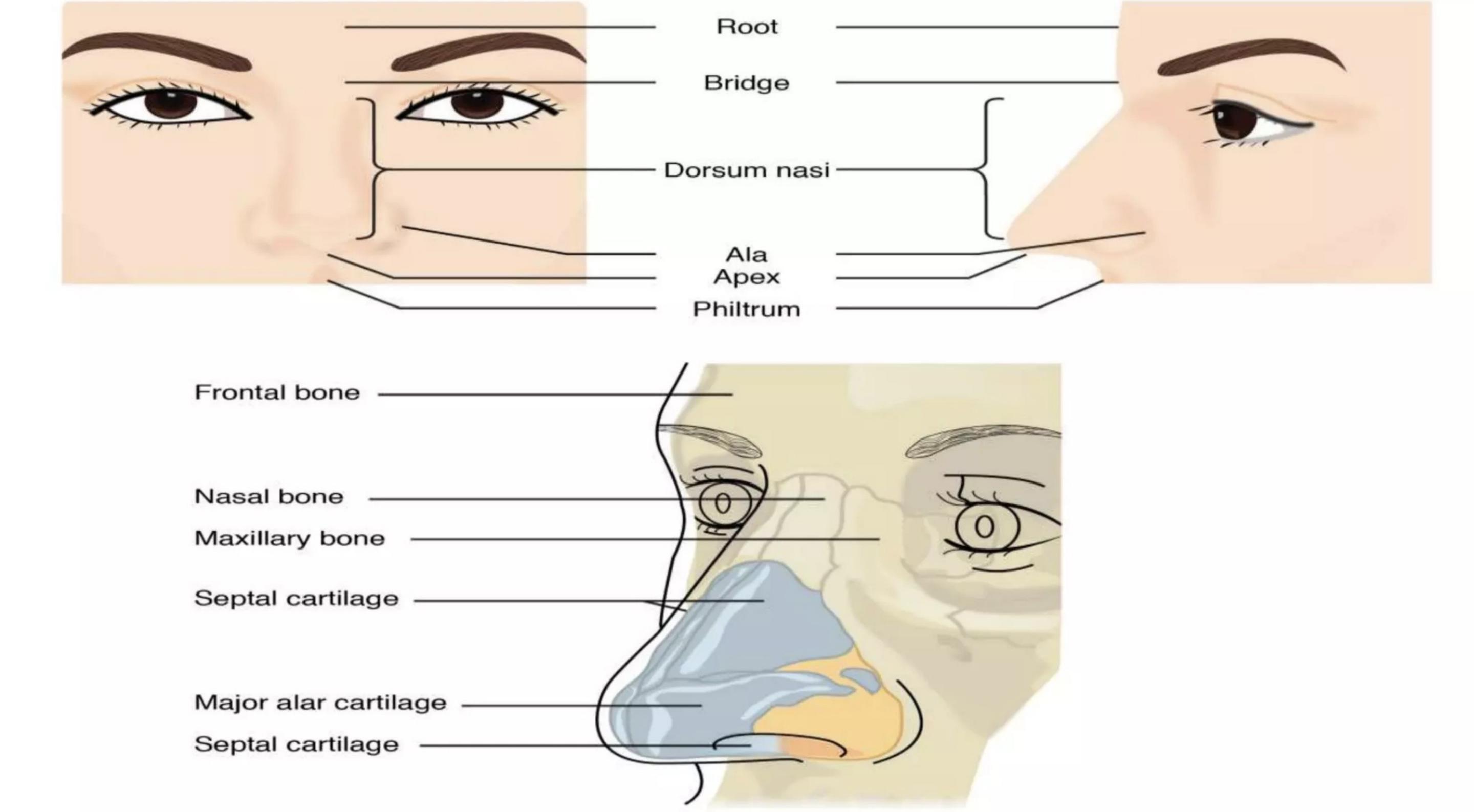
Physical Examination of Nose

DR.AMRO AL-AMLEH 13-2-2020

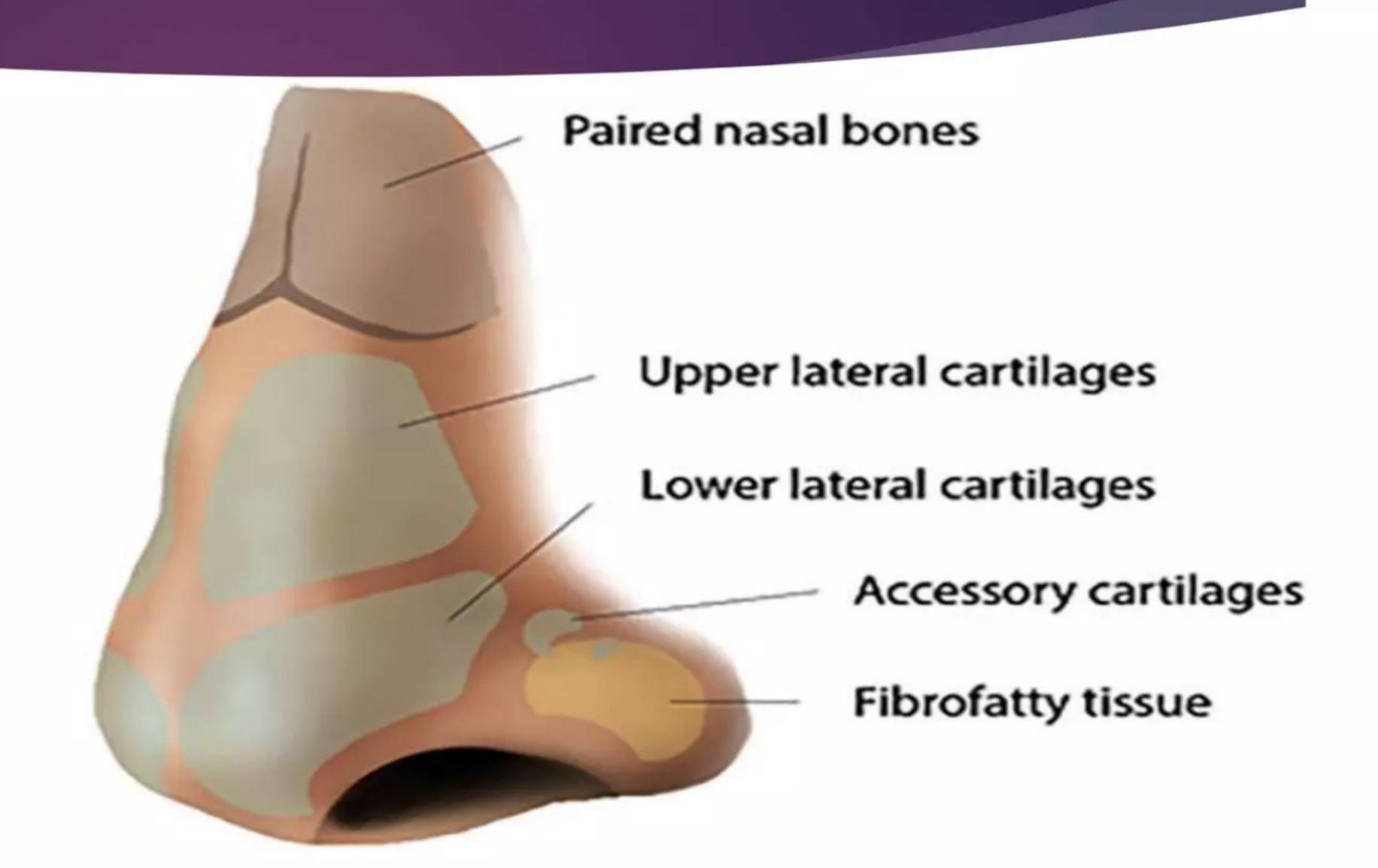


- Physical examination :-
 - External nose
 - Vestibule
 - Anterior rhinoscopy
 - Posterior rhinoscopy
- Functional examination of nose



External Nose

- Inspection and palpation for
 - Skin lesions
 - Osteocartilaginous framework (nasal bones and alar cartilages) deformities.



