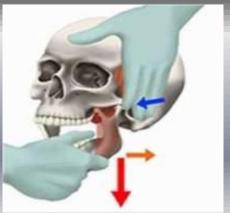
Dealing With Upper Jaw Trauma On Expedition – Primary Management



www.wildernessdentistry.com





















Diagnosis of Maxillary (Upper Jaw) Fractures. Control Epistaxis- i)Posterior Nasal Packing Technique ii) Anterior Nasal Packing Technique.

Upper jaw fracture with catastrophic bleeding and medivac not available!!!

Burjor Langdana

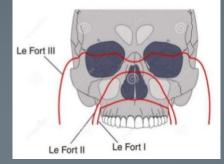
Maxillary Fractures; Clinical features - Physical "Look with fingers and eyes". Examination

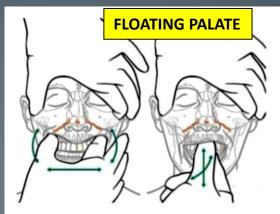


Differentiating Leforts

Pull forward on maxillary teeth

- · Lefort I: maxilla only moves
- · Lefort II: maxilla & base of nose move:
- · Lefort III: whole face moves:

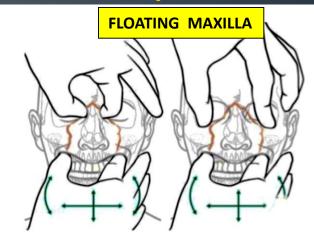




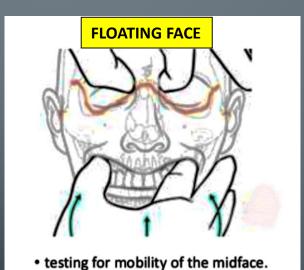
Mobility of the midface may be tested by grasping the anterior alveolar arch and pulling forward while stabilizing the patient with the other

ONLY TEETH & HARD PALATE MOVE

Expedition Fa



· testing for mobility of the central midface HARD PALATE & NOSE MOVE- NOT EYES



THE WHOLE FACE MOVES





EYES AND PERIORBITAL REGION

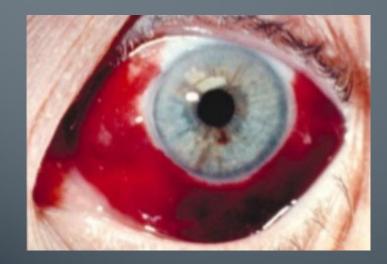


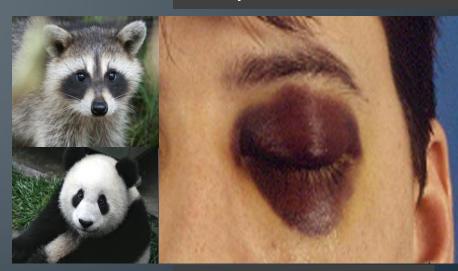




Circumorbital Edema & Ecchymosis

Flame shaped hemorrhage with posterior limit not seen (Suspect # of the orbital walls)





Subconjunctival Ecchymosis Expedition Facial Trauma Workshop -Burjor Langdana Panda / Racoon Eyes.

Neck Subcondyla (caudal) are

BATTLE SIGN. Post Auricular Bruising. Base of Skull Fracture
Condyle impacts above into the MCF fracturing the mastoid
process. (Brit Surg; W.H Battle-1855-1936)



Check for any CSF Ottorrhea

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PERI AURICULAR REGION & PALATE



Blood in the ear canal may indicate skull base fractures or external auditory canal lesion resulting from a condylar fracture.



Palatal hematoma and/or palatal lacerations can be noted in the sagittally split palate.

