



Crunch Time! Facial Injuries

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Objectives

- Identify common facial injuries
- Explain prehospital management
- Determine appropriate disposition



Stress Reduction Kit

**Bang
Head
Here**

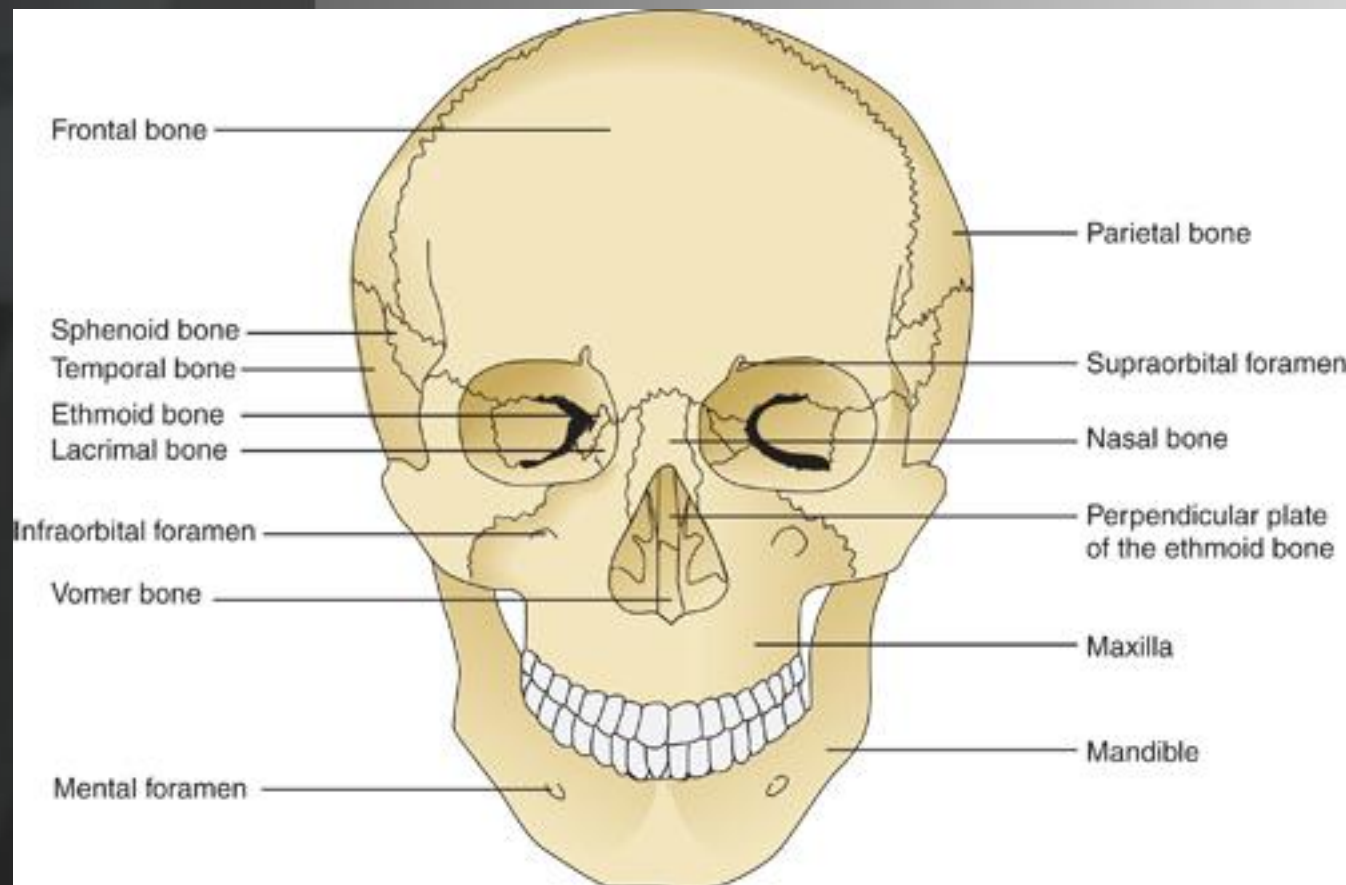
Directions:

1. Place kit on FIRM surface.
2. Follow directions in circle of kit.
3. Repeat step 2 as necessary, or until unconscious.
4. If unconscious, cease stress reduction activity.



