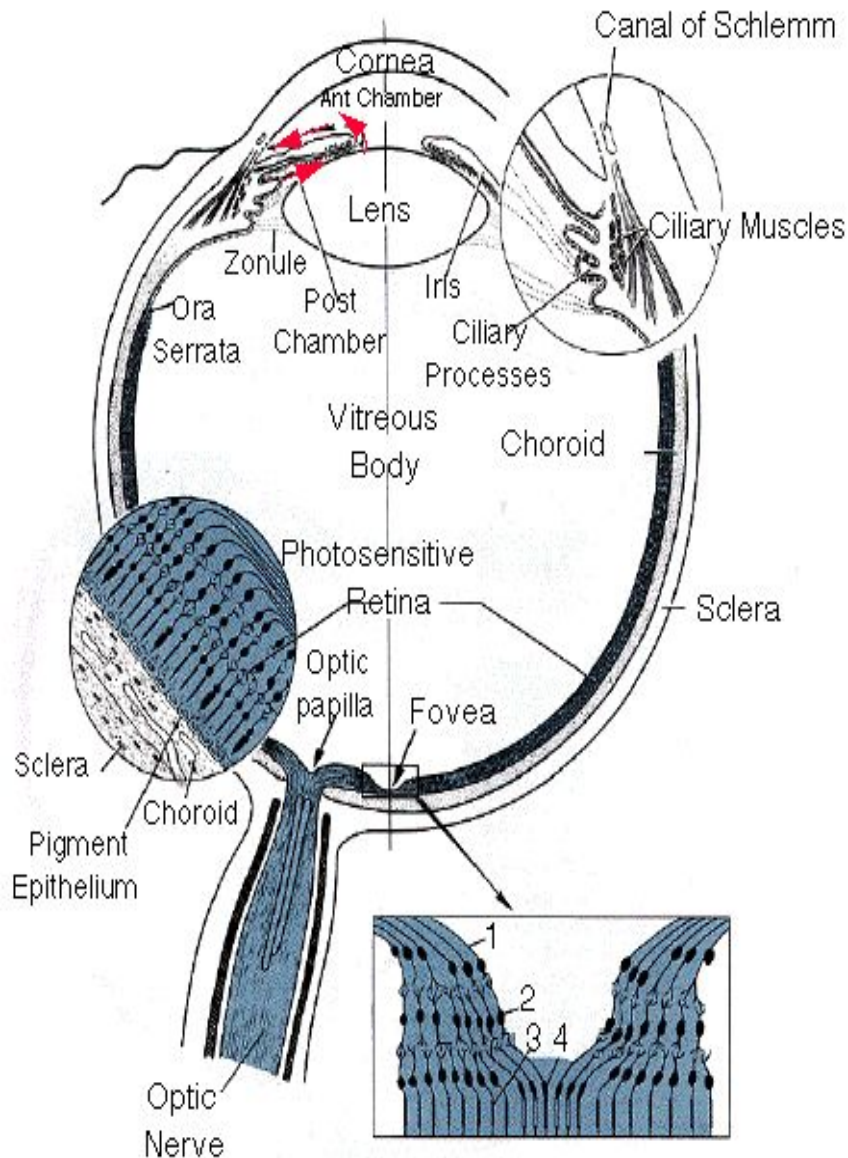
Muscle of eye





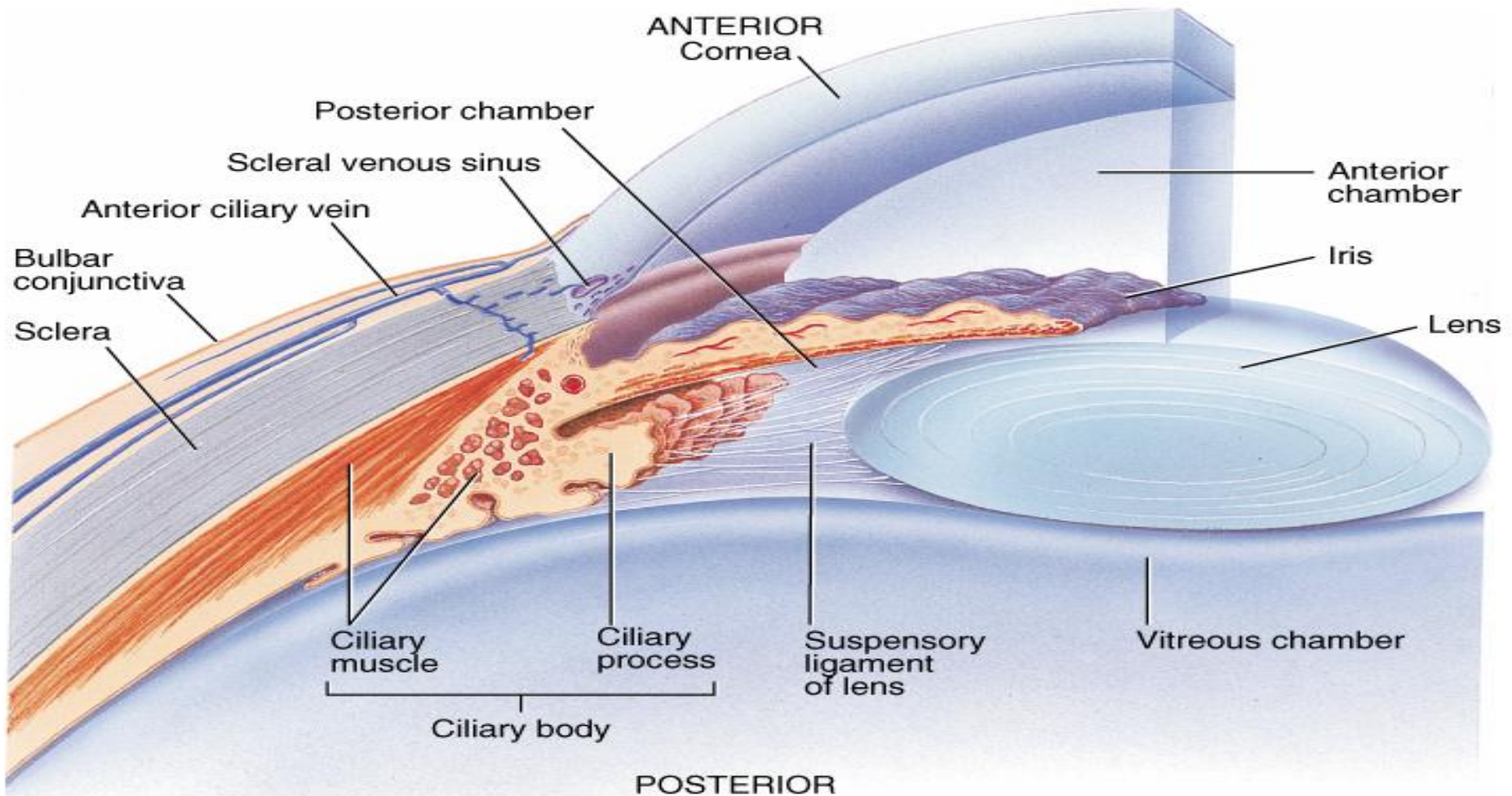
Anterior view of the right eye

Internal Anatomy of the Eye



