

Anatomic Relations

Done by: Shahed Atiyat

The vomer (nasal septum) and it has a superior process called ala of vomer

Medial

Anterior & inferior

Horizontal plate of palatine bone

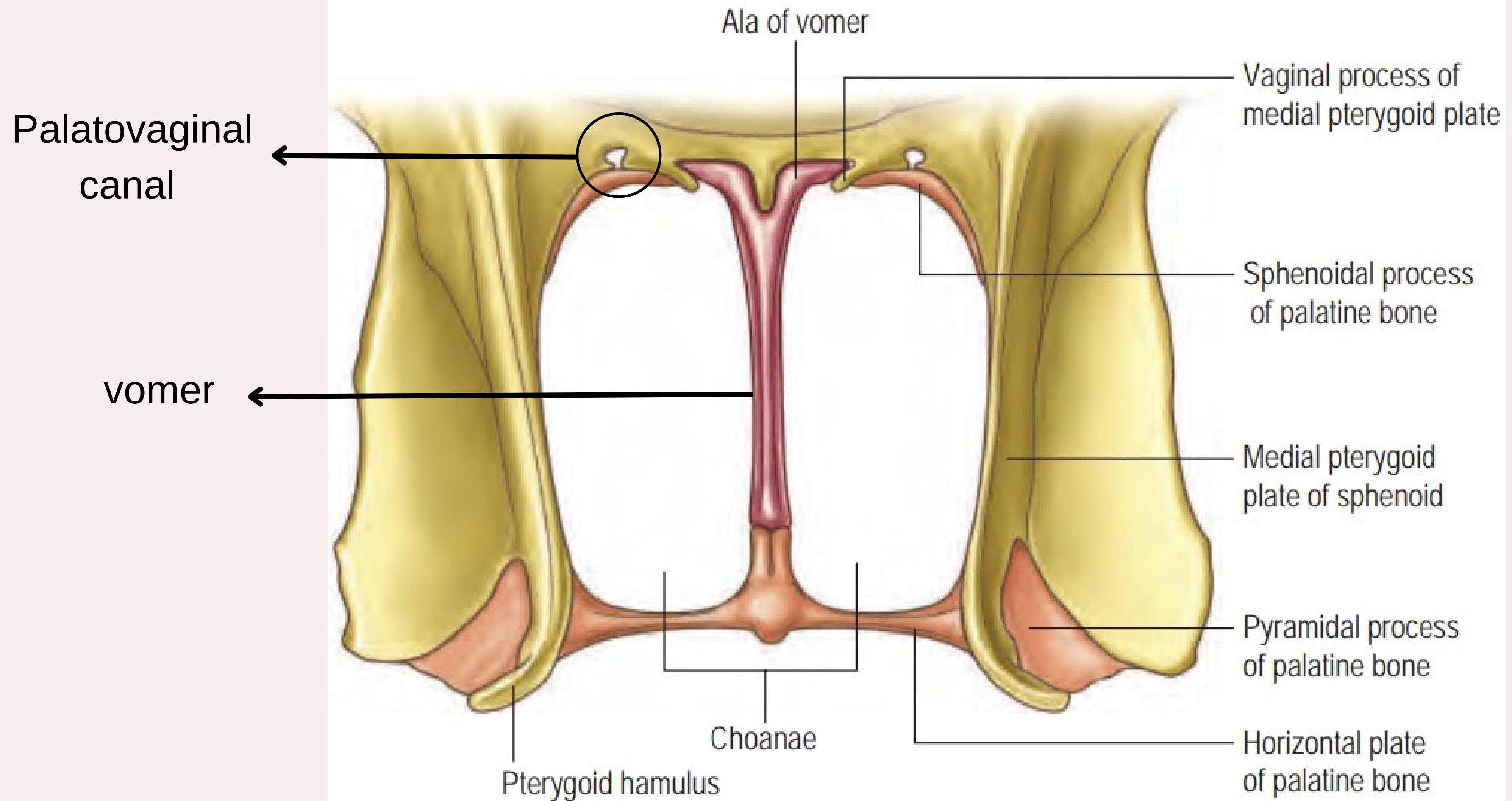
Choanae

Medial pterygoid plate

Lateral

Roof

Palatovaginal canal & Sphenoidal process of palatine bone



Sloping Anterior

part: Nasal spine of the frontal bone and the nasal bones

Middle part: horizontal cribriform plate of ethmoid

Sloping Posterior part:

