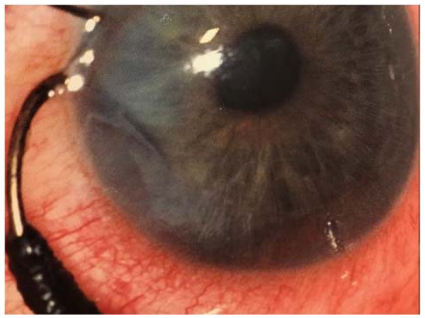
Itinerary Today

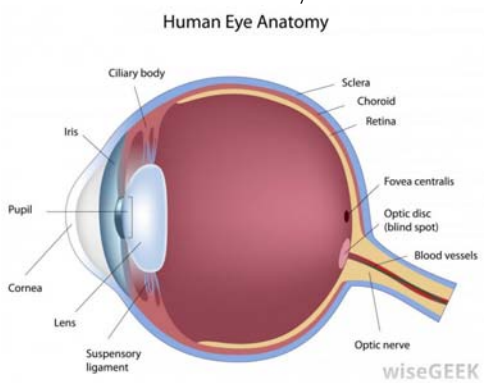
- Anatomy
- Physiology
- Exam
- WKC 16
- Cases
- Questions

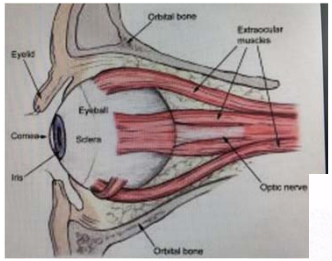
Hook Your Attention

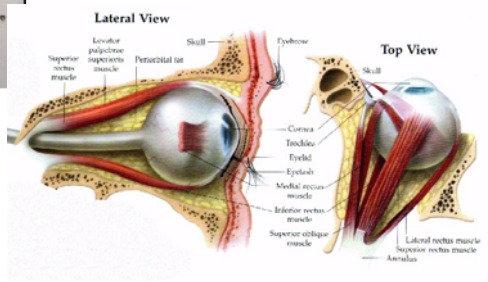


Eye Anatomy

The Parts of the Eye

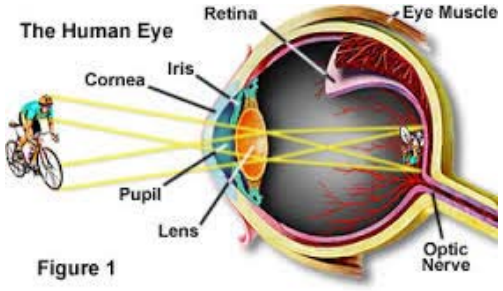






Eye Physiology

How the Eye Works



History

- Review Workplace Incident
- Present Symptoms – blurry, pain, glare, etc
- Effect on Life/Work – driving, computer, reading, etc
- Previous Trauma
- Previous Eye Surgery
- Near-Sighted/Far-Sighted
- Presbyopia

Eye Exam

What are we looking for?

- OD = Right Eye
- OS = Left Eye

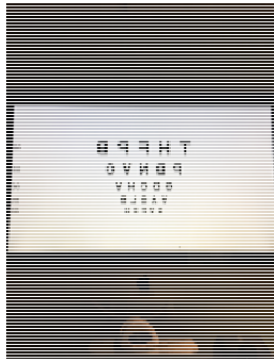
Measuring Visual Acuity

- 20/20
- 20/200

- 20/40
- 20/15

Measuring Visual Acuity

- Distance Vision
  - Without correction = VA sc
  - With correction = VA cc
  - Best corrected = VA cc

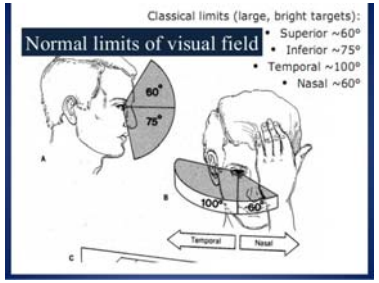


Measuring Visual Acuity

- Near Vision
  - Without correction = VA sc
  - With correction = VA cc
  - Best corrected = VA cc

