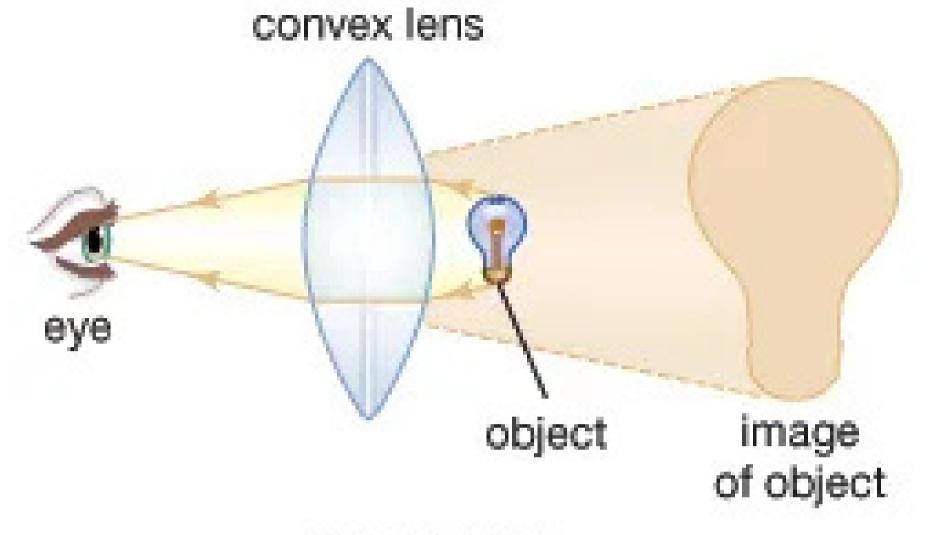
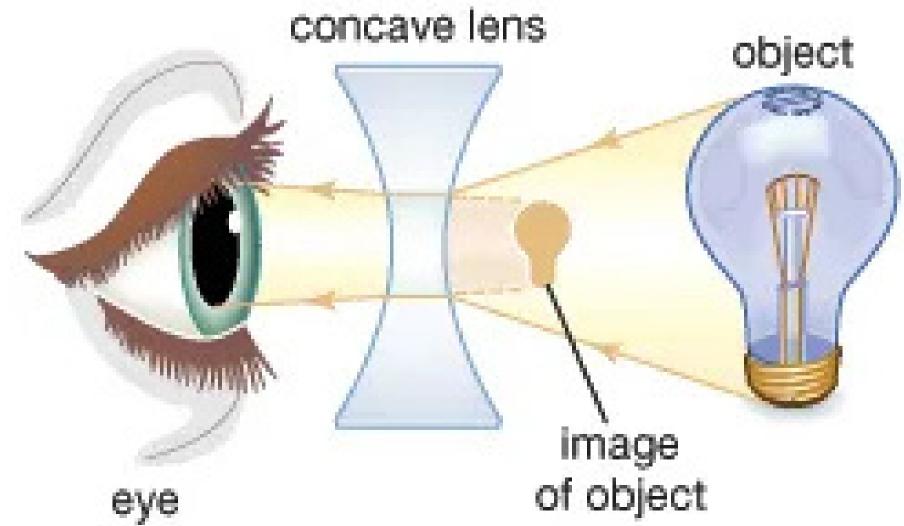