Inspection

Skin

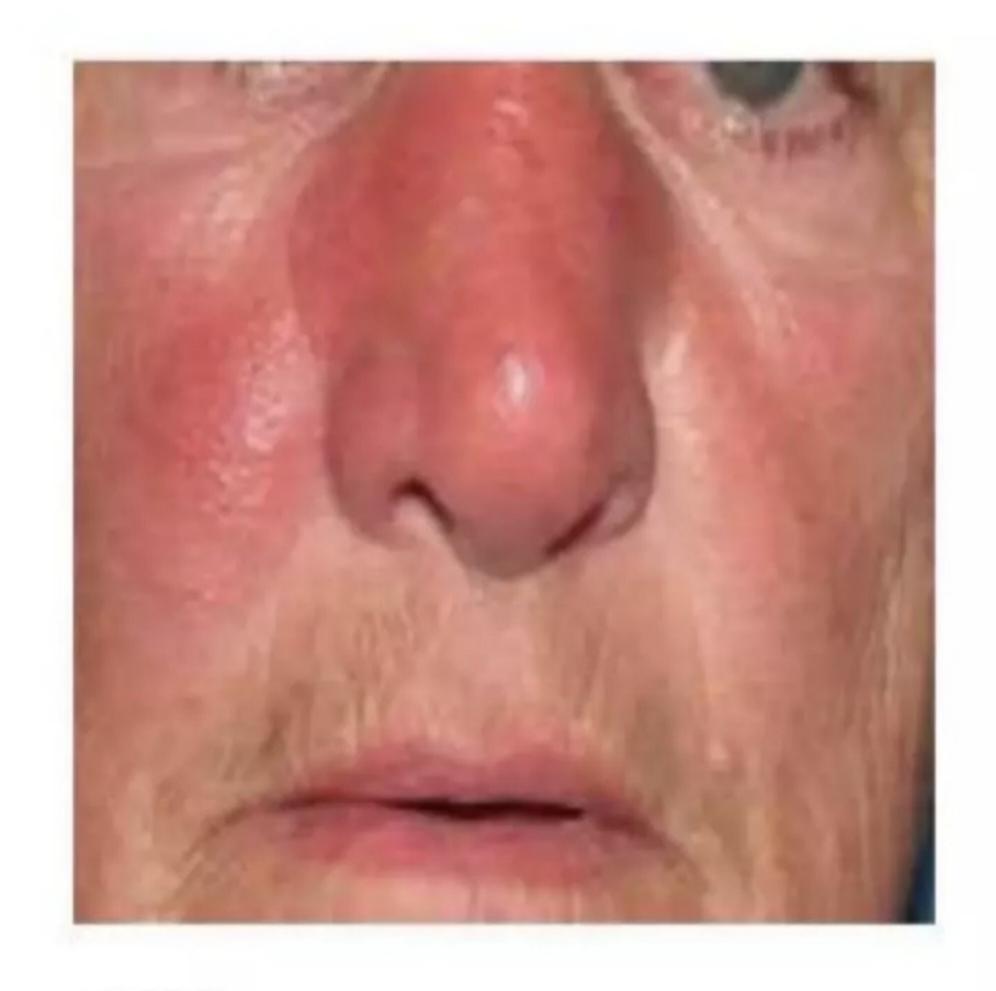
- ▶ Signs of inflammation → Cellulitits
- Skin injuries
- Scars: Operation or trauma
- Swelling and cysts (dermoid, glioma, sebaceous cyst)
- Sinus: Congenital dermoid
- ▶ Ulcer/neoplasm: Rhinophyma, basal cell/squamous cell carcinoma or melanoma, Herpes simplex/zoster

Osteocartilaginous framework

- Saddle nose
- Hump nose
- Crooked or deviated nose
- Enlargement of bony skeleton: Paget's disease or fibro-osseous dysplasia
- Cartilaginous enlargement: Chondroma or chondrosarcoma

Palpation

- Tenderness
- Fluctuation
- Crepitation (fracture)