1. body of sphenoid & sphenoidal sinus
2. Ala of the vomer
3. Vaginal process of the palatine bone

nasal septum

Lateral

Roof

Floor

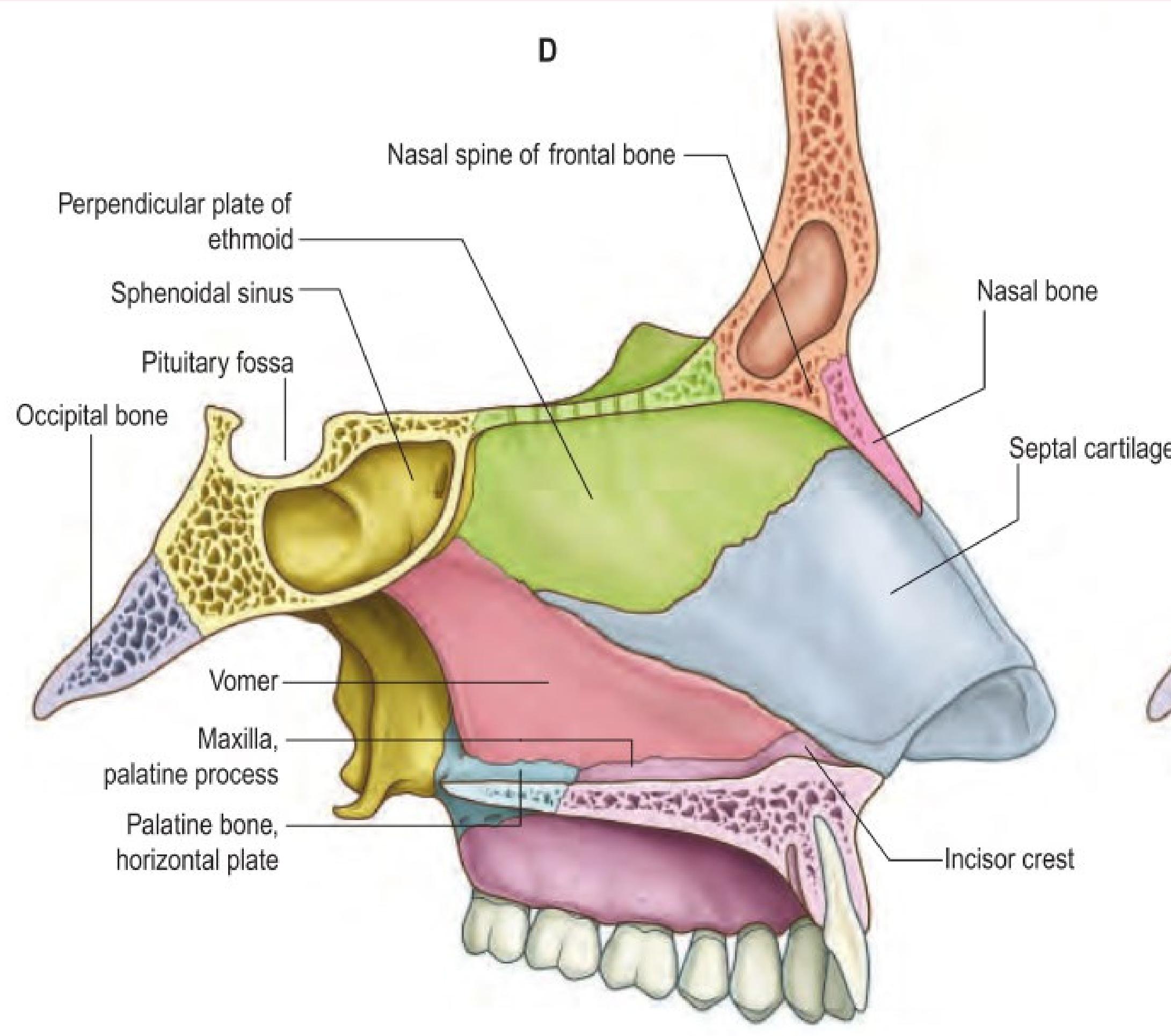
Nasal cavity

Hard palate
(Palatine process of maxilla & Horizontal plate of palatine bone)

