

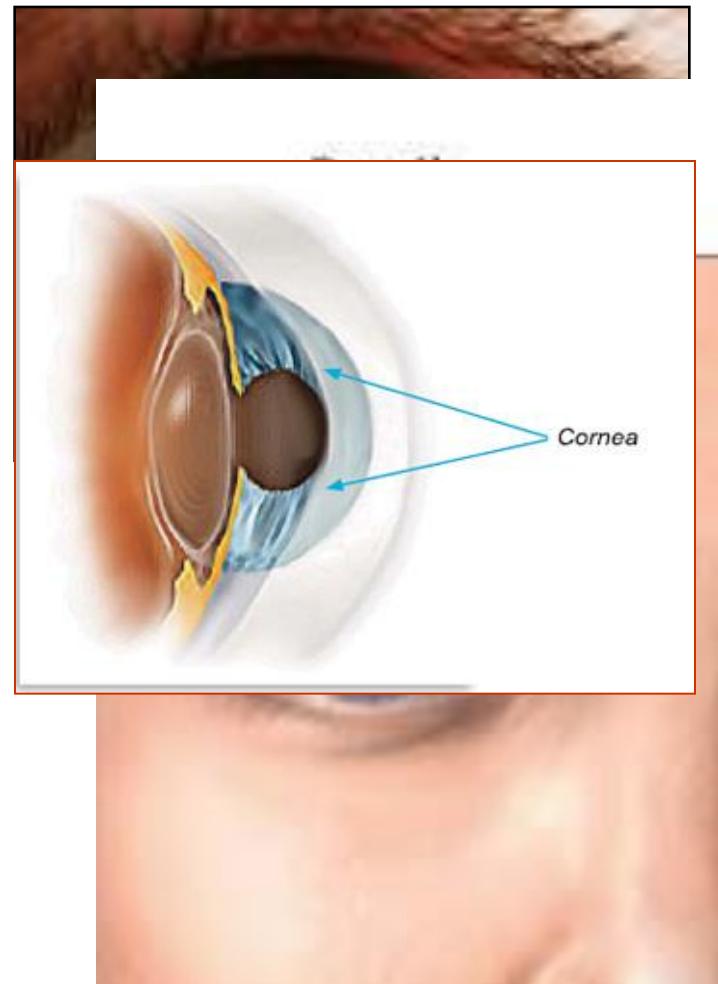


Special Senses: the Eyes & Ears

Units 12 & 13

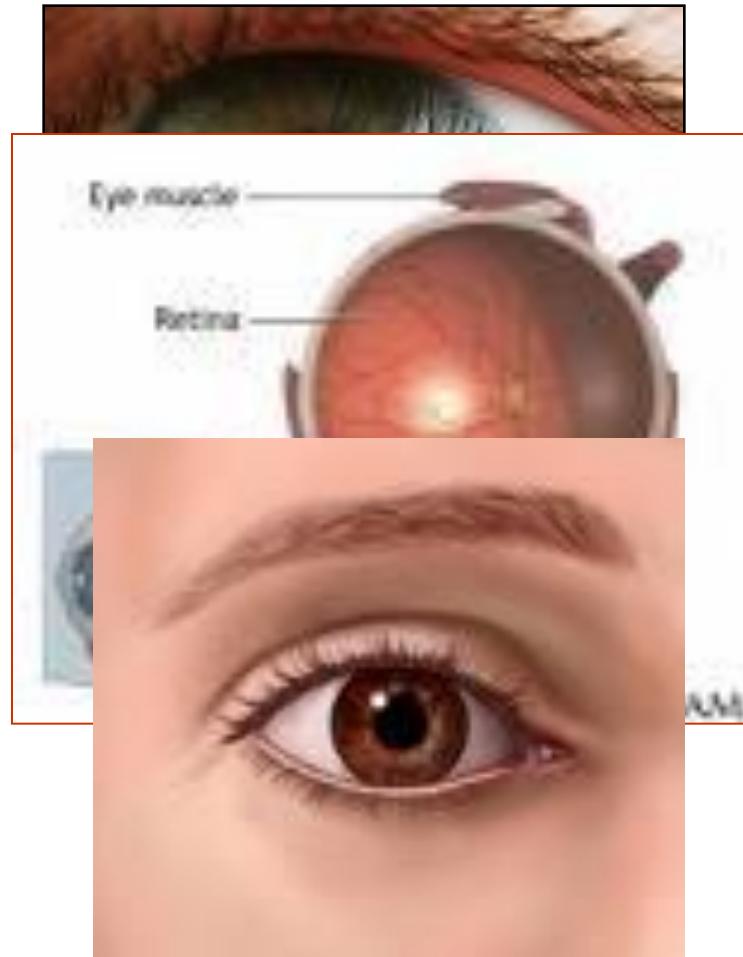
Structure of the Eyes

- **opt/o, optic/o, ocul/o and ophthalm/o**
 - eye(s) or vision
- **corne/o & kerat/o = cornea**
 - transparent, outer layer of eye
 - maintains shape and protects the inner portion
- **cor/o & pupill/o = pupil**
 - black circular portion of eye
 - permits light to enter the eye



