

## **“Sinusitis”**

### **5<sup>th</sup> class/part 2**

#### **❖ Antral Lavage:**

- Indication
  1. Diagnostic
  2. Therapeutic
- contra indication:
  1. Children <3 years
  2. Hypo plastic maxilla
  3. Acute fibril sinusitis
  4. Presence of orbital trauma
  5. Bleeding tendency

Procedures done either under LA or GA. “Tilley Litchwitz trocare and canula” used for this purpose.

#### **❖ Complications:**

1. Vagal attack
2. Bleeding
3. Damage to anterior wall → pain + check swelling
4. Orbital floor injury
5. Embolism (air).

#### **❖ “Inferior meatal antostomy”**

Indication: for acute and chronic sinusitis not responding to conservative. Rx: which it relies upon gravitational drainage and aeration to improve sinus mucosa done under GA better than LA. Window of about 2cm x1cm window is done in the inferior meat us.

- Complications:
  1. Posterior extension → bleeding → injury to sphenopalatine art.
  2. Anterior extension → change of dental sensation → injury to anterior superior alveolar.

### ❖ **Cauld well Luc procedures:**

- Indication:
  1. Chronic sinusitis, recurrent antrochoanal polyp
  2. Closure of oroantral fistula.
  3. Removal of dental cyst
  4. Removal of FB ((Dental root)).
  5. Stabilization of orbital floor.
- Contra indication
  - 1- Children before completion of second dentition.
  - 2- As root for taking biopsy in malignancy

Operation done UGA better than LA. Incision done 3mm above gingivolabial sulcus from posterior edge of lat. Incisor to 1, or 2<sup>nd</sup> molar ,flap removed , enter the ant rum through making in the canine fosse 1-2 cm diam”.

- Complications:
  - 1- Lat extension → He → inj to sphinopatine art.
  - 2- Inferior extension → damage to teeth.

### ❖ **“frontal sinus washout”**

- Indications: acute frontal sinusitis not responding to conservative. Rx.
- Technique:

Small incision made 1cm below medial end of eyebrow done to the bone then sinus entered easily using drill, drainage tube inserted and sutured in place for regular lavage over the following 48-72 hours.
- Complications:
  - 1- Damage to supra orbital N.
  - 2- Damage to durra.

## **“Complications of sinusitis”**

- a. Orbital:
  - 1- Orbital cellulites wout abscess.
  - 2- Orbital cellulites w subperiosteal abscess
  - 3- Orbital cellulites w intraperiosteal abscess.
- b. Intracranial:
  - 1- Meningitis, encephalitis
  - 2- Abscess “extradural, subdural, intracerebral”.
  - 3- Cavernous sinus thrombosis.
- c. Bony:
  - 1- Osteitis
  - 2- Osteomyelitis “potter puffy synd”
  - 3- Mucocell, pyocell
- d. Dental
- e. Otitis media, chronic tonsils, Bronchiectasis.
- f. Toxic shock syndrome