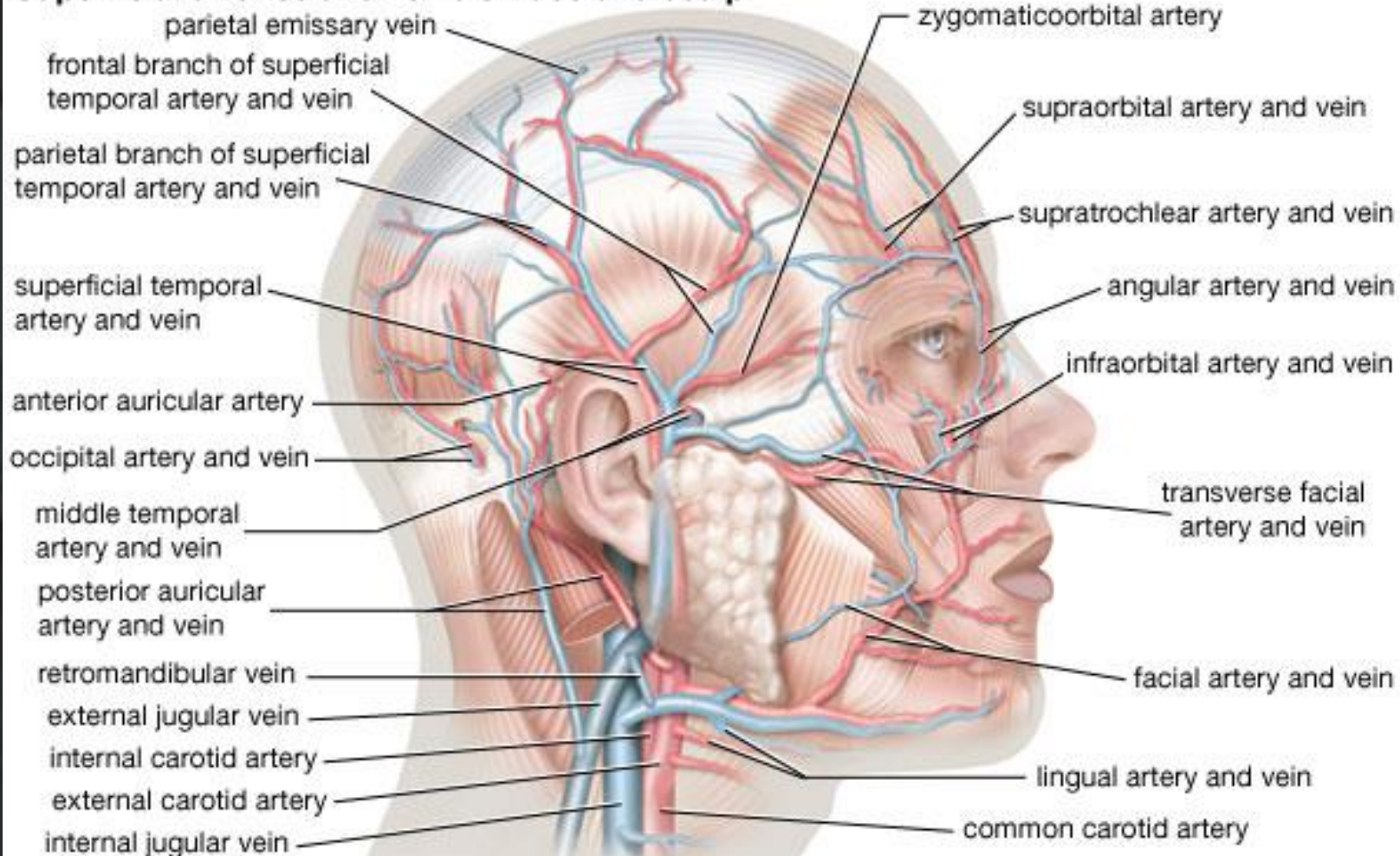
ANATOMY

Bony Anatomy



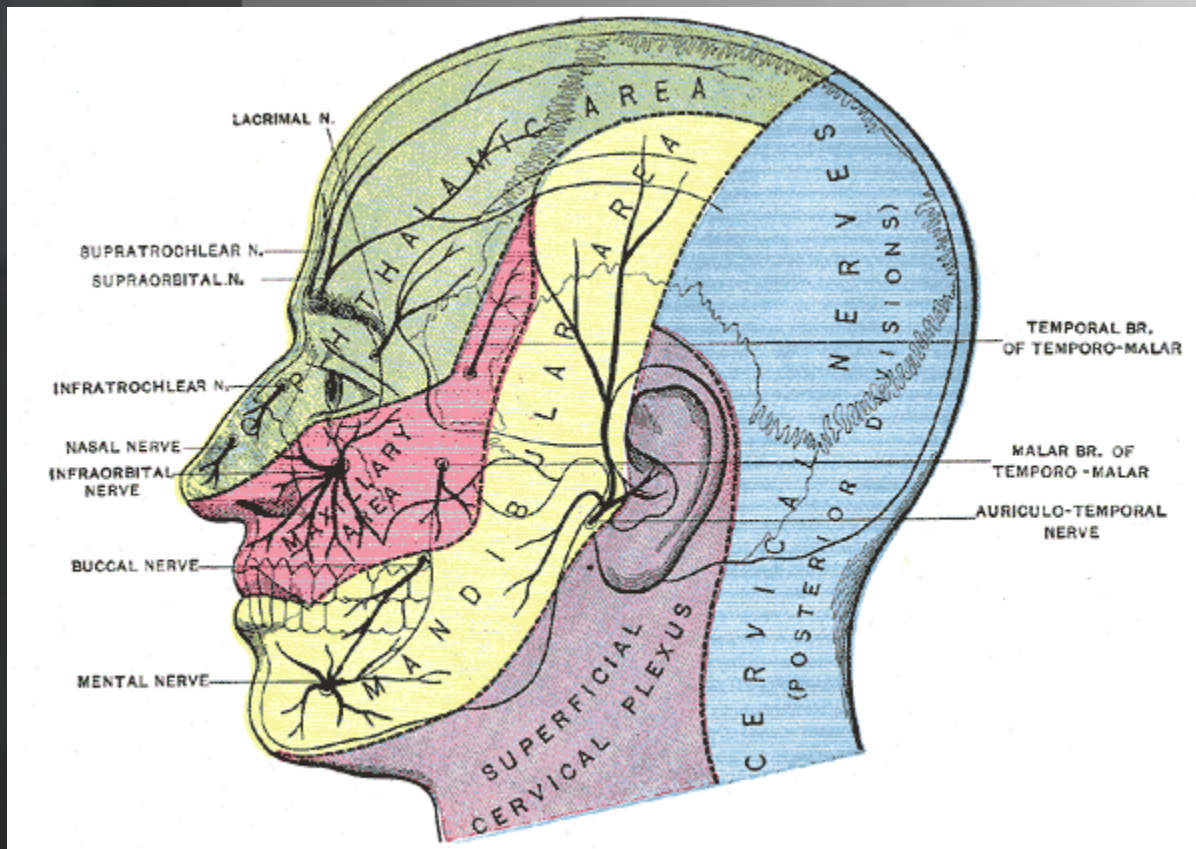
Vascular Anatomy

Superficial arteries and veins of face and scalp

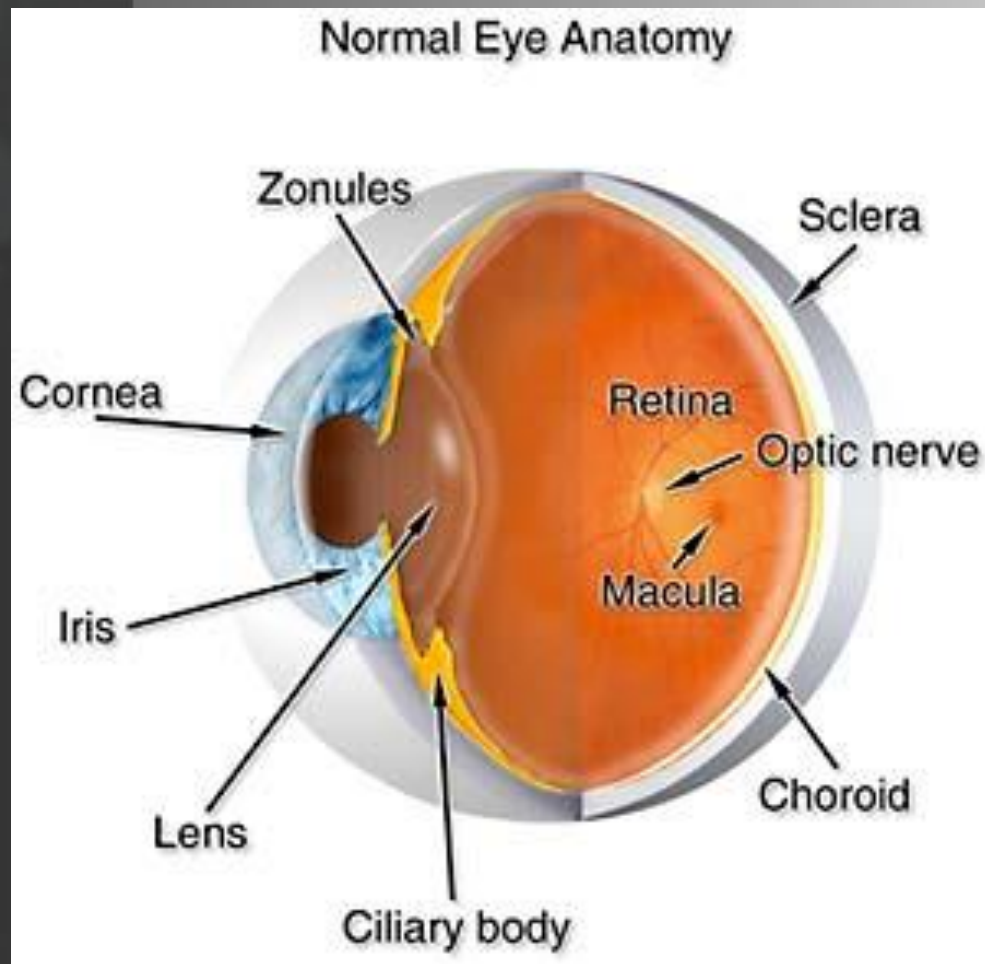


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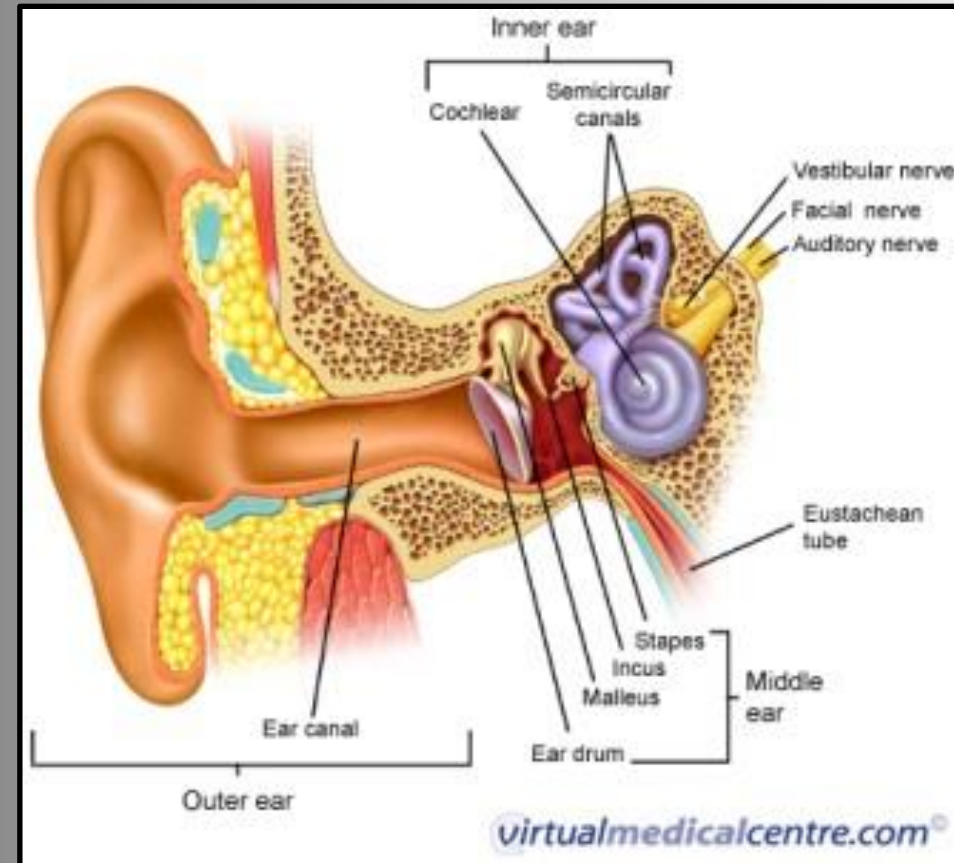
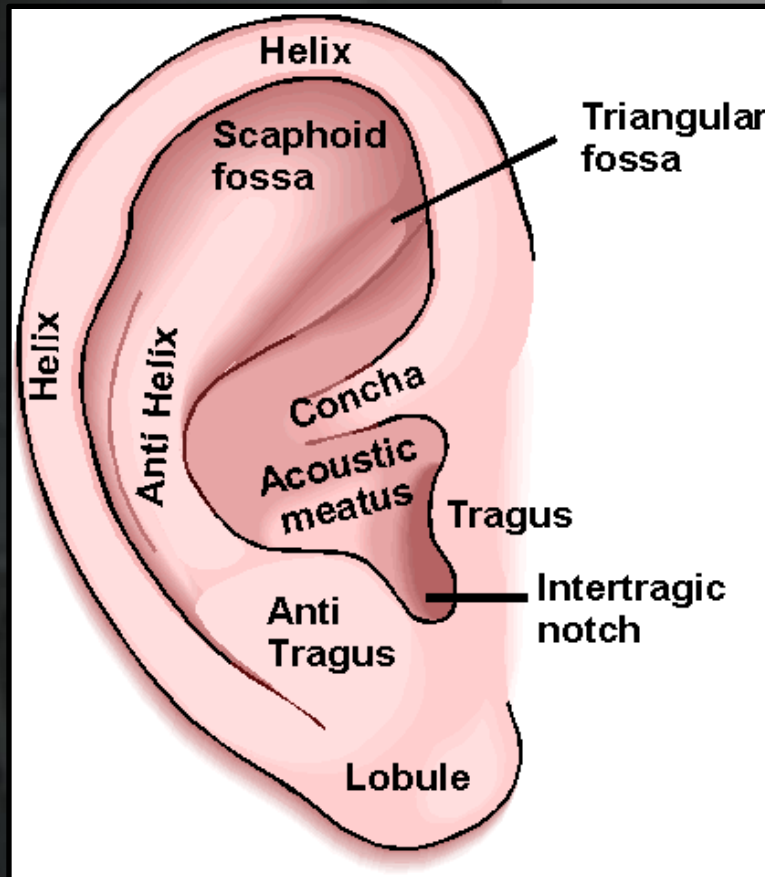
Facial Nerves