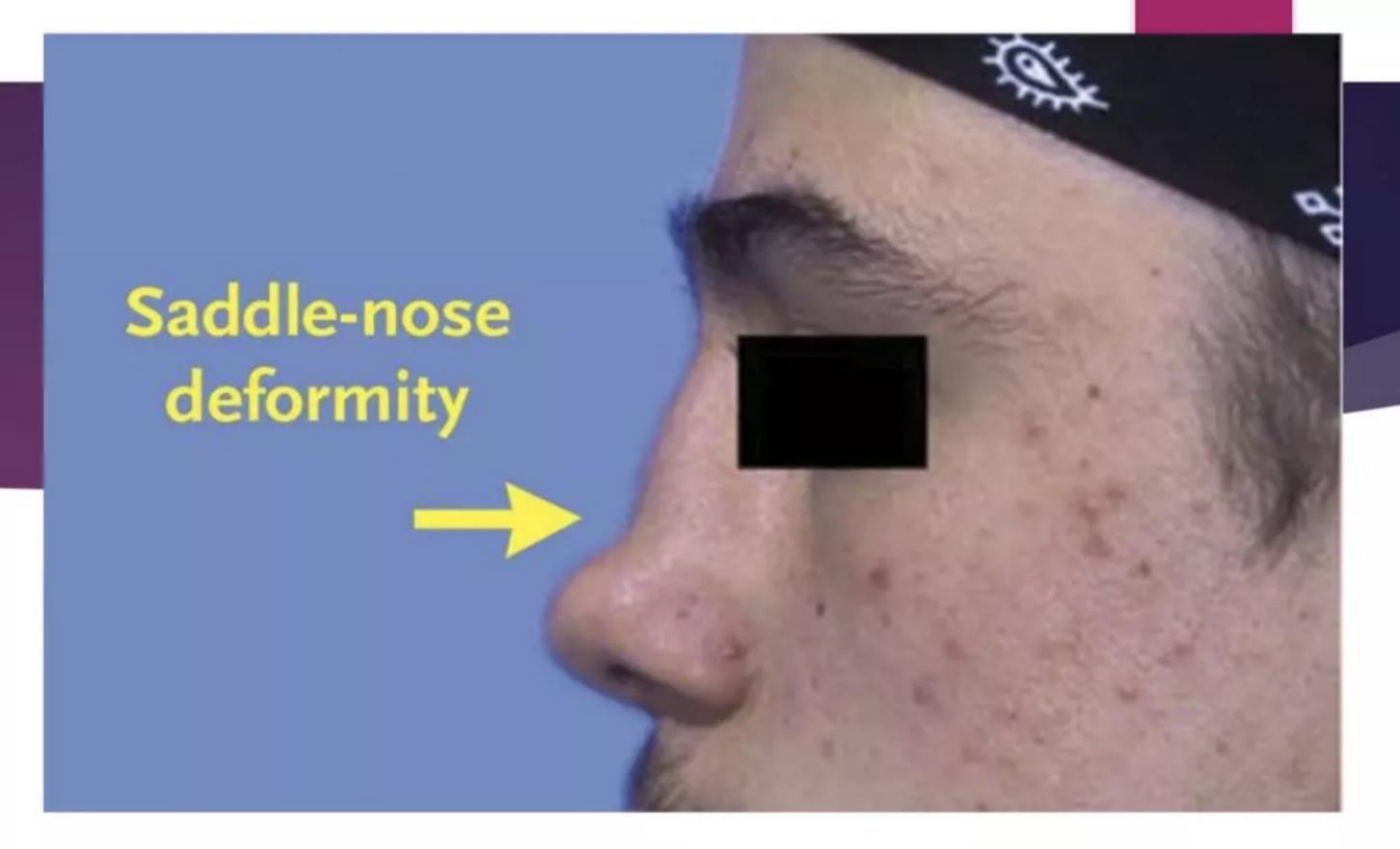
cellulitis

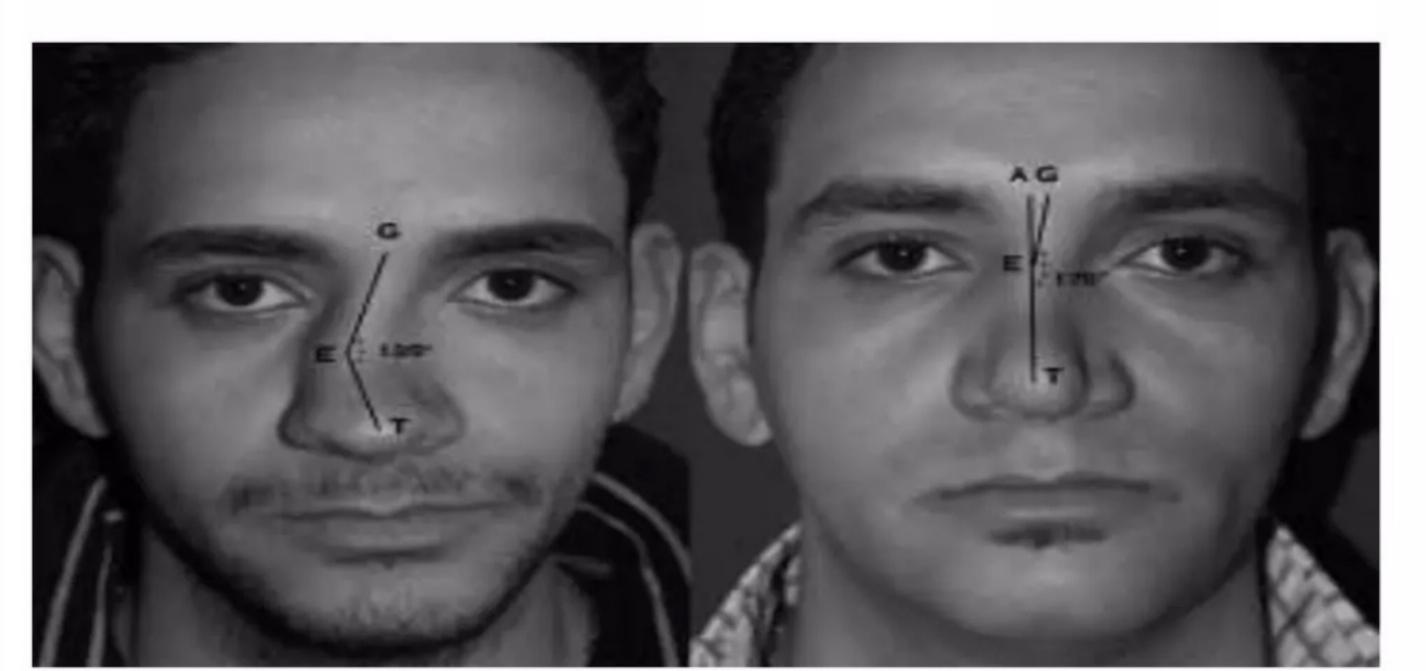


NASAL DERMOID SINUS CYST







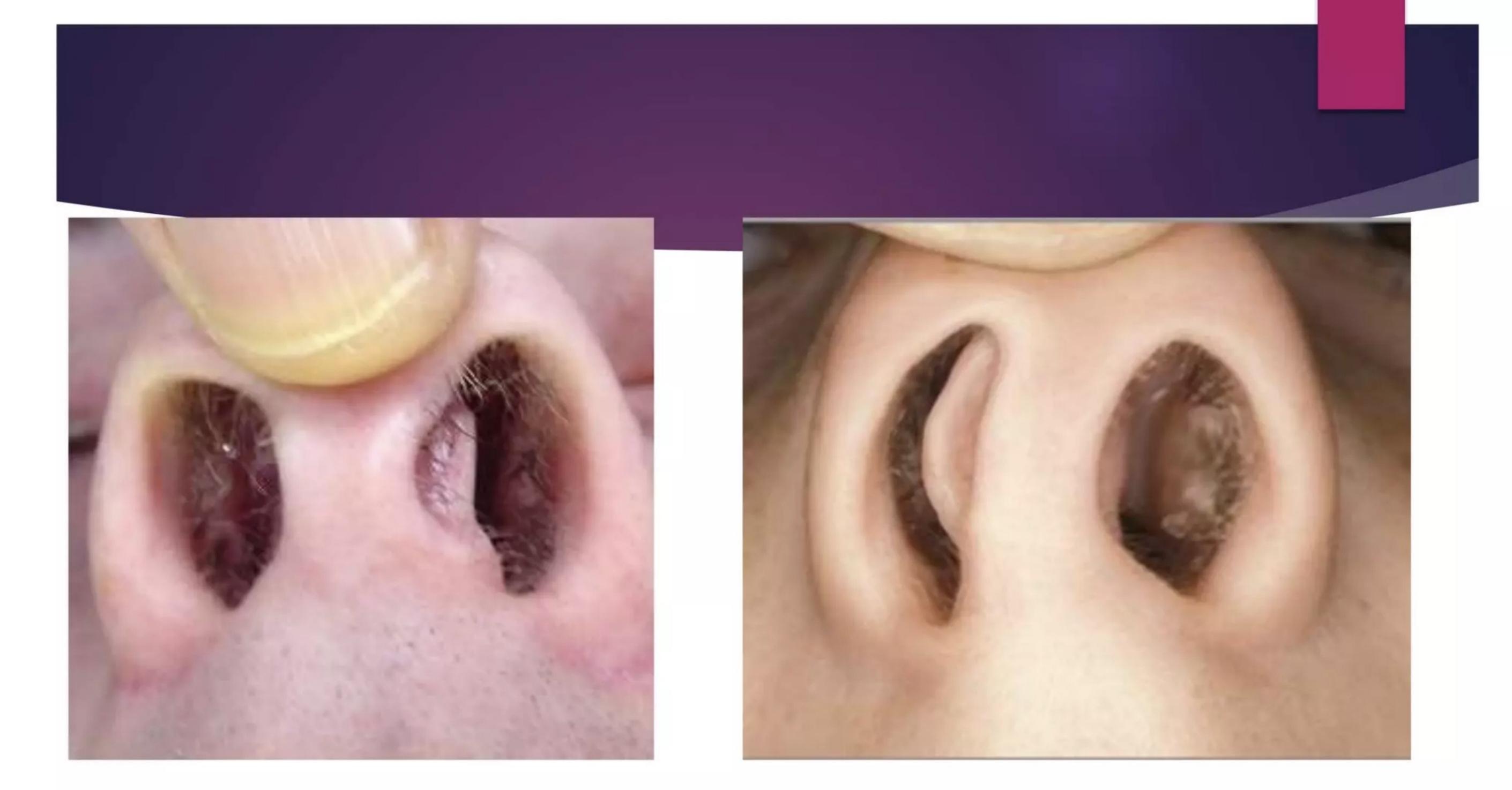


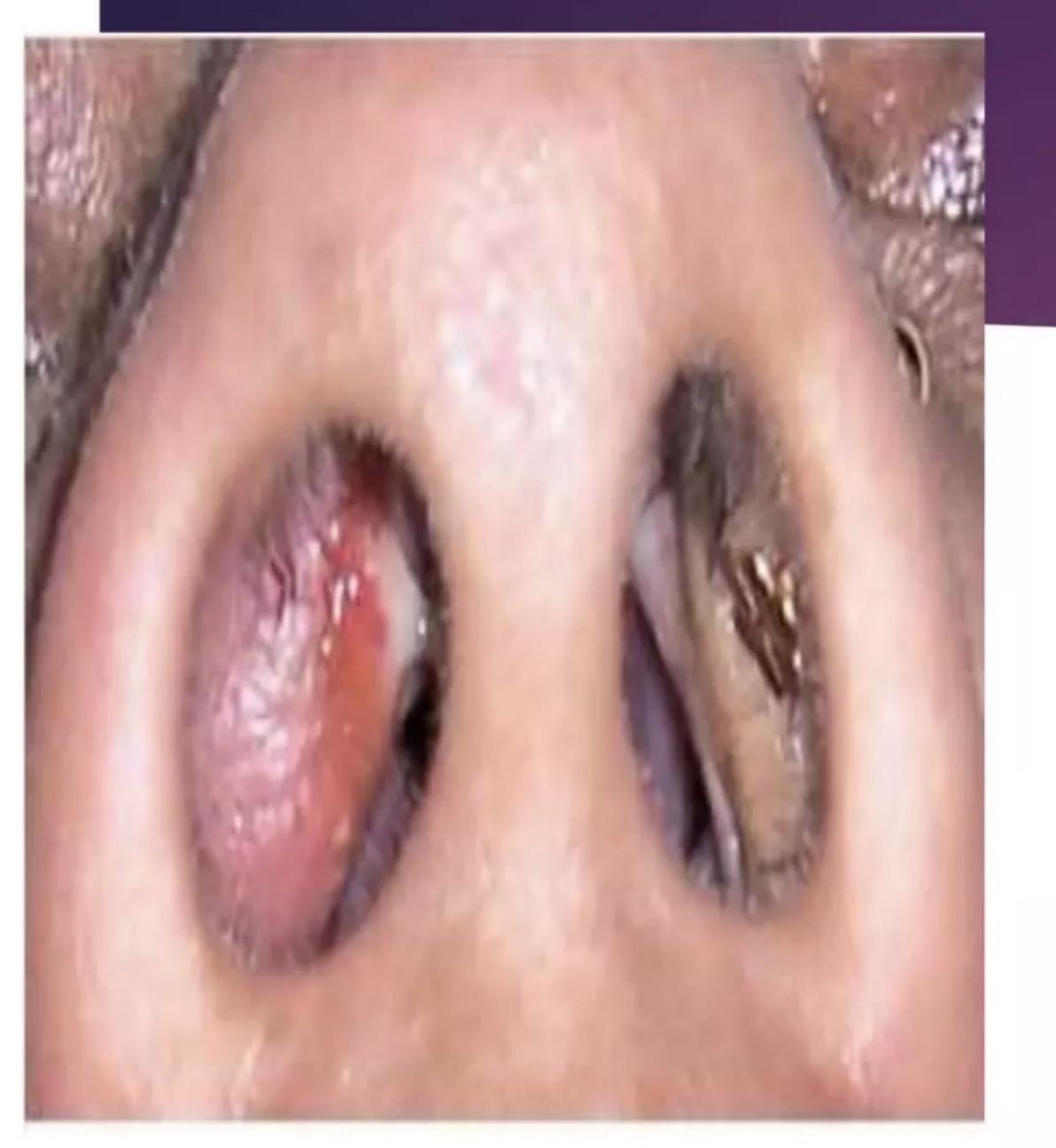
Nasal vestibule

Vestibule is an anterior skin lined part of nasal cavity having vibrissae (hairs in nasal vestibule). It can be easily evaluated by lifting the tip of nose.