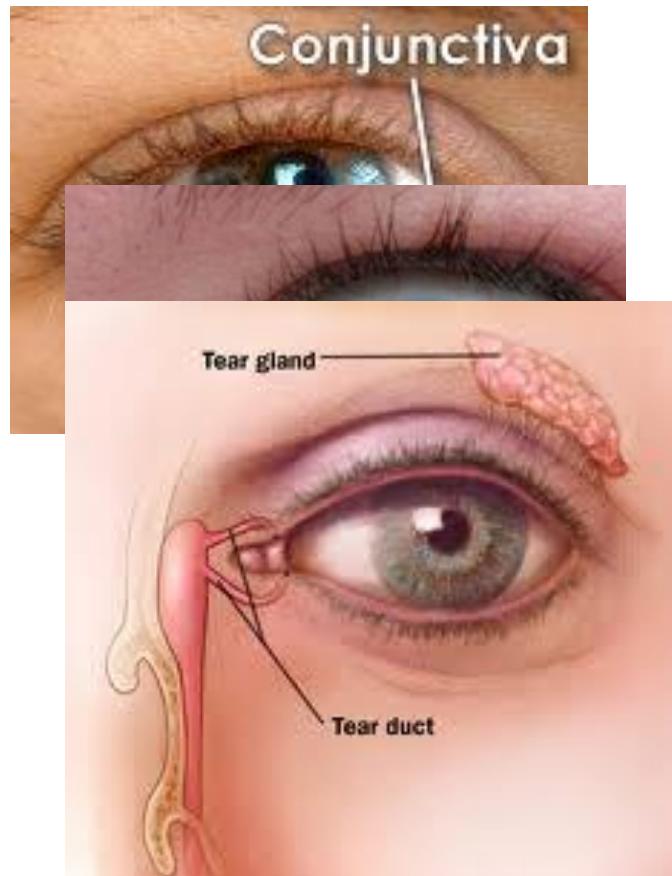
Structure of the Eyes

- **ir/o** = iris
 - colored portion of the eye
 - surrounds the pupil
- **retin/o** = retina
 - converts images into electrical impulses
 - transmits images to the brain
- **blephar/o** = eyelid
 - protects the eye from foreign matter, excessive light, and impact



Structure of the Eyes

- **conjunctiv/o** = conjunctiva
 - mucous membrane lining of the eyelid and sclera
- **scler/o** = sclera
 - white of the eye
- **dacry/o** = tear, tear duct



Pathology of the Eyes

- **cataract** (KAT-ah-rakt)
 - the clouding of the lens of the eye



- **glaucoma** (glaw-KOH-mah)
 - the loss of peripheral vision
 - “tunnel vision”

Pathology of the Eyes (cont.)

- **strabismus** (strah-BIZ-mus)
 - crossing of the eyes
 - “lazy eye”
 - disorder in which eyes can not be directed toward the same object
- **astigmatism** (ah-STIG-mah-tizm)
 - unequal curvature of the cornea
 - causes eye to not focus properly; vision problems



Pathology of the Eyes (cont.)

- **hyperopia**
 - hyper = excessive, increased
 - opia = vision condition
 - “farsightedness”; most common after the age of 40
- **myopia**
 - my/o = muscle
 - -opia = vision condition
 - “nearsightedness”; commonly detected in school-age children



Pathology of the Eyes (cont.)

- **diplopia**
 - **dipl/o** = two, double
 - **double vision**
- **monochromatism**
 - **mono-** = one
 - **chromat/o** = color
 - **-ism** = condition
 - “color blindness”
- **nyctalopia**
 - **nyctal/o** = night
 - “night blindness”



Pathology of the Eyes (cont.)