Formed by bone, cartilage, and soft tissues

Lateral wall

D

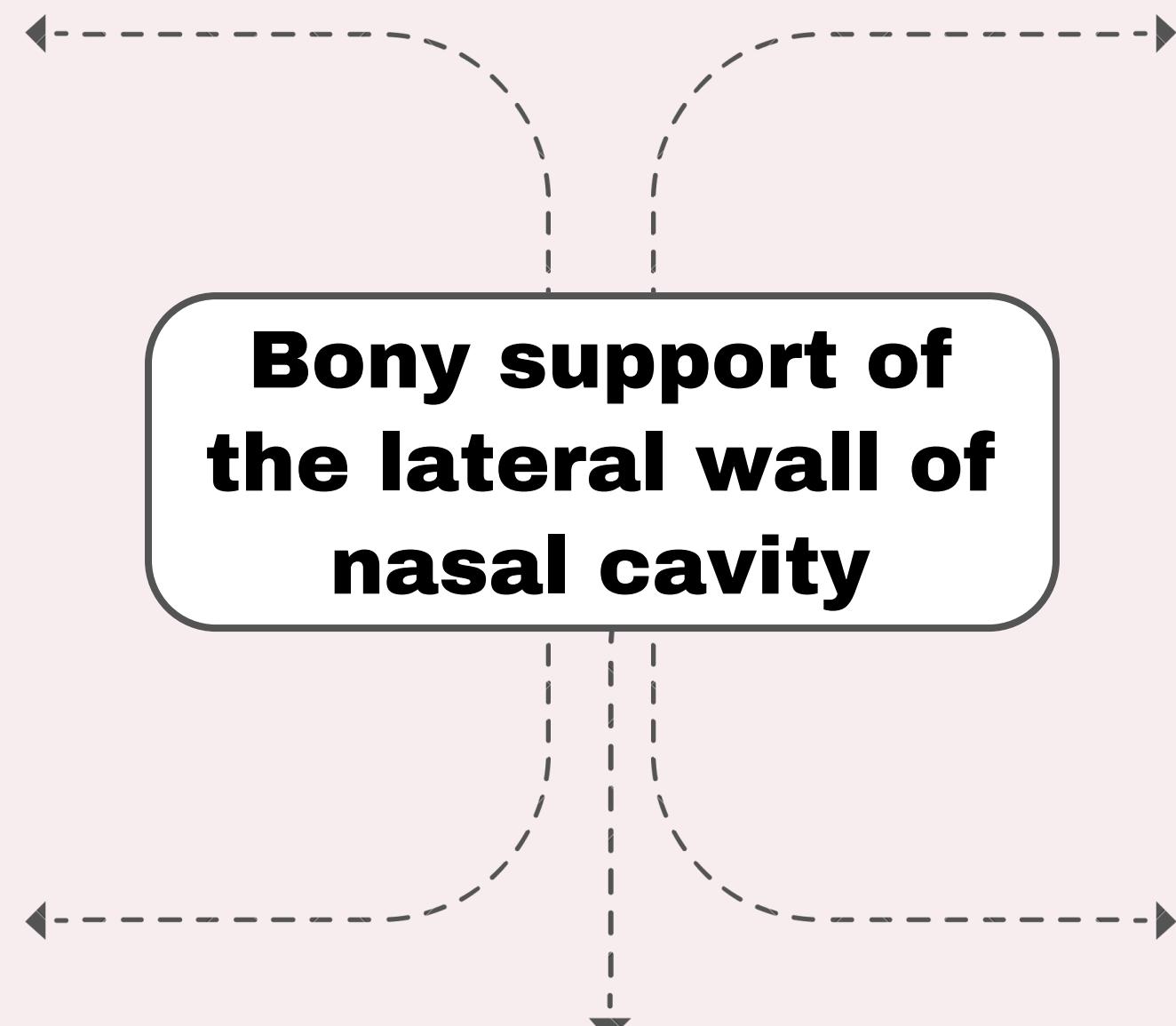


Ethmoidal