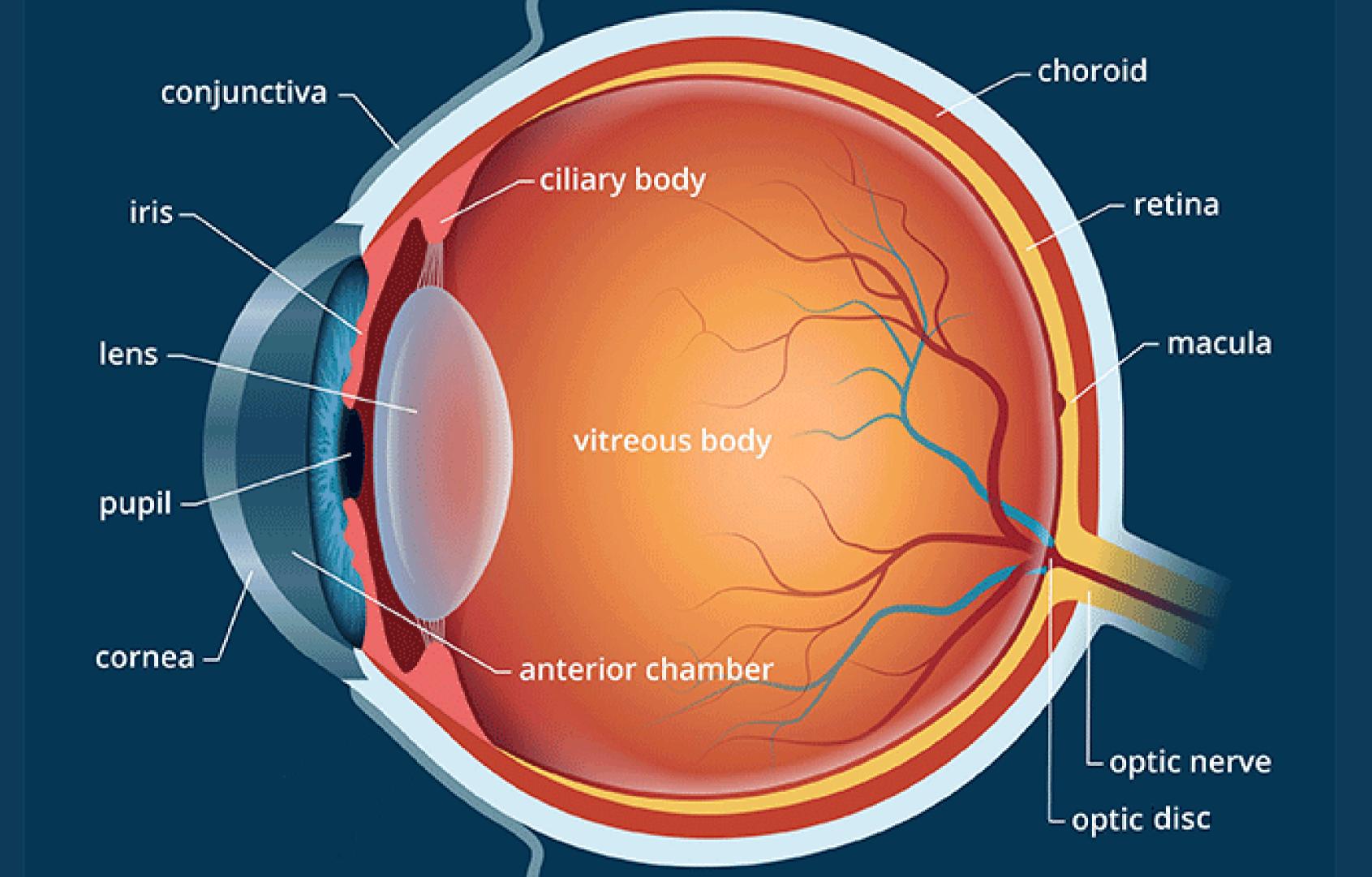
STRUCTURE AND FUNCTION OF EYE

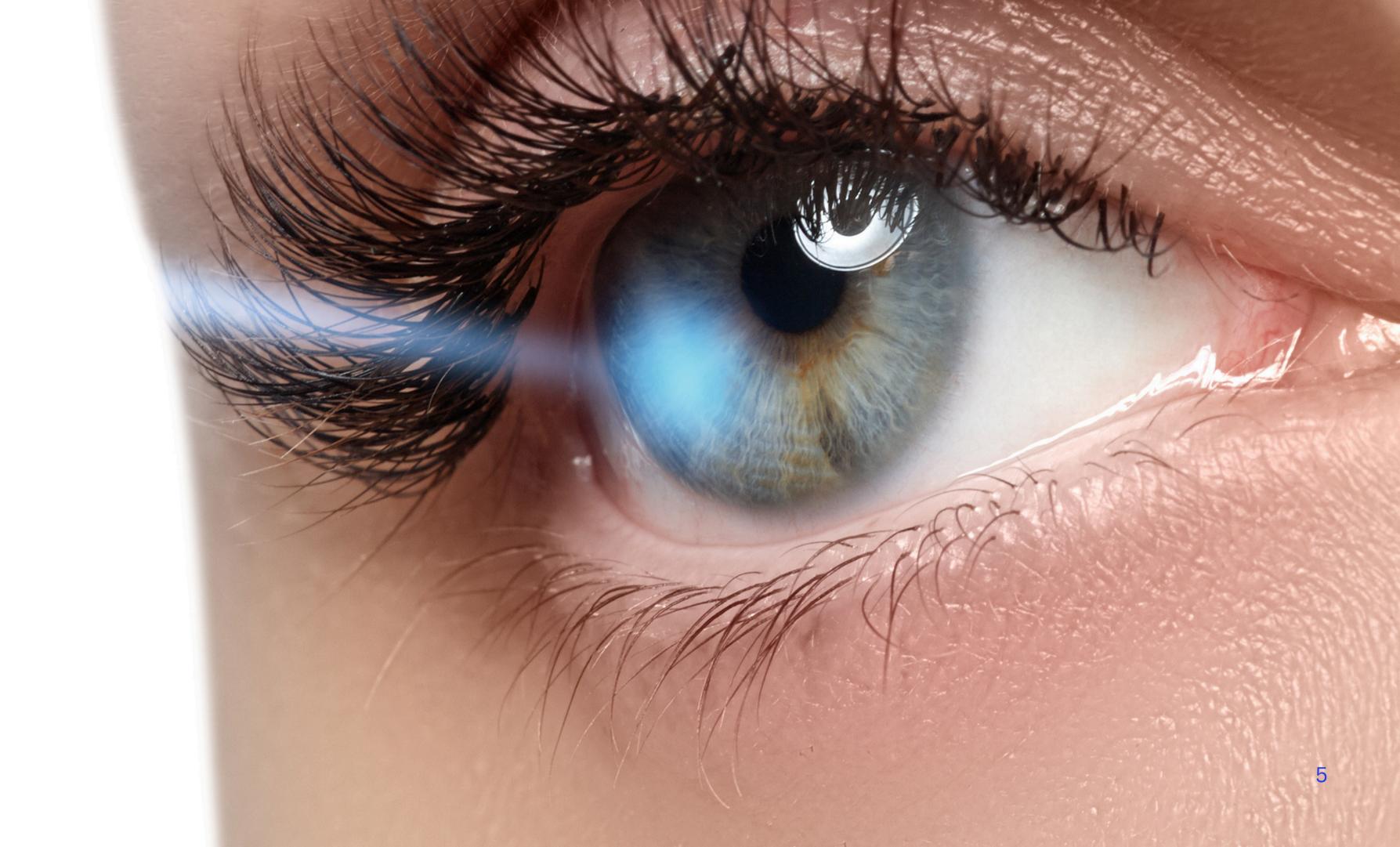


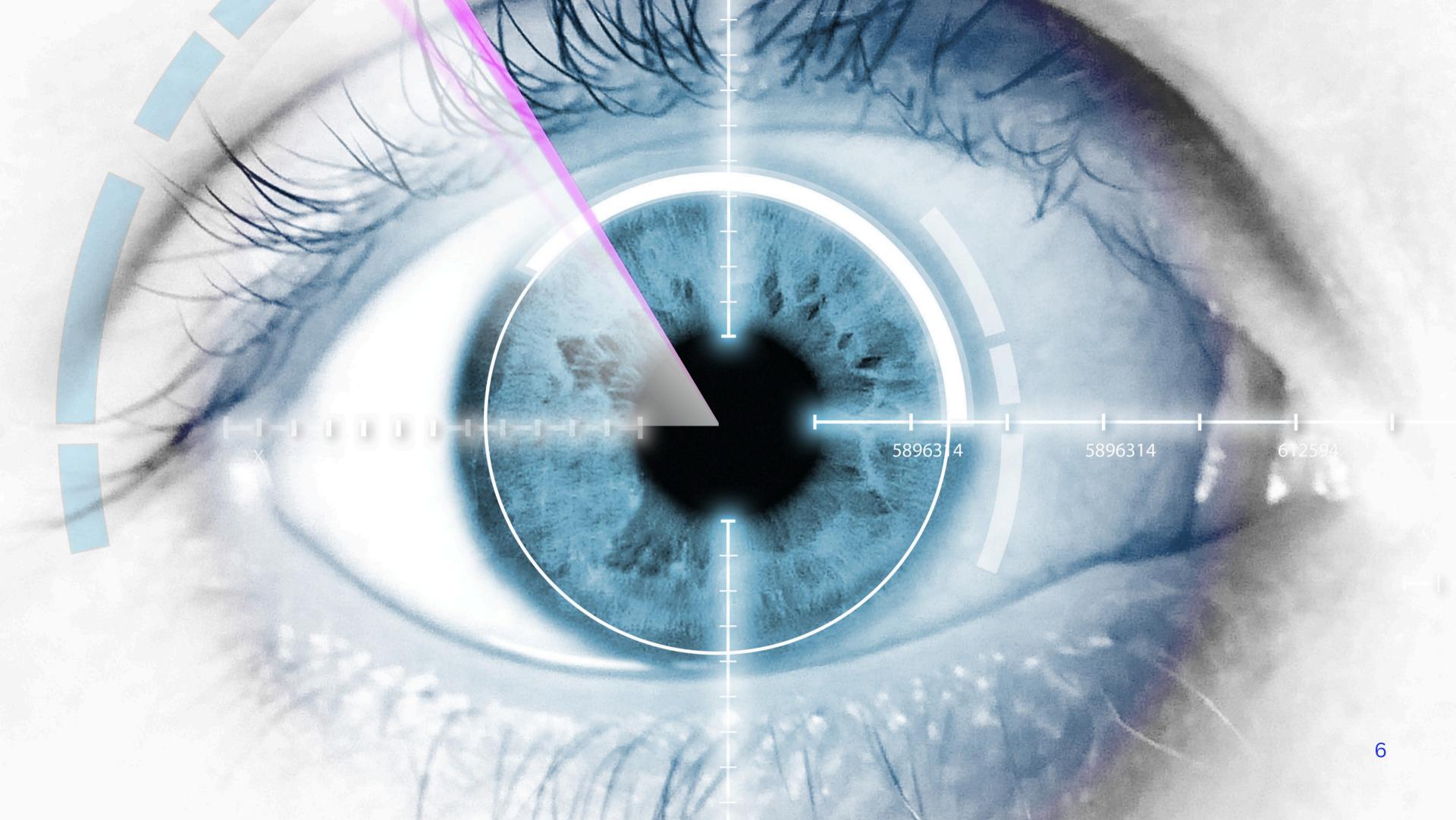






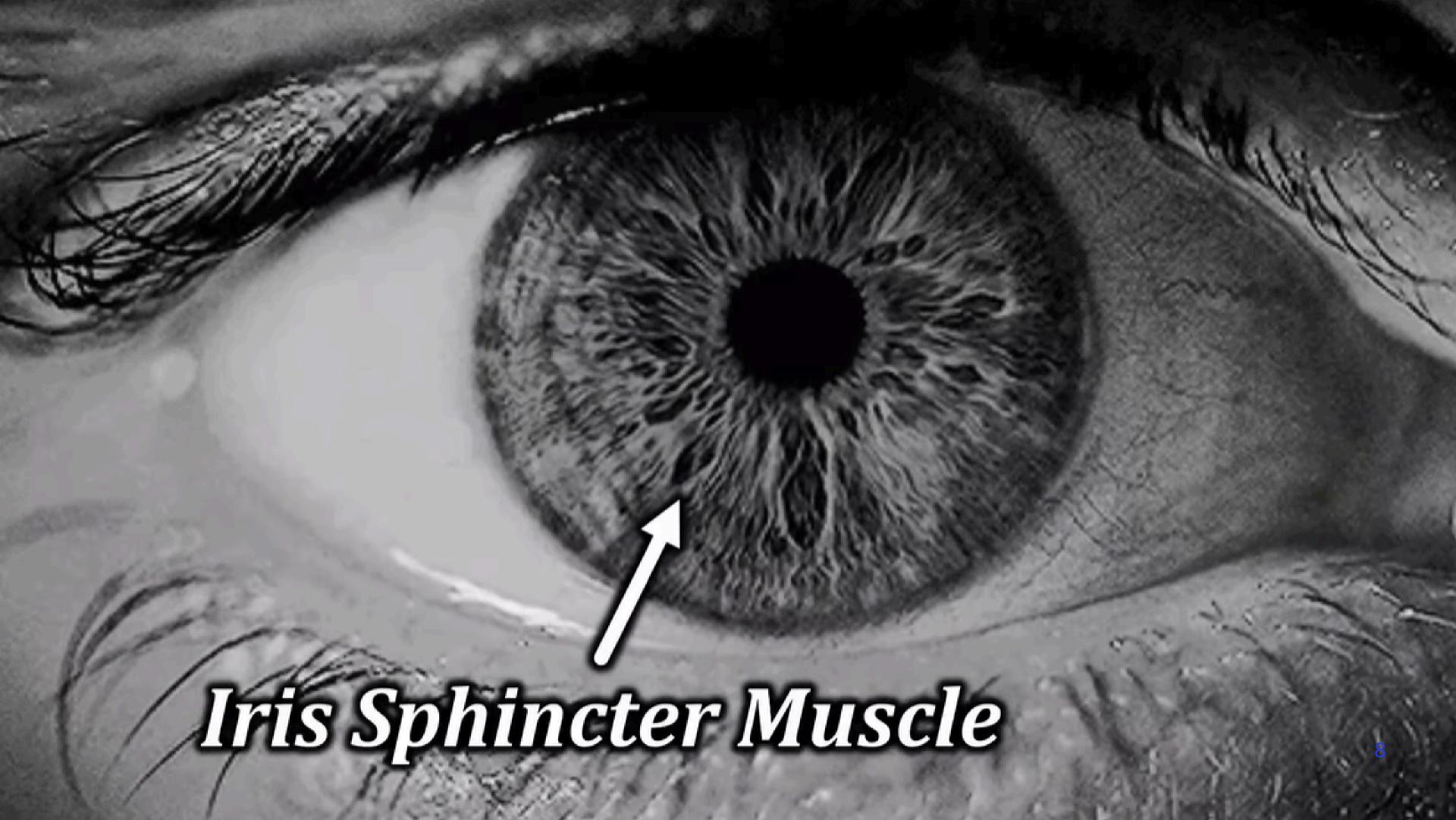






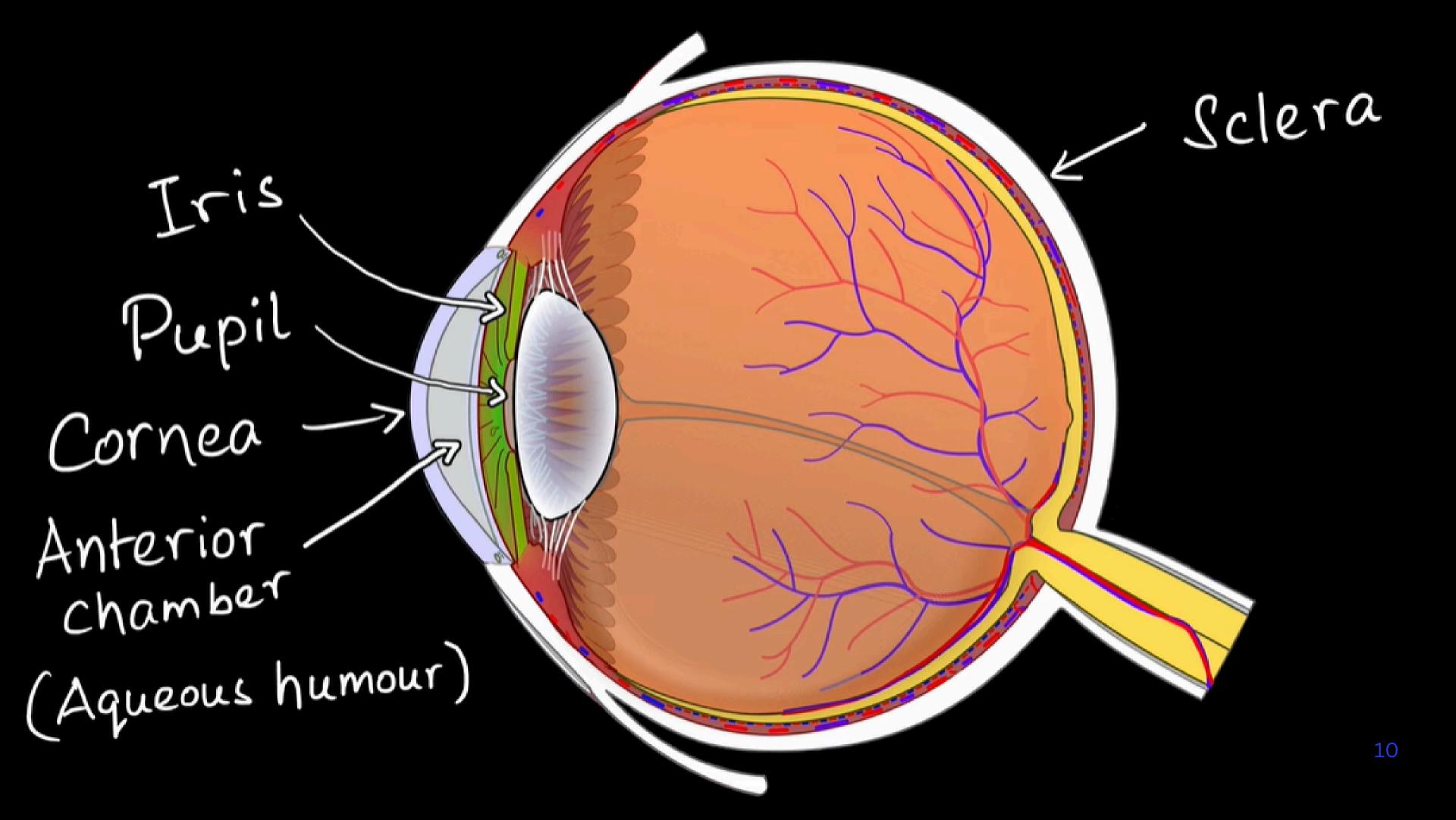
LAYERS OF EYE

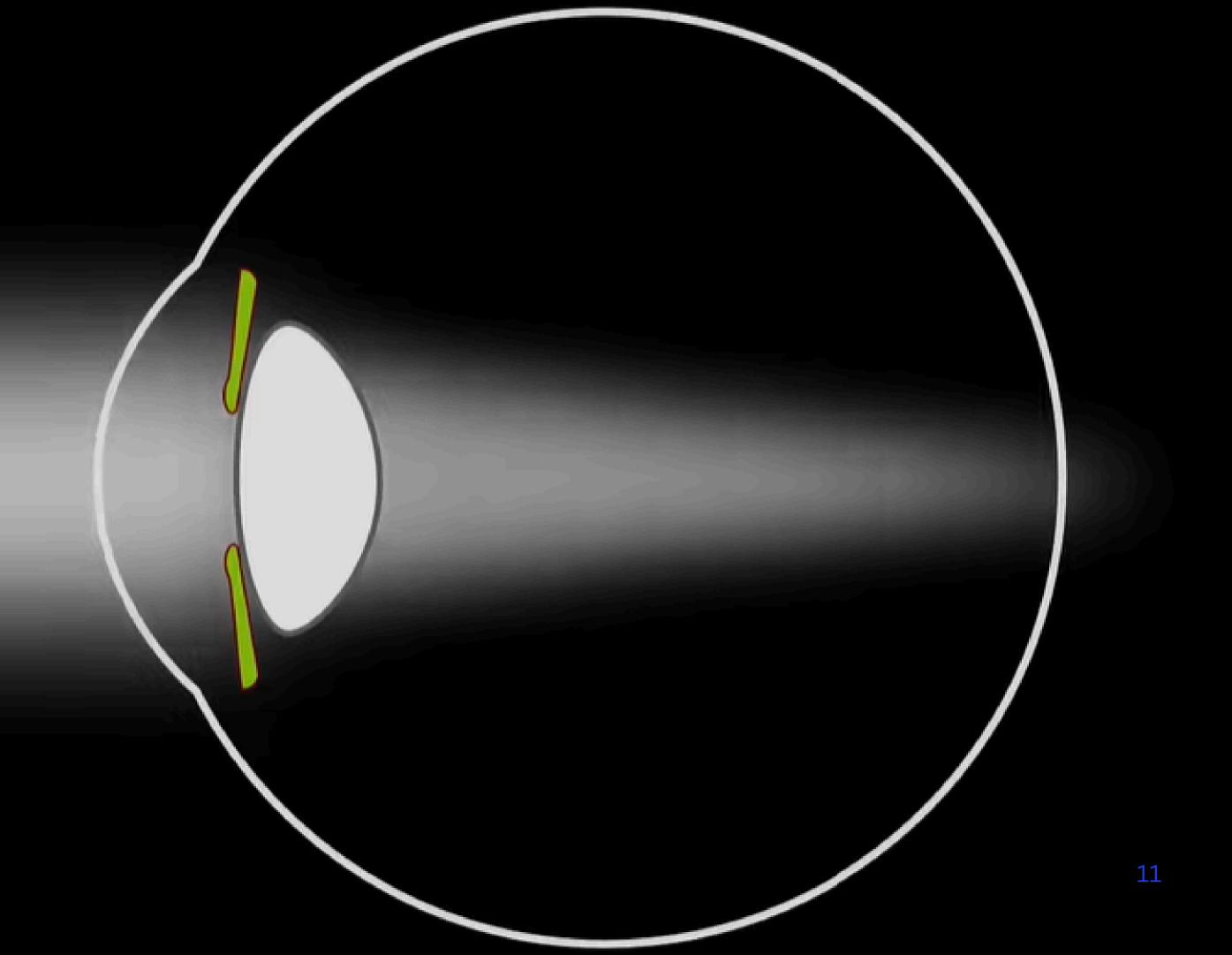
- The human eyes are located in the skull's bony sockets, called the orbits, in the upper face region:
- The eyes are surrounded by the eyelids, which are divided into upper and lower eyelids. The eyebrows are located in the skin directly above the orbits. The eye is a spherical organ that contains the structures responsible for vision. The eyeball is made up of three layers:
 - **Fibrous layer:** The sclera and cornea make up this layer. The sclera is the opaque layer that surrounds the back five-sixths of the eyeball. The cornea is the transparent layer that occupies the front one-sixth of the eyeball.
 - Vascular layer: Also known as the uvea, this layer is made up of the choroid, ciliary body, and iris.
 - Nervous layer: Also known as the retina, this is the innermost layer of the eyeball.