(a) Superior view of transverse section of right eyeball

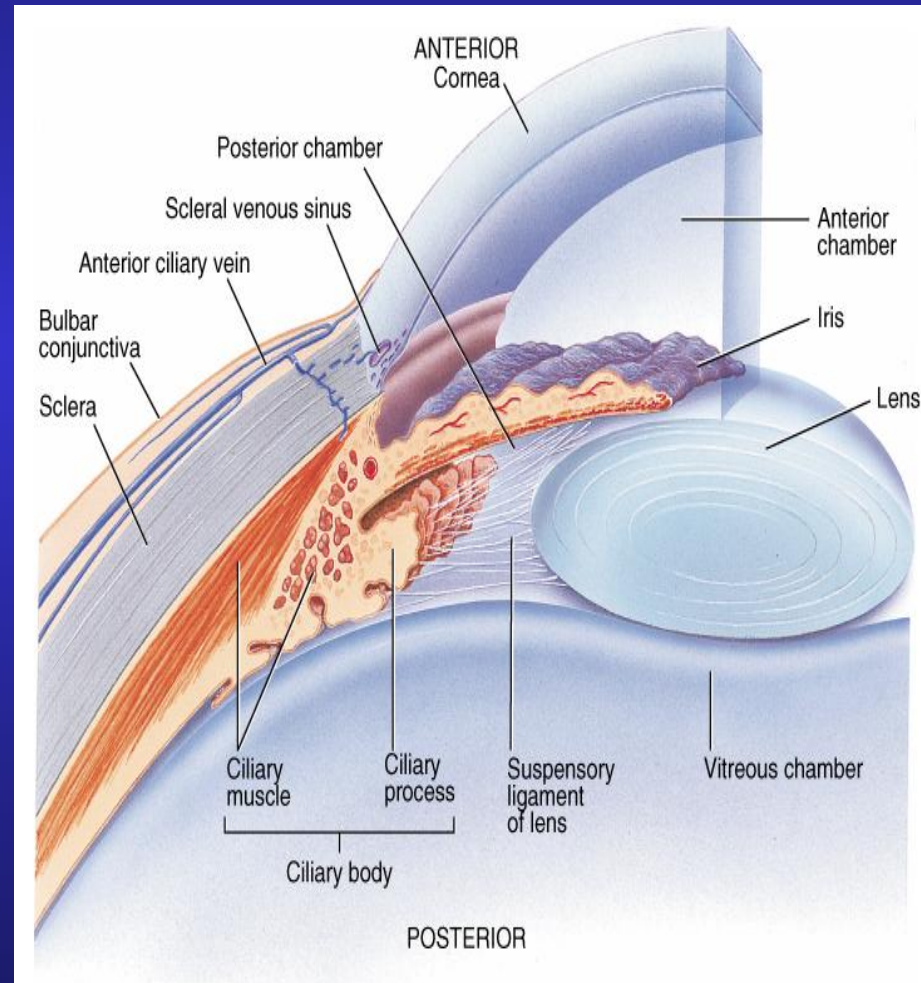
Detail view of the anterior anatomy of the eye