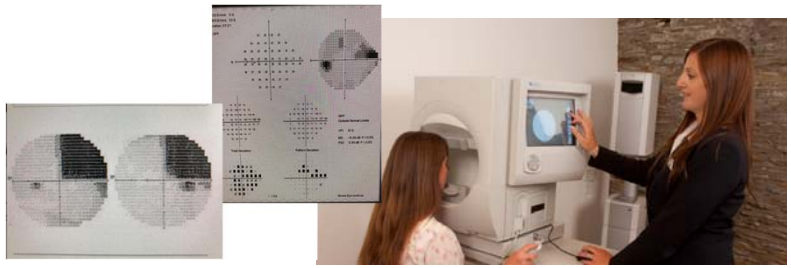
Measuring Visual Fields

- By Confrontation – "full to confrontation"



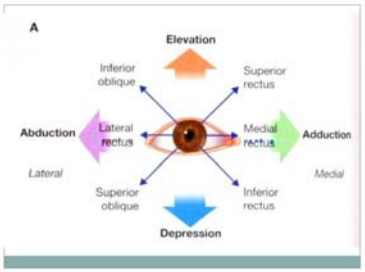
Measuring Visual Fields

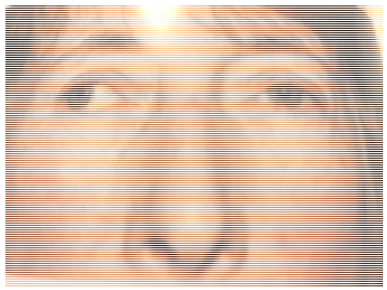
- By Automated Perimeter



Extraocular Movements

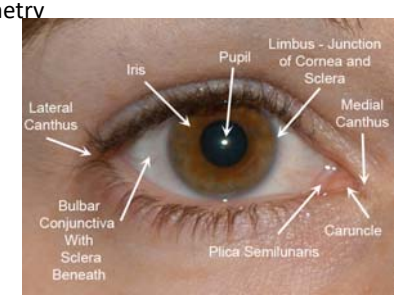
- Up/Down/Left/Right – Full
- Straight – Ortho
- Strabismus – Double vision
- Diplopia - ?monocular



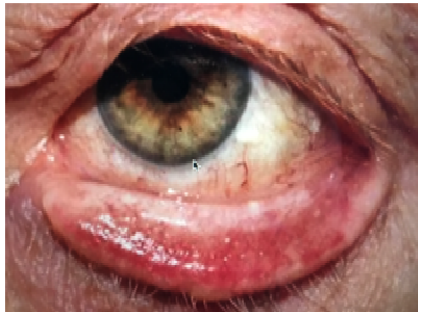


External Exam

- Eyelids – position, symmetry
- Orbit



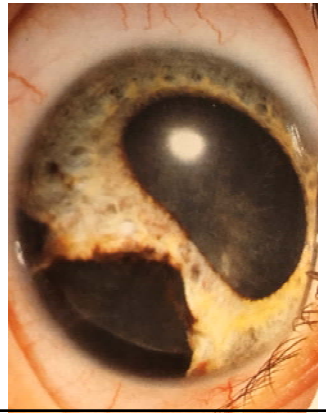
Ectropion



Pupil Exam

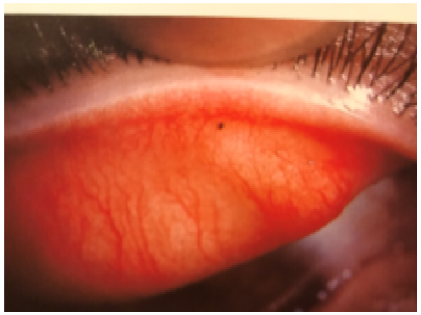
- Equal
- Round
- Reacts to light
- Reacts to accommodation

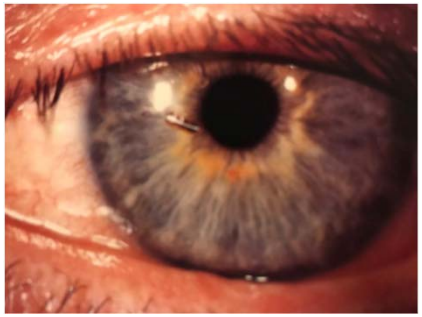
"PERRLA"

