

# SPECIAL SENSES

## ANATOMY OF THE EYE

Special Senses | Anatomy of the Eye

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### OUTLINE

- I) OVERVIEW
- II) CHAMBERS & SEGMENTS OF THE EYE
- III) TUNICS OF THE EYE
- IV) LENS
- V) VITREOUS HUMOUR
- VI) OPTIC NERVE
- VII) EYELID/ PALPEBRA
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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

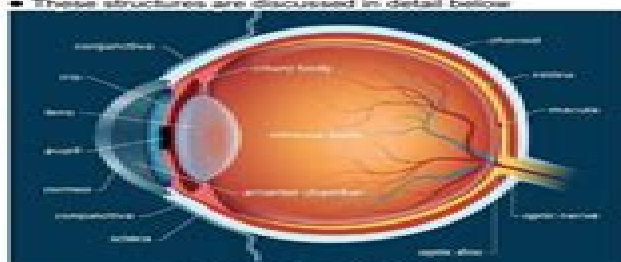


Figure 1: Anatomy of the Eye  
(anterior-posterior view)

### 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

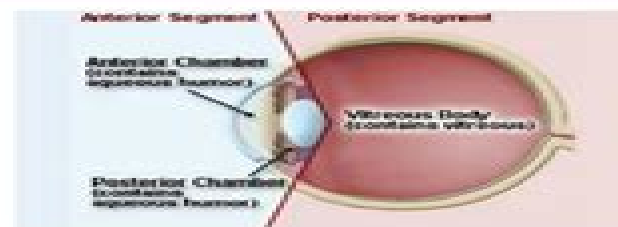


Figure 2: Chambers and Segments of the Eye  
(anterior-posterior view)

### 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  
(extra view)

##### (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



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