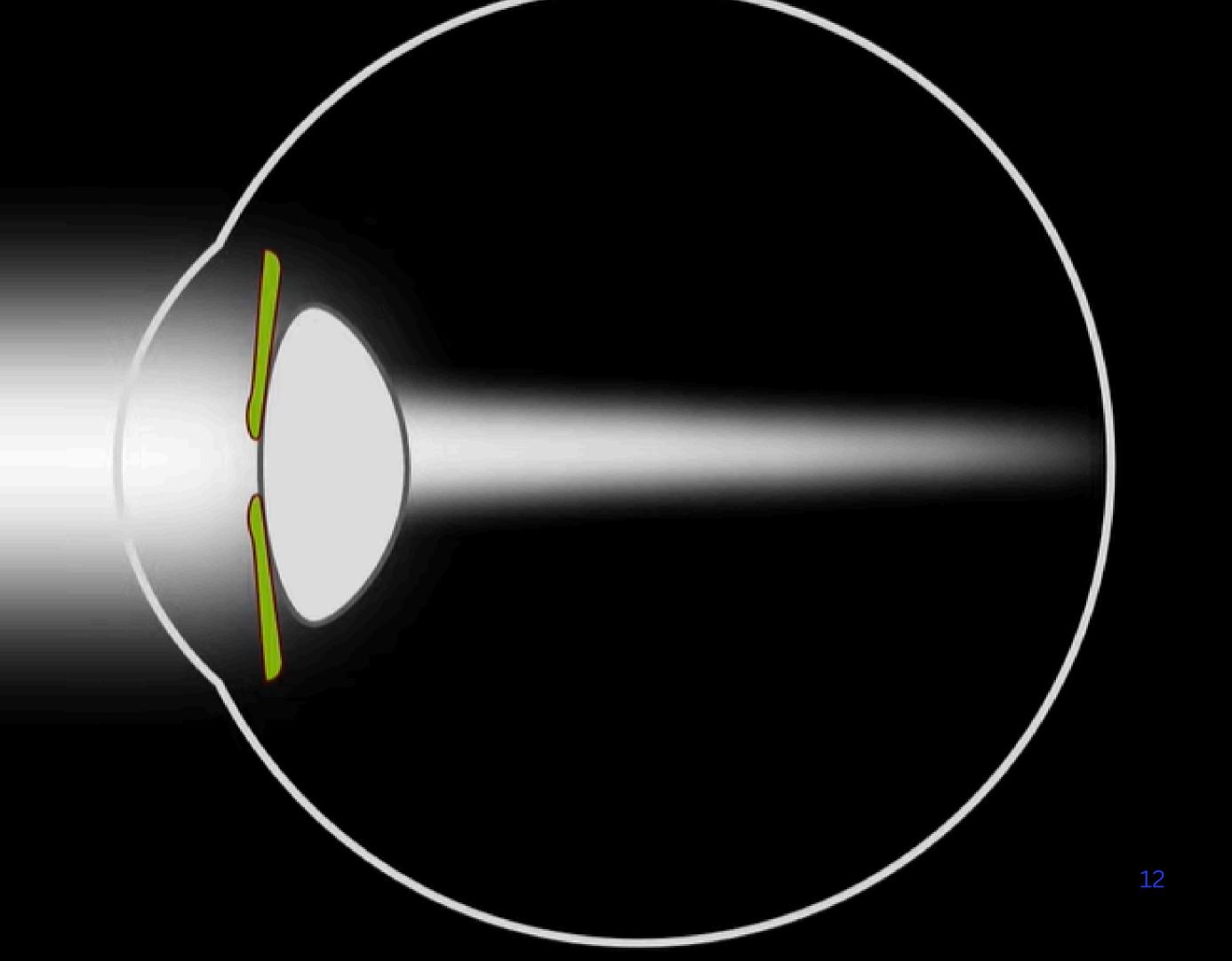


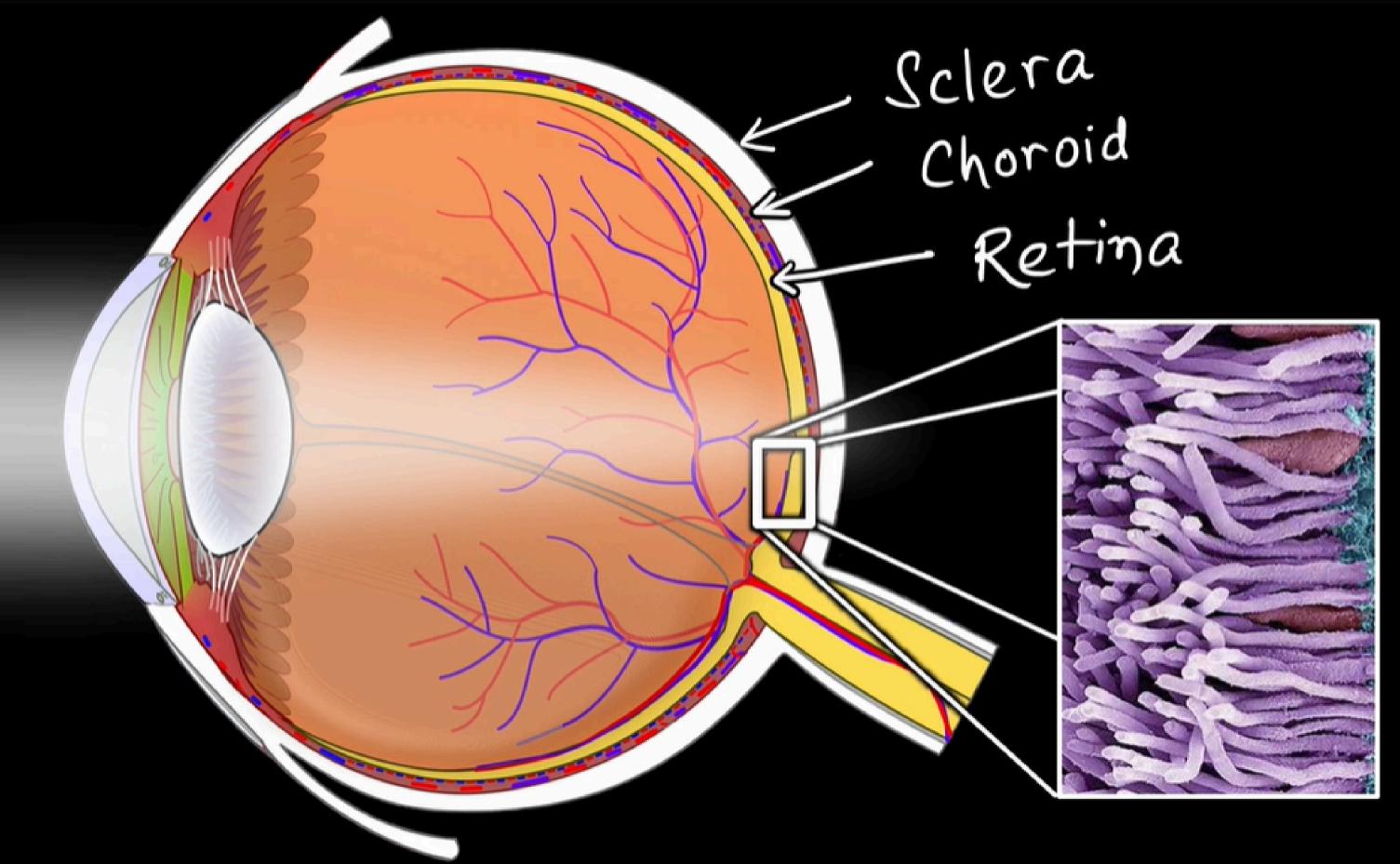


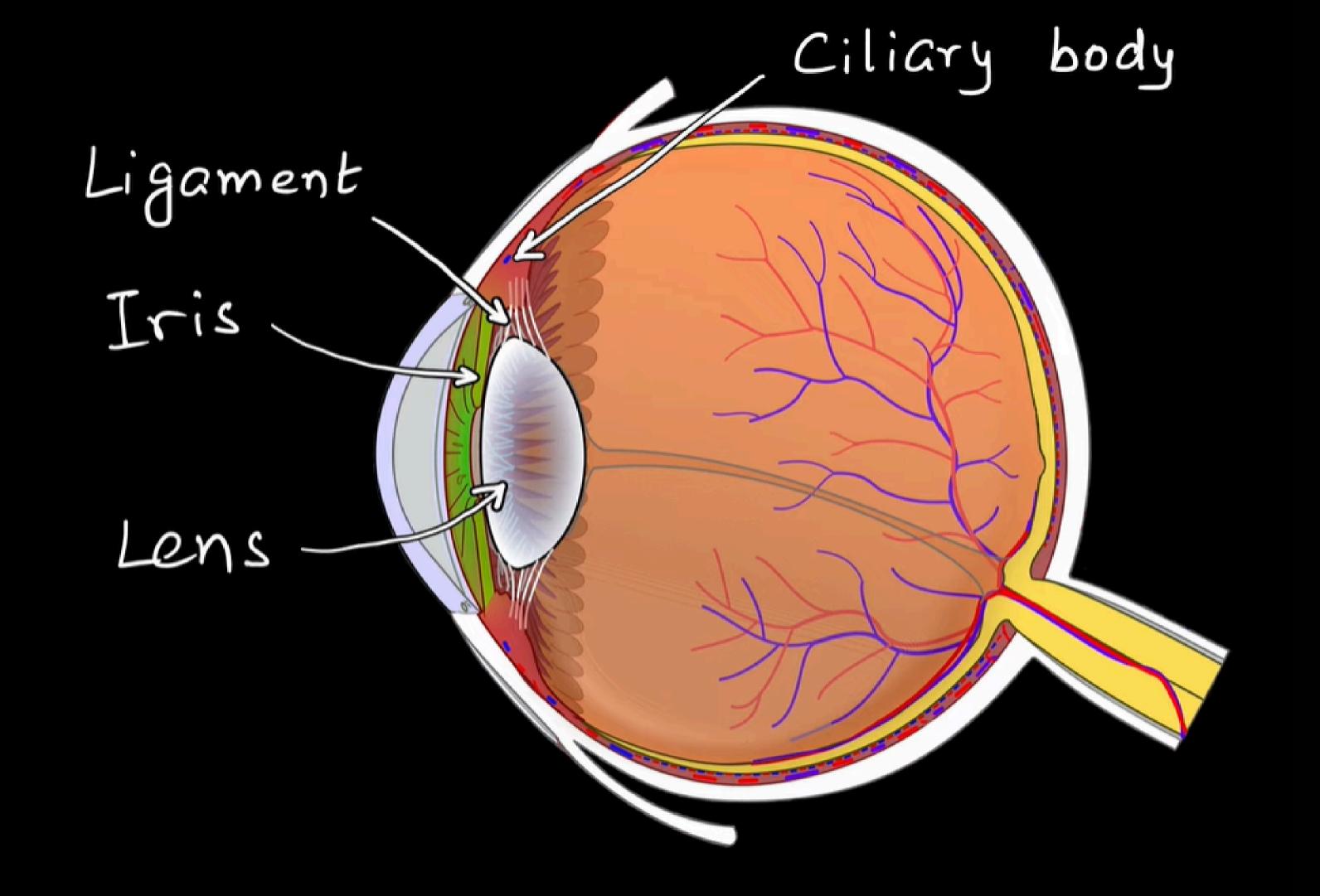
STRUCTURE AND FUNCTION OF EYE

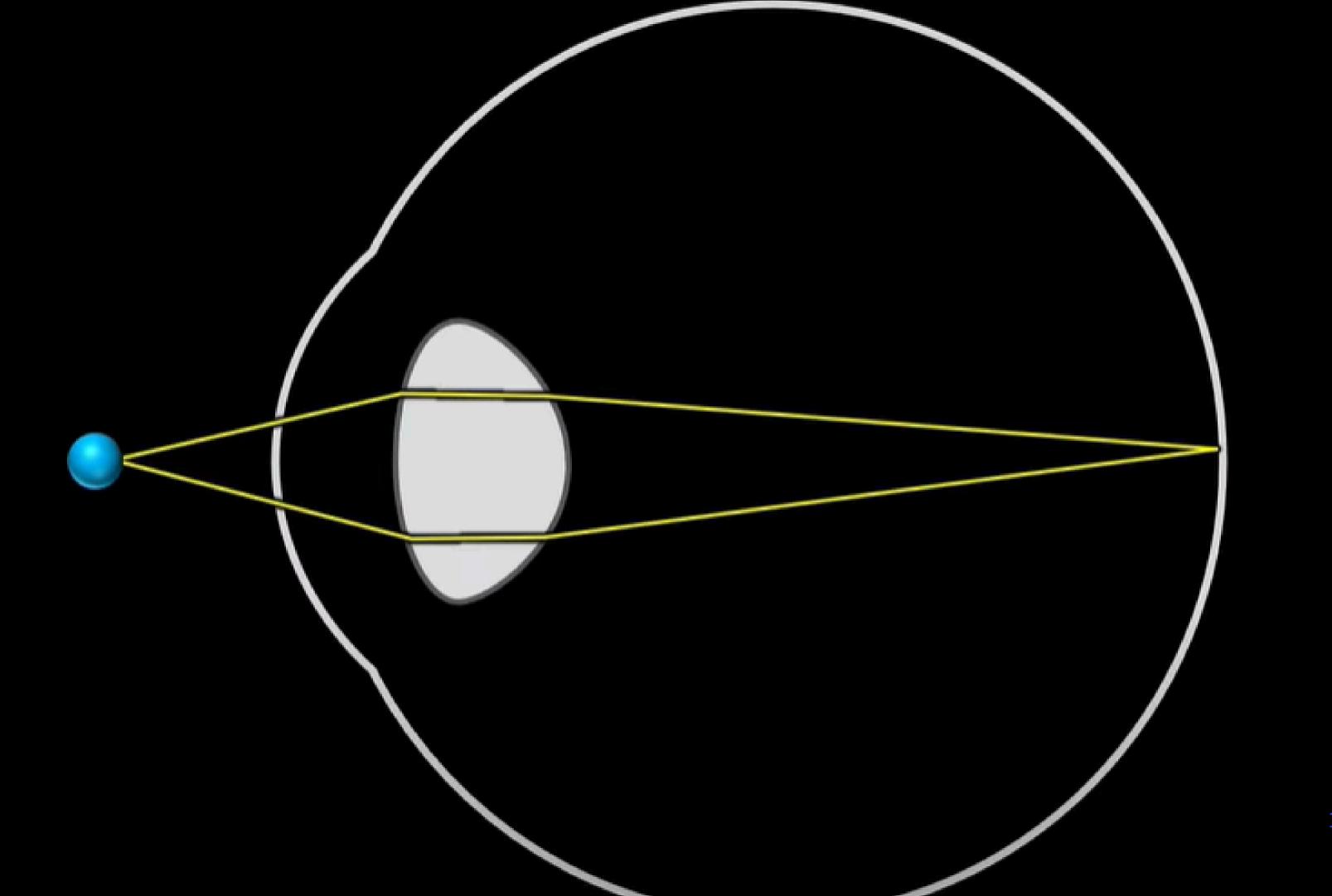


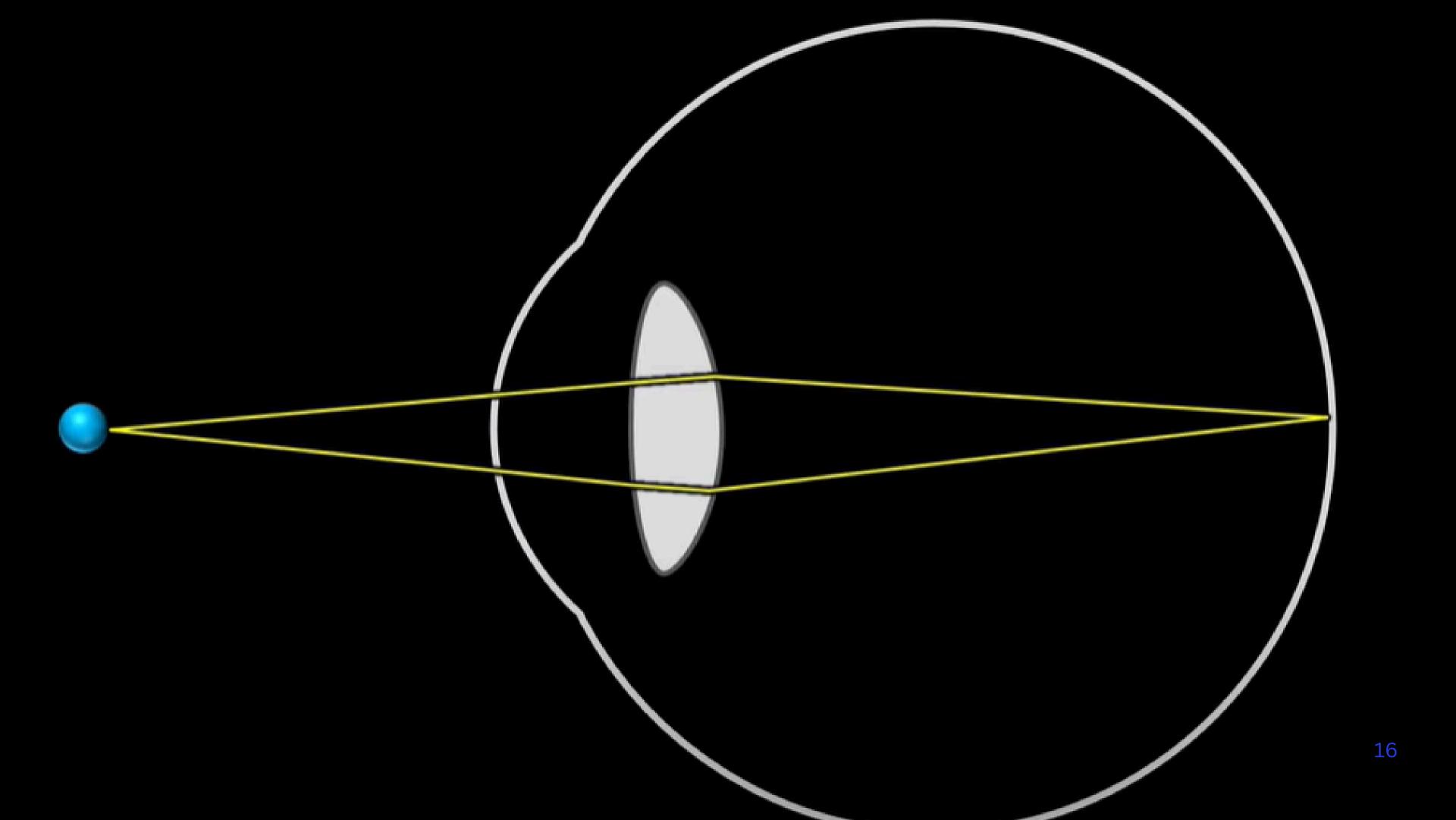


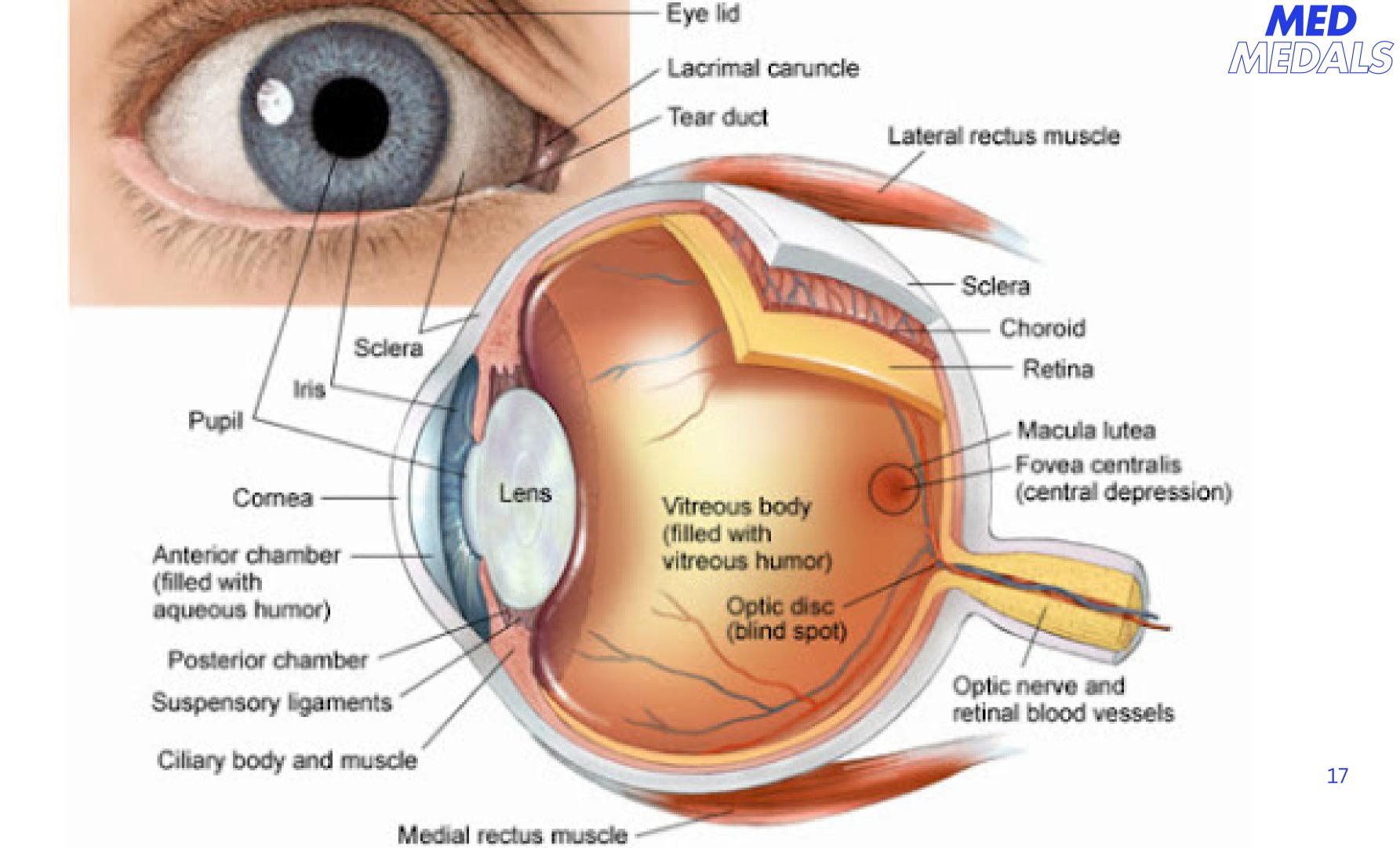


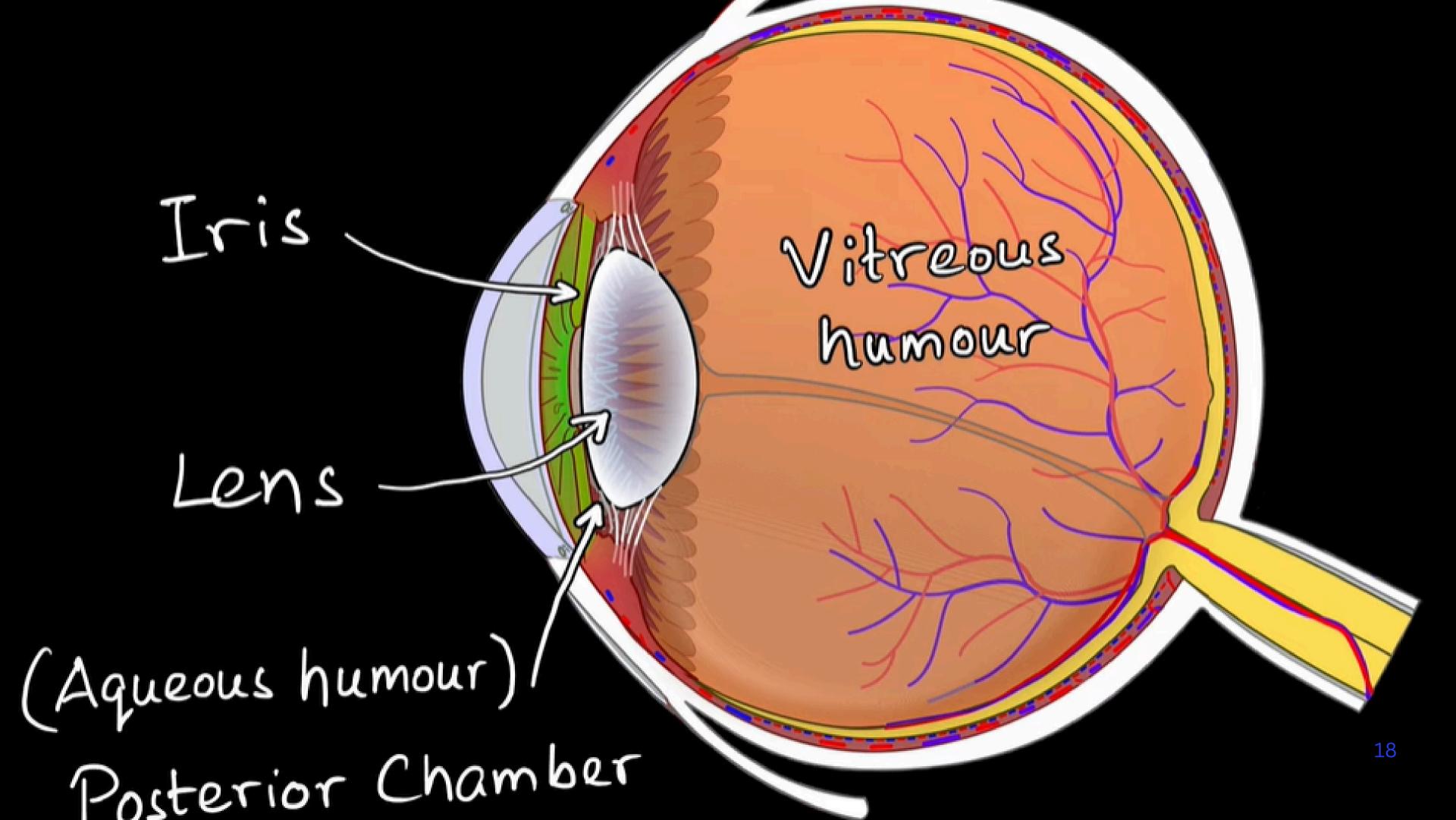


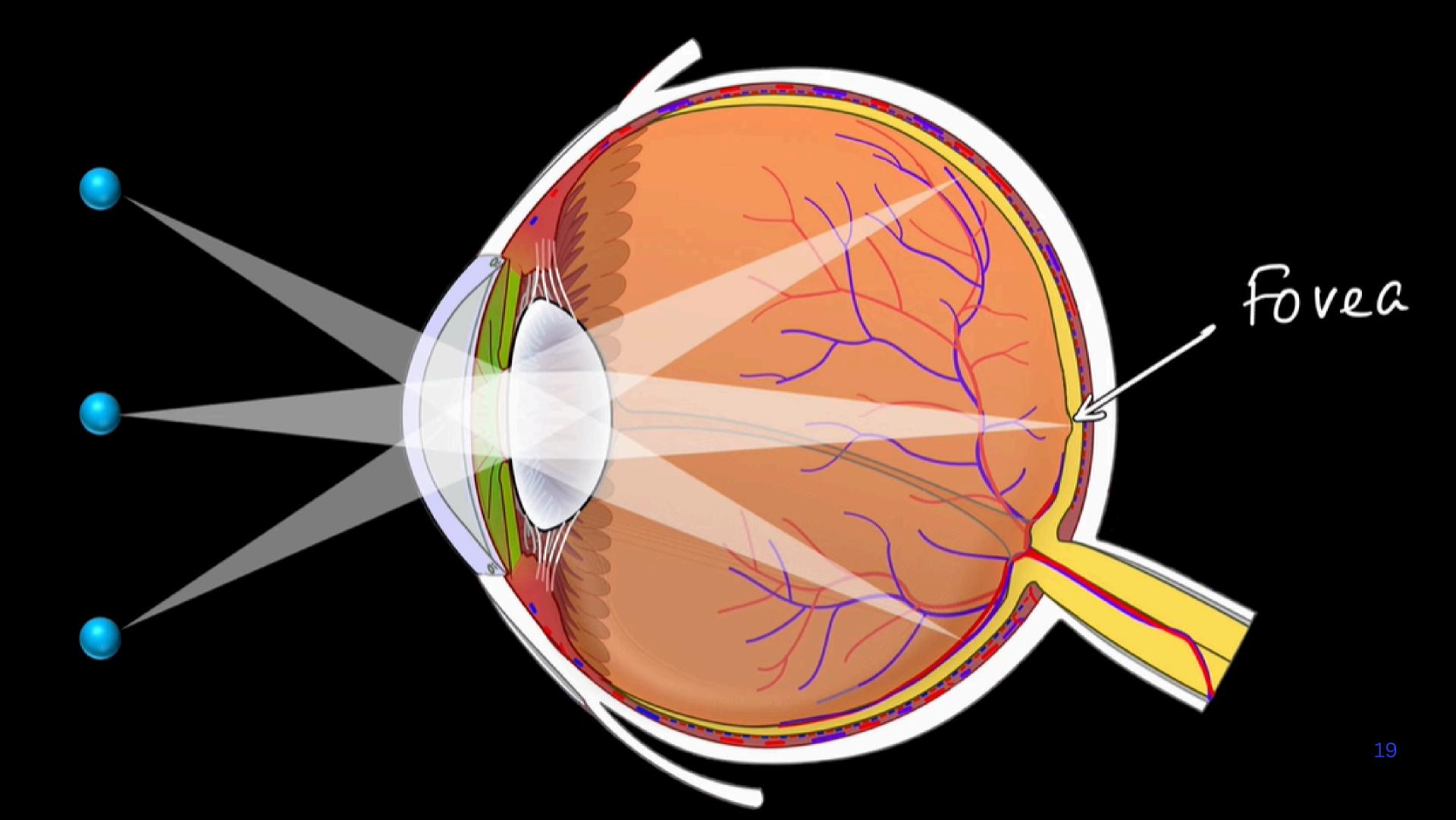


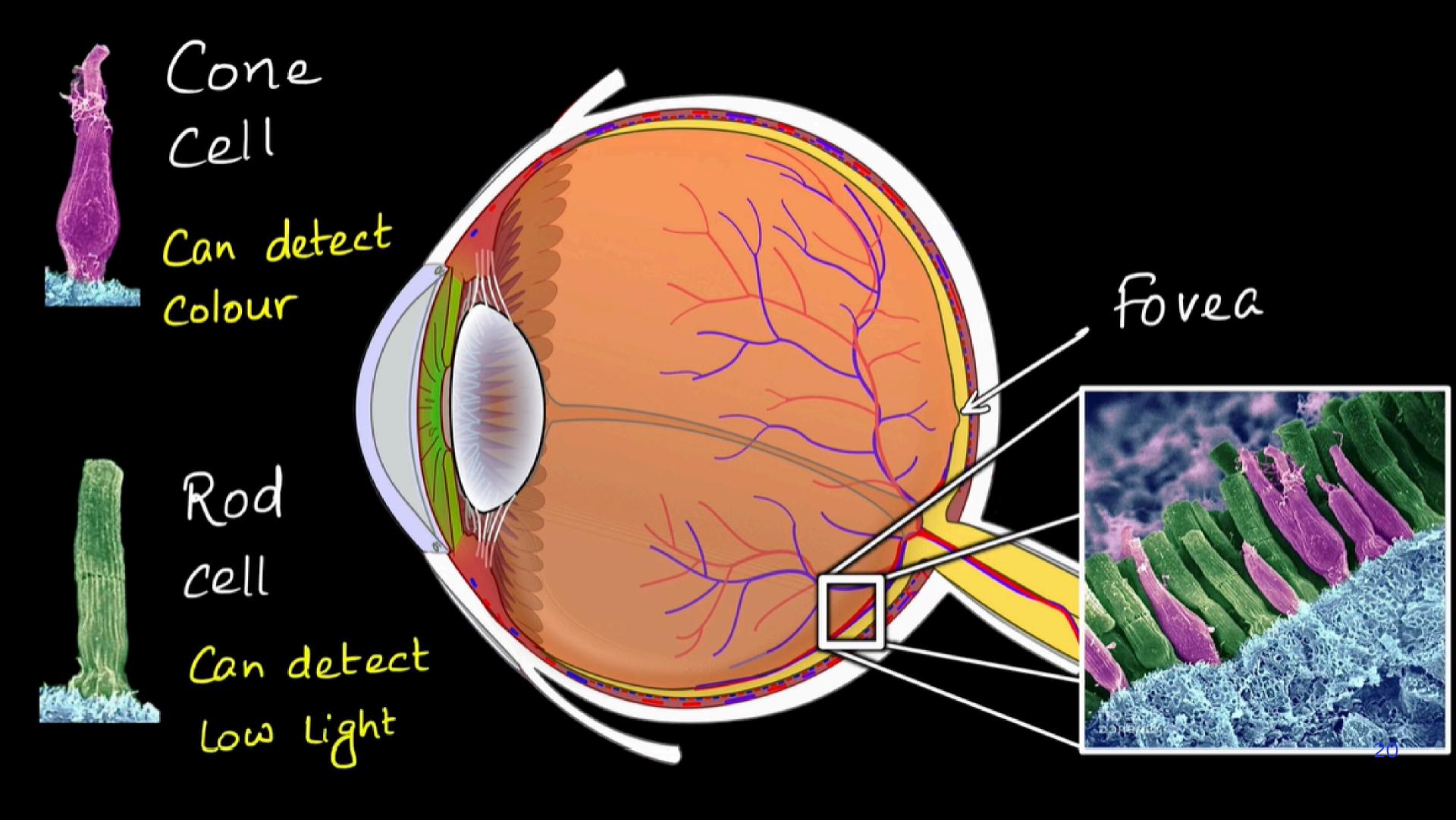




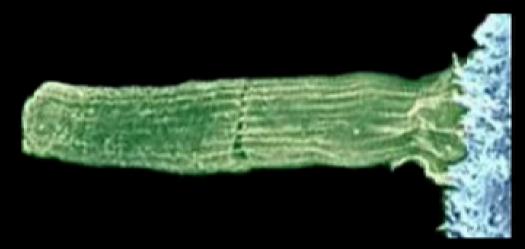








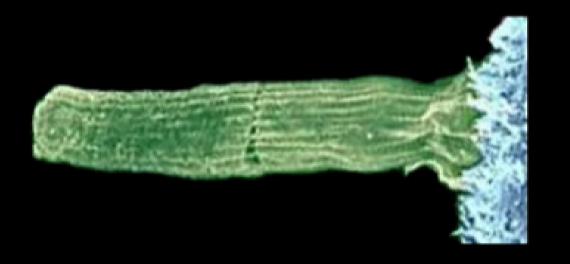