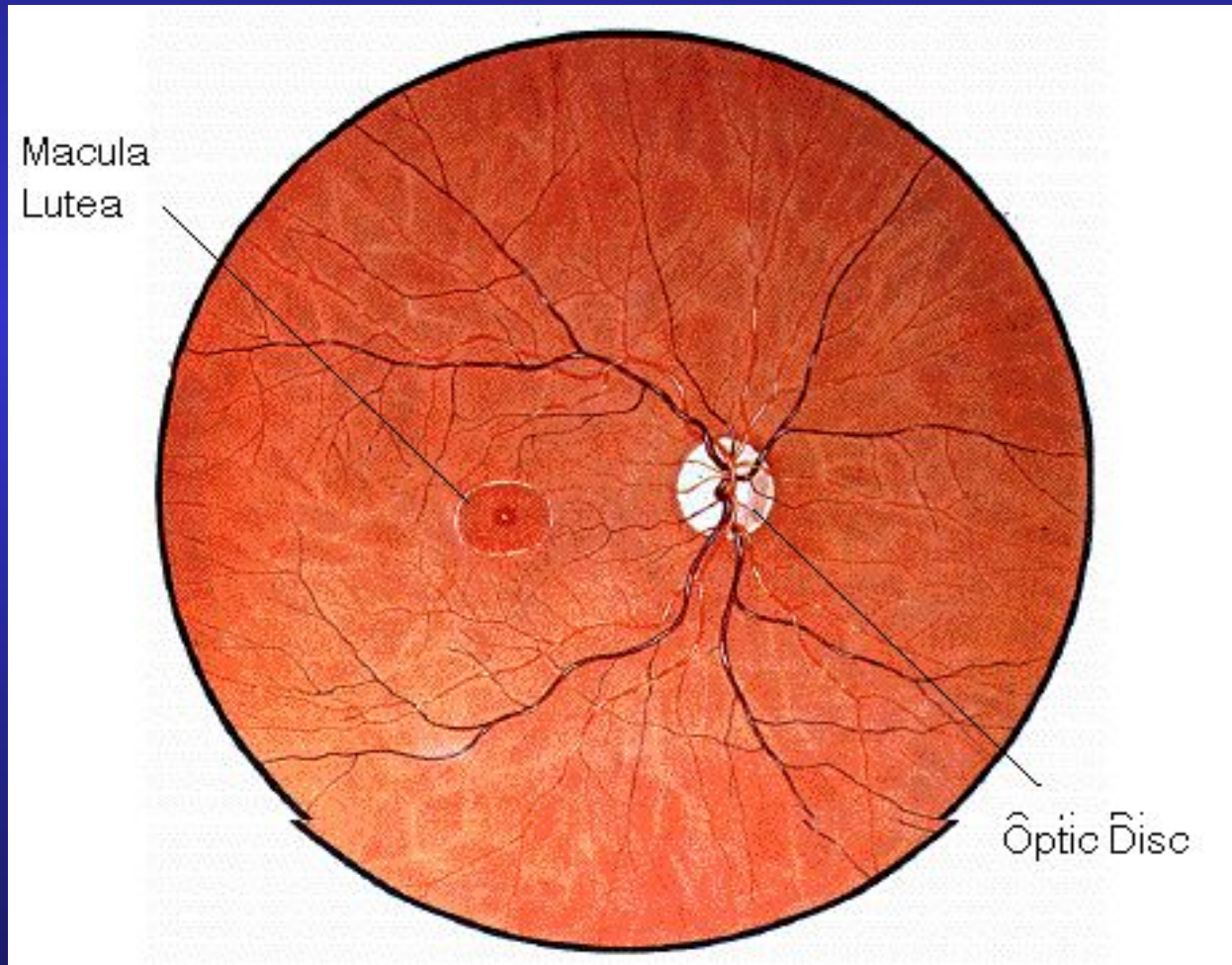
Production of Aqueous Humor and Intraocular pressure