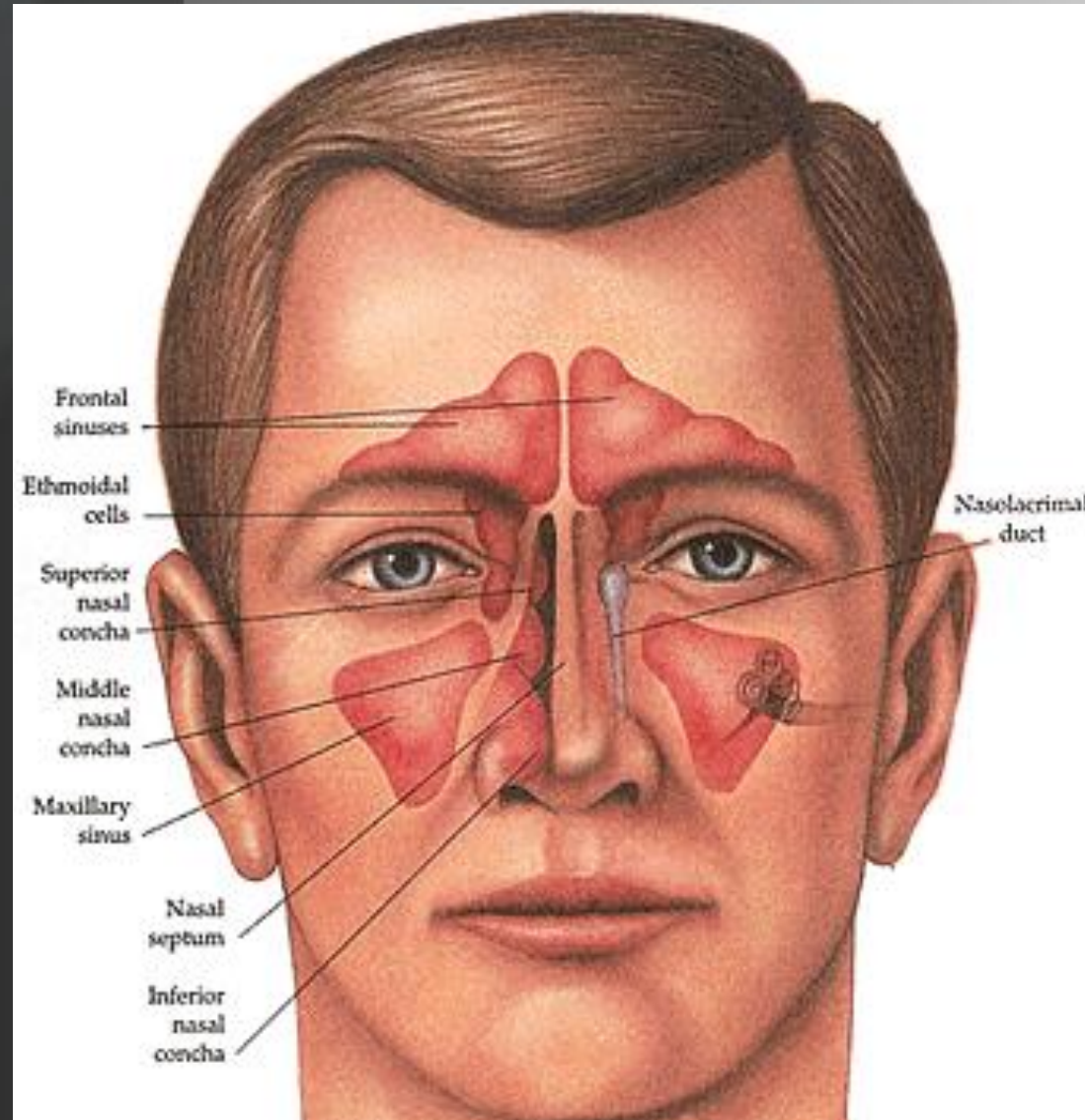
Eye Anatomy



Ear Anatomy



Nasal Anatomy





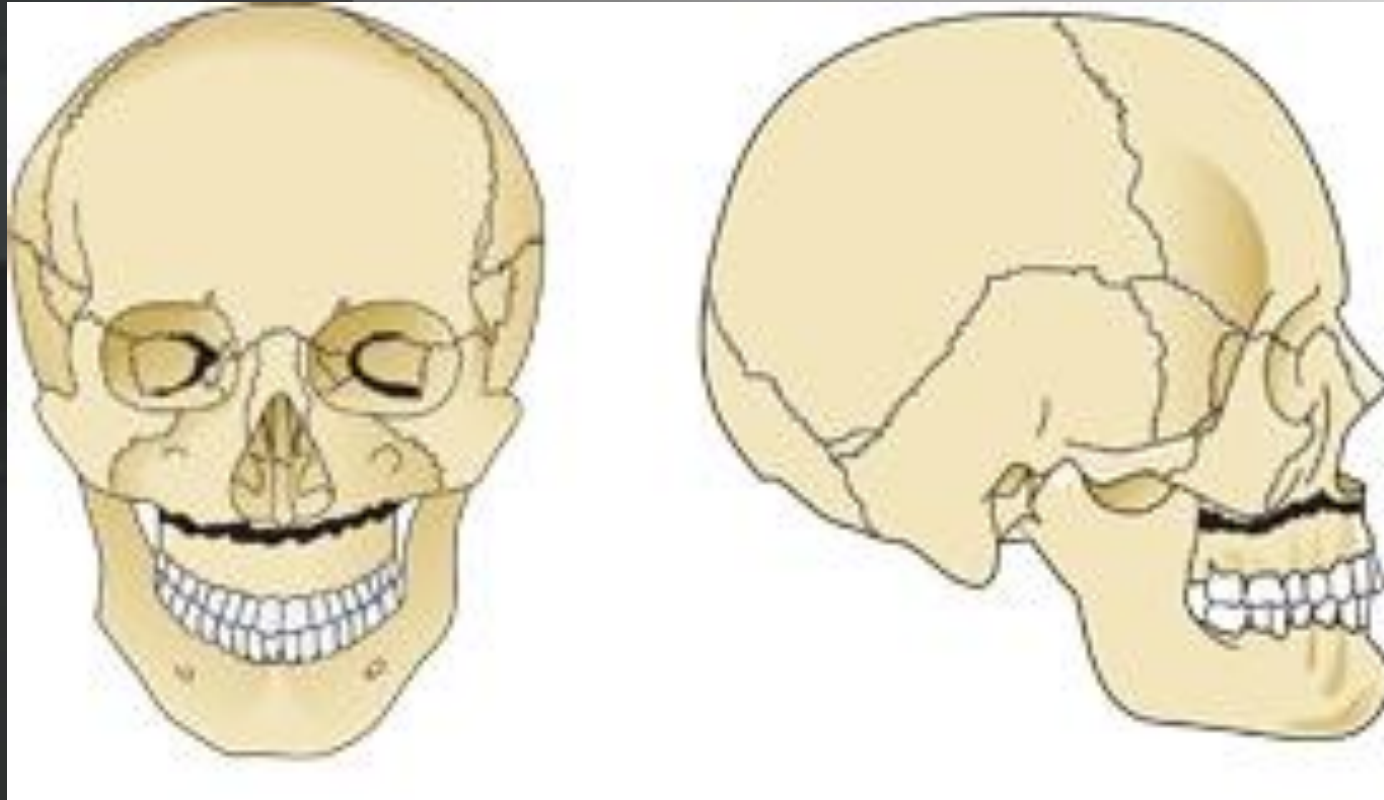
FACIAL FRACTURES

LeFort Fractures

- René LeFort
- Cadaver experiments
- Induced facial trauma
- Classification maxillary fractures
- Did NOT use cannonballs