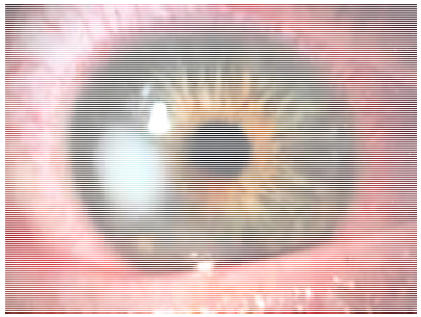


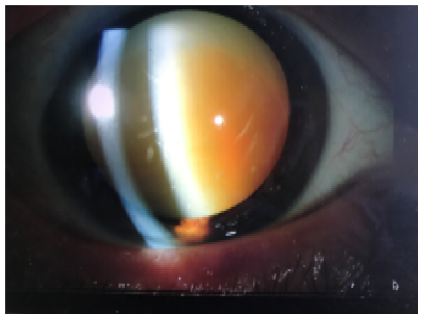
Slit Lamp Exam

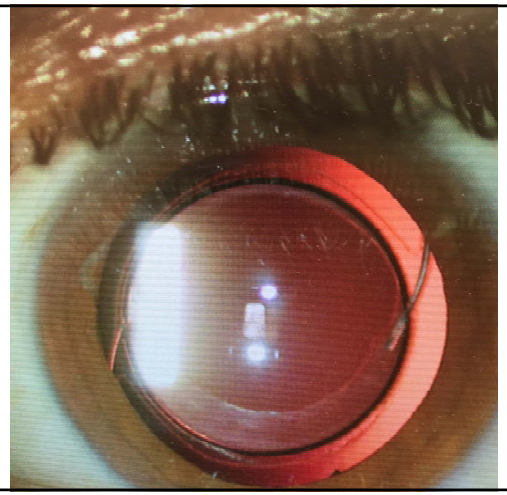
- Lids
- Conjunctiva
- Cornea
- Anterior Chamber
- Lens





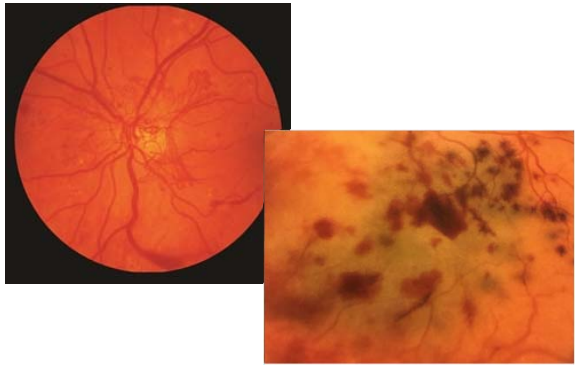






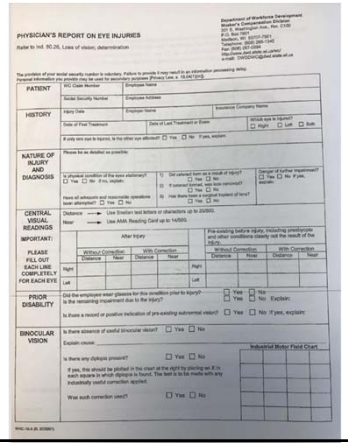
Vitreous and Retina Exam

- Floaters
- Macula
- Optic Nerve
- Retina Vessels
- Retina Periphery



WKC 16 Form

Let's fill one out together!



