

## Terminology in Healthcare and Public Health Settings

### Unit 8-Eyes, Ears, Nose and Throat Lecture 8b-Eyes and Vision

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## Eyes and Vision Objectives

- Define, understand and correctly pronounce medical terms related to the eyes and vision
- Describe the following related to the eyes and vision
  - common diseases and conditions
  - laboratory and diagnostic procedures
  - medical and surgical procedures
  - medications

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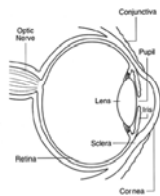
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## Anatomy of the Eye

- Sclera
  - Tough white outer covering of the eyeball
- Cornea
  - Clear and has a curved surface that allows light to enter the eye
- Iris
  - Colored part of the eye
  - Shrinks and expands so the pupil can adjust to the incoming light



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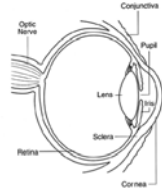
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## Anatomy of the Eye

- **Lens**
  - Clear part of the eye behind the iris
  - Helps to focus the light onto the retina
- **Retina**
  - Light sensitive receptor cells carry images to the brain through the optic nerve
- **Optic Nerve**
  - A bundle of more than one million nerve fibers that carries visual messages from the retina to the brain



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## Eye Disorders and Diseases

- **Cataract**
  - **Definition**
  - **Symptoms**
  - **Treatment**

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## Eye Disorders and Diseases

- **Cataract**
  - Definition
  - Symptoms
  - Treatment
- **Color Blindness – three types**
  - Red-green color vision defects
  - Blue-yellow color vision defects
  - Absence of color vision

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## Eye Disorders and Diseases

- Cataract
  - Definition
  - Symptoms
  - Treatment
- Color Blindness – three types
  - Red-green color vision defects
  - Blue-yellow color vision defects
  - Absence of color vision
- **Diabetic Retinopathy**
  - **Definition**
  - **Symptoms**
  - **Treatment**

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## Eye Disorders and Diseases

- Glaucoma
  - Definition
  - Risk factors
  - Symptoms
  - Treatment

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## Eye Disorders and Diseases

- Glaucoma
  - Definition
  - Risk factors
  - Symptoms
  - Treatment
- **Eye Infections**
  - **Conjunctivitis**
  - **Sty**

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## Eye Disorders and Diseases

- **Macular Degeneration**
  - Definition
  - Symptoms
  - Treatment

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## Eye Disorders and Diseases

- **Macular Degeneration**
  - Definition
  - Symptoms
  - Treatment
- **Refractive Errors**
  - **Myopia**
  - **Hyperopia**
  - **Presbyopia**
  - **Astigmatism**

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## Eye Disorders and Diseases

- **Eye Cancers**
  - Locations
    - Outer parts
      - Eyelid (muscles, skin & nerves)
    - Intraocular – most common types
      - Melanoma
      - Lymphoma
    - Retinoblastoma in children
  - Treatment
    - Varies by type of cancer and stage
    - Surgery, radiation therapy, freezing or heat therapy or laser therapy

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## Ears and Eyes Combining Forms

Word Part	Meaning	Key Term
blephar/o	eyelid	blepharoplasty
choroid/o	choroid	choroiditis
conjunctiv/o	conjunctiva	conjunctivitis
ocul/o	eye	ocular
ophthalm/o	eye	ophthalmologist
retin/o	retina	retinopathy

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## Unit 8b

Tell me, Detective . . . .

- A 65-year-old female patient returns to her ophthalmologist for an annual checkup. She reports that lately she cannot see objects clearly enough to read or drive, but she can still take her daily walks and participate in her activities by using her side vision. What diagnosis should her physician consider?



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For additional information on content covered in this unit, please visit:

<<http://www.nlm.nih.gov/medlineplus/eyesandvision.html>>

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