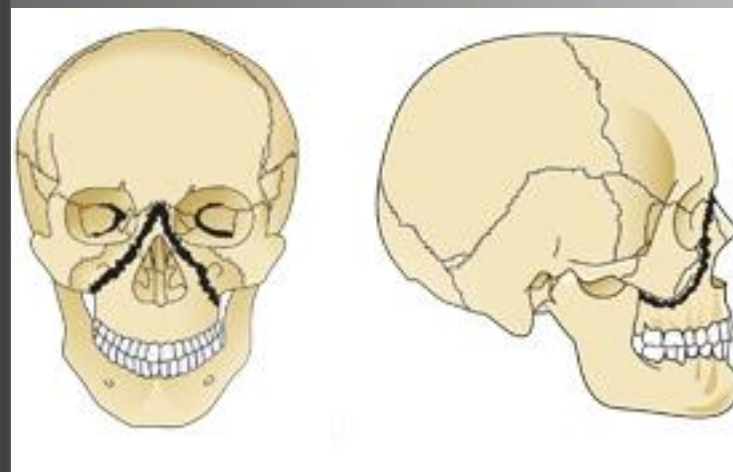
LeFort I



LeFort I



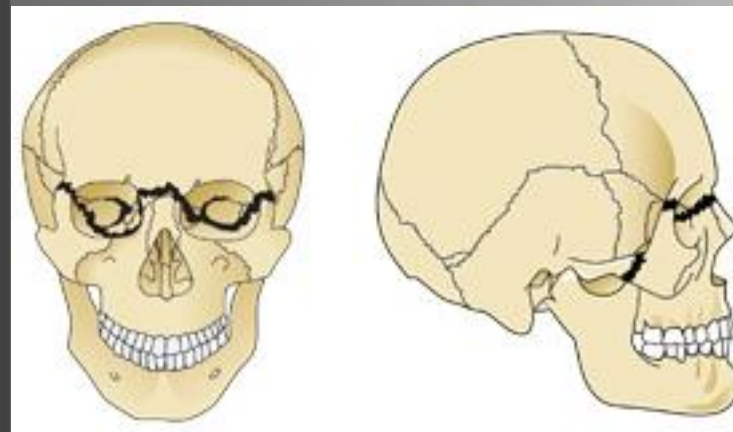
LeFort II



LeFort II



LeFort III



LeFort III



Complications of LeFort Fractures

- Airway compromise
- Oral hemorrhage
- Intracranial hemorrhage

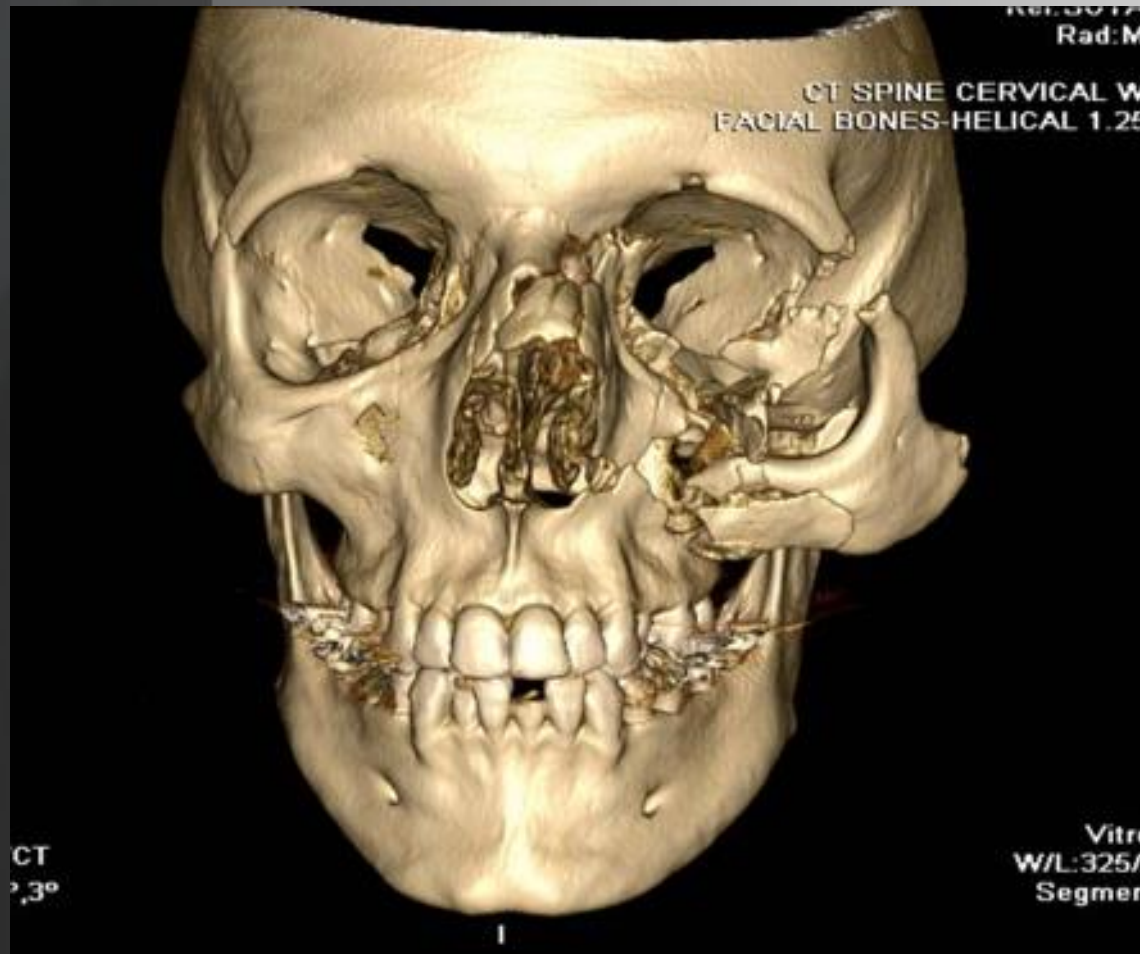


**Hard palate and upper teeth mobile during airway management
high likelihood of intracranial hemorrhage**

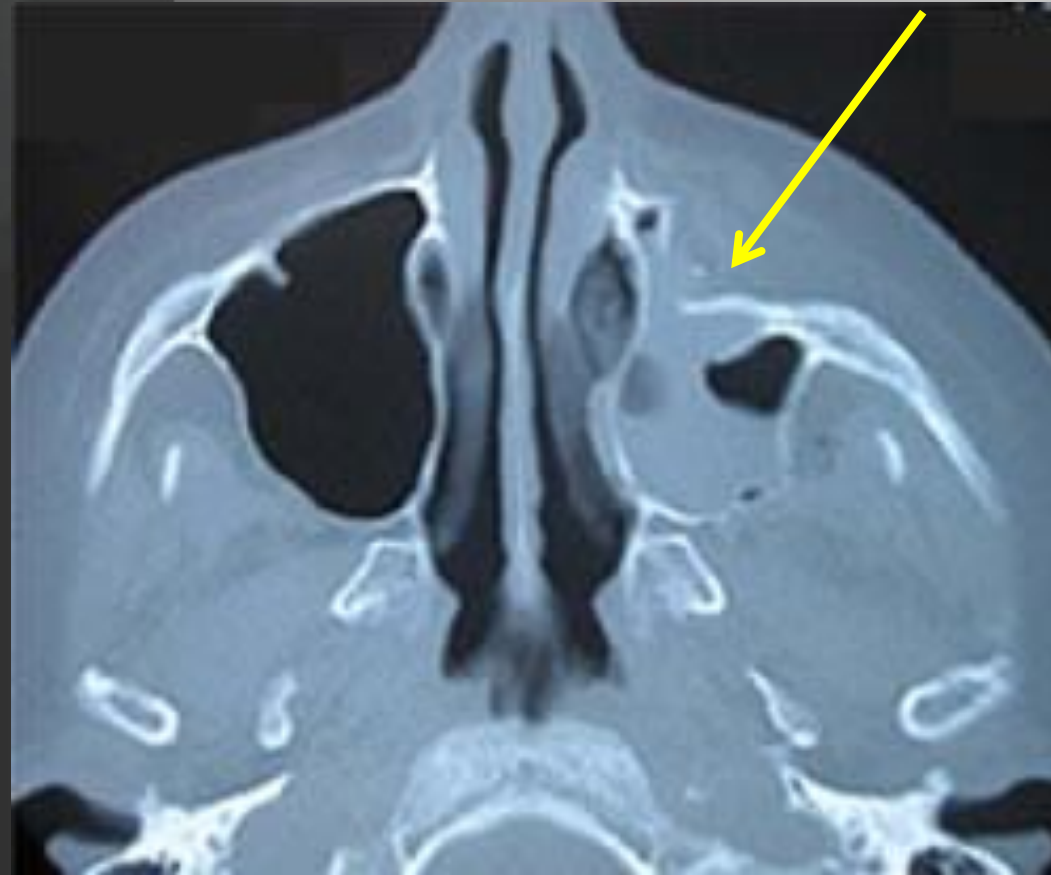
Tripod Fracture



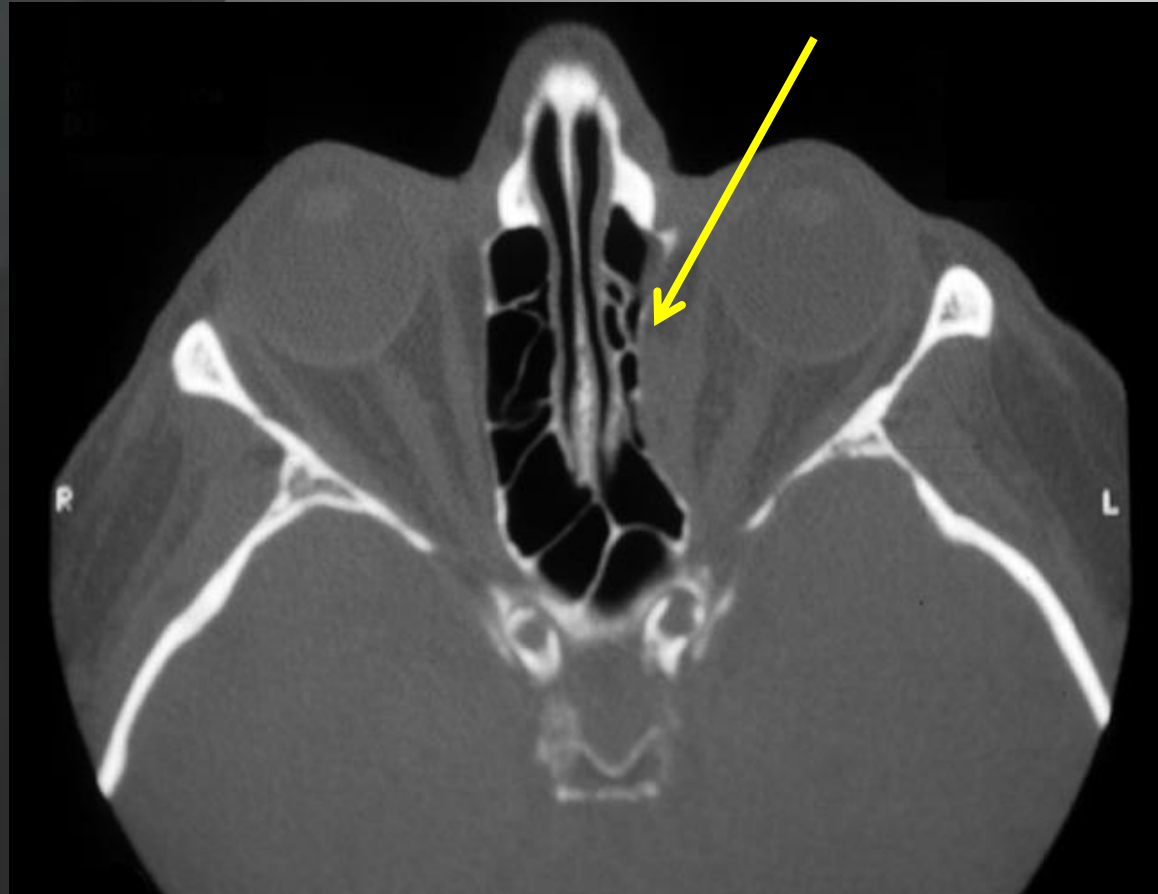
Tripod Fracture