1. **Ciliary Process:**
Produces Aqueous Humor
2. **Posterior Chamber:**
Aqueous Humor flows from this chamber through the pupil in Anterior Chamber
3. **Canal of Schlemm**
Reabsorbs Aqueous Humor

Glaucoma:
Increase in intraocular pressure due to build up of Aqueous Humor



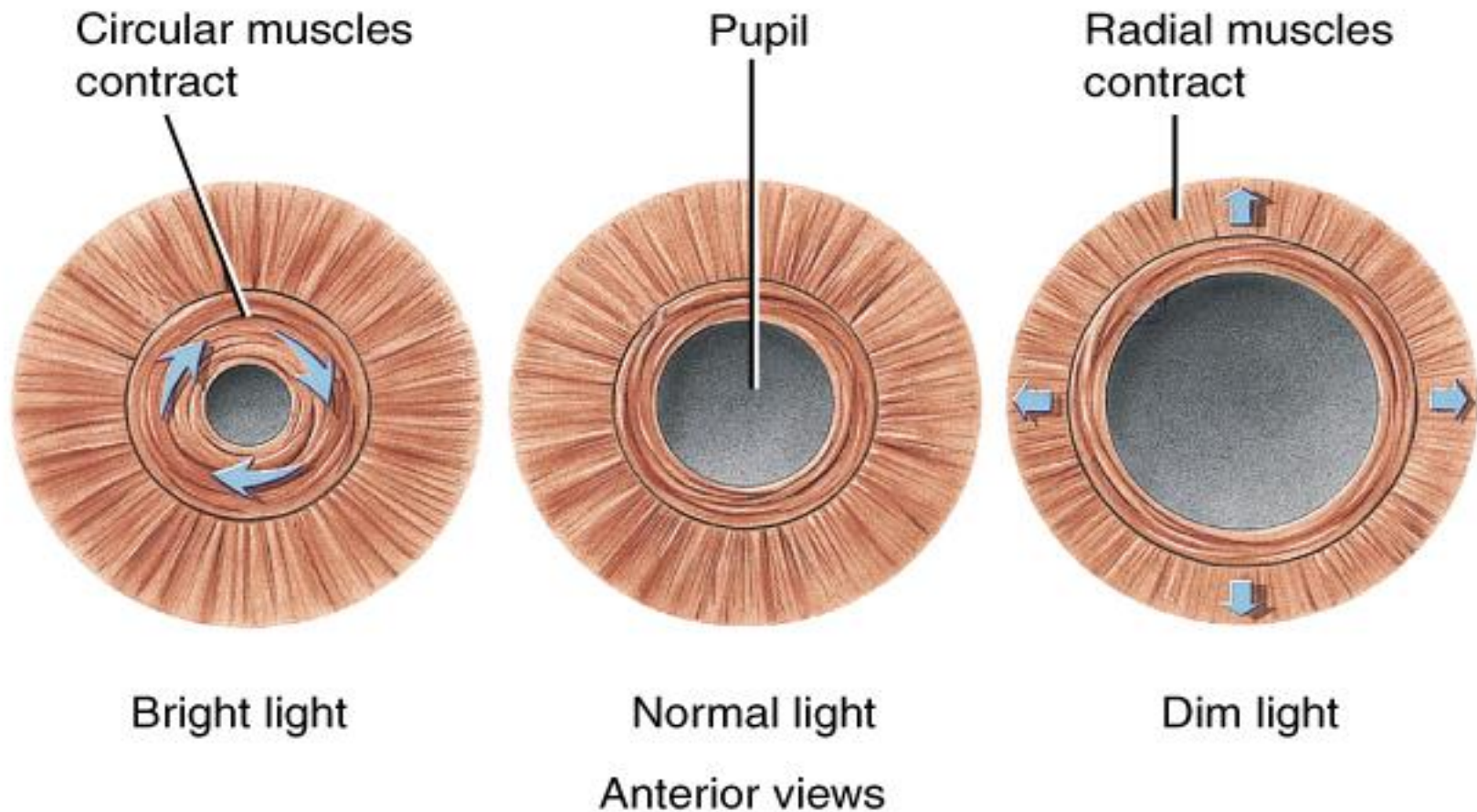
Opthalmoscopic view of the retina showing the location of the Macula to the Optic Disc