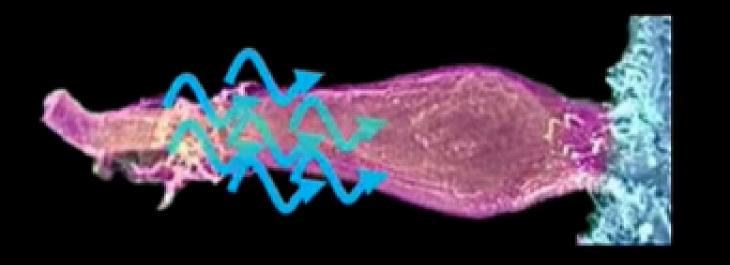


Photon is packet of energy for light / electromagnetic radiation

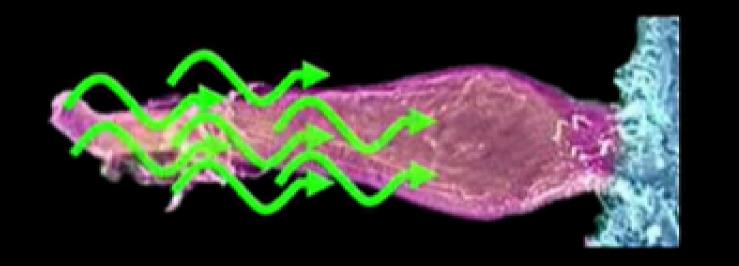
Rod cells contain Rhodopsin

It contains a derivative of vitamin A

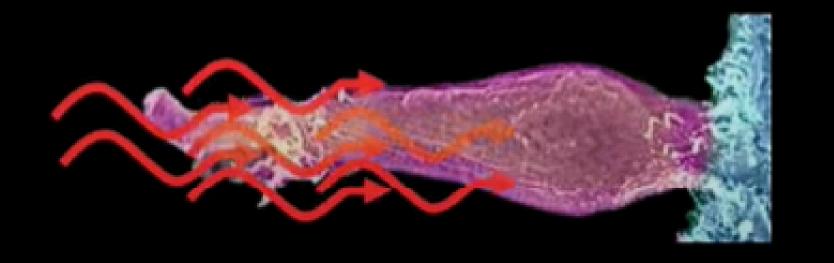




OPN1SW



OPN1MW

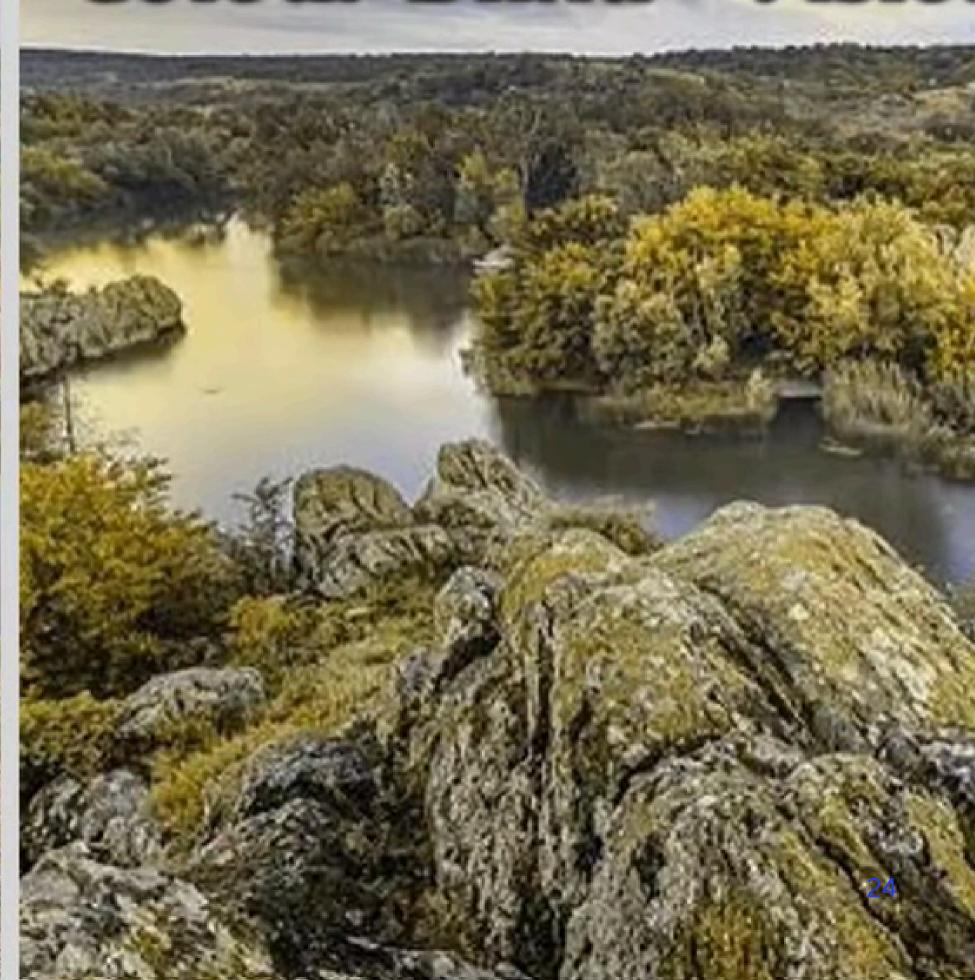


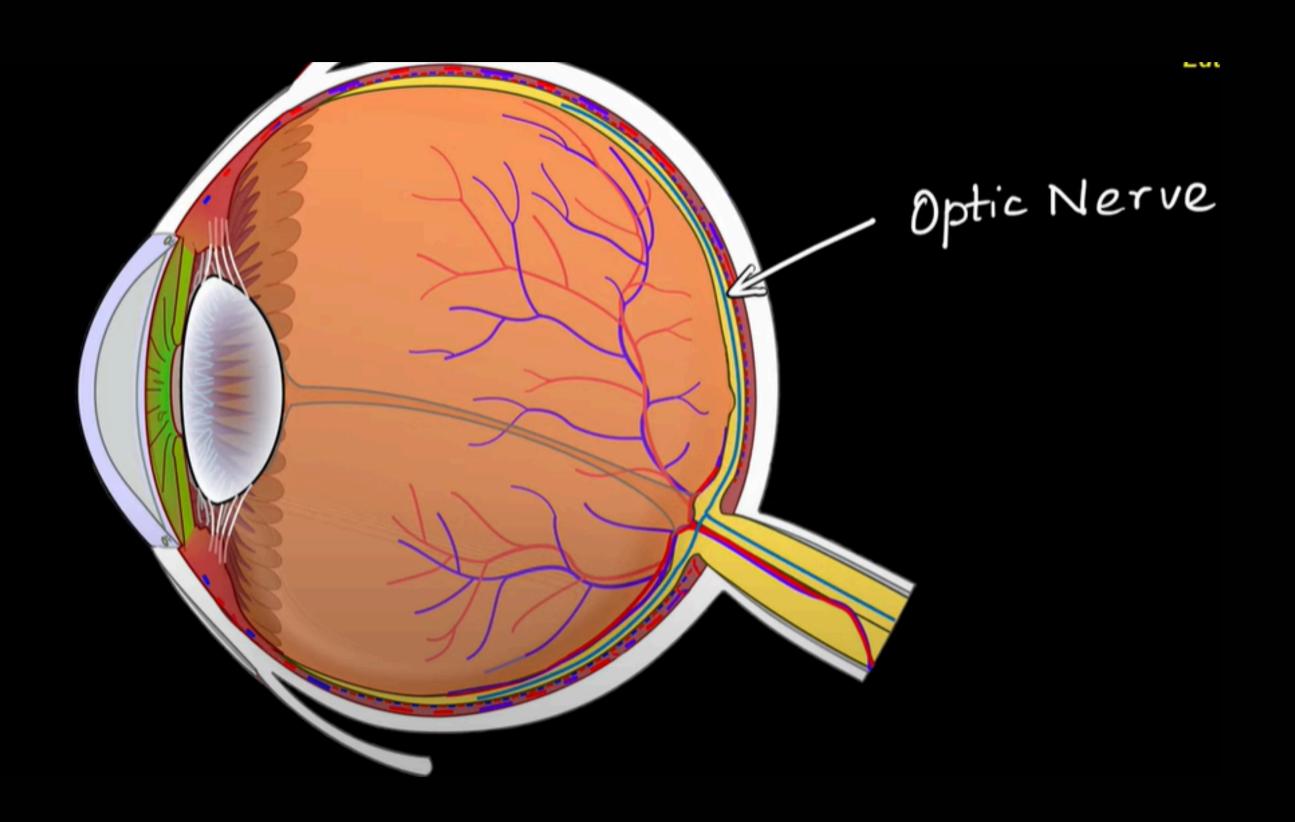
OPN1LW

Normal Vision

Colour Blind - Visio

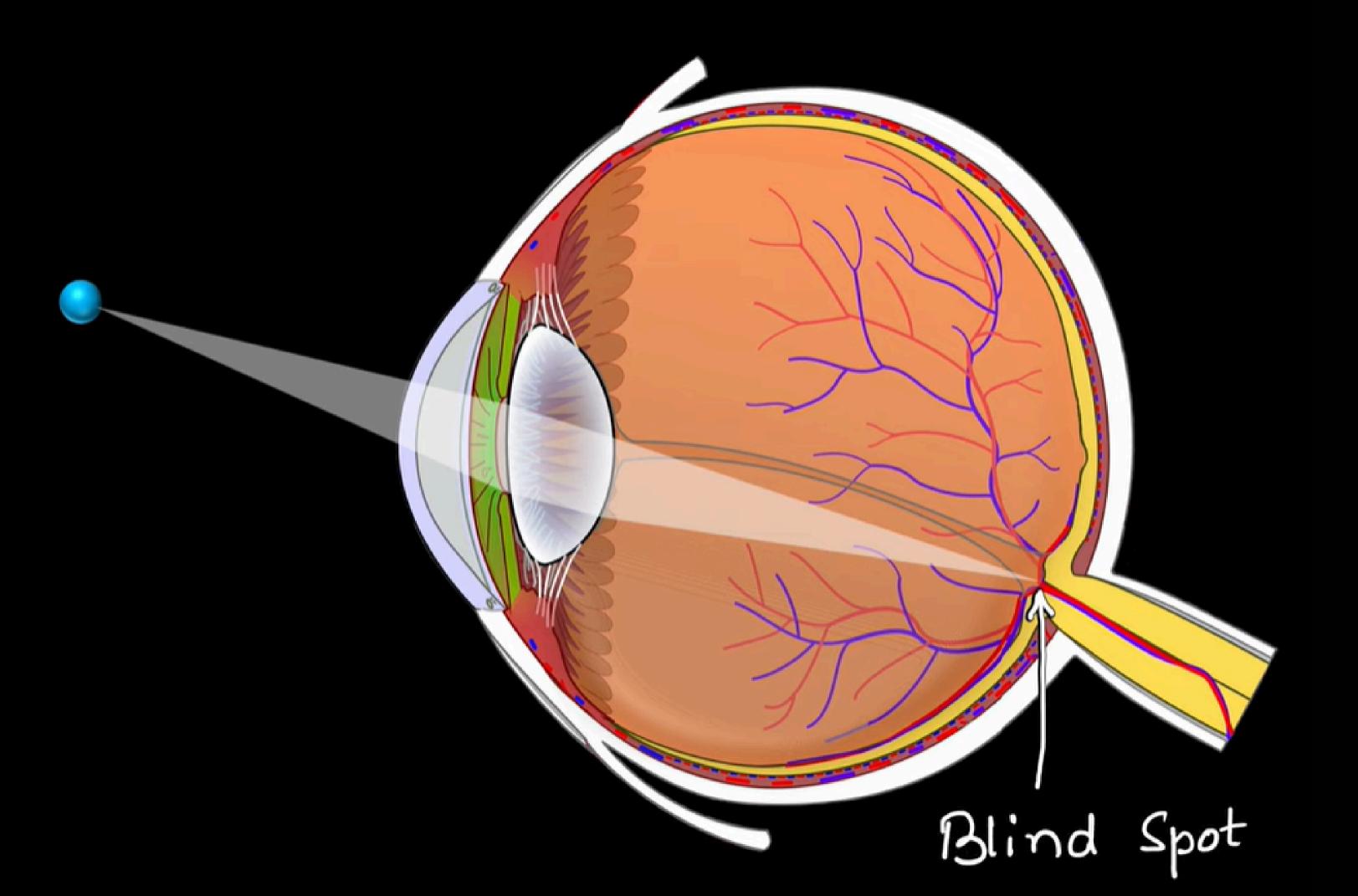