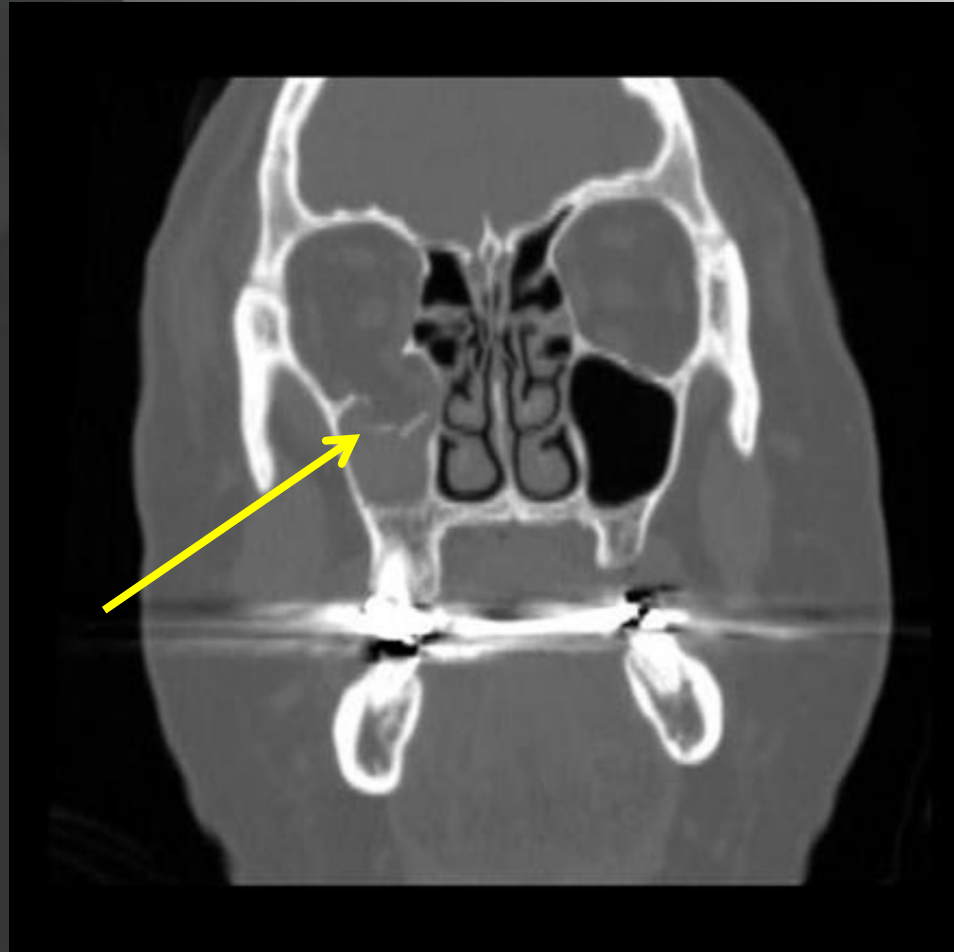
Zygomatic Fracture



Orbital Wall Fracture

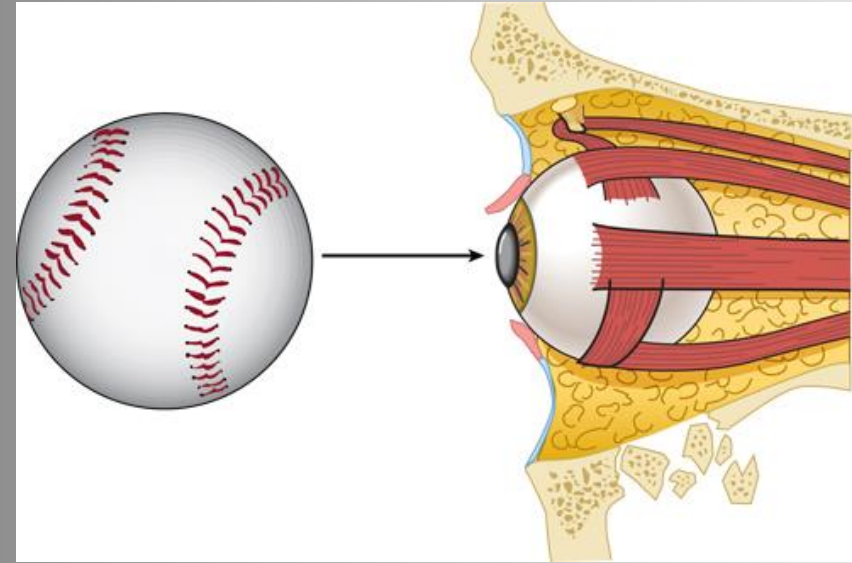
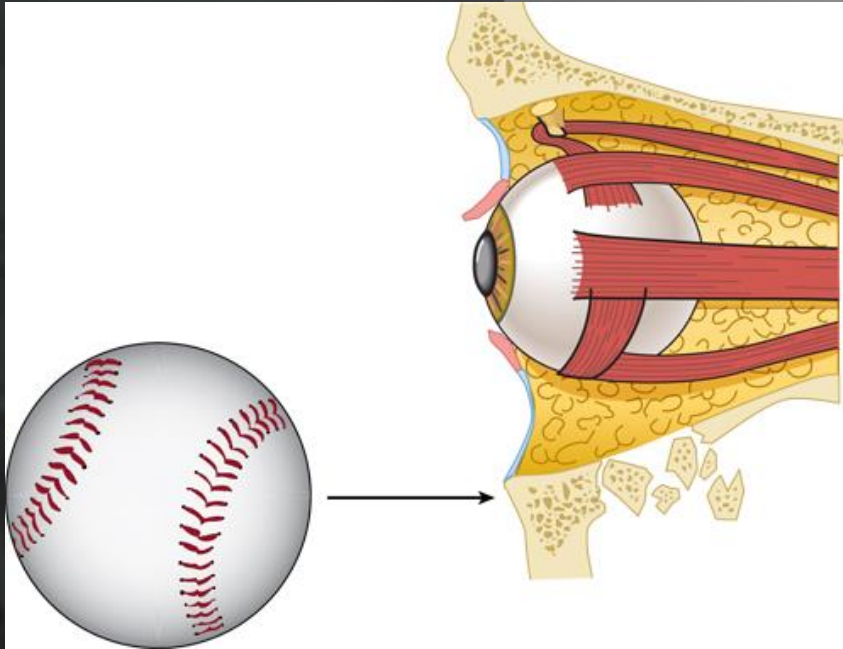


Orbital Blow Out Fracture



Associated with ocular muscle entrapment

Orbital Blow Out Fractures



Ocular Muscle Entrapment



Mandible Fractures



Fractures ALMOST ALWAYS occur in 2 places

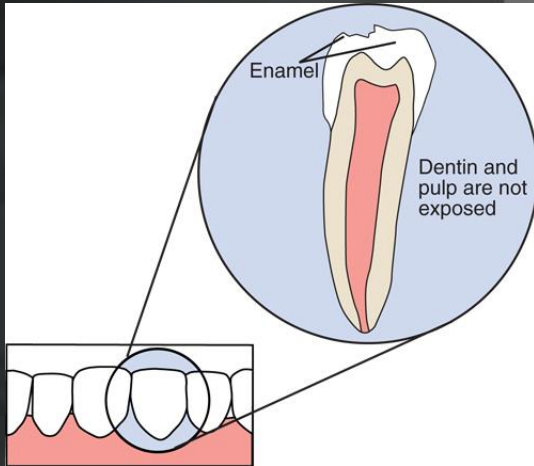
Mandible Fracture – Jaw Fixation



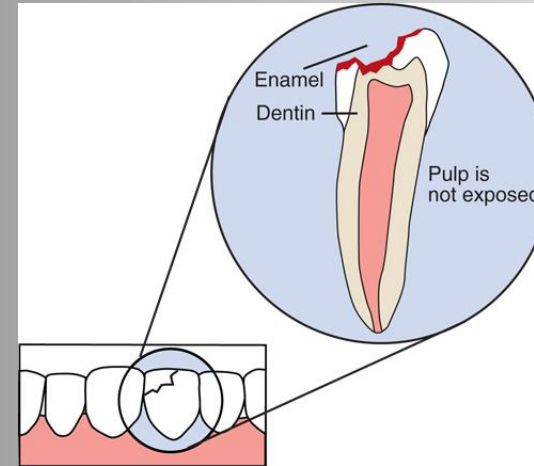
Cut wires if need mobility for airway management

