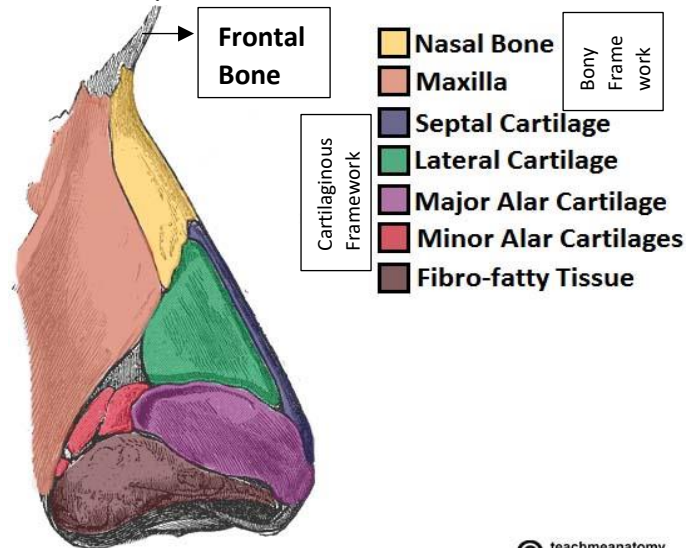
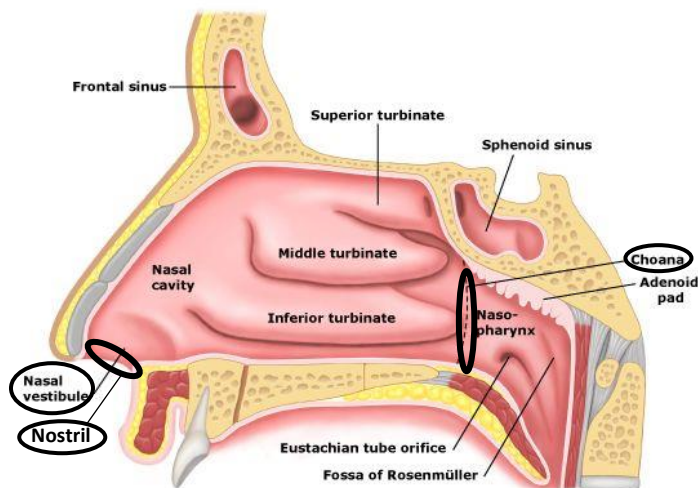


❖ Anatomy of the External Nose:

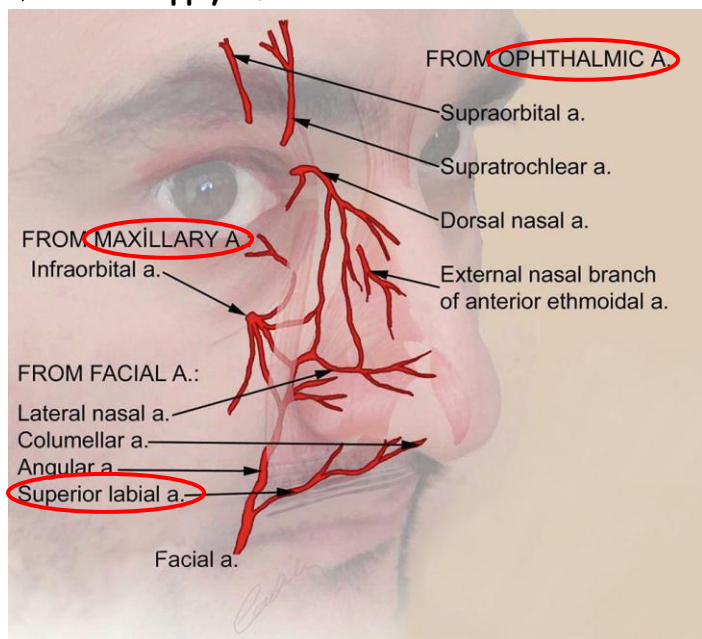


teachmeanatomy
The #1 Applied Human Anatomy Site on the Web.