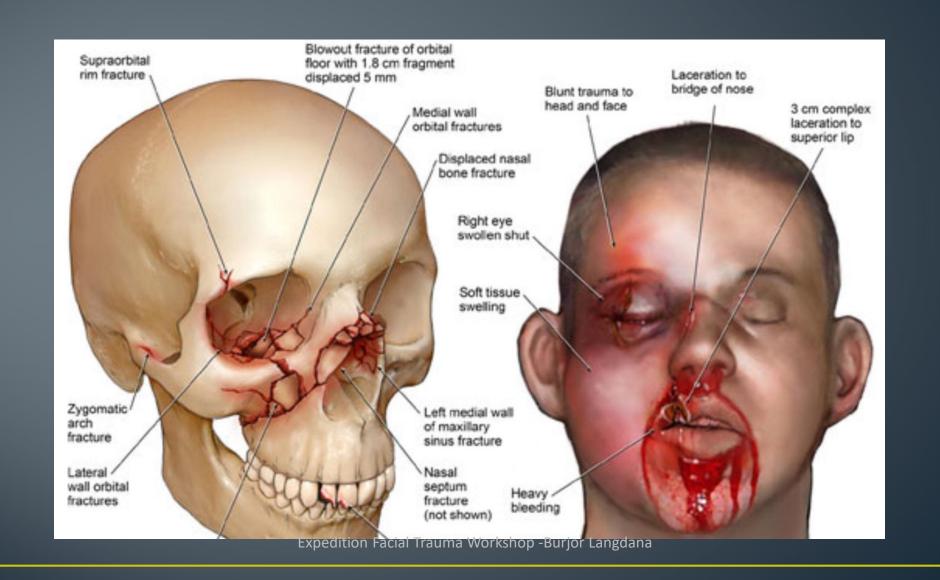
Why you should know about management of epistaxis?





- ➤ Very common +/_ Facial Injury
- Causes significant concern
- ➤ Will have to be managed in the field. Anterior +/_
 Posterior Epistaxis

Facial Trauma Resulting in Epistaxis



REFERENCE ARTICLE - DIRECT LINK THROUGH EXPEDITION DENTAL ARTICLE LIBRARY ON THIS WEBSITE

Journal of Emergencies, Trauma, and Shock

Wolters Kluwer -- Medknow Publications

Management of maxillofacial trauma in emergency: An update of challenges and controversies

Anson Jose, Shakil Ahmed Nagori, [...], and Ajoy Roychoudhury

J Emerg Trauma Shock. 2016 Apr-Jun; 9(2): 73–80.

doi: 10.4103/0974-2700.179456

PMCID: PMC4843570

PMID: 27162439

Anson Jose, Shakil Ahmed Nagori, Bhaskar Agarwal, Ongkila Bhutia, and Ajoy Roychoudhury

Department of Oral and Maxillofacial Surgery, All India Institute of Medical Sciences, New Delhi, India

INITIAL STEPS

- Assessment of general condition
- Resuscitation if required

Initial medical review

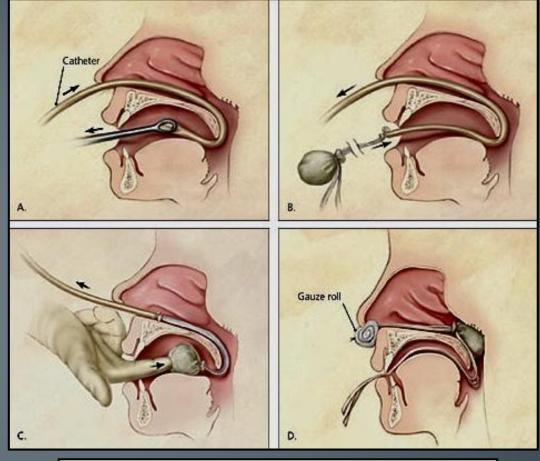


FIRST AID





NASAL PACKING - POSTERIOR





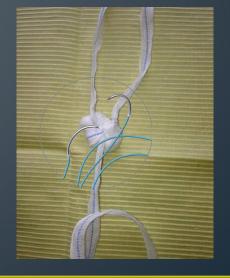








Post Nasal Pack

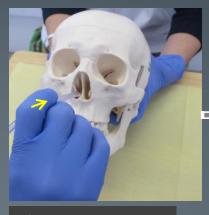


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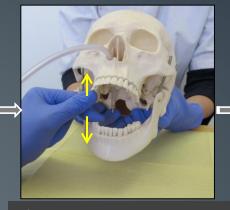
Posterior Nasal Packing



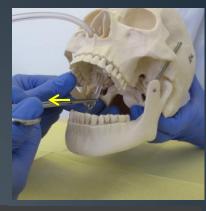
1) Slide catheter along nasal floor



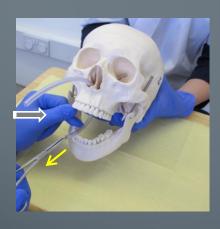
2) Pushing gently to **Posterior aspect**