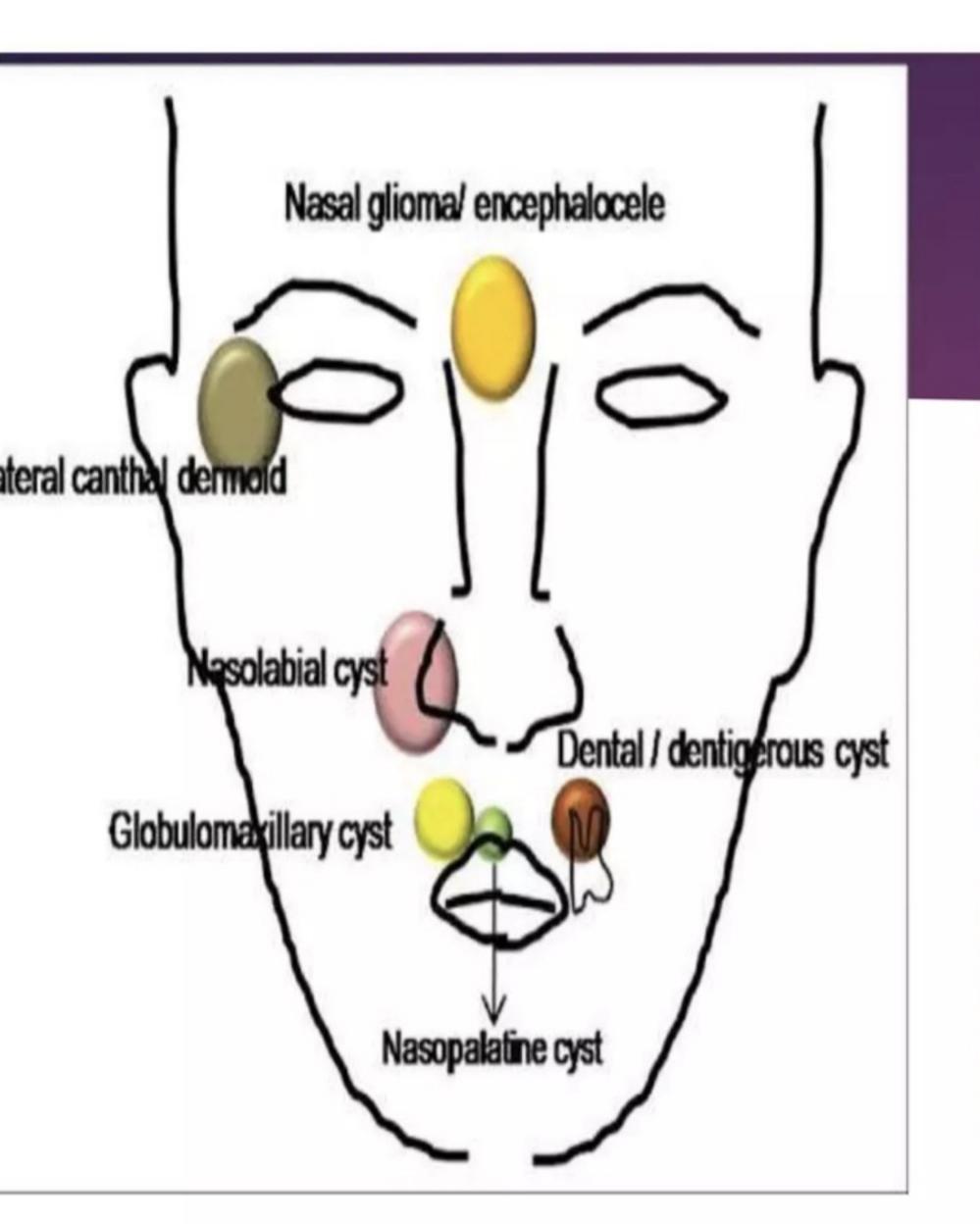


- ▶ Metaplasia → whitish dry areas.
- Caudal septal Ulcerations and perforation
- Caudal deflection of septum
- Furuncle or fissures: Vestibular examination becomes painful.
- Papilloma: It is usually pedunculated.
- Cyst: Nasolabial cyst