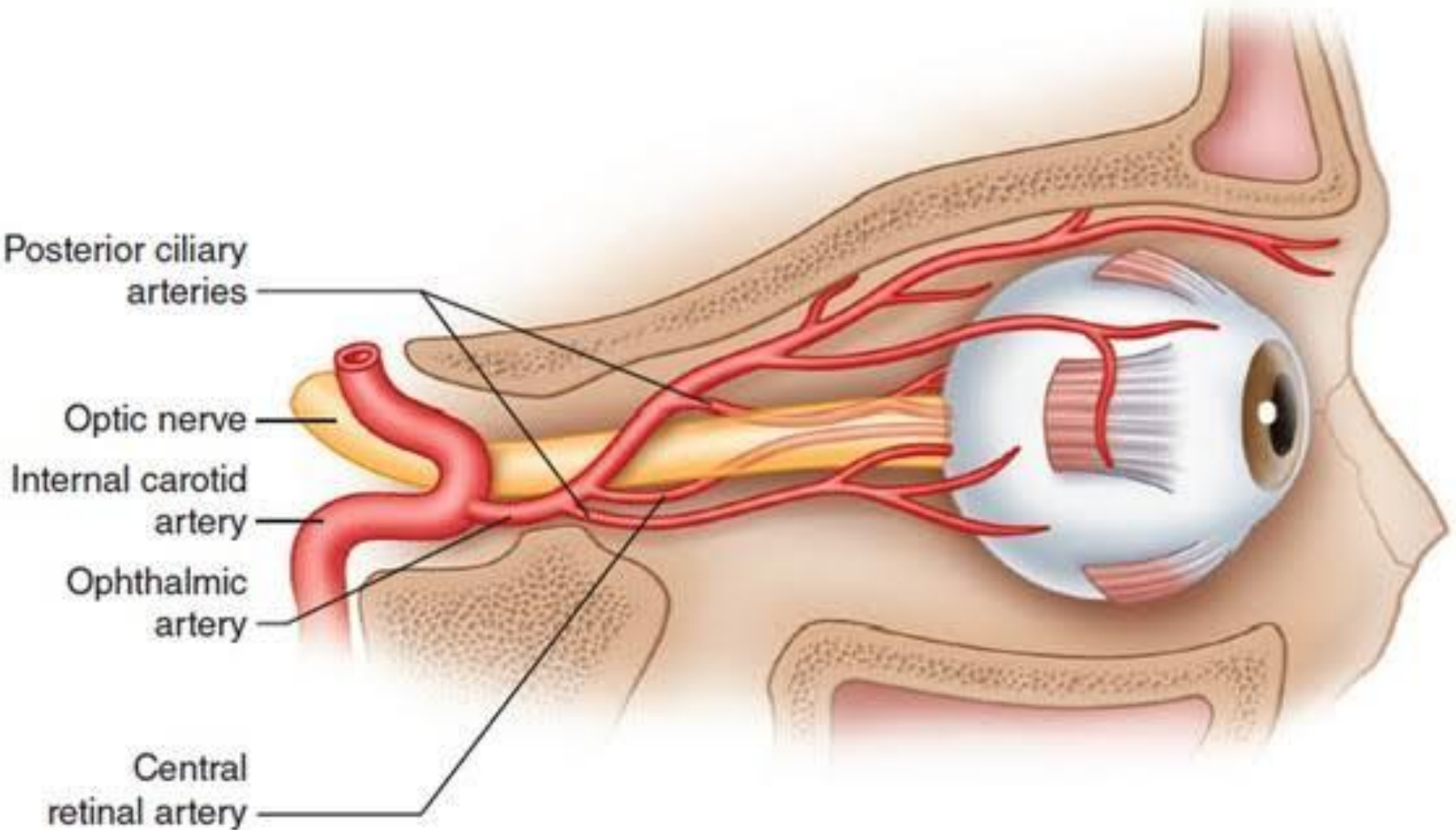
Photomicroscopic view of the Histology of the Eye showing the location of the central fovea