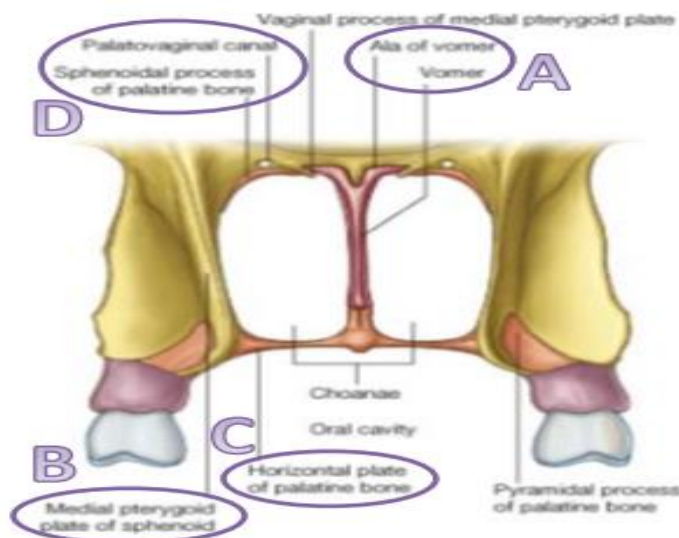
❖ Openings of the Internal Nose (Nasal Cavity):



↪ Blood Supply of the External Nose:

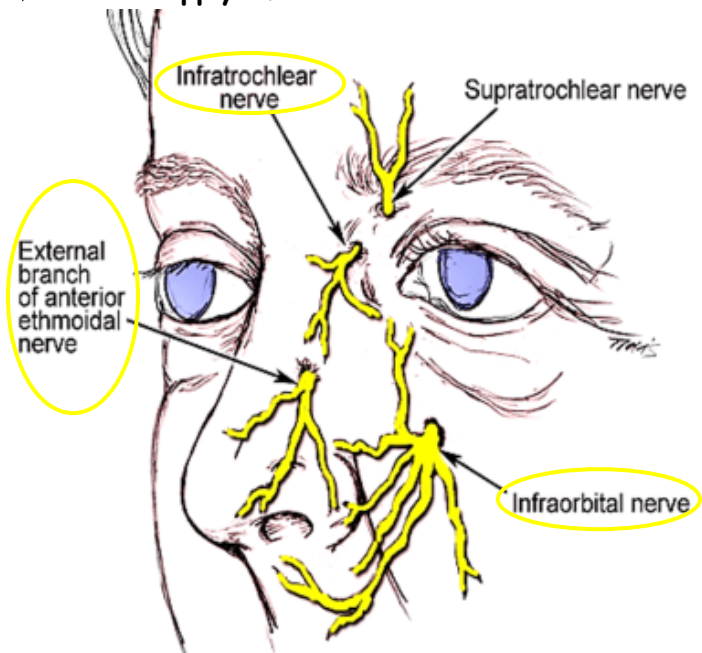


➡ Boundaries of Choana [Posterior View]:

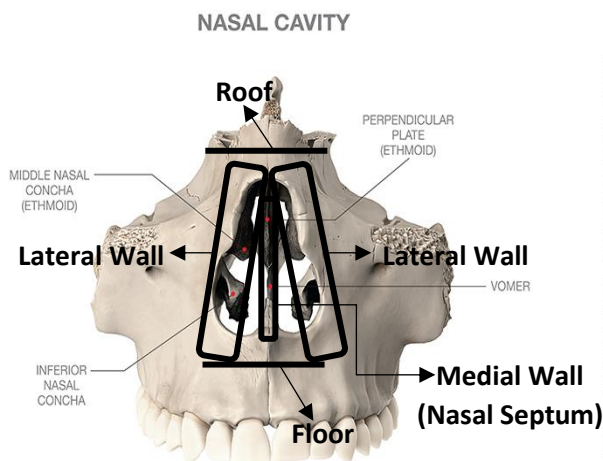


A=Medial, B=Lateral, C= Inferior [positioned anteriorly], D= Superior (roof)

↪ Nerve Supply of the External Nose:

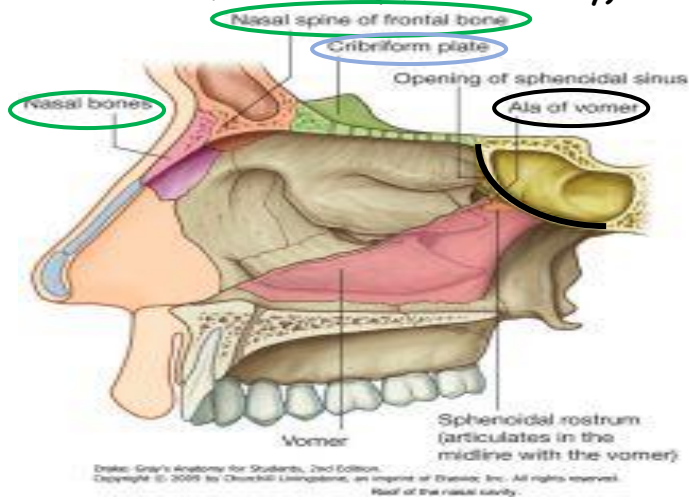


❖ Boundaries of the Internal Nose (Nasal Cavity):