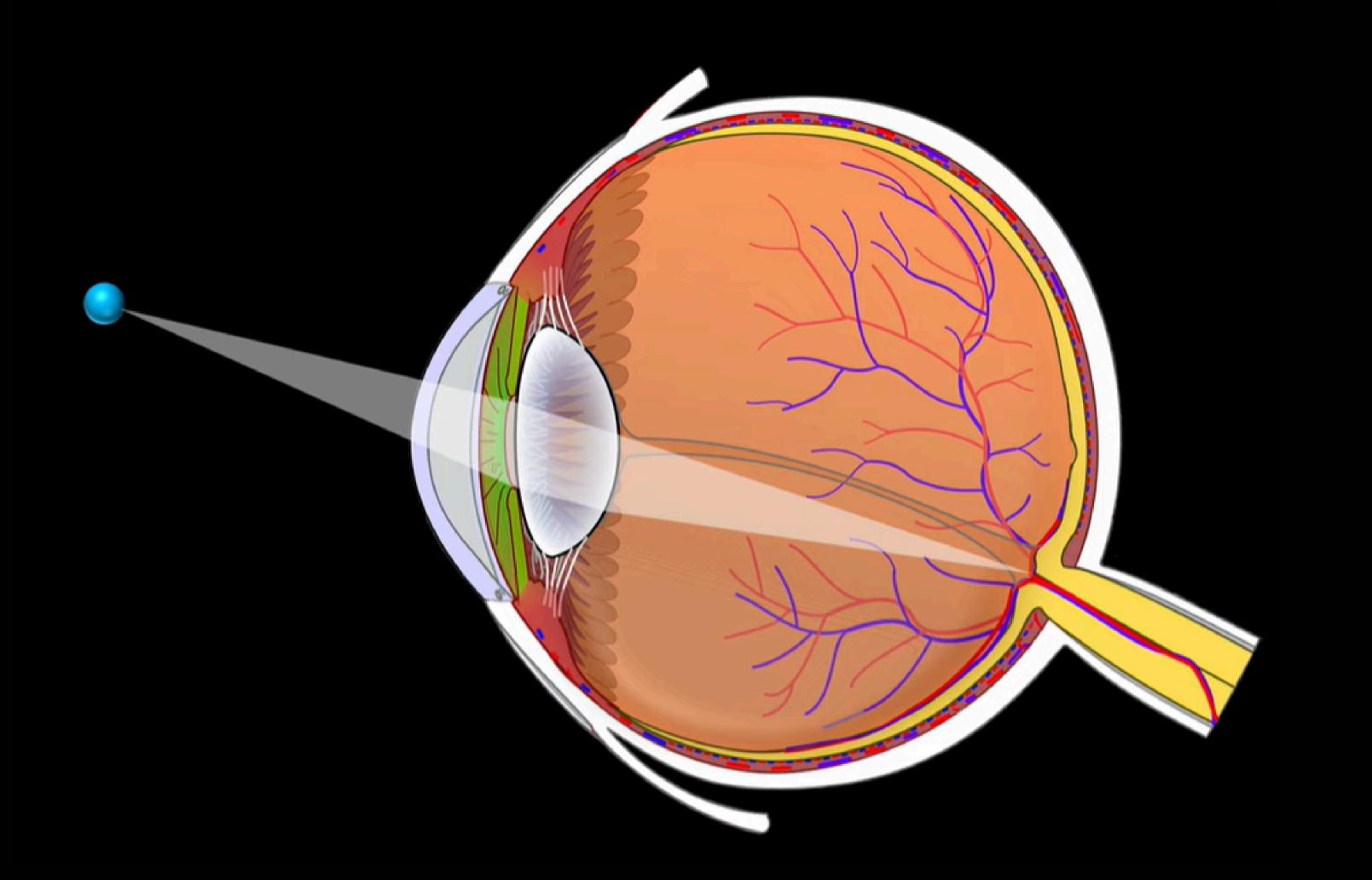


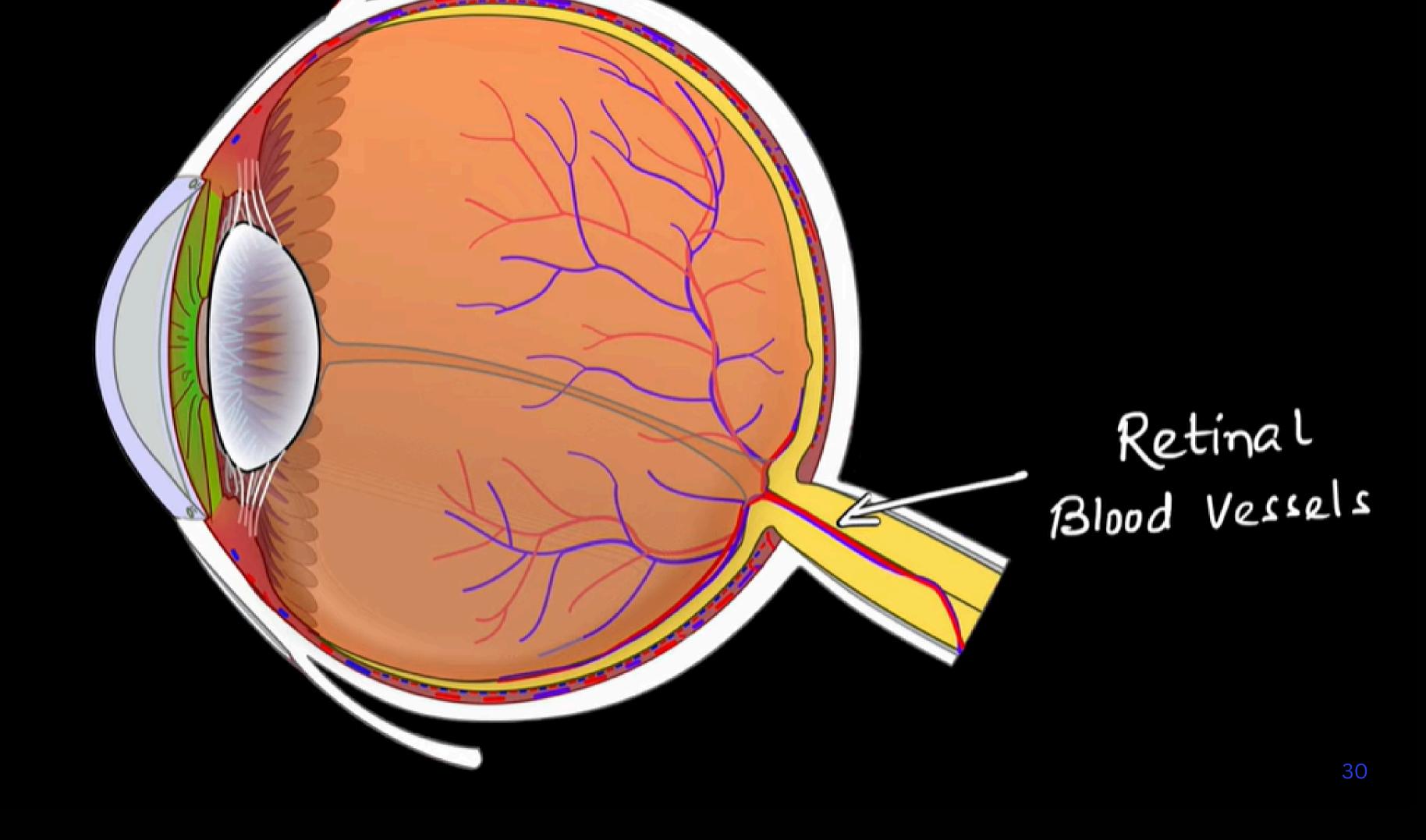


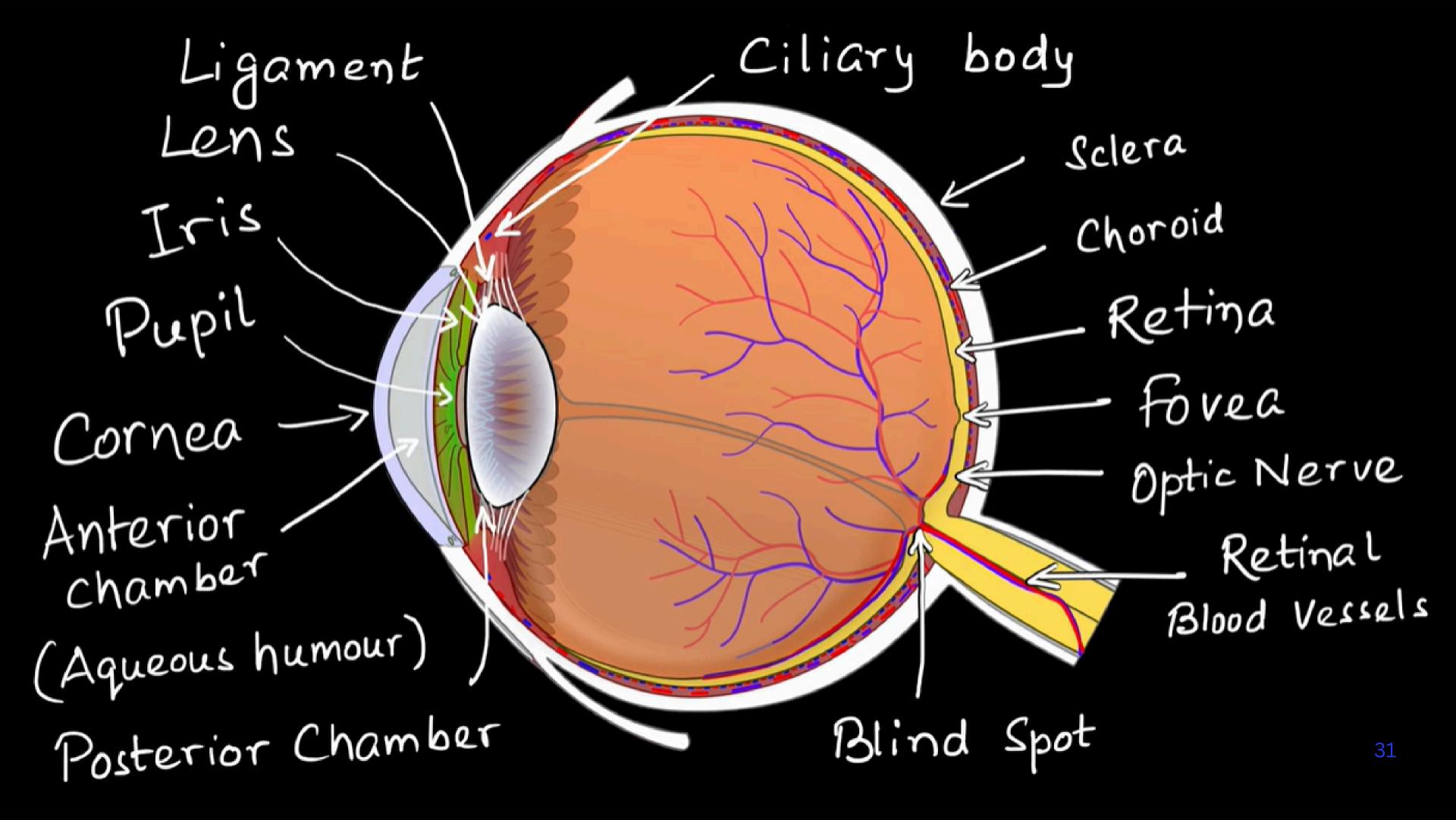
Occipital lobe













STRUCTURE AND FUNCTION OF EYE

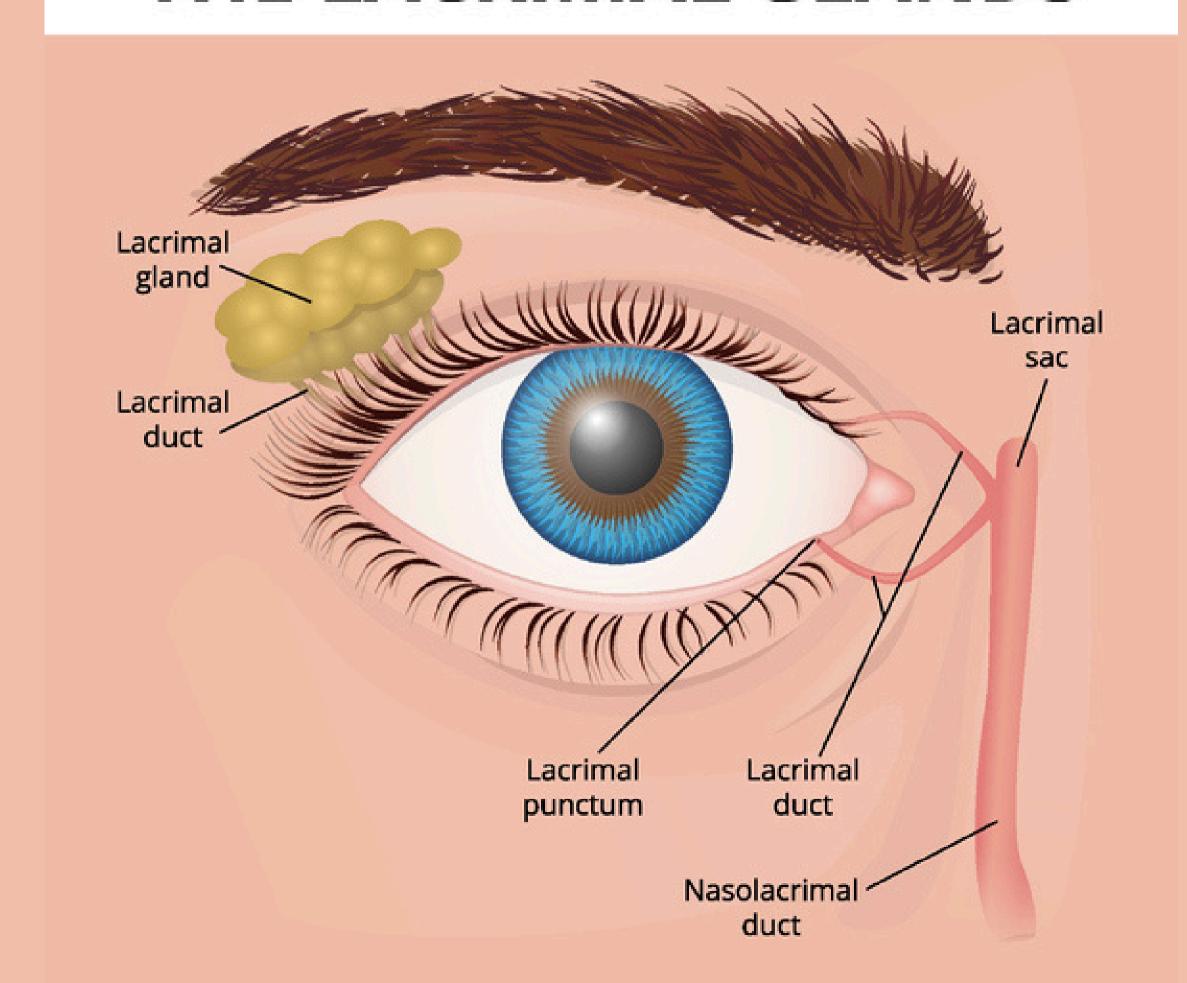
LAYERS OF EYE

- Lacrimal Gland: Located above the outer corner of each eye, it produces tears that keep the eye moist, nourish the cornea, and flush away small particles.
- Lacrimal Ducts: These small channels drain tears from the lacrimal gland onto the surface of the eye.
- Lacrimal Puncta, Canaliculi, and Sac: Tears drain from the eye's surface into the lacrimal puncta (small openings in the inner corner), pass through canaliculi, and collect in the lacrimal sac.
- Nasolacrimal Duct: Connects the lacrimal sac to the nasal cavity, allowing tears to drain into the nose.

While not directly part of the eye's visual function, the lacrimal system supports the eye's health and is essential for maintaining a clear optical surface, which indirectly aids in vision.