Tooth Fractures

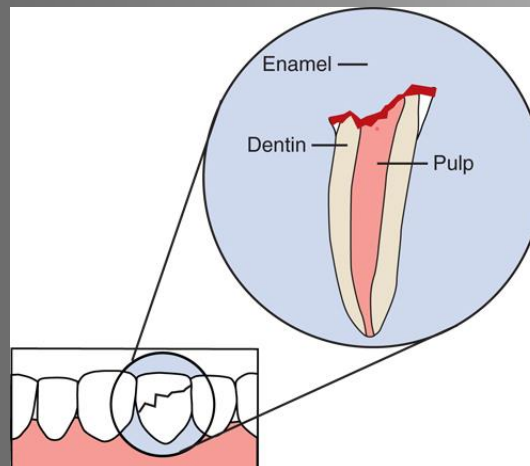
Ellis 1



Ellis 2



Ellis 3



Tooth Avulsion



Save in Hank's Solution (Save-A-Tooth brand name) or saline



OCULAR INJURIES

Globe Rupture

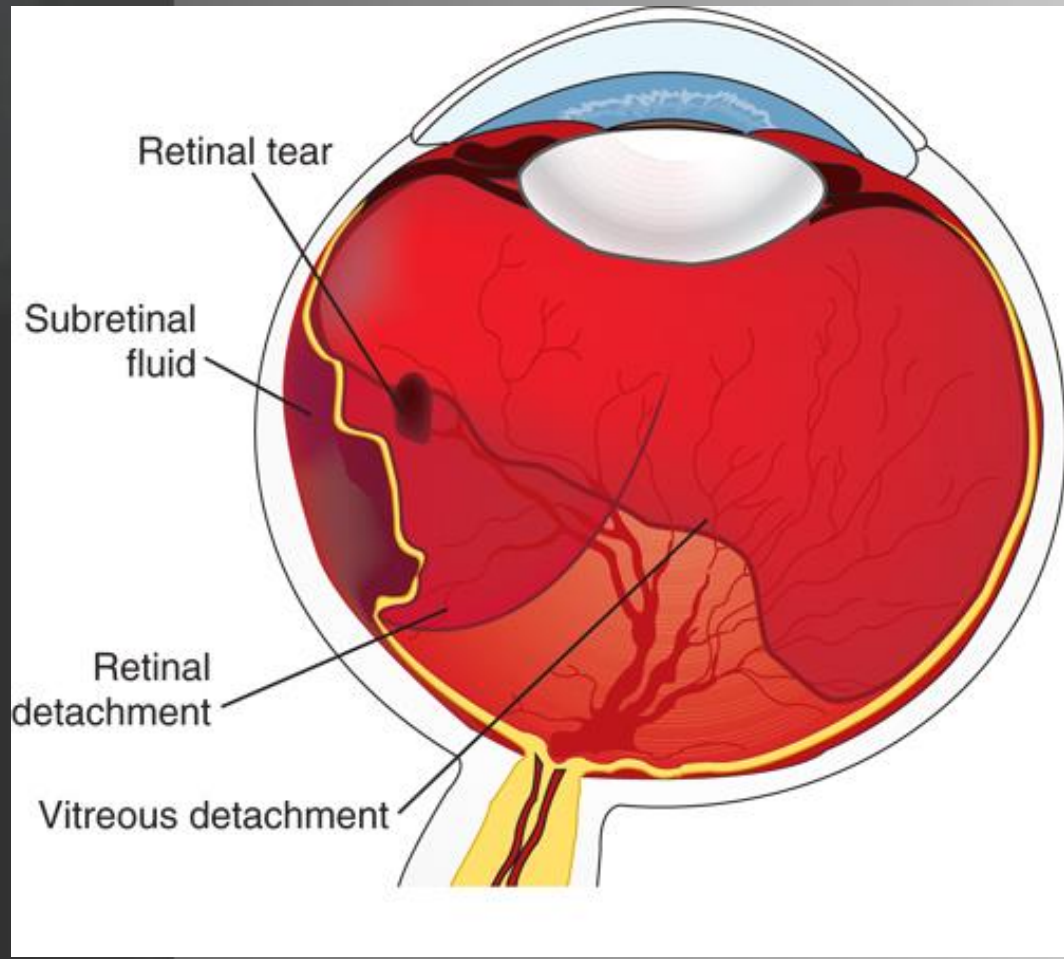
Teardrop
Pupil



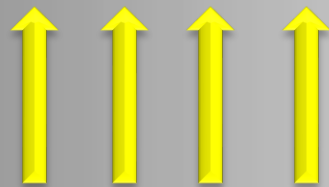
Leaking
vitreous

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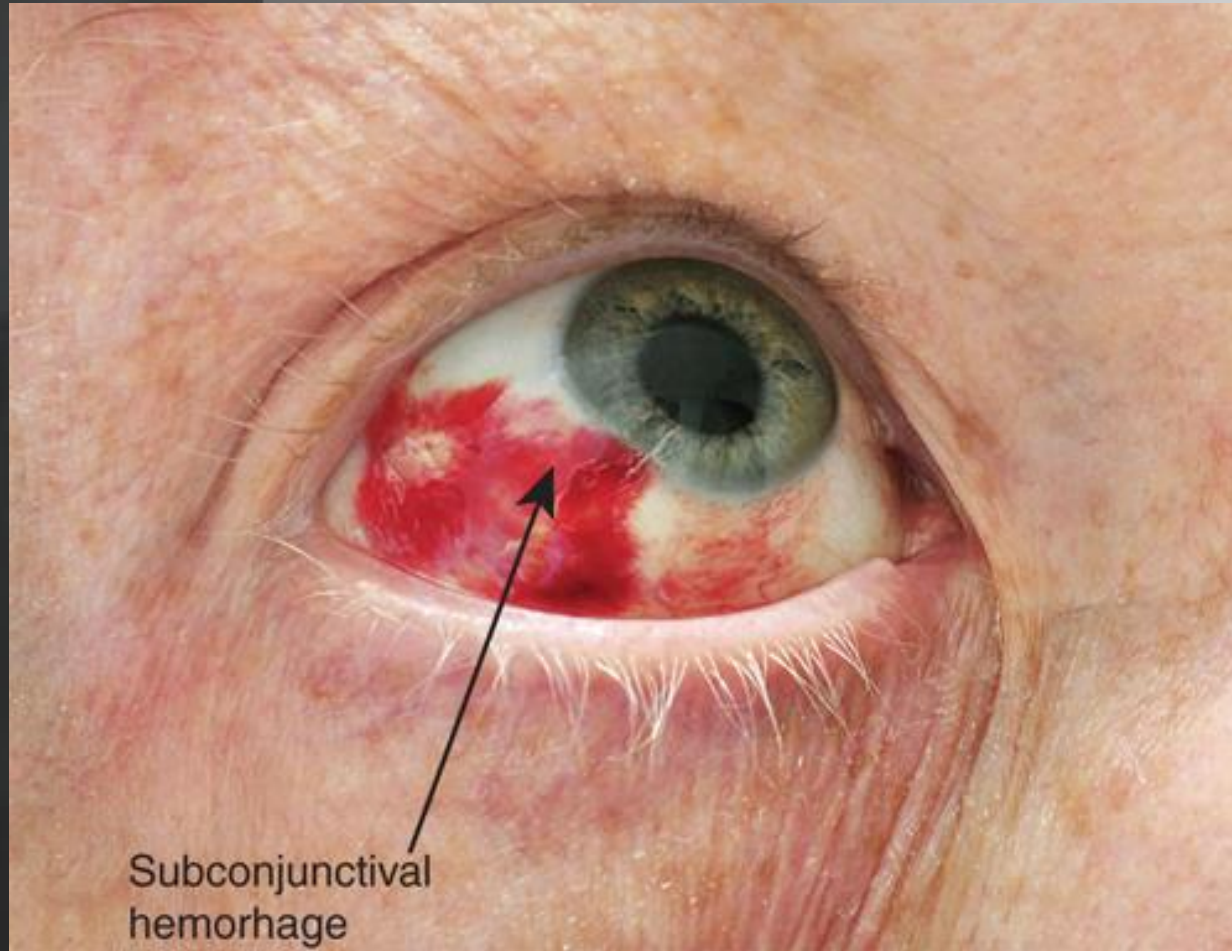
Retinal Detachment