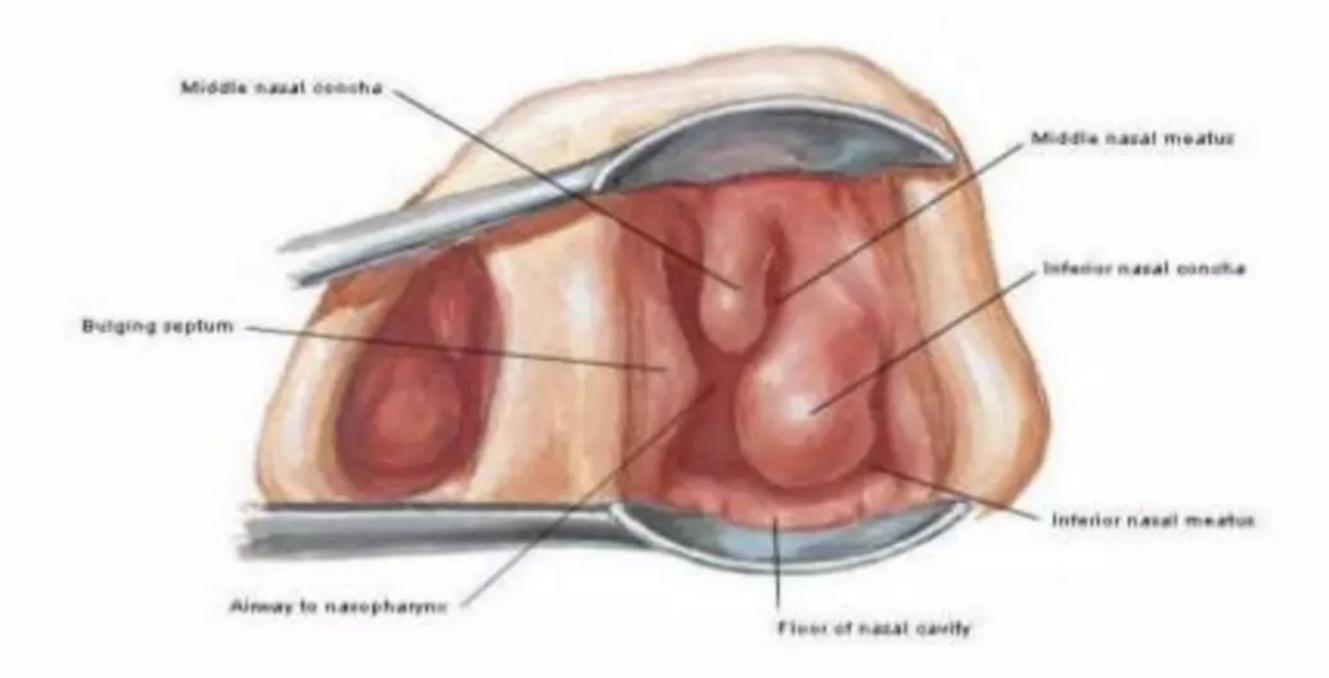
Anterior Rhinoscopy (Examination of Nasal Cavity)

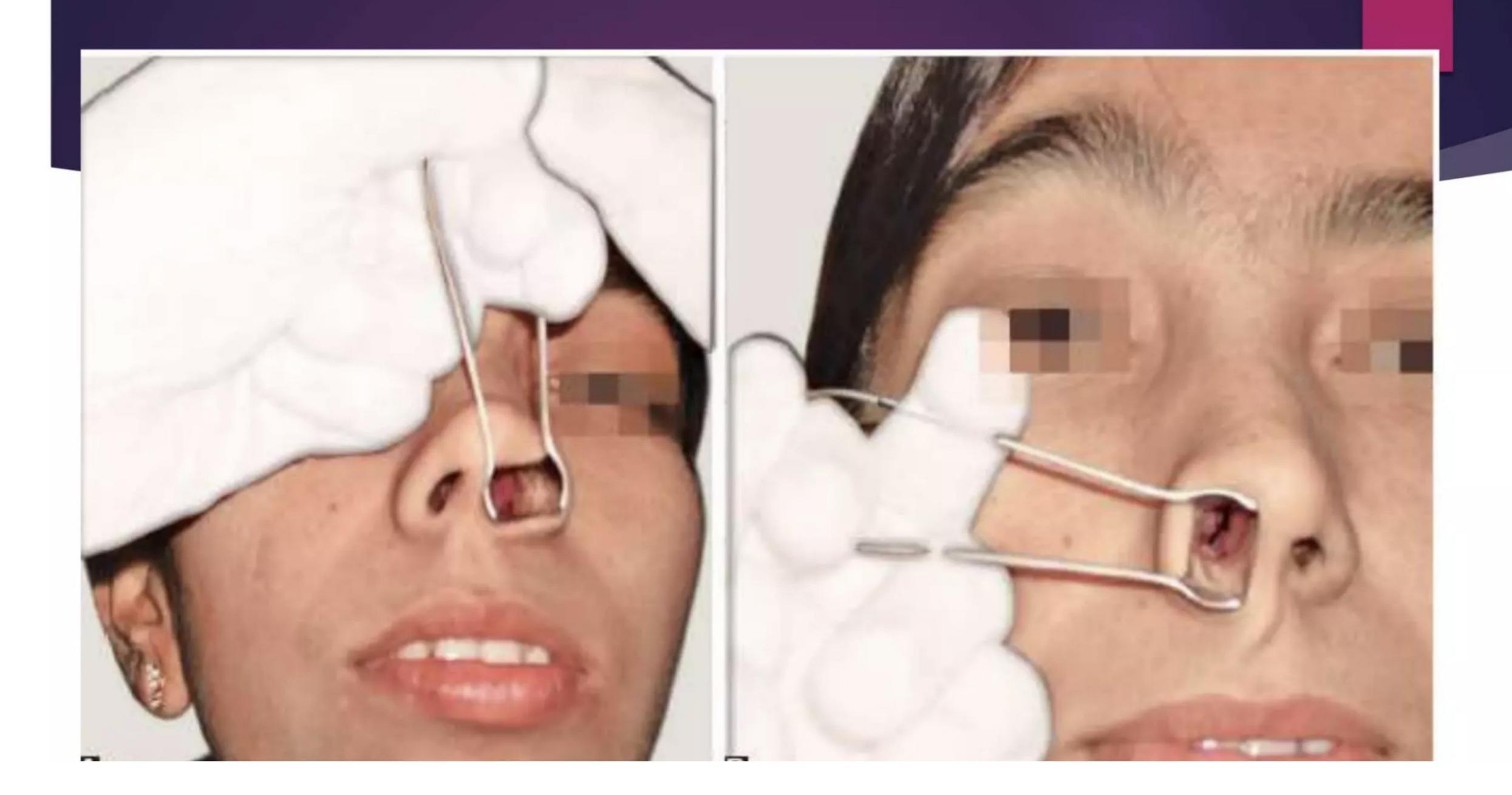
- ► The blades of speculum are inserted into the less sensitive skin line vestibule and should not touch the septal mucosa which is very sensitive and vascular.
- ► The nasal speculum is closed while introducing and opened during examination and remains partially open when removing from the nose (avoid picking vibrissae).
- The size of the nasal speculum should be chosen according to the age of patient and size of the nose.