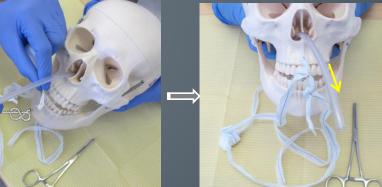
3) Open the mouth- By **Crossing thumb and index** Finger. Thumb pushing upwards **Index finger downwards**



4) Grasp Catheter as it **Emerges from posterior** aspect of palate with artery clip



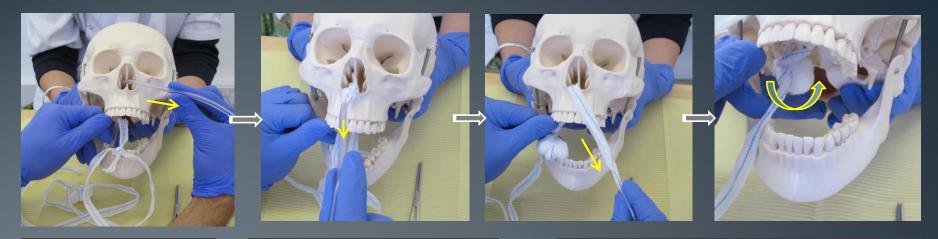
5) Emerged end of catheter Is <u>pulled out</u> from the mouth







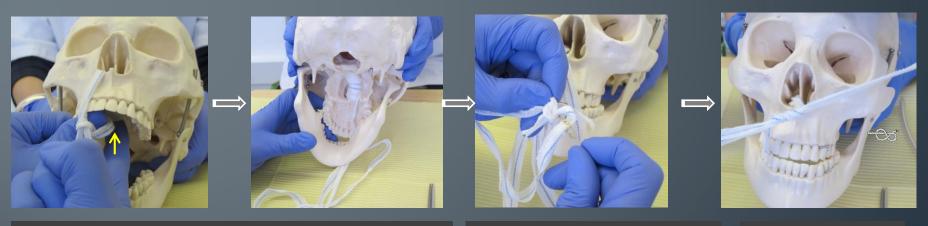
6) <u>Double ended tail</u>(Umbilical) of posterior nasal pack is <u>tied to catheter</u>



7) Catheter is <u>pulled out</u> Gently

8) <u>Double ended tail (Umbilical)</u> of tied post nasal pack <u>comes</u> <u>out</u> with catheter

9) <u>Guide post nasal pack</u> around the <u>back</u> of the Hard <u>palate</u> as you <u>pull gently</u> on the <u>double</u> Ended <u>tail</u>

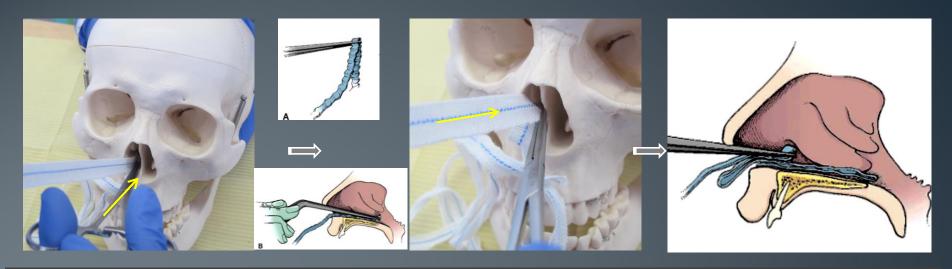


10) Using index finger tuck in to firmly seat the post nasal pack.

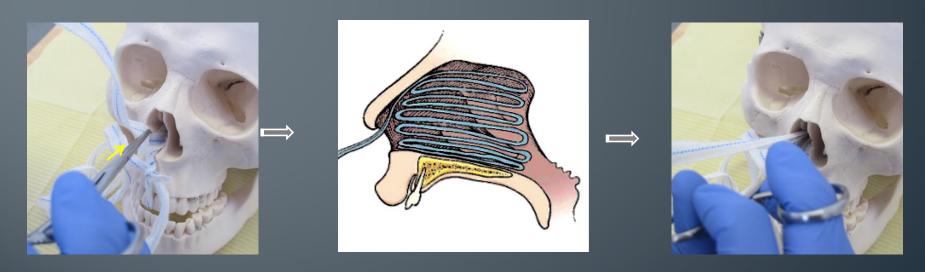
11) <u>Untie</u> the Double ended Tail(Umbilical) from the <u>catheter</u>

12) Ends are <u>tied</u> to Stabilise.