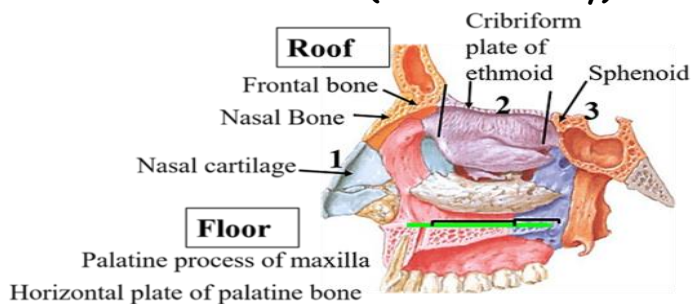
Anatomy.app

⇒ Contents of the Roof (of Nasal Cavity):

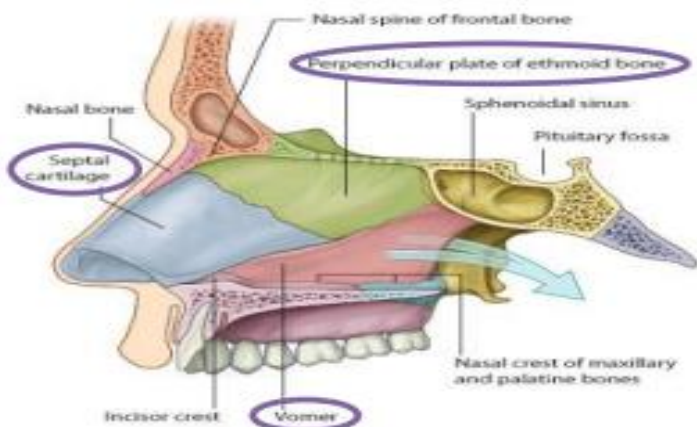


Green=Anterior, Blue=Middle, Black=Posterior
 (Anterior surface of the sphenoid bone (body) and sphenoidal sinus + Ala of the vomer + Vaginal process of the **palatine** bone)

⇒ Contents of the Floor (of Nasal Cavity):



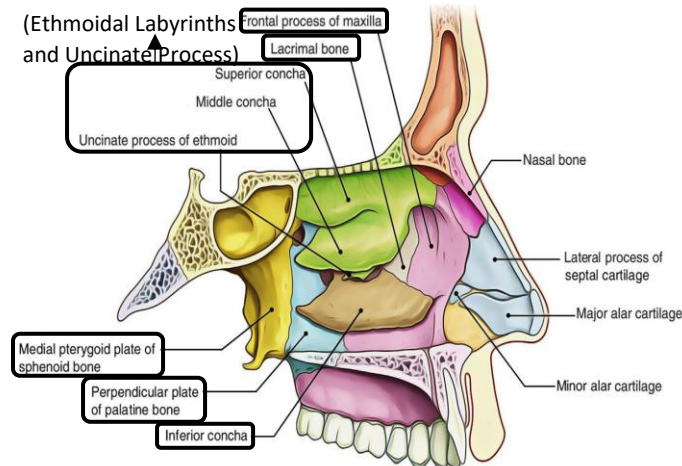
⇒ Contents of the Medial Wall "Nasal Septum":



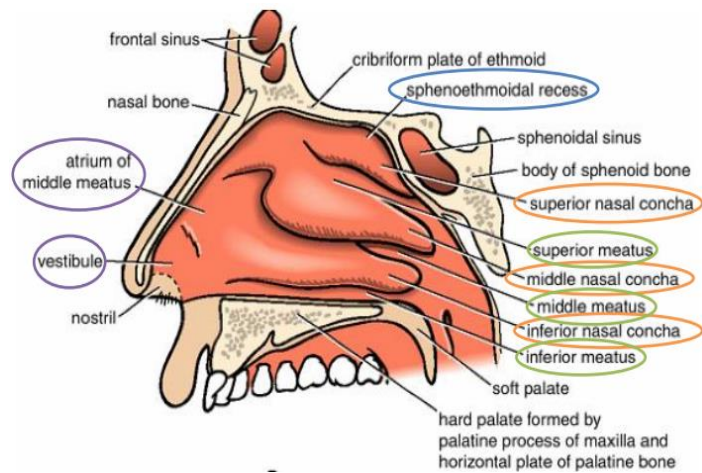
⇒ Bony Support of each Lateral Wall:

From Ethmoid Bone

(Ethmoidal Labyrinths and Uncinate Process)



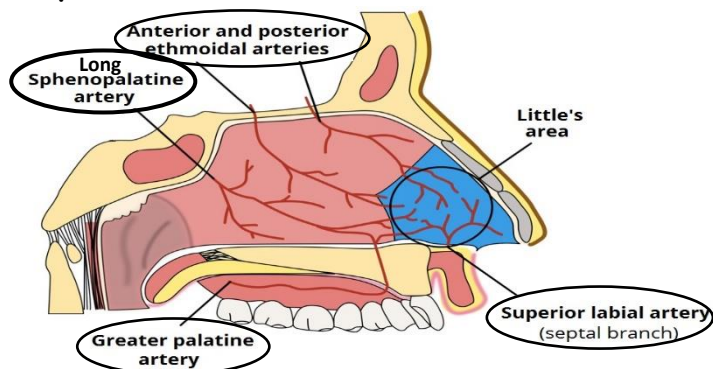
⇒ Contents of each Lateral Wall:



⇒ Contents of each Lateral Wall [Cut]:



⇒ Blood Supply of the Medial Wall "Nasal Septum":

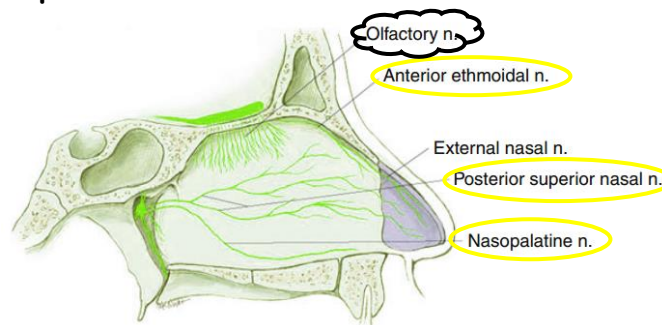


Long sphenopalatine + Greater palatine from **maxillary**

Anterior and posterior ethmoidal from **ophthalmic**

Superior labial from **facial**

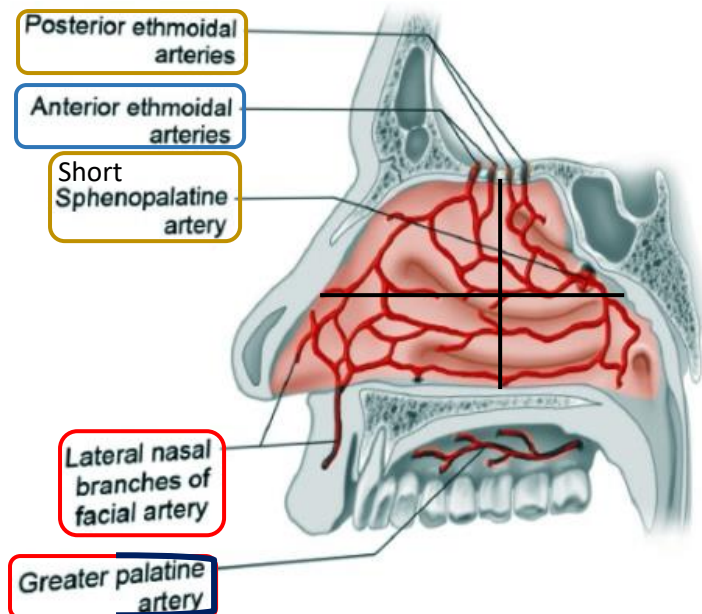
⇒ Nerve Supply of the Medial Wall "Nasal Septum":



Posterior superior medial nasal + Nasopalatine from **maxillary**

Anterior ethmoidal from **ophthalmic**

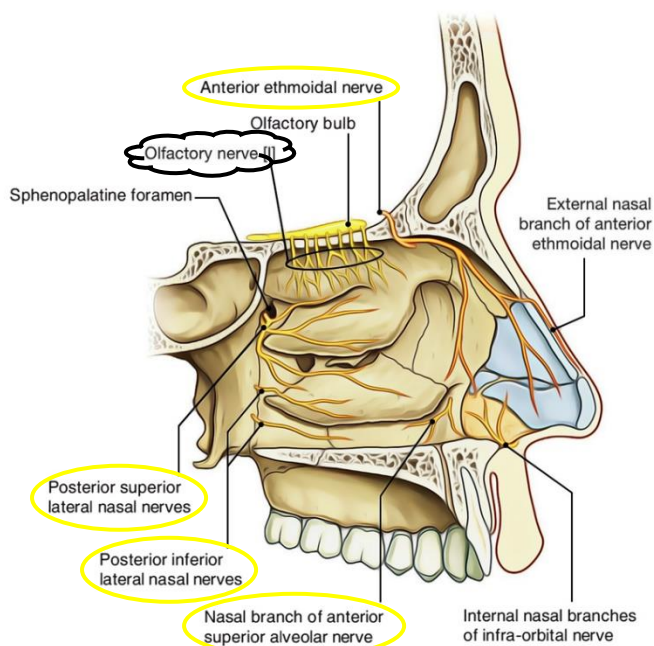
↳ Blood Supply of the Lateral Wall:



