

Assessment

History
Detailed as possible
Time and nature of injury
Missile, blunt, ? FB remaining, chemical etc

Past ocular history
Previous VA and lid function
remember trauma is a recurrent pathology

Med Hx
?tetanus, ? Anticoagulation

Incident: time, place, witness story, mechanism of injury, associated HI, other injuries

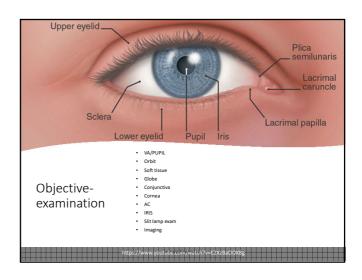
Symptoms: affected VA-COMPARED WITH THE PREVIOUS ONES, floaters, flashes, field defects, diplopia, pain-THE DURATION OF THE SYMPTOMS, epistaxis

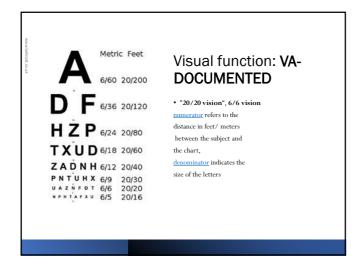
POH/PMX: PREVIOUS SURGERY/current eye disease, systemic disease, tetanus status

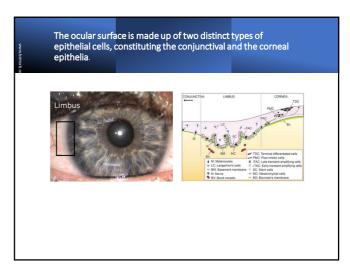
SH/FH/Dx/Ax

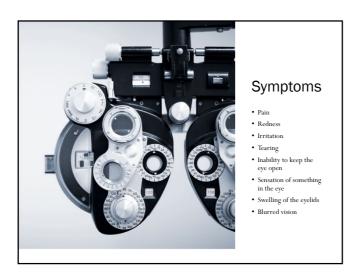
Examination

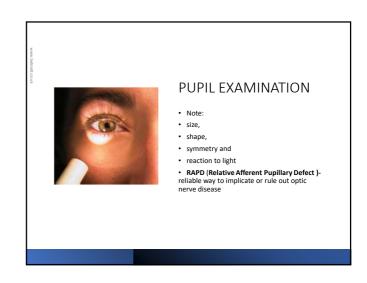
■Pt review
■ are there life threatening injuries which need to be treated first?
■ ?brain injury
■ Facial Exam
■ lacerations/bruising, numbness, weakness
■ Ocular exam
■ VA, lids and lacrimal system, orbital rim/orbital bones, ocular motility, globe, optic nerve

