

## Ocular Emergencies

Visual acuity  
Closed-angle glaucoma  
Conjunctivitis  
Iritis  
Retinal Artery Occlusion  
Migraine  
Temporal Arteritis  
Subconjunctival hemorrhage  
Hyphema  
Retinal Detachment  
Penetrating trauma  
Corneal abrasion and foreign bodies

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## Visual Acuity

- 20 feet back
- HEELS on line
- Point to different letter in line
- More than half right, move to next line

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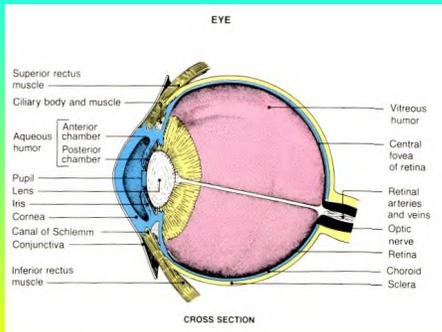
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# Eyeball



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## Acute Closed Angle Glaucoma

- Increased pressure in the anterior chamber
- Aqueous humor flows from posterior chamber into anterior chamber through pupil
- It exits the anterior chamber through the Canal of Schlem
- Canal of Schlem gets blocked

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## Acute Closed Angle Glaucoma

- Symptoms
  - Sudden onset blurred vision
  - Lots of pain
- Treatment
  - Topical beta agonists
  - Laser surgery - iridotomy

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## Conjunctivitis

- Conjunctivae inflamed
- Usually viral
- Very contagious
- Eyes crusty when awoken in morning

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## Iritis

- Inflammation of the iris, choroid, ciliary body
- Associated with autoimmune disorders

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## Iritis

- Symptoms
  - Unilateral, painful, red eye, WITHOUT discharge
- Treatment
  - Long acting cycloplegic such as Cyclogel
  - Corticosteroid eye drops

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## Retinal Artery Occlusion

- Symptoms
  - Sudden painless loss of vision in one eye
  - Can have retinal “TIA”
  - Permanent damage if more than 2 hrs
- Treatment
  - Increase CO2 to dilate
  - Thrombolytics

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## Migraine

- Symptoms
  - Sudden onset strange visual disturbances, such as halos, messed up vertical hold
  - Frequently no headache
- Treatment
  - Wait
  - Don't drive

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## Temporal Arteritis

- Inflammation of the temporal artery
- White women over 55
- Symptoms
  - Loss of vision over several days, WITH headache, face, tongue, neck aches
- Treatment
  - Steroids p.o.

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## Subconjunctival Hemorrhage

- Blood accumulating under conjunctiva
- Symptoms
  - No change in vision
  - No blood over cornea
  - Sometimes spontaneous, sometimes trauma
- Treatment
  - Patience

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## Subconjunctival Hemorrhage



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## Hyphema

- Blood in the anterior chamber, caused by tearing of ciliary or iris vessels



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# Hyphema

- Symptoms
  - Red or brown vision
  - Painful eye, some times
  - Free blood floating in anterior chamber
- Treatment
  - Usually nothing, because we miss most
  - Watch for rebleeding
  - Beware pts on Coumadin
  - Maybe Amicar to slow bleeding

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# Hyphema



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# Hyphema



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## Retinal Detachment

- The retina has two layers - a detachment is separation of these layers

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## Retinal Detachment

- Symptoms
  - Flashing lights, foggy vision, or a shady (curtain) area
  - Retina is gray instead of pink, may have bulging or folds
- Treatment
  - Sit still, HOB up
  - Surgery, if big enough

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## Penetrating Trauma to Globe

- Symptoms
  - Something big stuck in eye
  - Clear Jell-o coming out of eyeball
  - Eye looks like it has a flat
  - Pupil irregularly shaped
- Treatment
  - Stabilize the foreign body
  - Patch both eyes, HOB up

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## Penetrating Trauma to Globe



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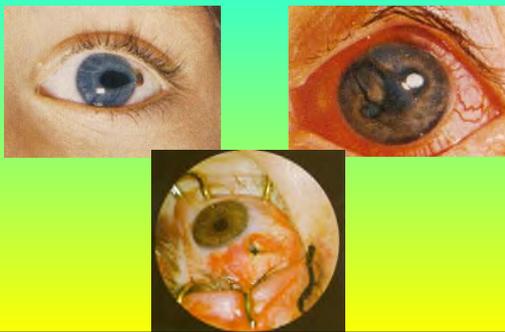
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## Penetrating Trauma to Globe



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## Corneal Foreign Body Corneal Abrasion

- Fluorescein stain
  - Wash out after exam
- Slit lamp
- Blue light

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## Corneal Foreign Body



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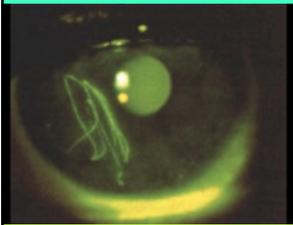
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## Corneal Abrasion



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## Corneal Ulcer

- Big deal
- Associated with contact lens wearing



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