Anterior Nasal Packing



Hold the end of the ribbon gauze and slide it along the nasal floor. Fold the rest slowly in layers to the apex of the nasal cavity



You are working as a VSO in Malawi. Rural Hospital- Anaemic Medivac Service...

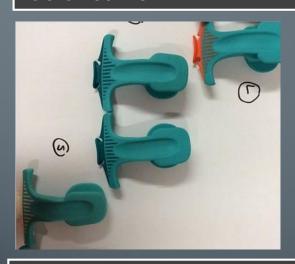


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Splinting of MidFace Fracture— Control Bleeding- Epistat /Foleys Catheter Module



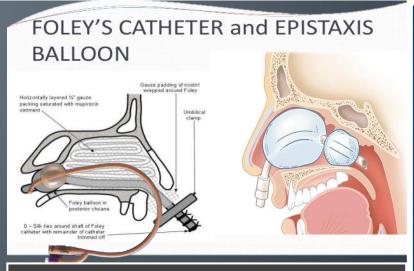
THERE IS A LOT OF BLOOD. HIS AIRWAY IS OBSTRUCTING



THE HARD PALATE IS HELD IN PLACE AGAINST THE STABLE MANDIBLE BY THE BITE BLOCKS



MANDIBLE IS STABILISED ON TOP OF SEMI-RIGID CERVICAL COLLAR





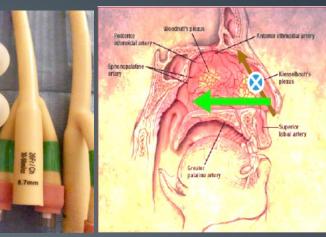


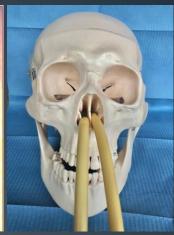
cial Trauma Workshop -Burjor Langdana

Splinting of MidFace Fracture- Control Bleeding.







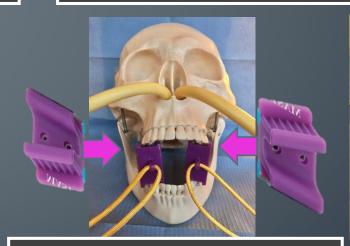


INFLATE POSTERIOR BALLOON (30) WITH 10 ML INFLATE ANTERIOR BALLOON (50) WITH 10 ML NOTE ANTERIOR INFLATES ONLY SUPERIORLY

NOTE- CATHETER WILL BE INSERTED
ORIENTERING AS ABOVE. SUCH THAT
INFLATED ANTRIOR FACES NASAL ROOF

DEFLATE- INSERT – CORRECTLY ORIENTEERING





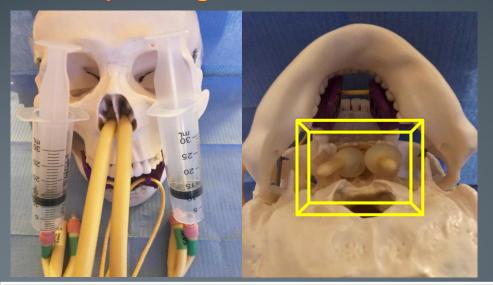
INSERT THE BITE BLOCKS- NARROW END GOES IN FIRST- BITE BLOCKS MUST ALWAYS HAVE TIES ON THEM



ADJUST- C-SPINE COLLAR

Expedition

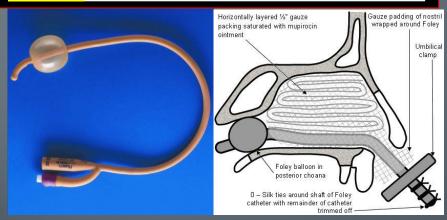
Splinting of MidFace Fracture- Control Bleeding.



