

SPECIAL SENSES

ANATOMY OF THE EYE

Special Senses | Anatomy of the Eye

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Medical Editor: Sohani Kashi Puranic

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I) OVERVIEW

- The eye is the organ of sight. It resembles a camera in its structure.
- The various structures in the eyeball, from anterior to posterior are:
 - Cornea, Sclera
 - Anterior chamber
 - Pupil, Iris
 - Posterior Chamber
 - Ciliary body
 - Lens
 - Posterior segment
 - Choroid
 - Retina
 - Optic Nerve

- These structures are discussed in detail below

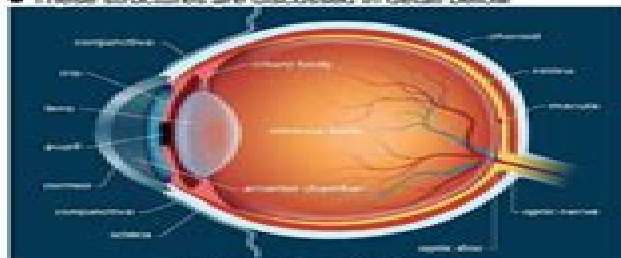


Figure 1: Anatomy of the Eye
(anterior-posterior view)

II) CHAMBERS & SEGMENTS OF THE EYE

(A) ANTERIOR SEGMENT

(1) Anterior Chamber

- Between Cornea & Iris

(2) Posterior Chamber

- Between Iris & Lens

(B) POSTERIOR SEGMENT

- Between Lens & Retina
- Filled with Vitreous Humour

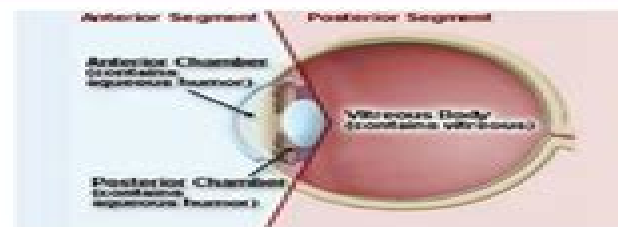


Figure 2: Chambers and Segments of the Eye
(anterior-posterior view)

III) TUNICS OF THE EYE

(A) FIBROUS TUNIC

(1) Sclera

- Layers:

- (i) Epithelium
 - Outermost layer
 - Dense irregular fibrous connective tissue
- (ii) Sclera proper
 - Middle layer
 - Collagen
- (iii) Lamina fusca
 - Innermost layer
 - Pigmented

- Clinical correlation:

- Jaundice
 - Yellow discoloration of sclera
 - Prominent in **Gilbert's disease**



Figure 3: Jaundice
(sclera)

(2) Cornea

- Layers:

- (i) Epithelial layer
 - Outermost layer
 - Nociceptors (pain receptors)
- (ii) Bowman's membrane
- (iii) Stromal layer
- (iv) Descemet's membrane
- (v) Endothelial layer
 - Innermost layer
 - Provides little blood supply for nutrition



ANATOMY OF THE EYE

SPECIAL SENSES: Nose (1)

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Anatomy And Physiology Eyes And Ears Packet

Yicheng Fang



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