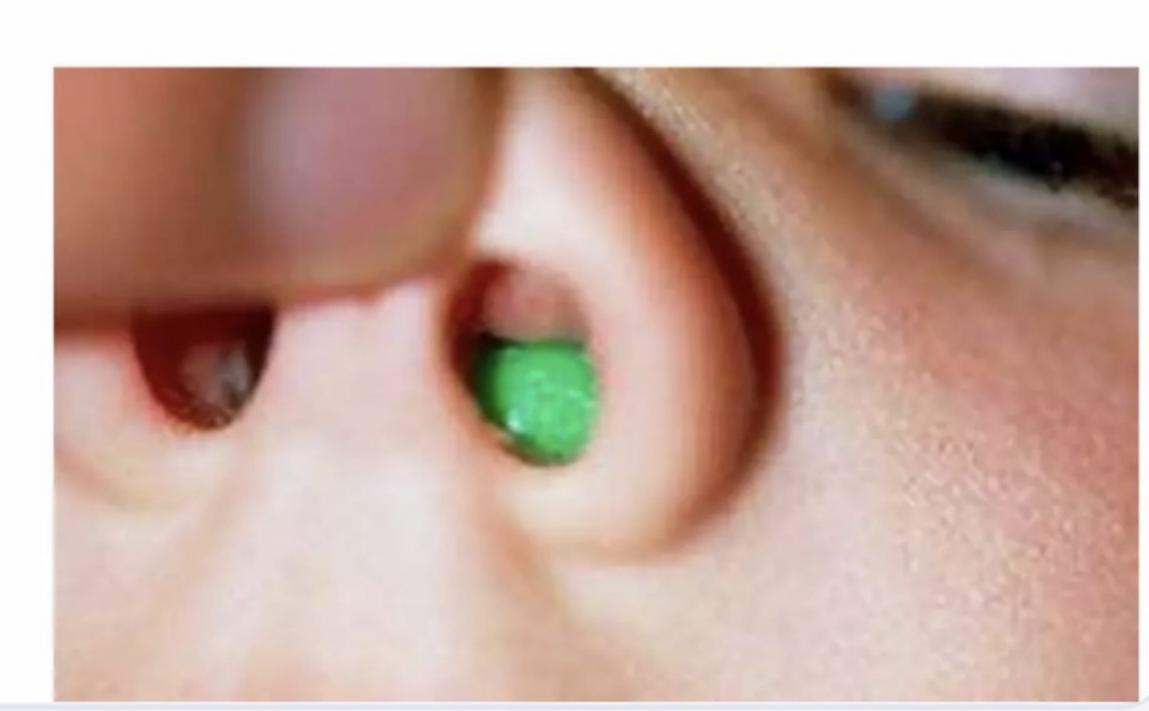
Anterior rhinoscopy





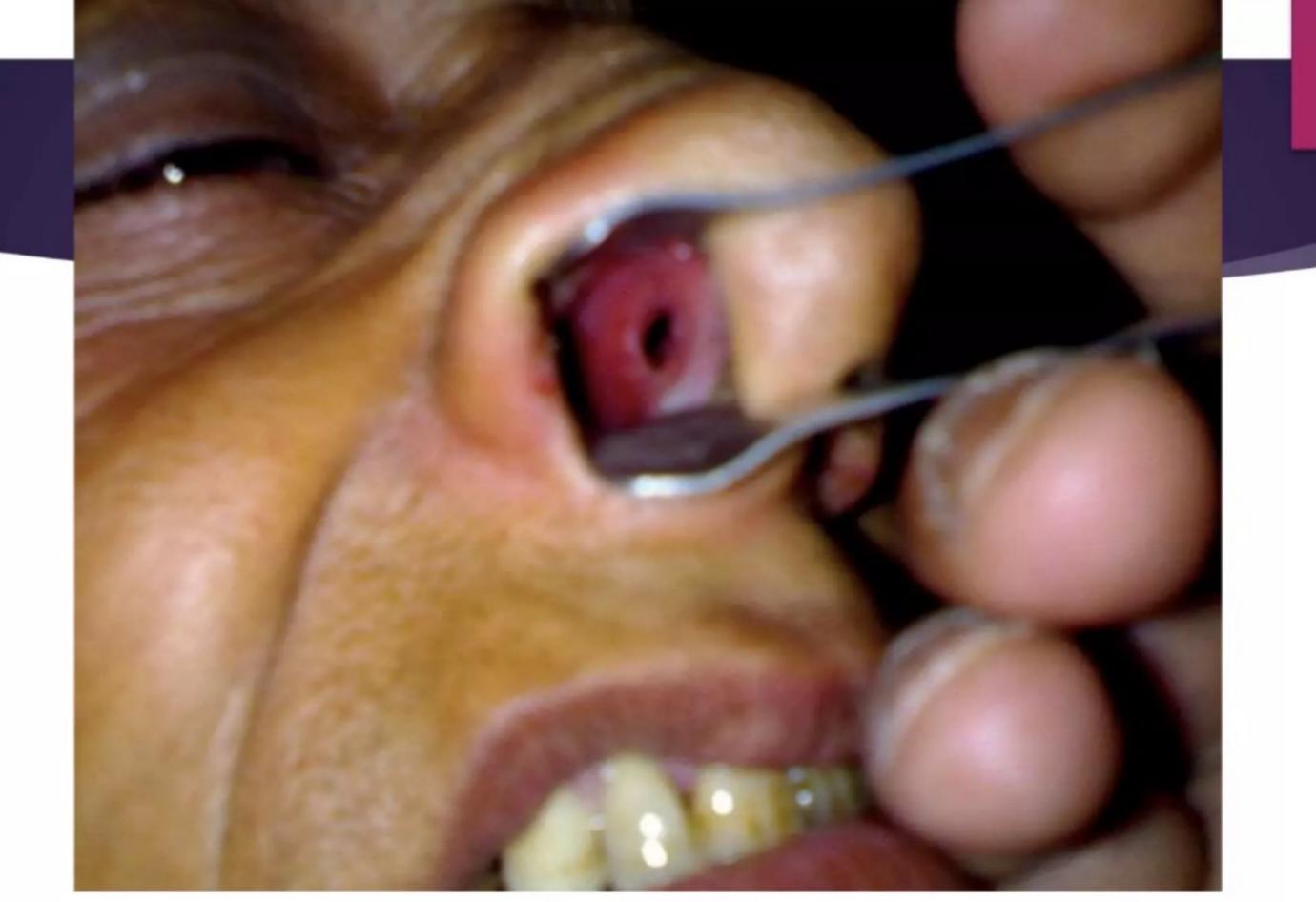
Anterior rhinoscopy

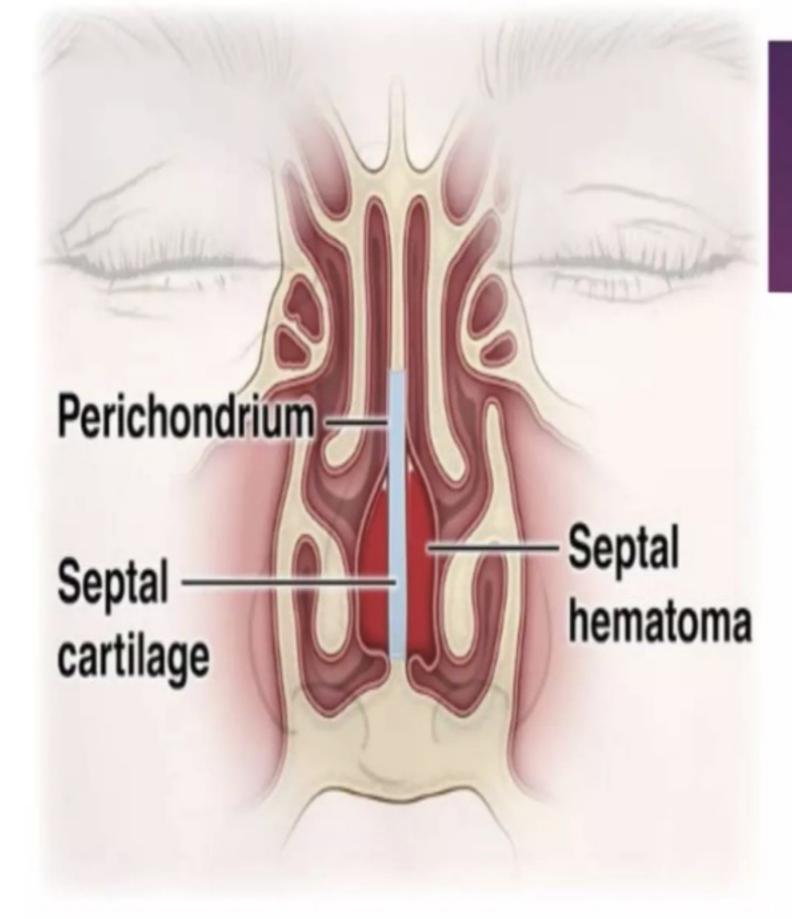
- Nasal cavity:
 - Narrow (septal deviation or hypertrophy turbinates, polyp, growth)
 - wide (atrophic rhinitis)
 - Discharge (mucoid, mucopurulent, purulent, blood)
 - Crusting
 - Foreign body.

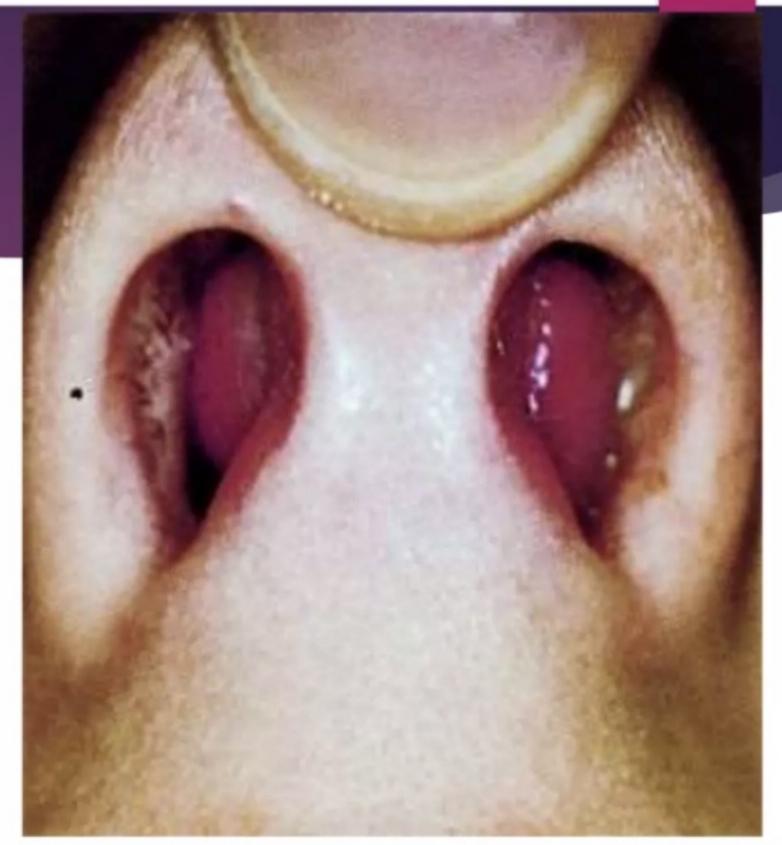


Nasal Septum

- Nasal Septum:
 - Deviation or spur
 - Ulcer
 - Perforation
 - Swelling (hematoma or abscess)
 - Growth (rhinosporidiosis, hemangioma, fibroangioma)
 - Bony destruction (syphilis)
 - Cartilaginous destruction (lupus vulgaris)