Hyphema

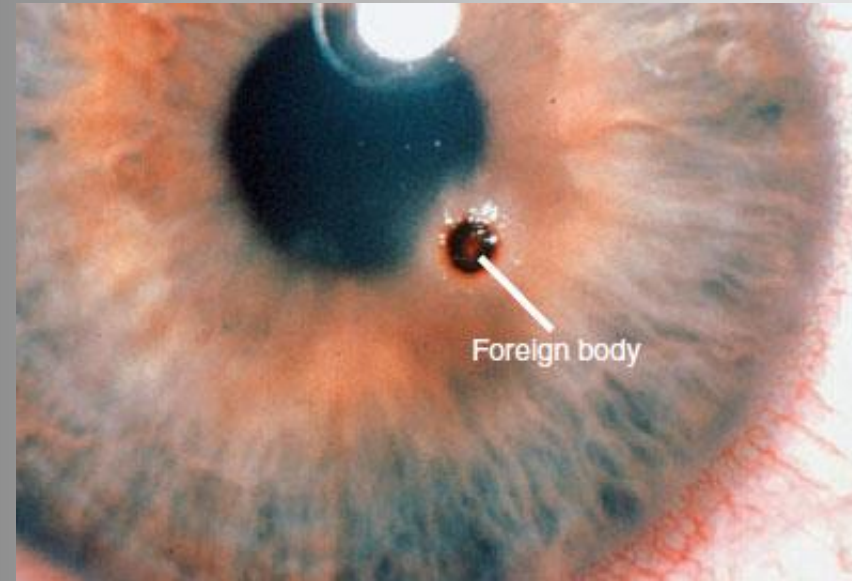


Subconjunctival Hemorrhage



Subconjunctival
hemorrhage

Corneal Injury



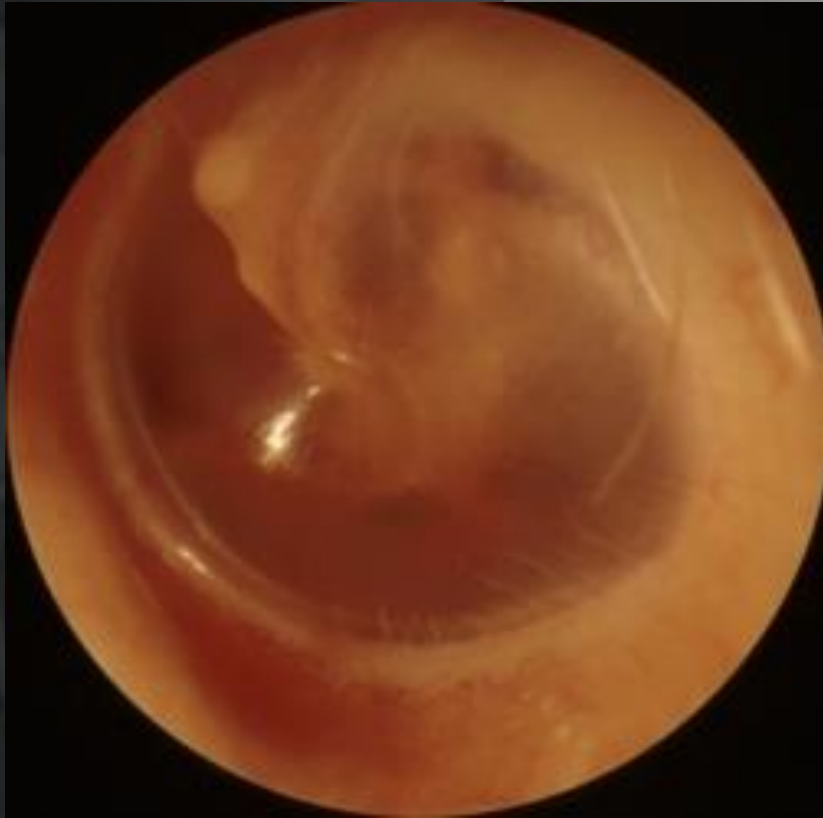


EAR INJURIES

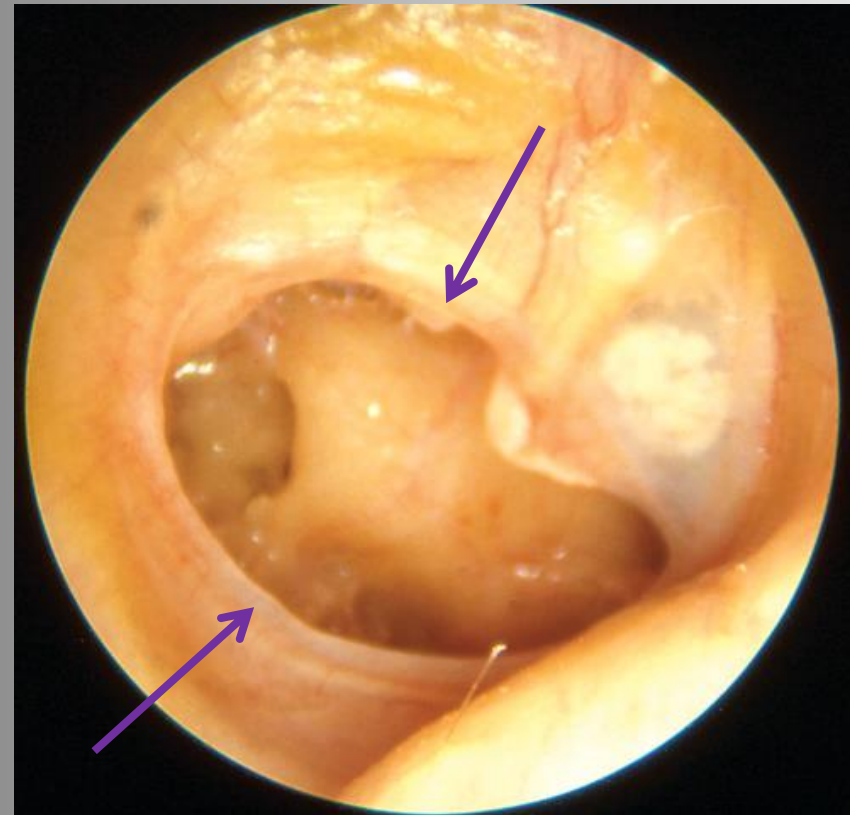
Auricular Hematoma



Perforated Tympanic Membrane



Normal

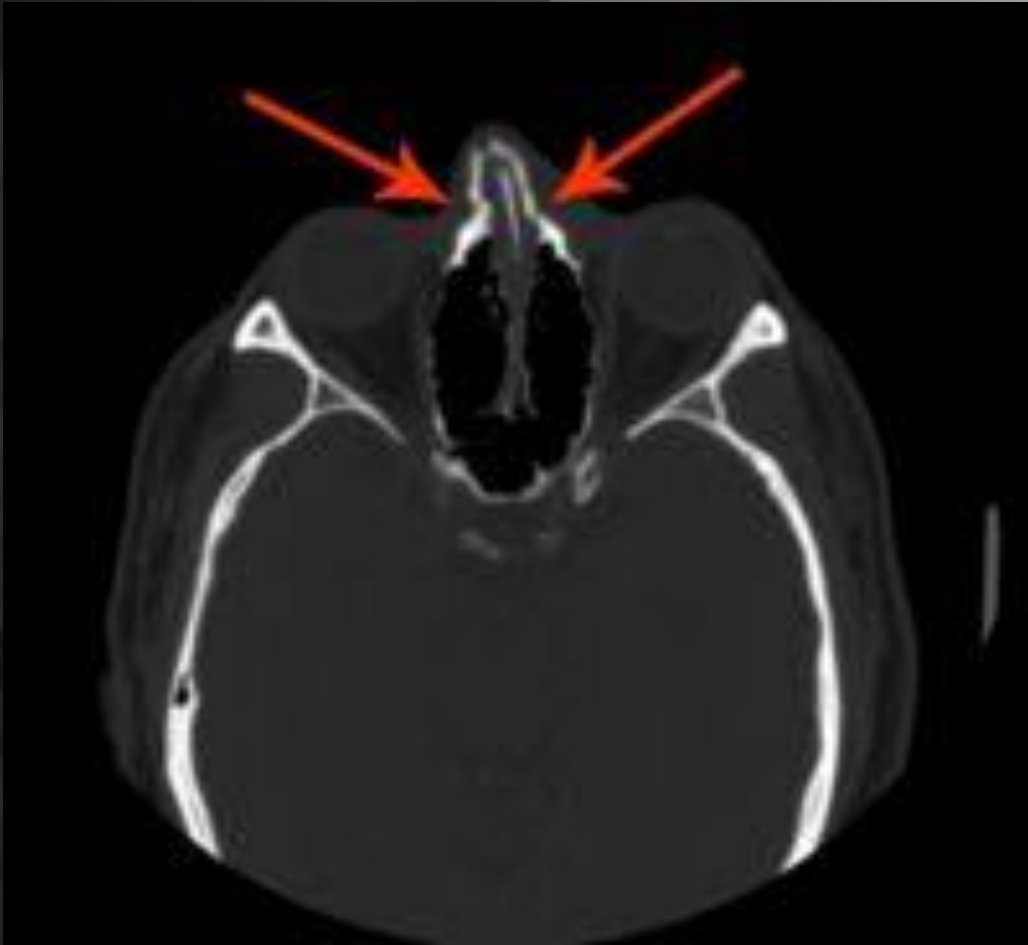


Perforated

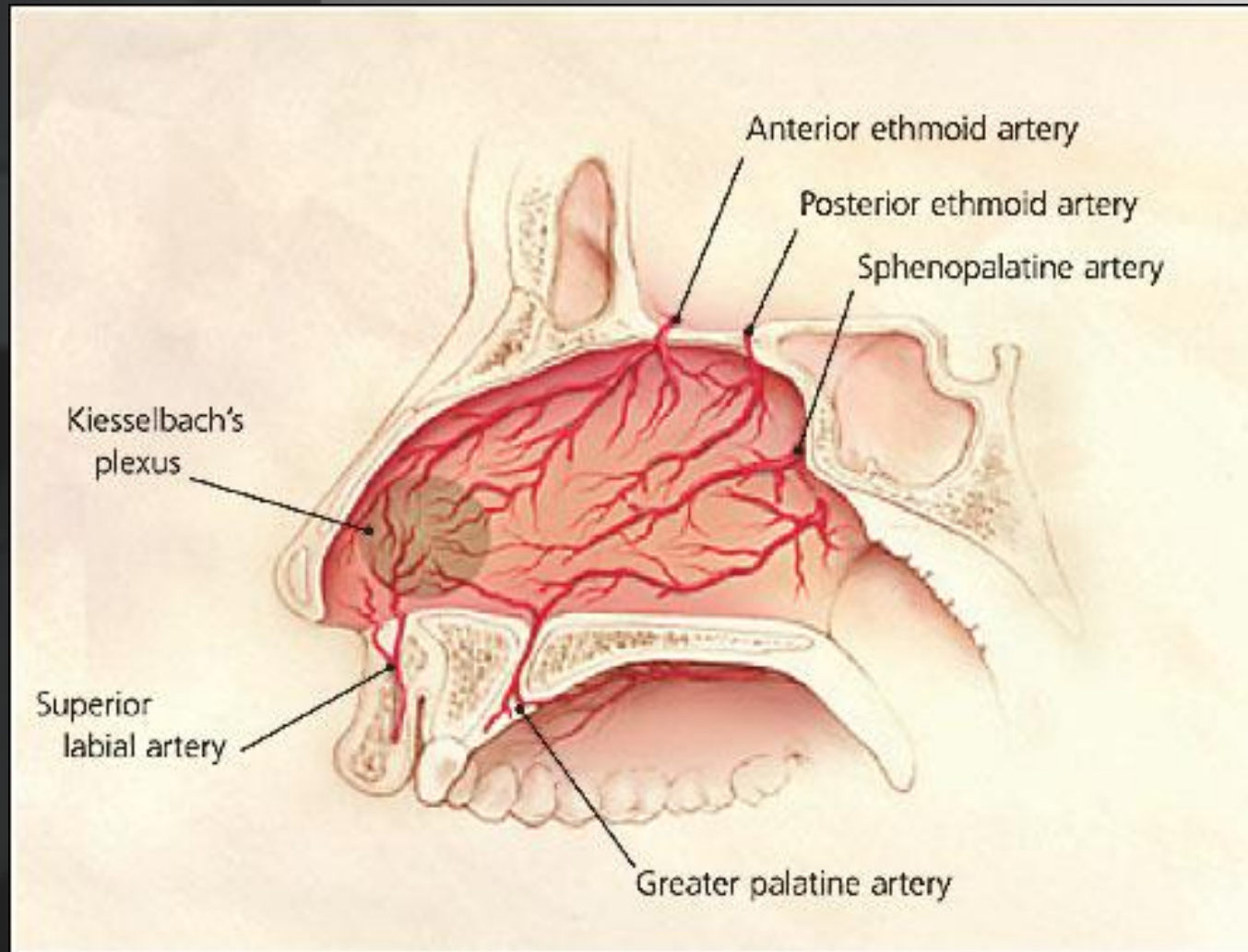


NASAL INJURIES

Nasal Fracture

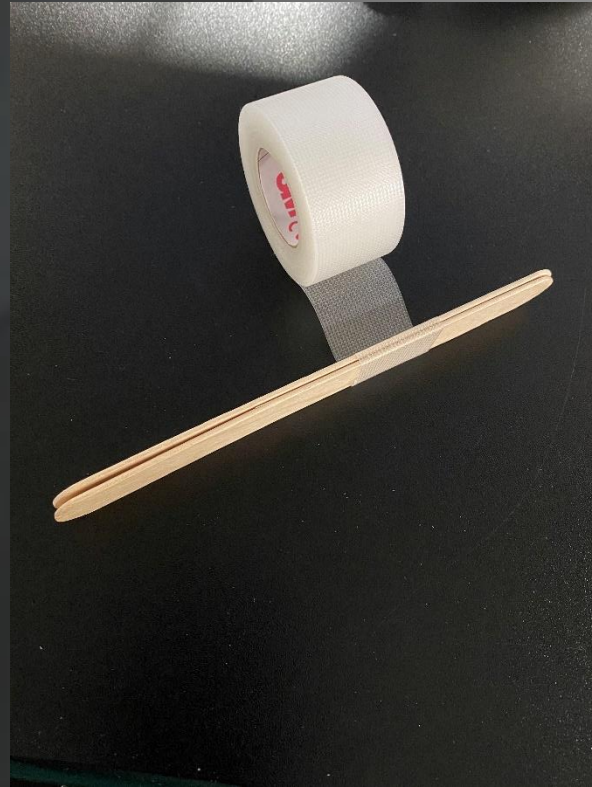
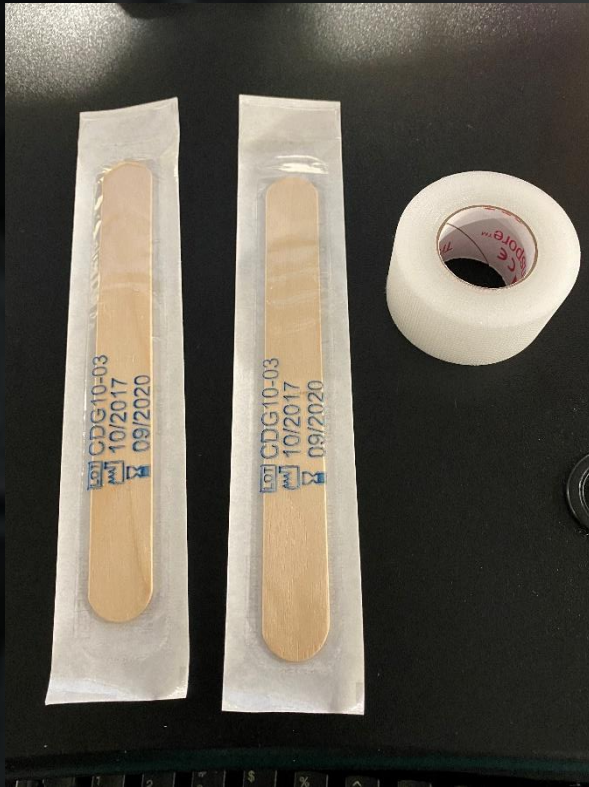


Epistaxis



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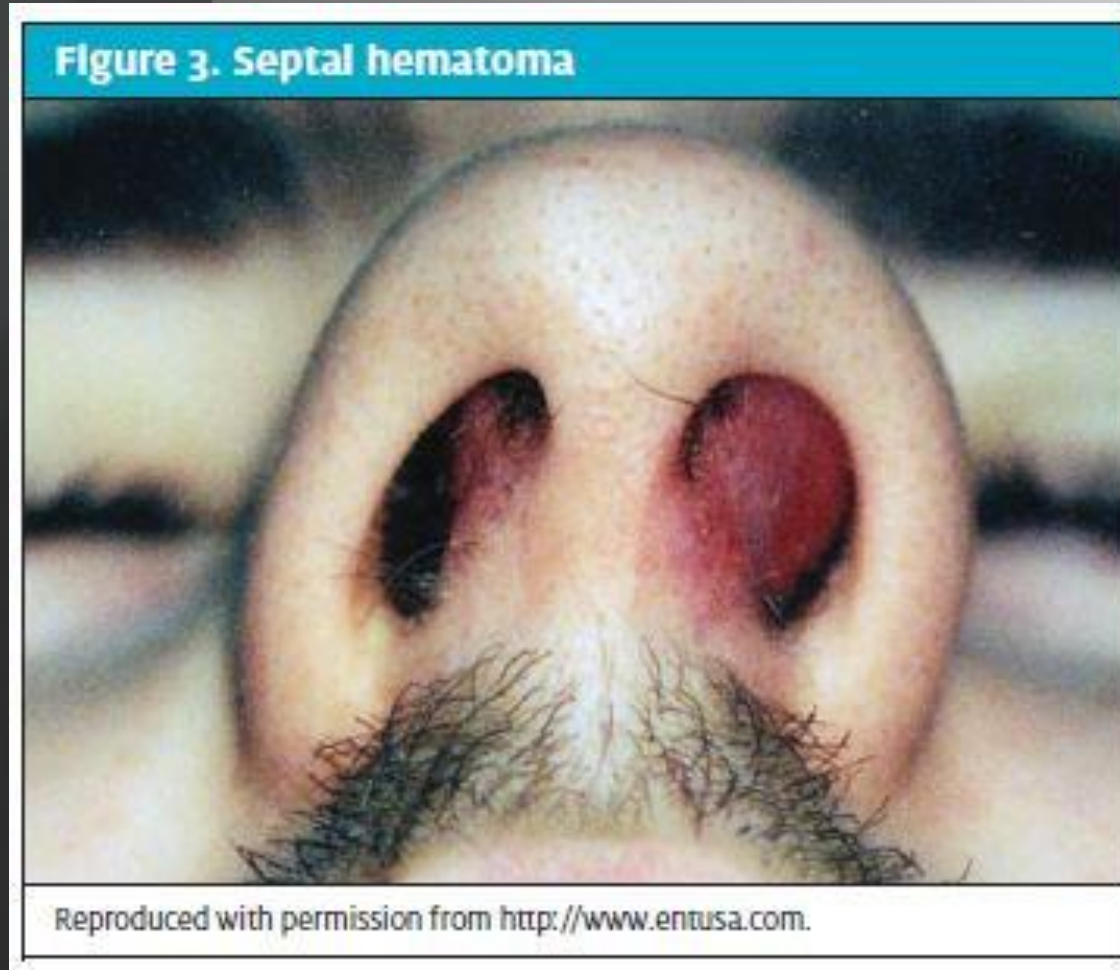