labyrinth and its
uncinate process

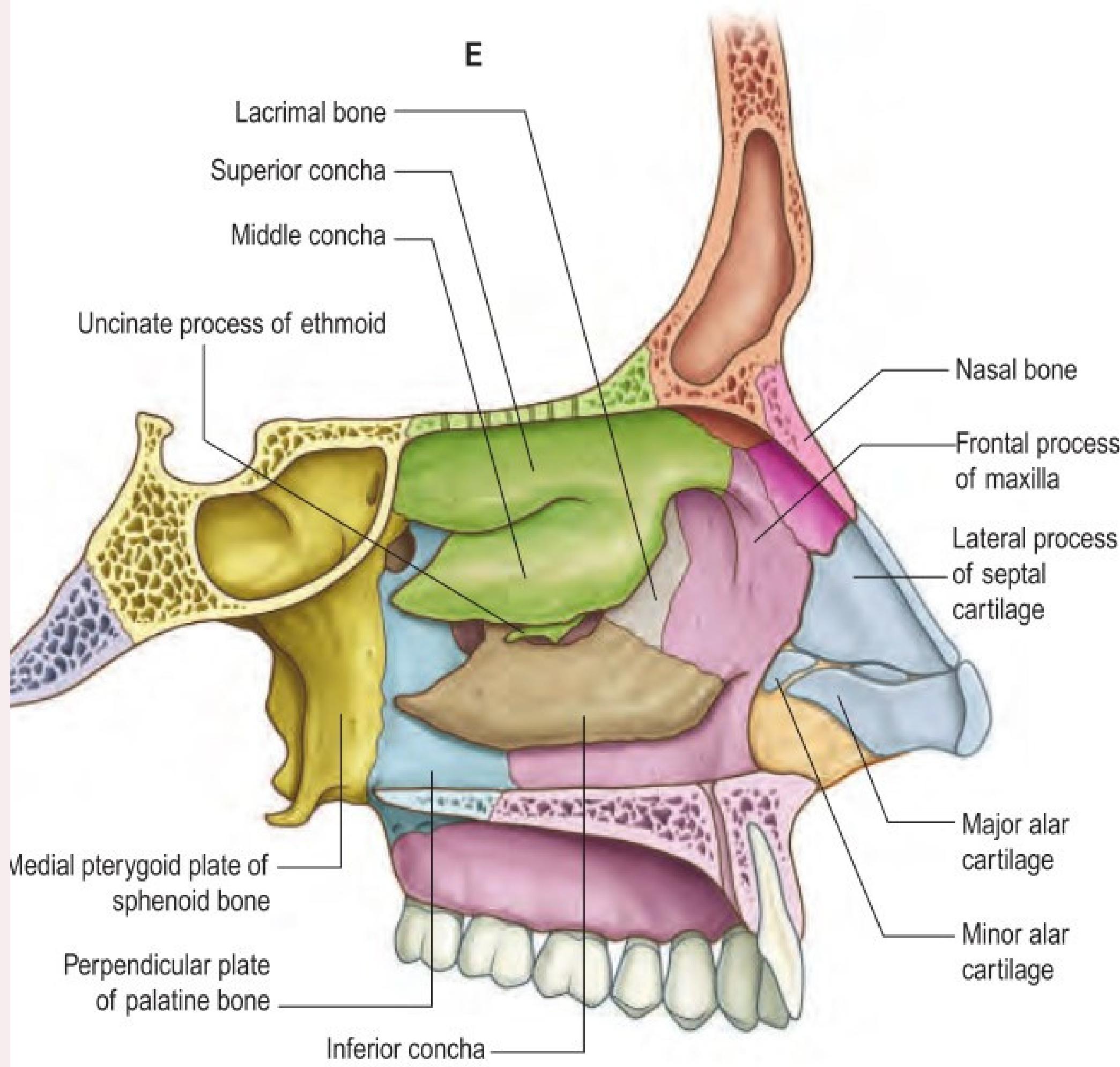
Perpendicular
plate of the
palatine bone