Floor of nose:

- Defect (cleft palate or fistula)
- Swelling (dental cyst)
- Neoplasm (hemangioma)
- Granulations (foreign body or osteitis)



Inferior and middle turbinates:

- Compensatory hypertrophy of middle and inferior turbinates is common on the concave side of deviated nasal septum.
- Enlarged, swollen and pale (allergic rhinitis)
- small and atrophic (atrophic rhinitis).

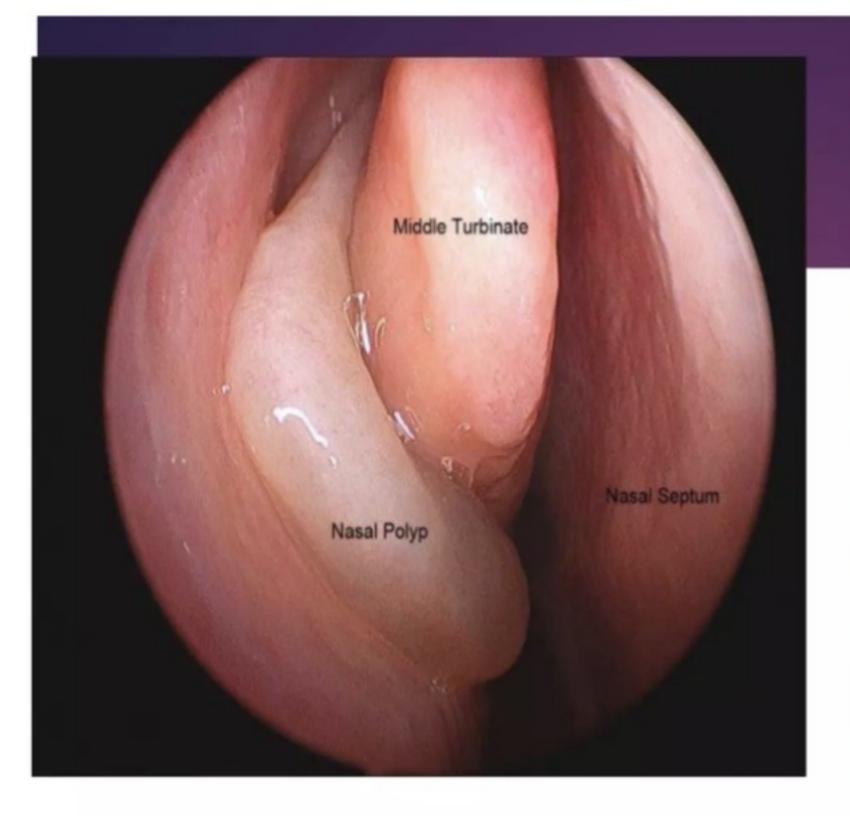
Grade	Definition
Grade I	The turbinate was defined as mild enlargement with no obvious obstruction
Grade II	The turbinate was in between grade I and grade III
Grade III	The turbinate completely occluded the nasal cavity