Gold=Posterior Superior Quadrant,
 Blue=Anterior Superior Quadrant,
 Dark Blue=Posterior Inferior Quadrant,
 Red=Anterior Inferior Quadrant (Greater palatine
 + Lateral nasal + Superior labial)
 + Superior alveolar artery contributes to the
 blood supply of the lateral wall

Short sphenopalatine + Greater palatine +
 Superior alveolar from **maxillary**
 Anterior and posterior ethmoidal from **ophthalmic**
 Lateral nasal + Superior labial from **facial**

↳ Nerve Supply of the Lateral Wall:

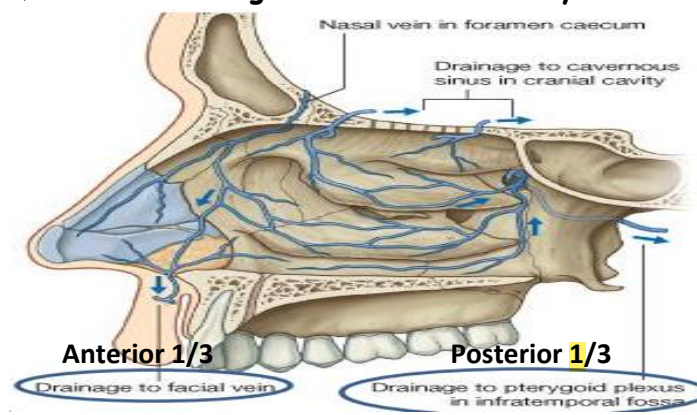


Posterior superior lateral nasal + Posterior inferior
 lateral nasal + Anterior superior alveolar from
maxillary
 Anterior ethmoidal from **ophthalmic**

↳ NOTES:

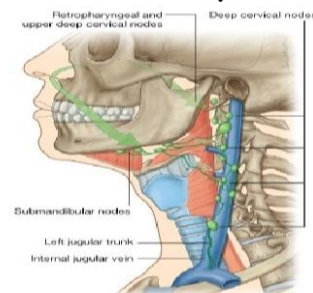
- **Olfactory nerve (CN I)** is for special sensation (smelling), other nerves are for non-specific sensations (touch, temperature, pressure, ...)
- **Facial nerve** gives the secretomotor "parasympathetic" innervation for the mucous glands of the nose
- **Posterior ethmoidal artery** contributes to the blood supply of the nasal cavity, rather, **posterior ethmoidal nerve** doesn't contribute to the innervation of the nasal cavity (it innervates the mucosa of the ethmoidal and sphenoid air sinuses)

↳ Venous Drainage of the Nasal Cavity:



↳ Lymphatic Drainage of the Nasal Cavity:

Lymph vessels draining the vestibule, end in submandibular nodes. The rest of nasal cavity is drained to upper deep cervical nodes.



↳ Functions of:

▪ the Respiratory System:

- ✓ Gas exchange
- ✓ Regulation of blood pH
- ✓ Filters the inspired air
- ✓ Contains receptors for smell
- ✓ Produces vocal sounds (phonation) (via vocal cords)
- ✓ Excretes small amounts of water and heat

▪ Nasal Cavity:

- ✓ Respiratory
- ✓ Olfactory
- ✓ Resonance of the voice (via nasal sinuses)
- ✓ Drains lacrimal fluid
- ✓ Protective functions: Sneezing, Filtration, Proteolytic enzymes, Warming and moistening the air

▪ **Conchae:**

✓ Increase the surface area of the nasal cavity

▪ **the Mucous Membrane:**

✓ Heating and moisturizing of air (via vein plexuses in the submucosa)

✓ Trapping foreign particles

▪ **the Paranasal Sinuses:**

✓ Resonance of the voice

✓ Decrease the weight of the skull

✓ Protection (by moisturizing and modifying of the temperature and reduction of intracranial pressure)

Done by: Abdullah Al-Jaouni

والله شكلك لسا ما دعيتي .. ادعيلي