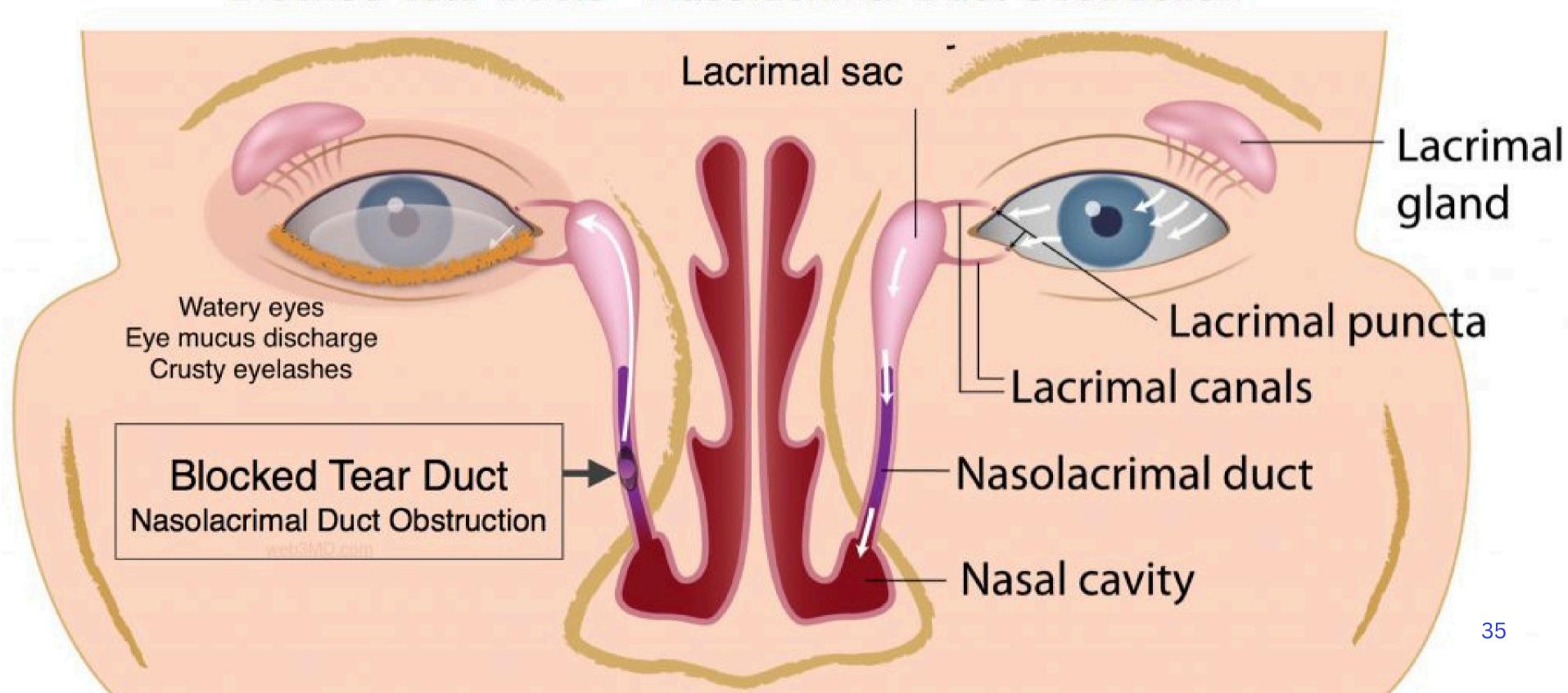
THE LACRIMAL GLANDS

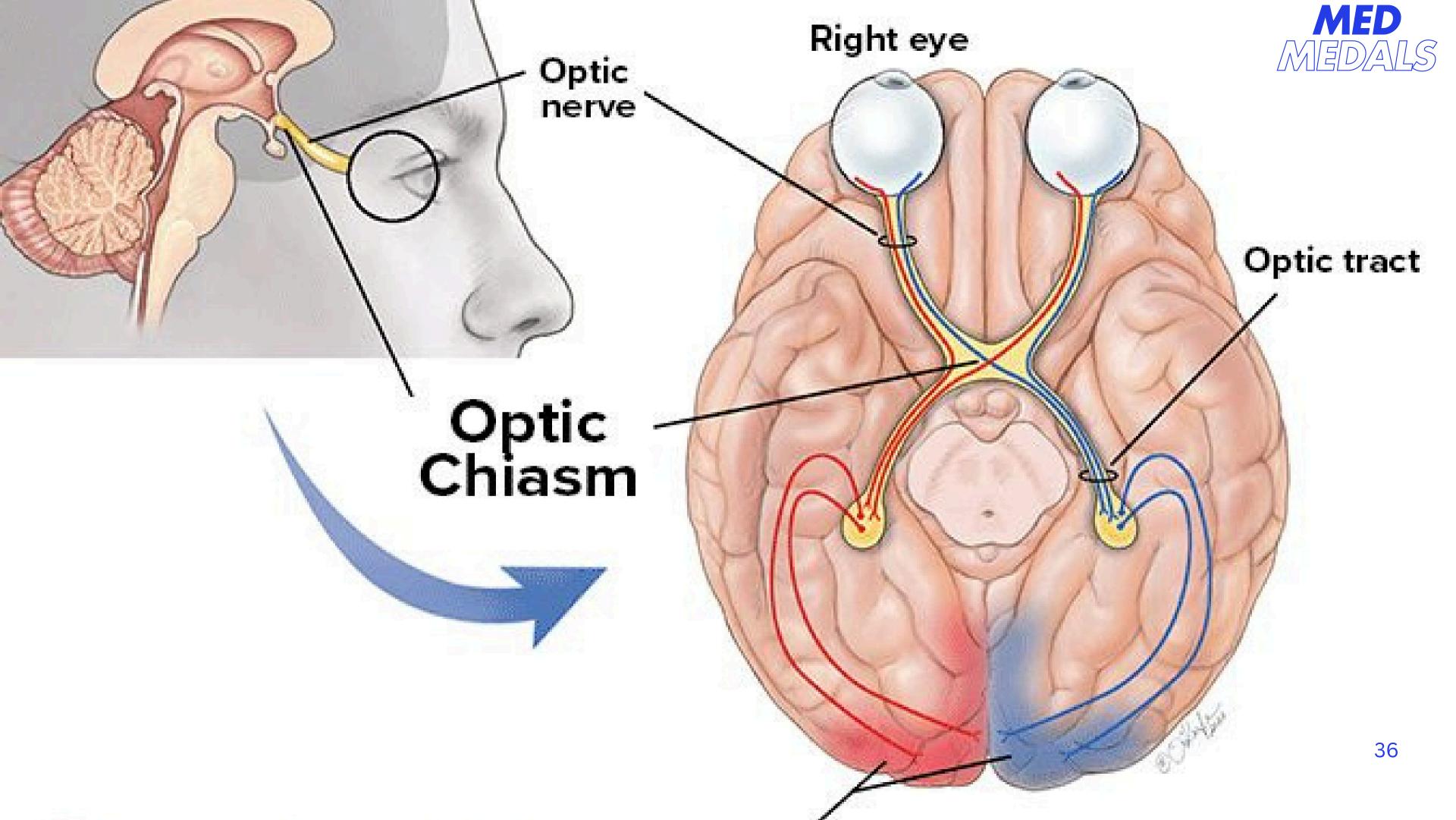


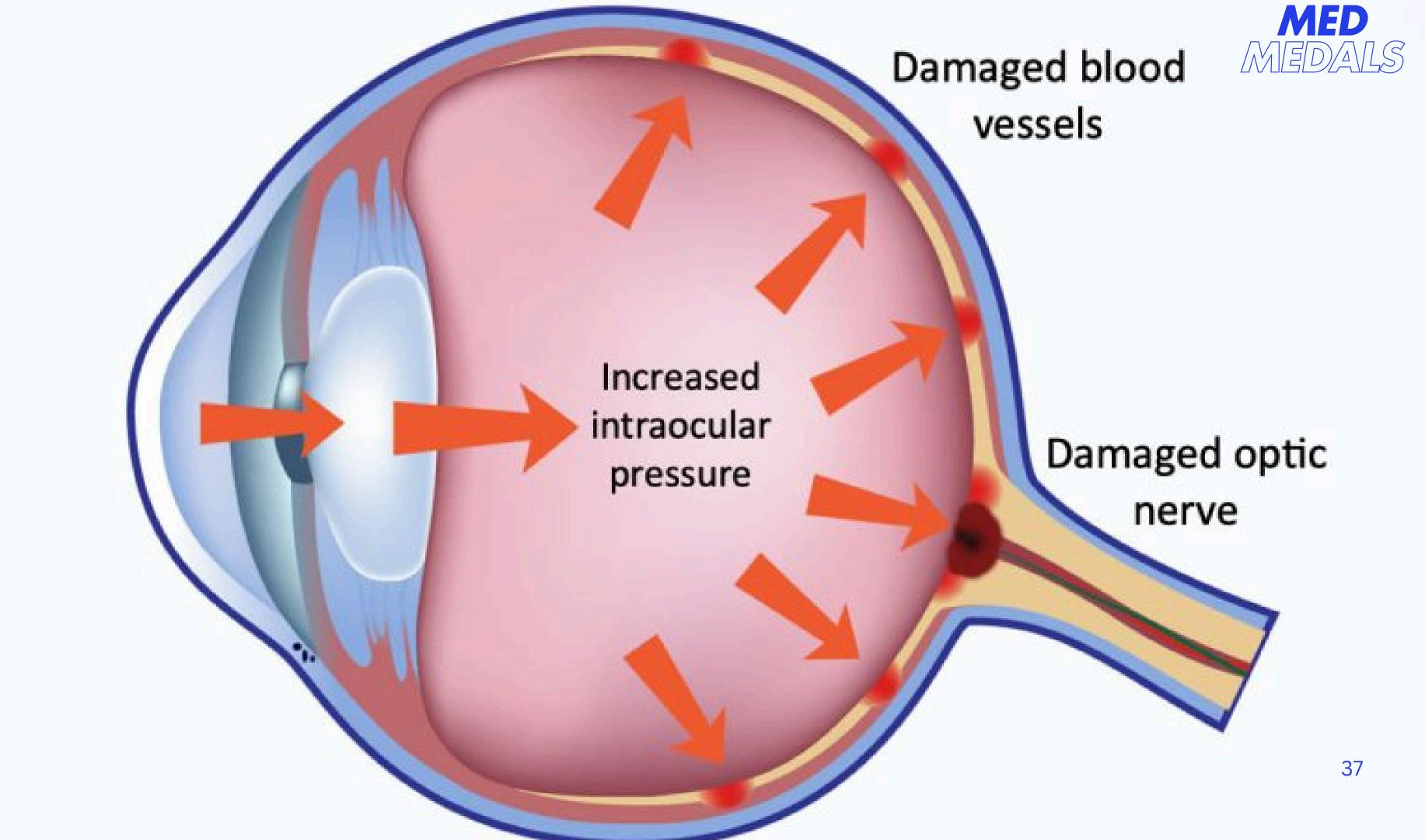




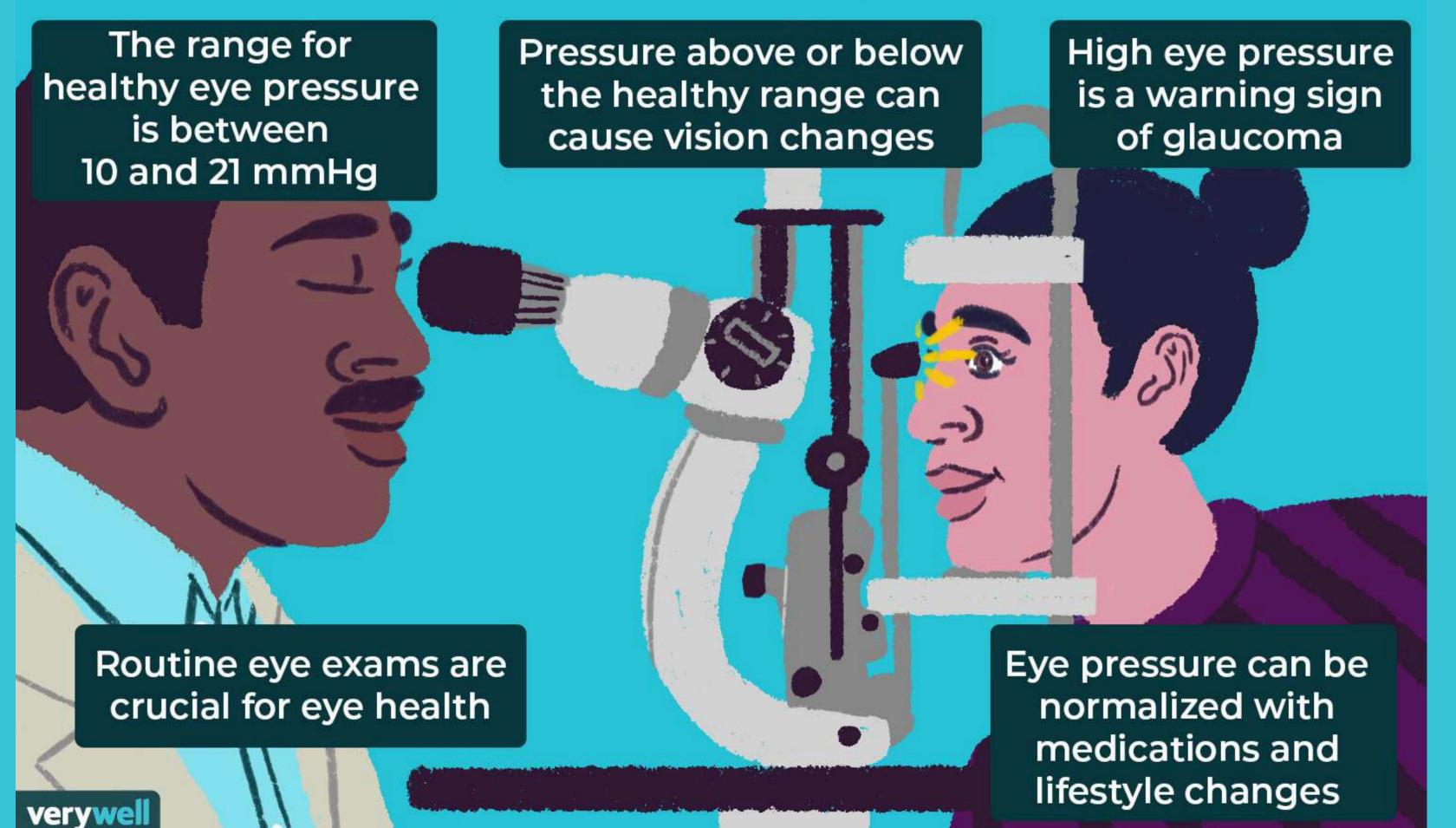
Blocked Tear Ducts - Nasolacrimal Duct Obstruction





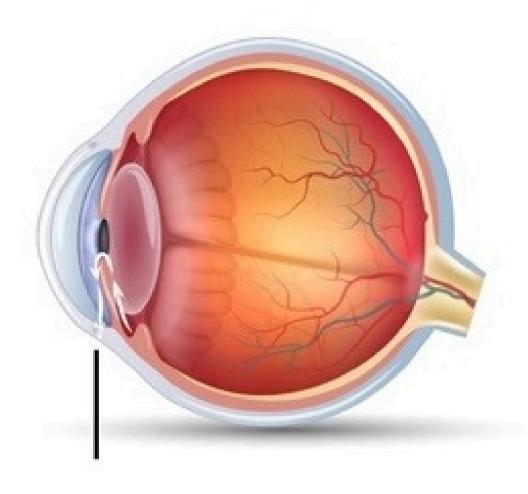


The Importance of Eye Pressure



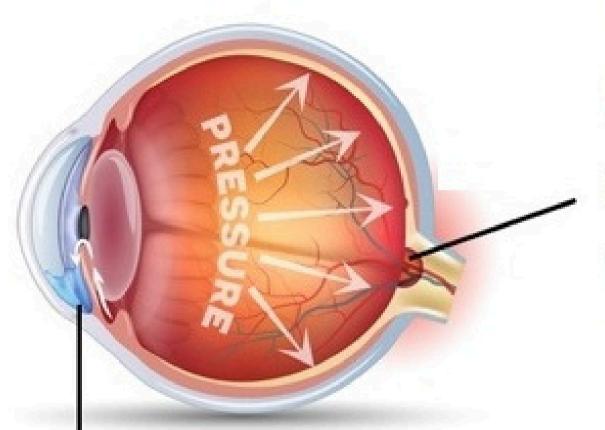


Normal Eye



Normal Eye Drainage Is Clear Fluid Flow Controls Eye Pressure

Glaucoma



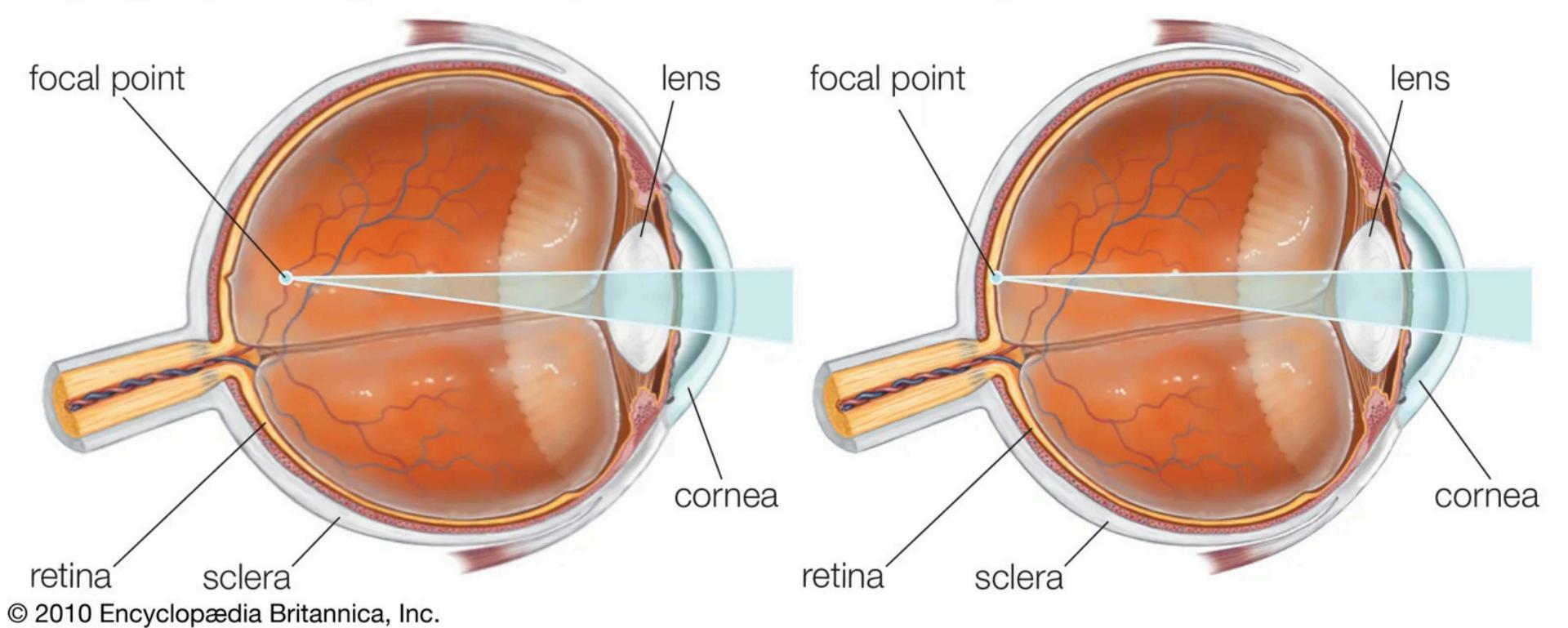
Increased
Eye Pressure
Can Damage
The Optic Nerve

Eye Drainage Canal Blocked Fluid Builds Up The Eye Pressure