PHYSICIAN'S REPORT ON EYE INJURIES

Refer to Ind. 80.26, Loss of vision, determination

PATIENT

HISTORY

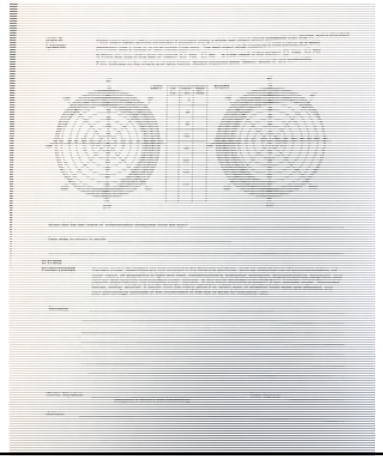
NATURE OF INJURY AND DIAGNOSIS

CENTRAL VISUAL READINGS

IMPORTANT: PLEASE FILL OUT EACH LINE COMPLETELY FOR EACH EYE

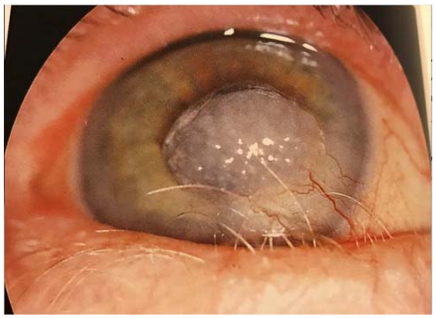
PRIOR DISABILITY

BINOCULAR VISION



Case #1

- 55 y/o Plumber
- Chemical splash to eye

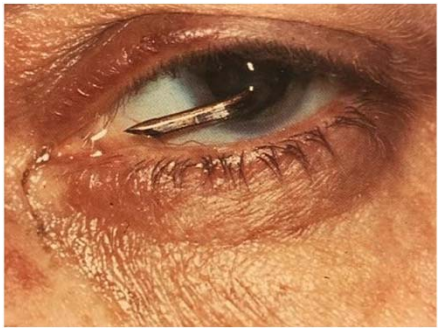


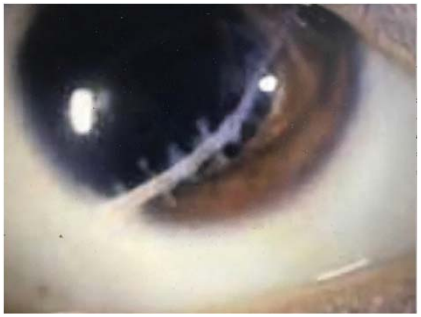
Case #2

- 47 y/o Automobile mechanic
- Chemical splash to eye

Case #3

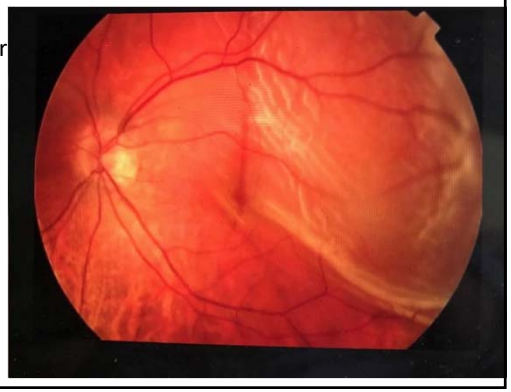
- 28 y/o Factory worker
- Hammering
  - claimed to be wearing safety glasses





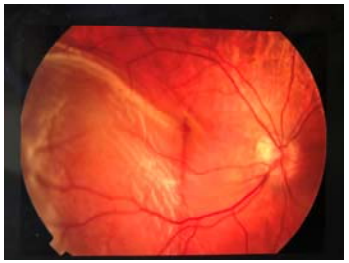
Case #4

- 61 y/o grocery store worker
- Lifting crate of oranges
- Flashes/floaters that day
- Retinal Detachment



Case #5

- 59 y/o factory worker
- Lifting steel beams
- 2 weeks later – flashes/floaters
  - retinal detachment
- Hx
  - very near-sighted
  - cataract surgery



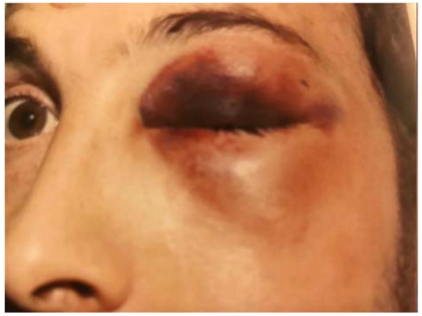
Case #6

- 33 y/o truck driver
- Unloading cargo – knocked unconscious
- Traumatic Brain Injury – TBI
- Light sensitive
- Trouble reading
  - convergence insufficiency