Epistaxis Treatment



Epistaxis Treatment



Septal Hematoma



Complication of nasal bone fracture

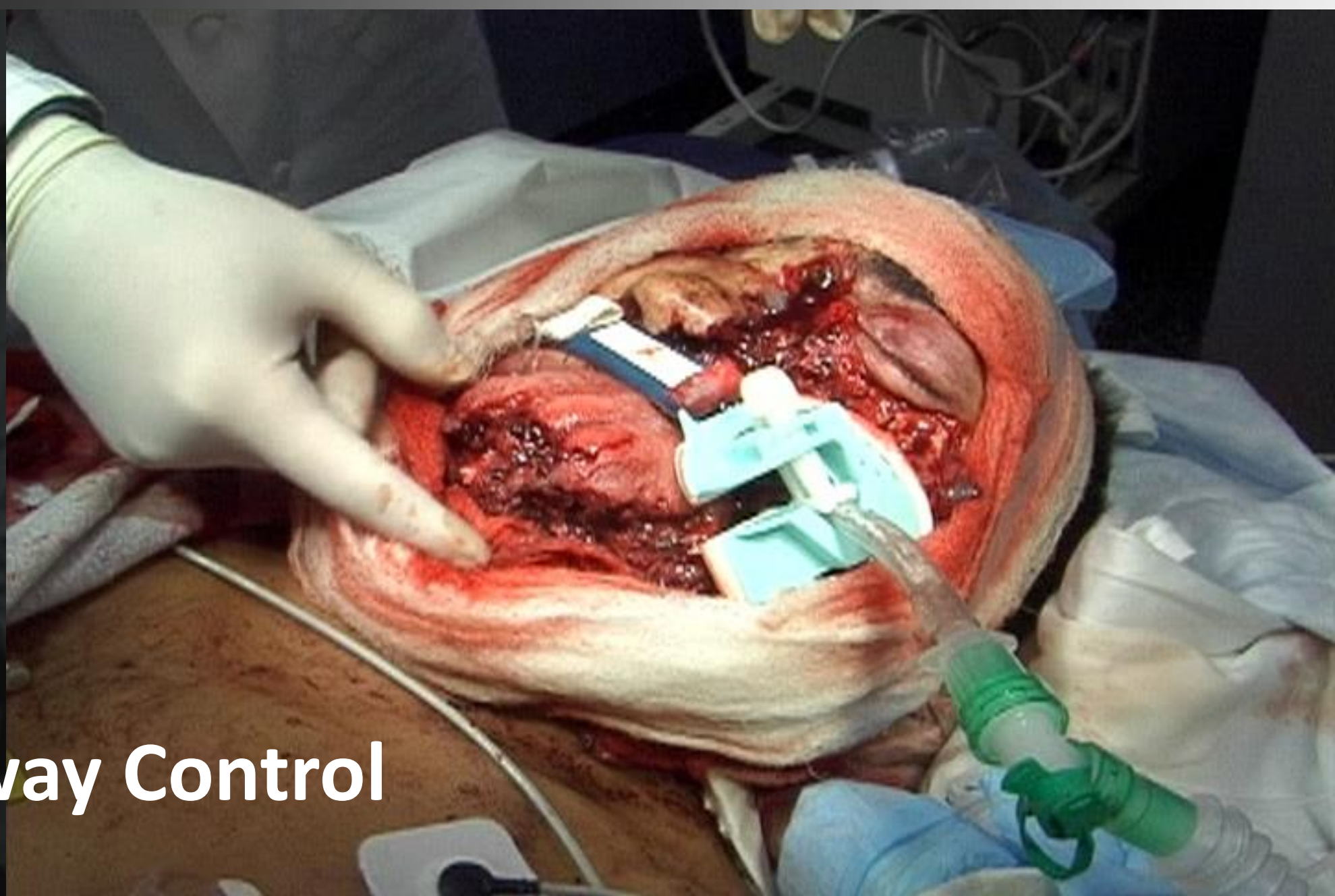


MANAGEMENT

Aggressively Control Hemorrhage



Clear the airway



Airway Control

Protect the Globe





DISPOSITION

A large orange arrow pointing to the left, with a white outline and a slight 3D effect. It is positioned on the left side of the slide.

Community
Center

A large orange arrow pointing to the right, with a white outline and a slight 3D effect. It is positioned on the right side of the slide.

Trauma
Center



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