Inferior and middle meatuses:

- Discharge
- Polyps





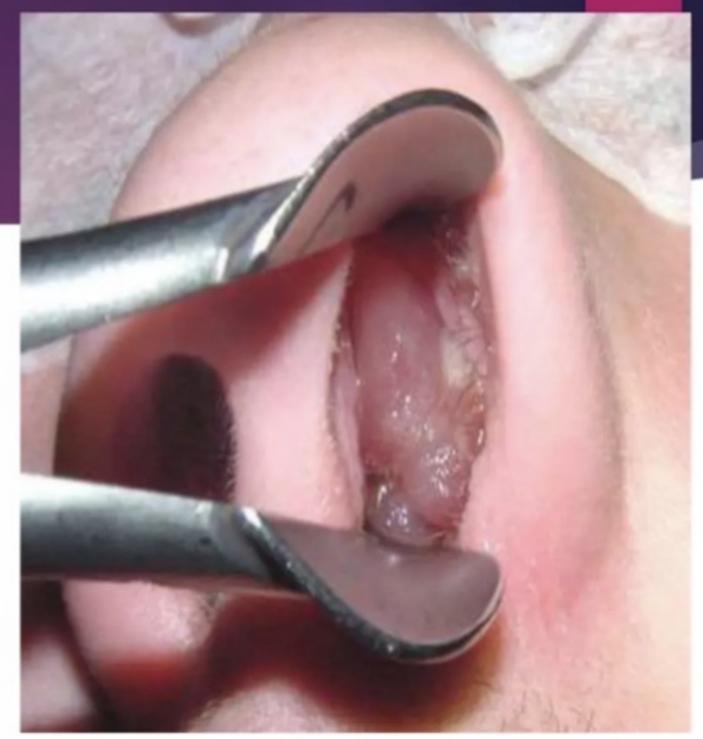
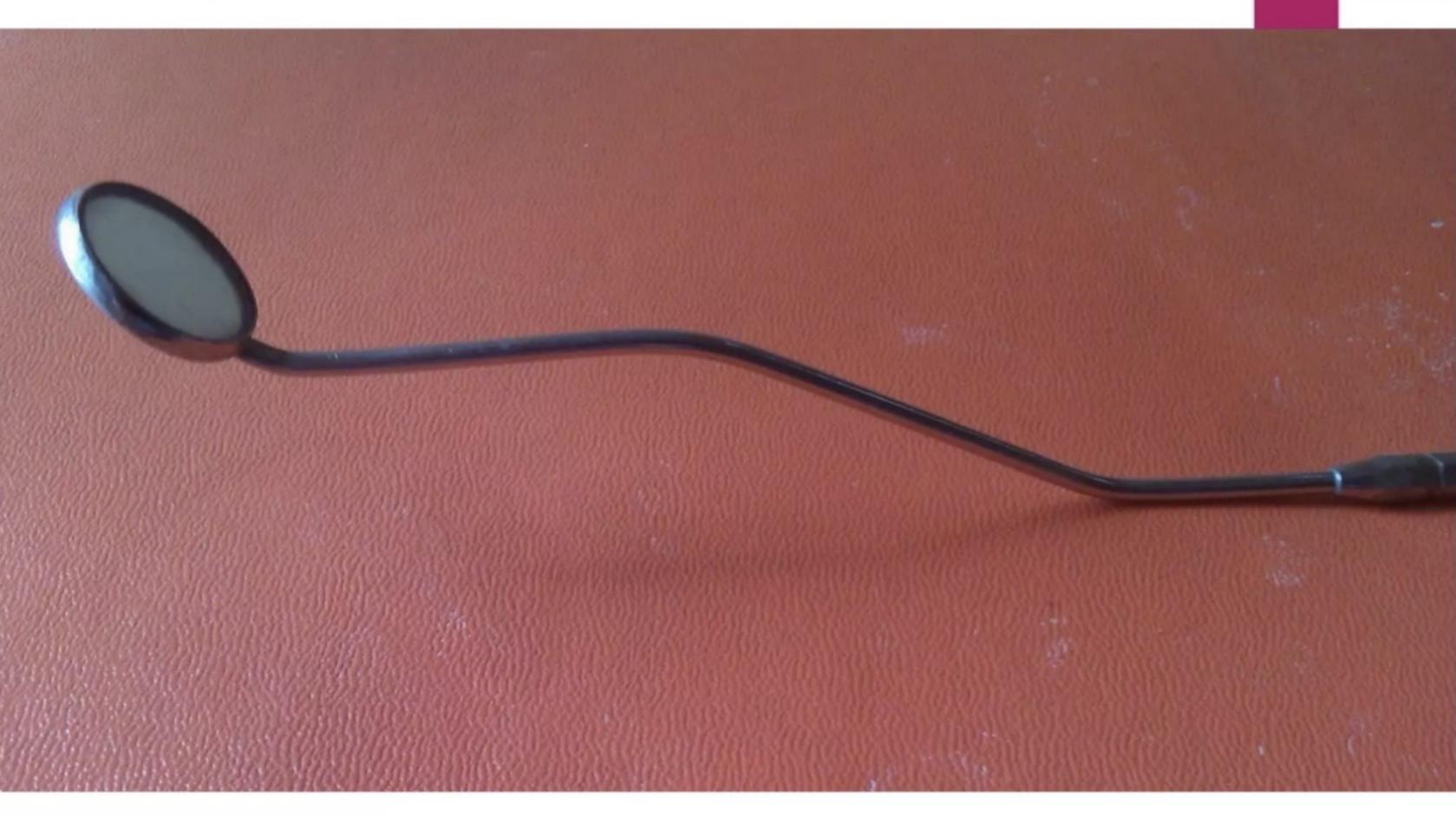


Table 1 Endoscopic nasal polyp score

Polyp score	Polyp size
0	No polyps
1	Small polyps in the middle meatus not reaching below the inferior border of the middle turbinate
2	Polyps reaching below the lower border of the middle turbinate
3	Large polyps reaching the lower border of the inferior turbinate or polyps medial to the middle turbinate
4	Large polyps causing complete obstruction of the inferior nasal cavity

Posterior Rhinoscopy

- It consists of examining the nasopharynx and posterior part of nasal cavity by the postnasal mirror.
- Postnasal mirror is warmed but should not be hot. It is always better to test on the back of hand before introducing.
- depression the patient's tongue with a tongue depressor that is held in left hand and introduces posterior rhinoscopic mirror (postnasal mirror).
- The mirror should be held in right hand like a pen and carried behind the soft palate, along the tongue but without touching the posterior third of tongue (to avoid gag reflex).





Posterior rhinoscopy

- ▶ Posterior choanae: Atresia, polyp
- Posterior ends of inferior turbinates: Hypertrophy
- Posterior margin of bony nasal septum
- Roof of nasopharynx
- Adenoids