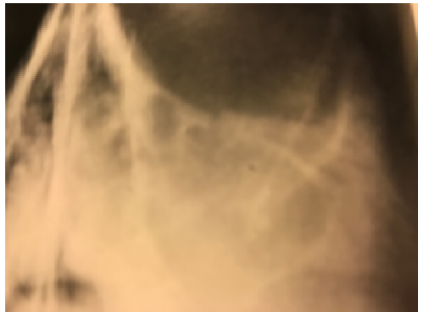
Case #7

- 52 y/o taxi driver
- MVA – airbag deployed
- Double vision – diplopia
- Blow out fracture

Airbag to Eye

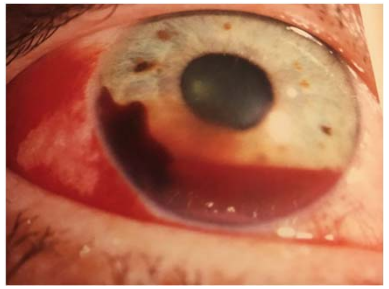


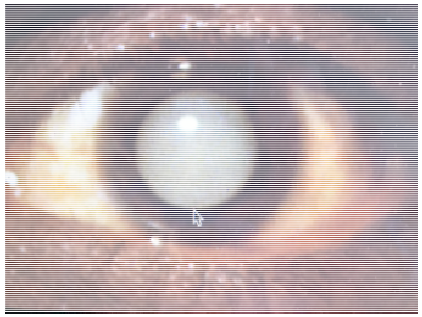
Blow out fracture

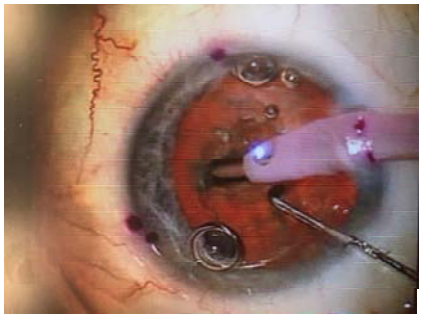


Case #8

- 41 y/o factory worker
- Walking into beam
- Hyphema
- 6 months later – developed cataract

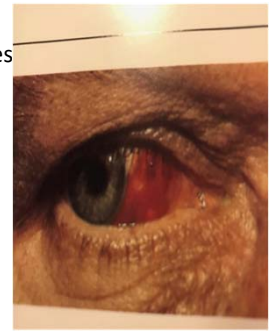


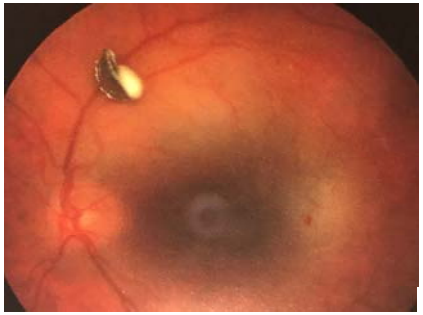




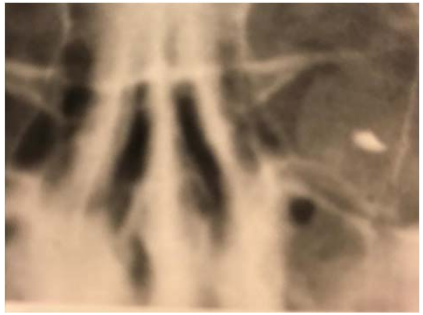
Case #9

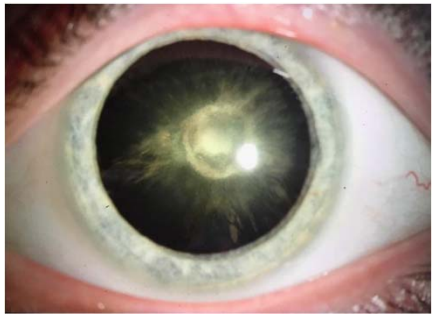
- 21 Y/O Construction worker
- Grinding without safety glasses





Intraocular Forein Body





Non-Organic (Functional)

- Malingering
- Hysteria