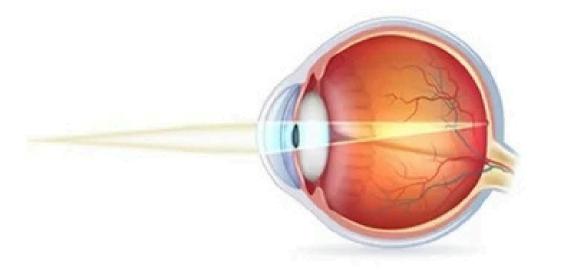
Myopia (nearsightedness)

Normal eye



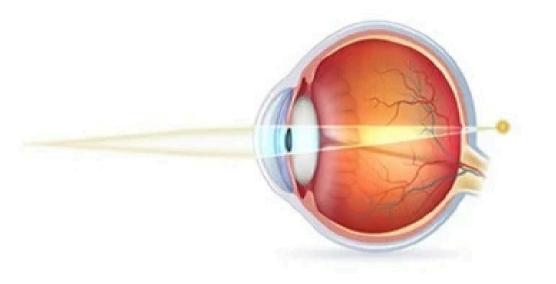
NORMAL VISION AND HYPEROPIA





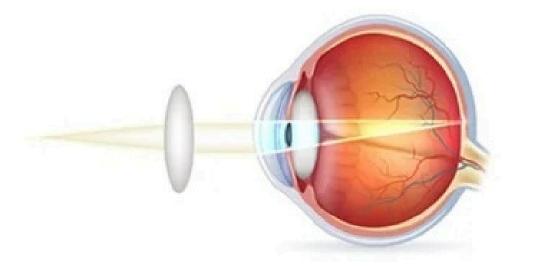
NORMAL VISION

NEAR OBJECT IS CLEAR



HYPEROPIA

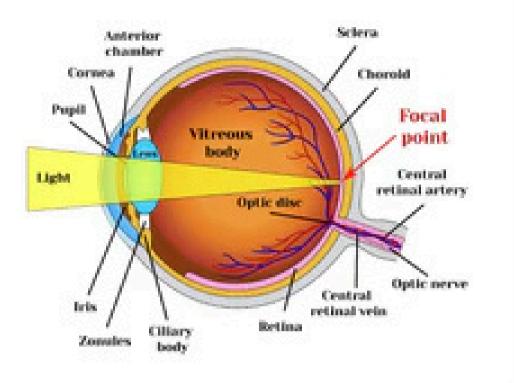
FARSIGHTED EYE
THE EYEBALL IS TOO SHORT
NEAR OBJECT IS BLURRY



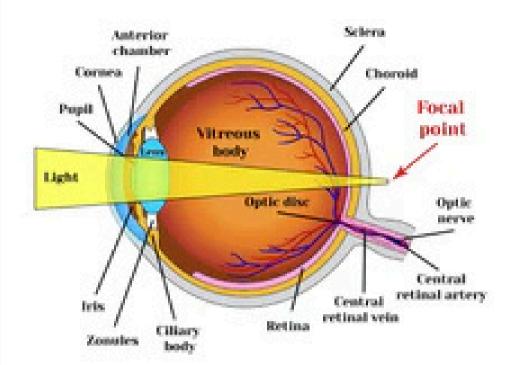
HYPEROPIA CORRECTED

CORRECTION WITH A PLUS LENS

Normal vision

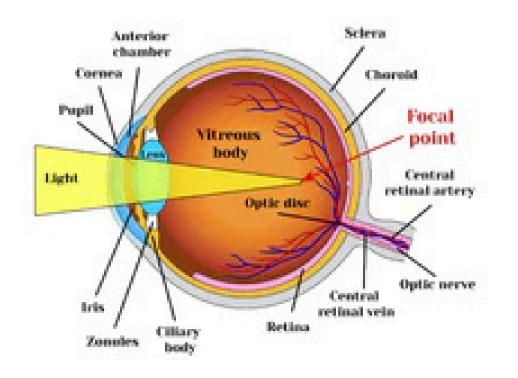


Hyperopia

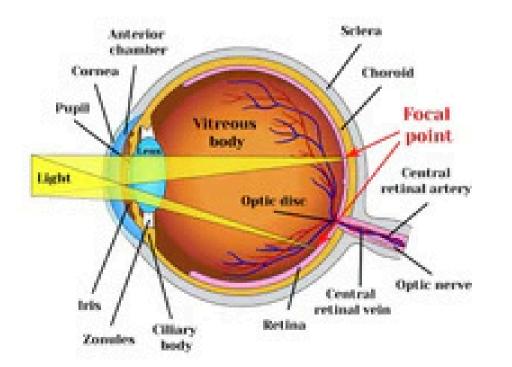


Refractive errors

Myopia



Astigmatism





Vision correction

