Ch. 16 The Special Senses - The Eye

1. Know the 3 layers (tunics) of the eyeball and the structures included in these tunics and their functions

Fibrous (most superficial)

2 Structures:

- Sclera: white of eye; continuation of dura mater of the brain; provides anchoring for extrinsic eye
 muscles
- Cornea: anterior clear part of eye where light enters
- · Limbus: junction of sclera and comea
 - Sclera Venous Sinus: anterior cavity of eye in limbus that drains aqueous humor

Vascular

- Choroid: another name for vascular layer; forms posterior 5/6 of vascular tunic, continuous with ciliary body, prevents light scatter
- Ciliary Body: ring of tissue that encircles the lens, made of smooth muscle
 - Accommodation: ciliary body contains ligaments that contract lens to focus lens; lens bulges so you can look at things close or far away
 - Makes aqueous humor that is going to bathe anterior cavity of eye
 - Suspensory ligaments
- Iris: colored part of eye, allows light to enter, smooth muscle
 - Sphincter Pupillae Muscle (medial): contraction = pupil size decreases, parasympathetic
 - Dilator Pupillae Muscle (lateral): contraction = pupil size increases, sympathetic
- Pupil: opening of iris, opening for light
 - allows agueous humor to flow between two anterior chambers

Retina (most deep)

2 layers:

- Pigmented Layer (deepest layer): absorbs light and prevent scatter
- Neural Layer: nervous tissue, everything superficial to pigmented layer
 - Photoreceptors
 - Cones: color, high light
 - Rods: dim light
 - Bipolar neurons
 - sensory neurons
 - Ganglion cell
 - collection of cell bodies
 - their axons extend to the optic nerve
- Ora Serrata:
 - neural laver meets ciliary body
 - boundary between retina and ciliary body
- Macula Lutea:
 - yellow oval spot at the center of the retina (back of the eye), part of the retina that is responsible for sharp, detailed central vision
- Fovea Centralis
 - highest concentration of cones in retina; most acute vision area
- Optic Disc:
 - blind spot (where optic nerves exits the back of eyeball)
 - no rods and cones in this area.
- Know the accessory structures of the eye as discussed in class: eyelids and their structures, levator palpebrae superioris, ciliary glands

Anatomy Special Senses Study Guide

Edith Applegate

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