- **cryoretinopexy**
 - cry/o = cold
 - -pexy = surgical fixation
 - “surgical fixation of the retina by using extreme cold (carbon dioxide)”

- **photophobia**
 - phot/o = light
 - -phobia = fear of
 - “abnormal fear of or sensitivity to light”

- **ophthalmoplegia**
 - ophthalm/o = eye
 - -plegia= paralysis
 - “paralysis of the eye muscle”

- **conjunctivitis**
 - conjunctiv/o = conjunctiva
 - --itis= inflammation
 - “pink eye”



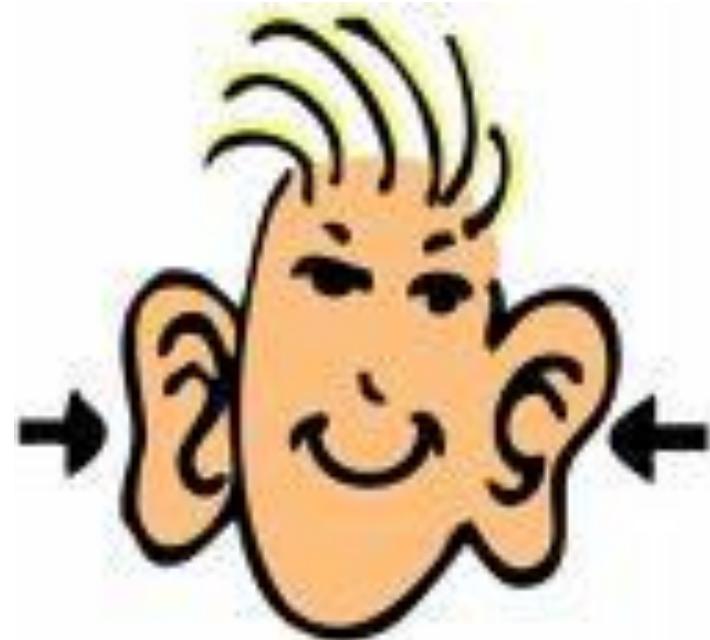
Pathology of the Eyes (cont.)

- **PERRLA**
 - pupils are equal, round, responsive to light and accommodation



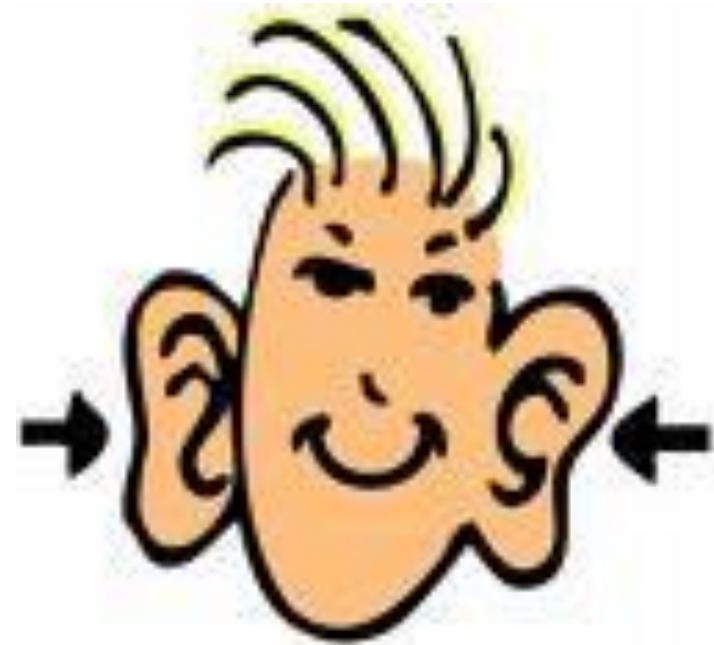
Structure of the Ears

- aur/o
 - aur/i
 - ot/o
- acous/o
- audi/o
- ears
- hearing



Structure of the Ears

- **tympanic membrane**
 - **tympan/o** = eardrum
 - transmits sound vibrations
- **cochlea**
 - **cochle/o**
 - snail-shaped portion that contains organ of hearing



Pathology of the Ears

- **otitis media**
 - inflammation of the middle ear
 - usually associated with an URI in children
- **vertigo**
 - dizziness, whirling, loss of balance
- **tinnitus**
 - ringing, buzzing, or roaring sound in the ear
- **presbycusis (pres-beh-KOO-sis)**
 - a progressive hearing loss occurring in old age



Build-a-Word Terms...

- PERRLA
- corneal
- blepharoptosis
- corneoritis
- otalgia
- retinal
- otopyorrhea
- otorrhagia
- otitis
- blepharitis
- audiologist
- ophthalmologist
- otomycosis
- keratoplasty
- otoplasty
- oculomycosis
- optometrist
- otolaryngologist
- aural
- acoustic