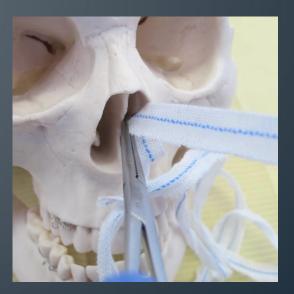


POSTERIOR BALLOON (30 PORT) SIMULTANEOUSLY. EPISTAT- 10 ML SALINE SIMLUTANEOUSLY

LEFT SIDE FOLLEYS CATHETER EXCERSISE- HANDS ON

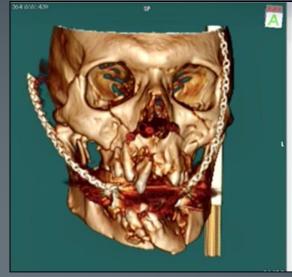


PLACE ANTERIOR NASAL PACK AROUND CATHETER



Splinting of MidFace Fracture – Control Bleeding.





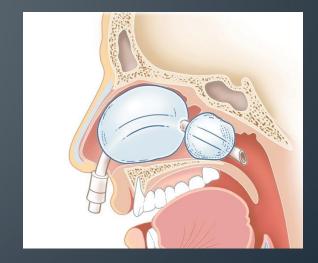


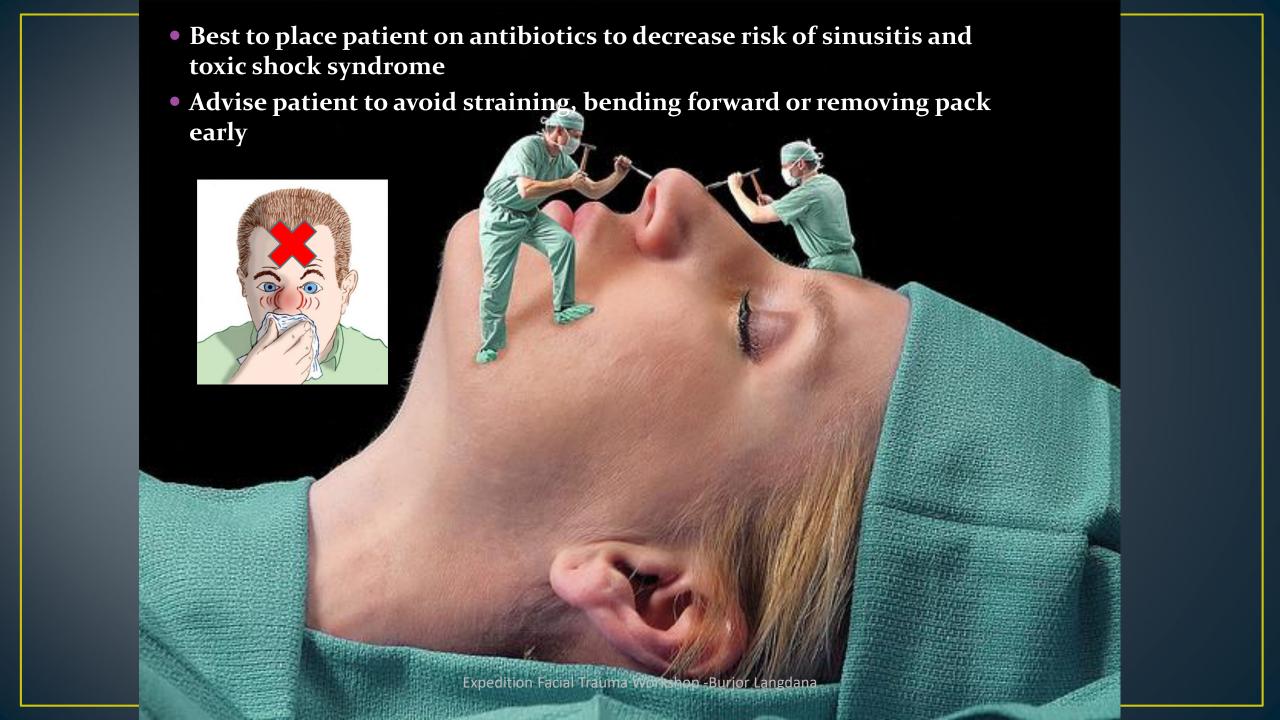
ANTERIOR BALLOON (50 PORT) <u>SIMULTANEOUSLY.</u> EPISTAT- 30 ML SALINE SIMLUTANEOUSLY. IN 10 ML INCREMENTS











REFERENCE ARTICLE – DIRECT LINK THROUGH EXPEDITION DENTAL ARTICLE LIBRARY ON THIS WEBSITE





Floating in the Face of Danger: MaxFax injuries in the ED

THANK YOU.....