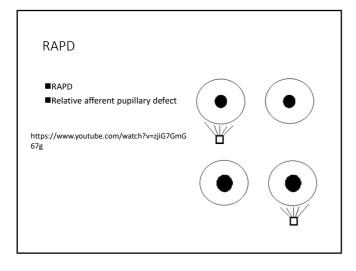


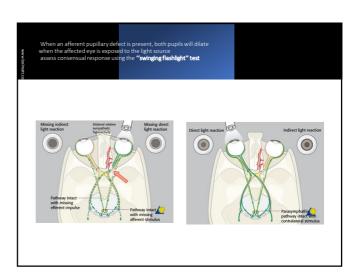


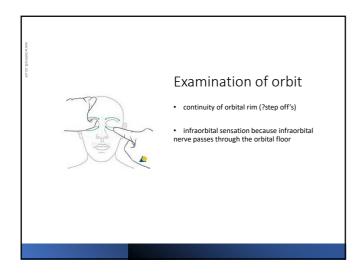




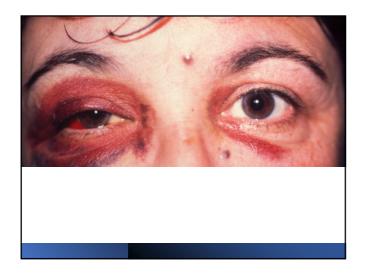


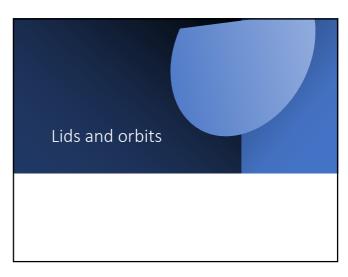




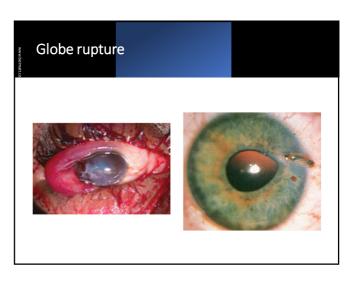


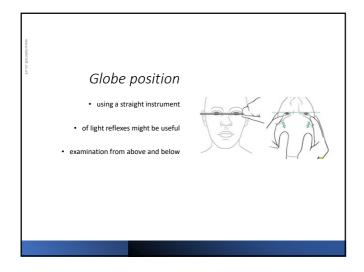


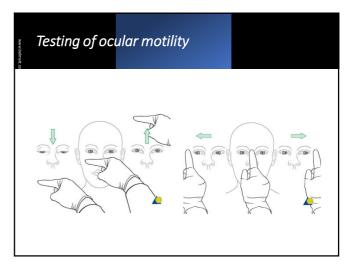


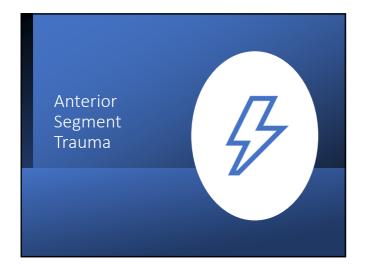


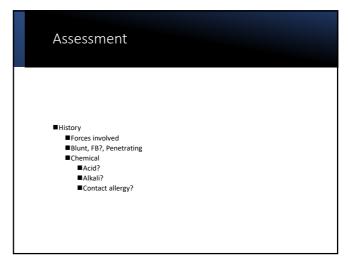


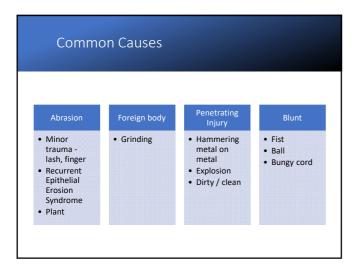


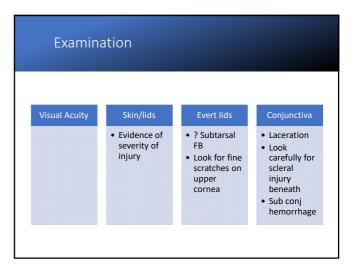




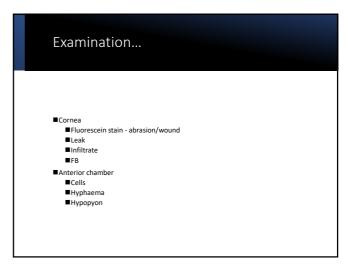


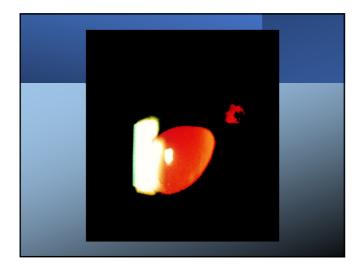


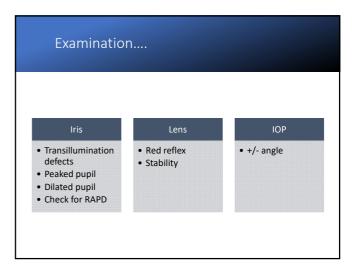


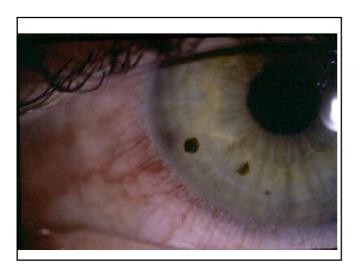




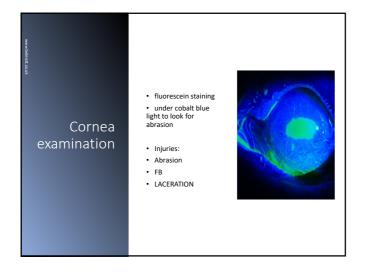


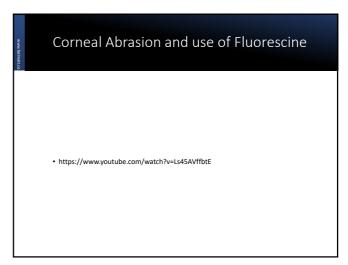


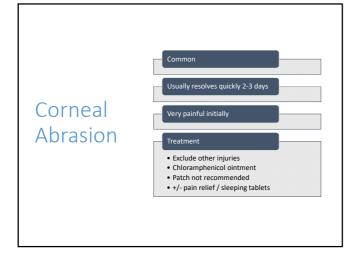


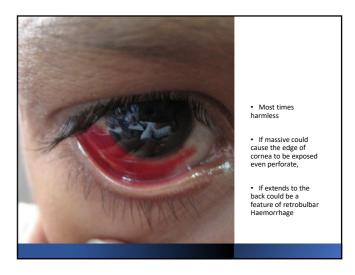












Anterior Chamber examination

• fluid level,
• Blood (hyphema)

Hyphaema- blood in AC

More in blunt trauma
The AC could be fully filled
Even a small hyphema can be a sign of major trauma
Sickle cell status
Avoid aspirin/ antiplatelets/ NSAIDS
Complications:
1)Red cell glaucoma
2)Rebleed
3)Loss of vision

Iris examination

• FB

• tearing away of the iris from its attachment (Iridodialysis)