Intrinsic Eye Muscles and their response to light

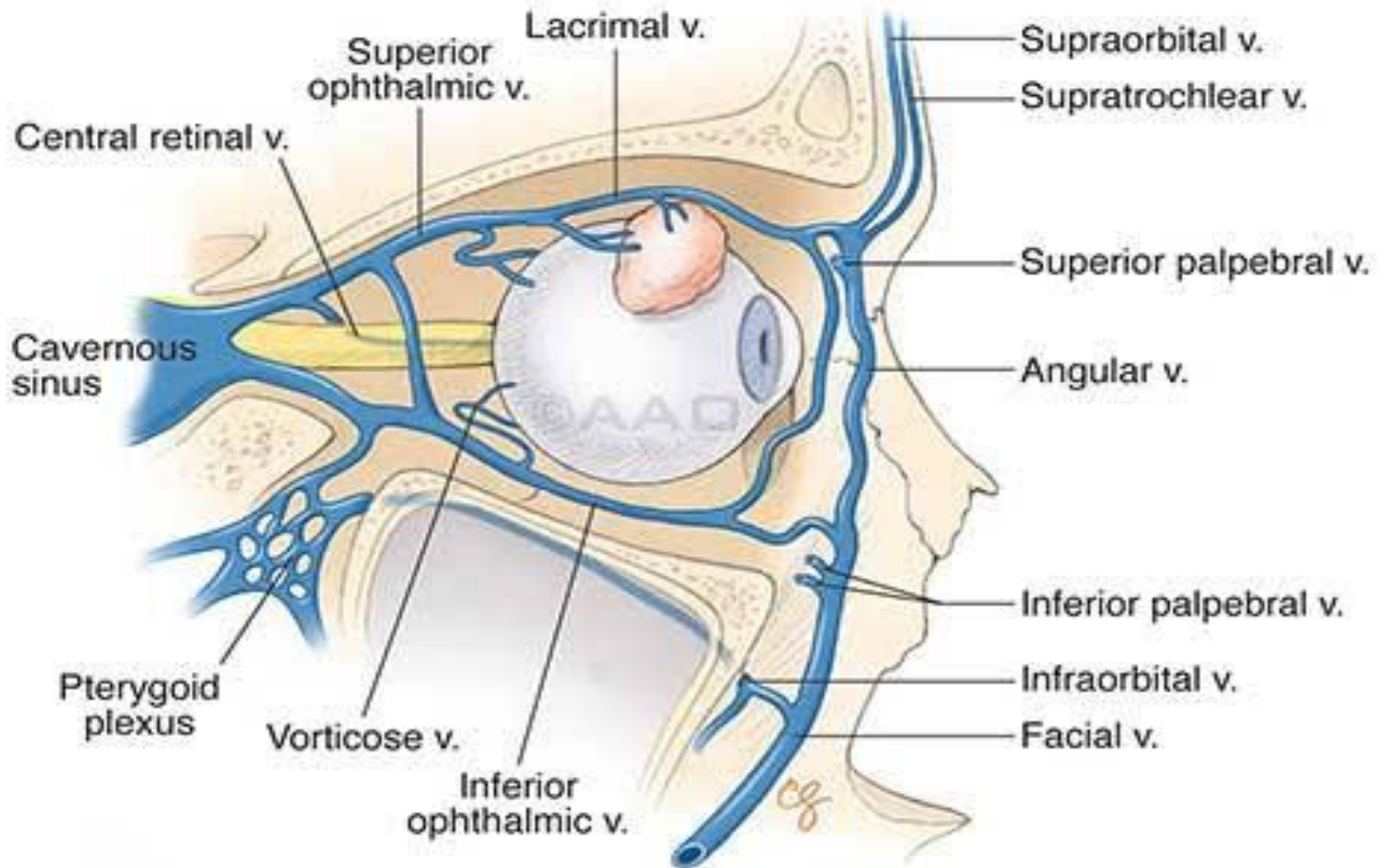


The arteries of eye

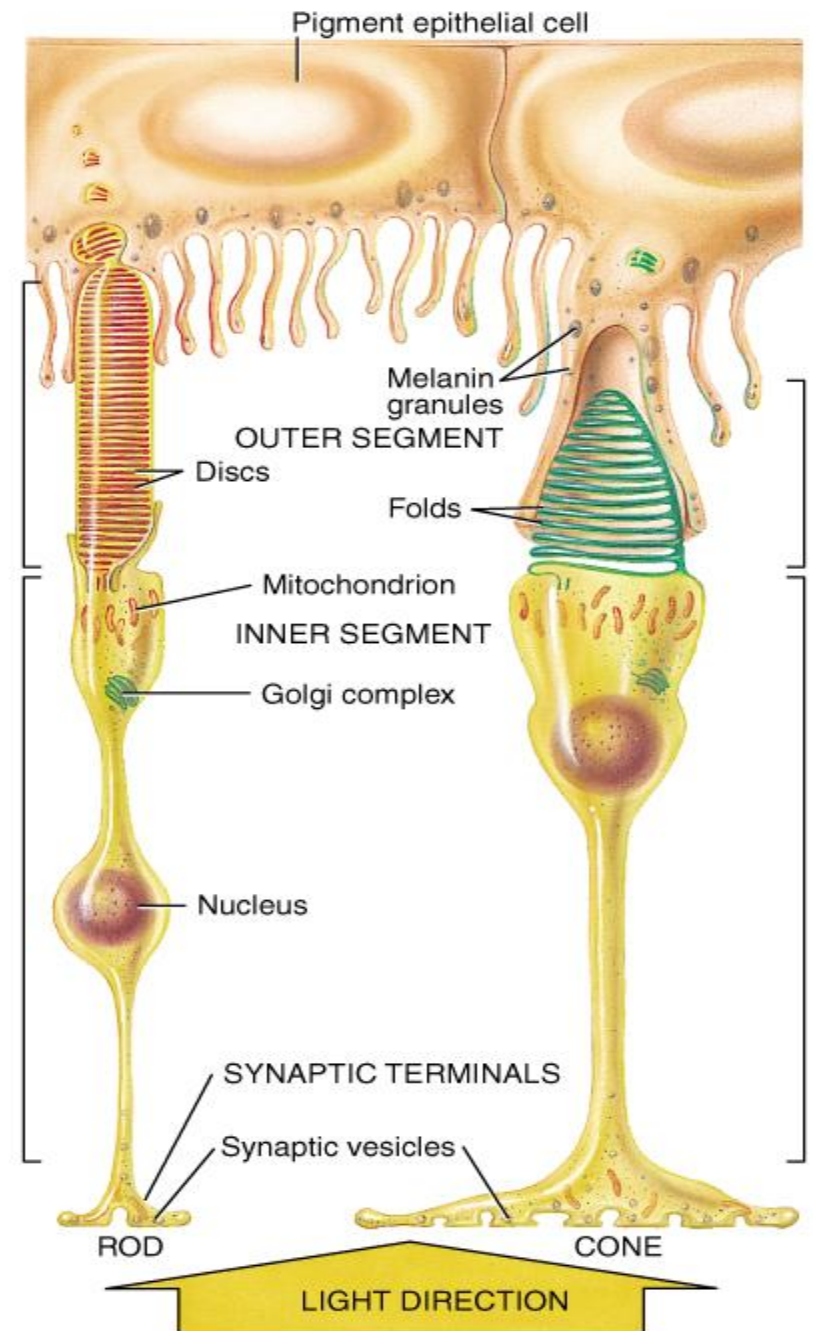


Veins of eye

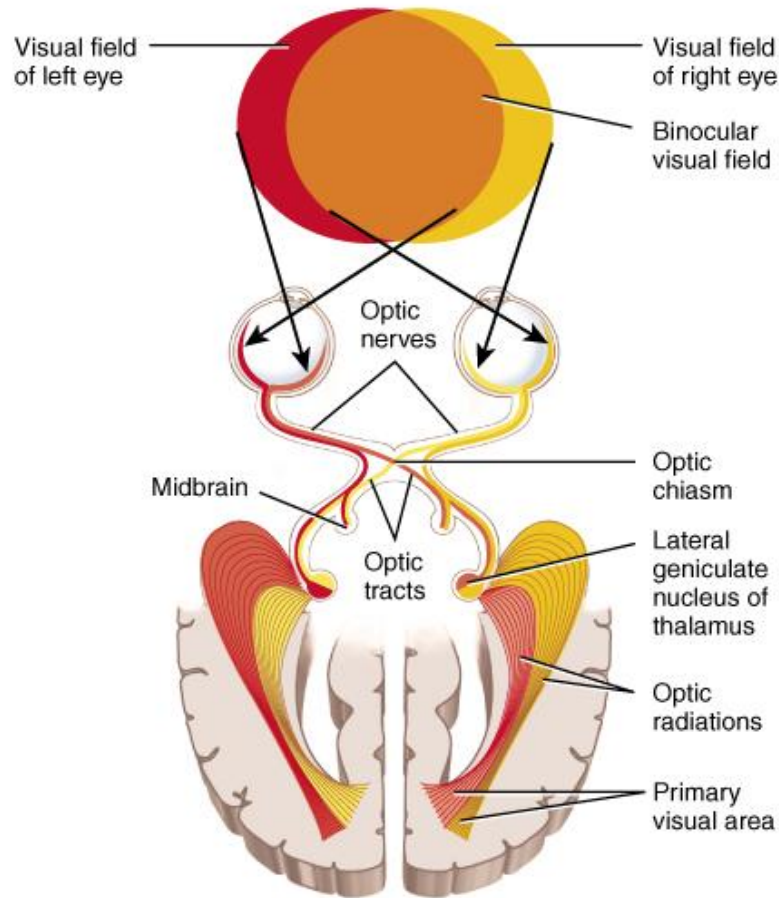
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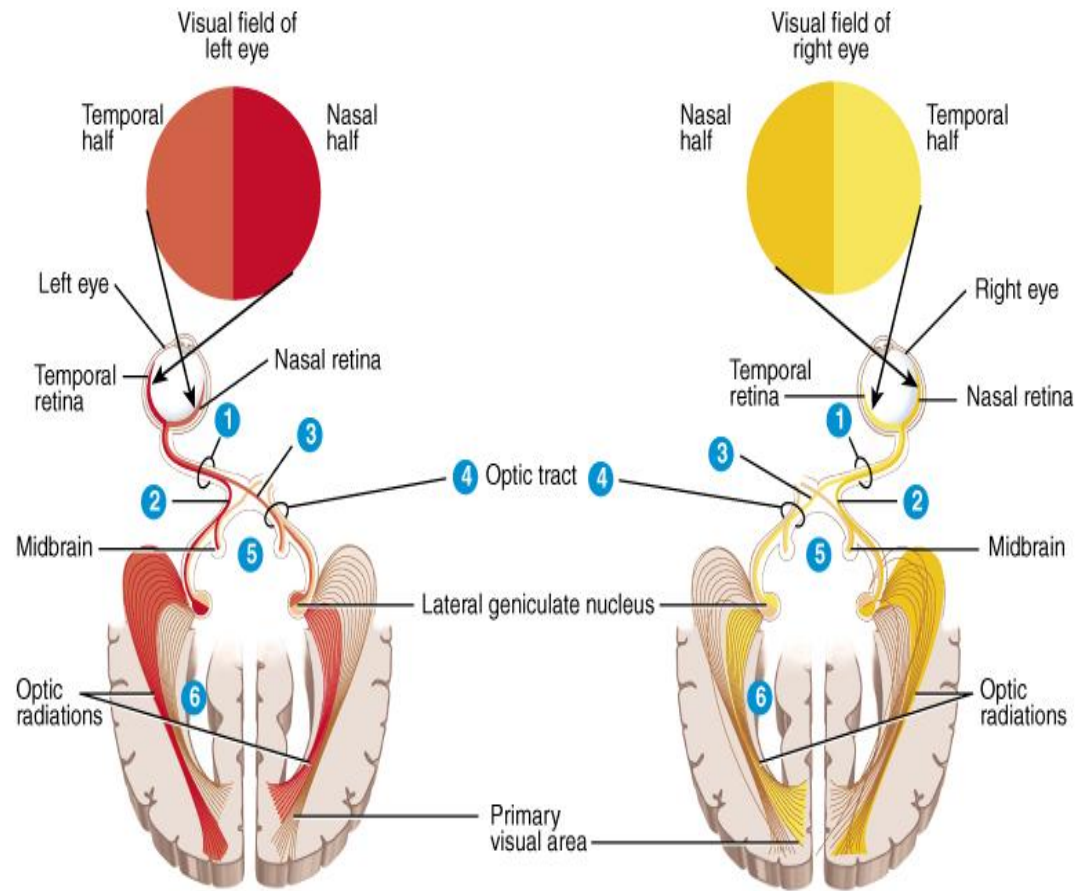
Anatomy of Rods and Cones



The Visual Pathway



(b) Superior view of transverse section through eyeballs and brain



(c) Left eye and its pathways

(d) Right eye and its pathways

Visual Pathway

1. **Cones**
2. **Bipolar neurons**
3. **Ganglion cell's axon forms the optic nerve**
4. **Optic nerve to the Optic Chiasm**
5. **Optic tract**
6. **Lateral geniculate nuclei of the thalamus**
7. **Optic Radiations**
8. **Primary visual areas of the occipital lobes**

Thank
you



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