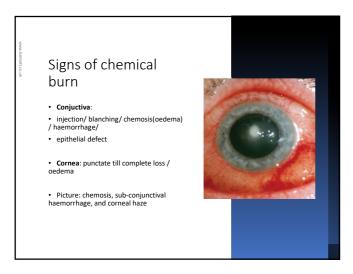
• blunt or penetrating trauma

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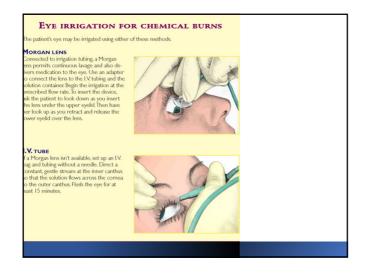


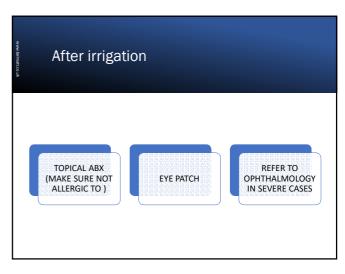
EYE INJURIES CHEMICAL Orbital fractures I.i.d lacerations Globe trauma: BLUNT / PENETRATING Corneal injuries Hyphema

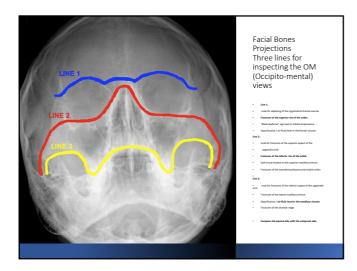


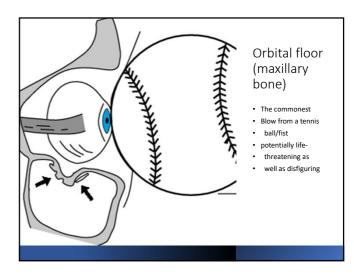


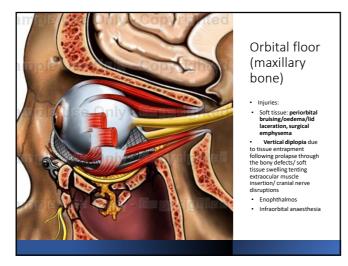
Neutralisation of the pH by irrigation(To start before and during the transportation to the hospital)-Immediate copious irrigation that is available even before full Hx or detailed examination Topical anaesthesia- tetracaine Evert eyelids to remove the retained matter One litre for acid, two litres for alkali Until pH=7 confirmed by pH/ litmus test paper



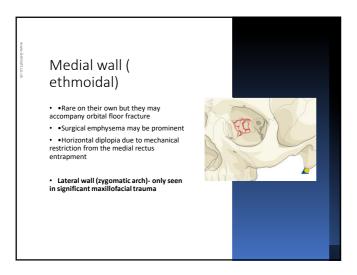


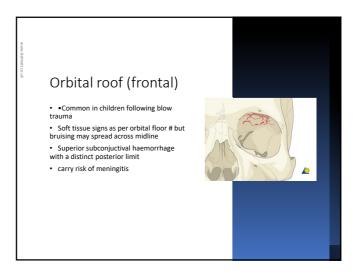




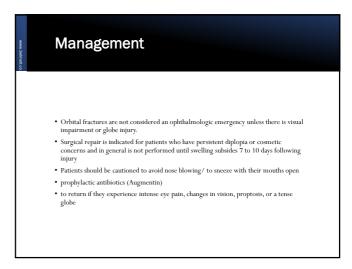












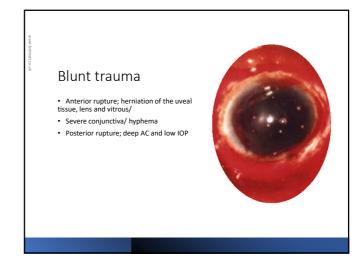




Ocular trauma

- Blunt 80%, penetrating 20%, with IOFB 1%
- Hx: -mechanism/ source (hammer on steel, machinery, explosive), ?FB,
 -associated injuries- ocular involvement occurs in around 10% of all non-fatal casualties

-likely infective risk, tetanus status



Retrobulbar haemorrhage

- Haemorrhage into the retrobulbar space
- may result in acute visual loss
- Symptoms:
- Proptosis/limitation of extraocular movements, visual loss, RAPD, and increased IOP
- Early recognition and decompression is key to preserving vision and warrants emergent ophthalmologic consultation
- (Lateral canthotomy)



Penetrating trauma/IOFB

- FB may leave a sealed wound
- IOFB must be excluded in cases of penetration
- Double /posterior perforation should be considered
- Complications of IOFB:
- Infective (endophthalmitis)
- toxic (siderosis/chalcosis)



Red eye Rule out : corneal ulcer, acute angle closure glaucoma, iritis, scleritis

- History
- ? Trauma (e.g., chemical, foreign body, etc.)? Contact lens wearer? (Possibility: corneal ulcer.)
- Pain? Severe photophobia? Both?
- Significant vision changes?
- History of prior ocular disease (e.g., scleritis, iritis)?
- Signs
- I. Abnormal pupil (fixed and small, fixed and dilated, etc.)
- II. Ocular tenderness (determine by touching the closed eyelids; pain could indicate iritis, scleritis or glaucoma) $\,$
- III. White corneal opacity or corneal haze (with or without fluorescein staining)



Remember

- Vision
- Pupils
- Look at the eye