Medial plate of the
pterygoid process

Medial surfaces of
the lacrimal bones
and maxillae



Inferior concha of maxilla



Lower part of
nasal cavity

Medial

Above

Orbit

Maxillary sinus

Infratemporal
fossa

Lateral

Below

Upper molars and
premolars

nasal cavity

Roof

**Anterior
wall**

posterior surface
of the maxilla

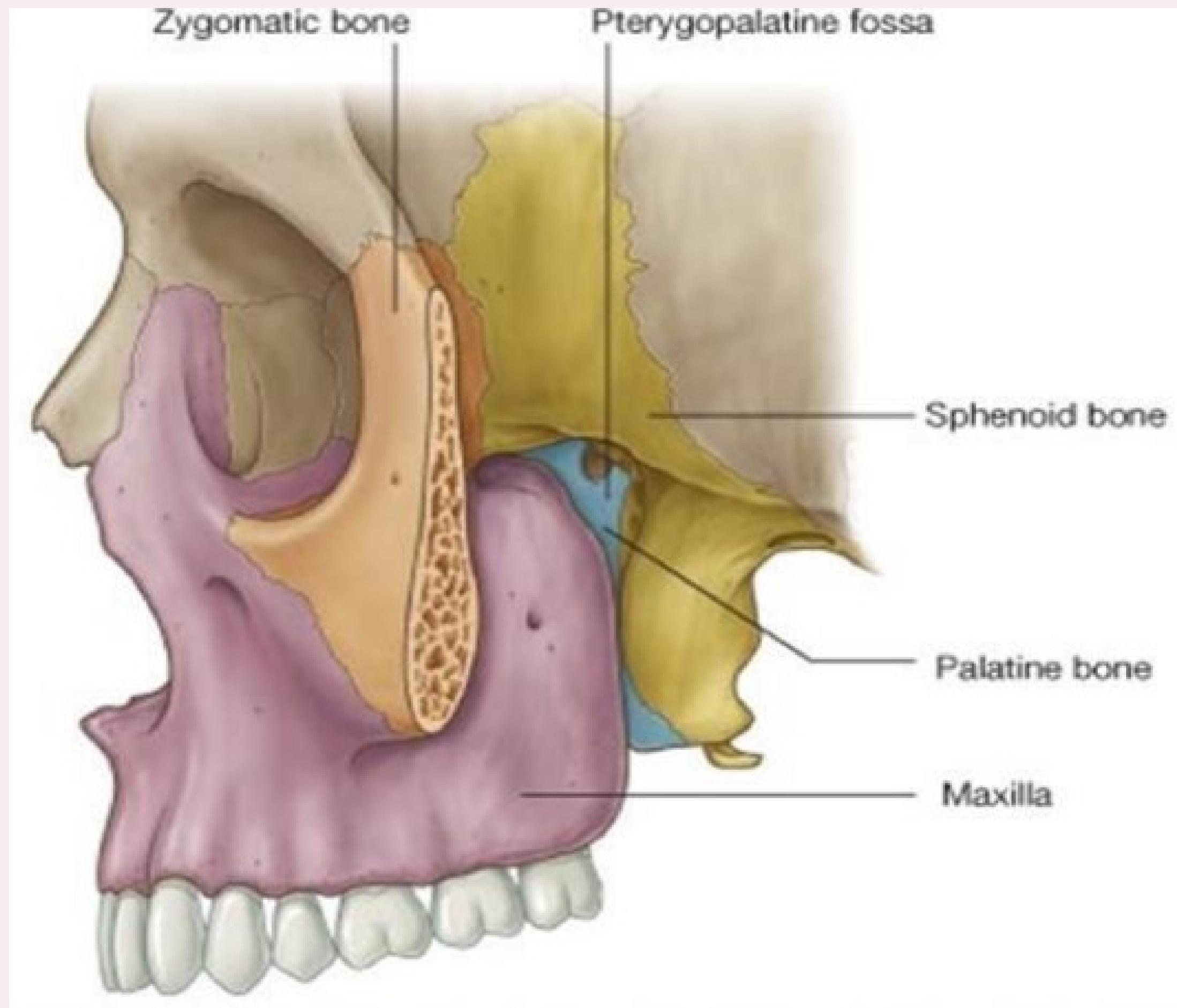
Pterygopalatine fossa

pterygoid plate
(part of sphenoid
bone)

**Posterior
wall**

**Medial &
lateral wall**

Medial wall: lateral
surface of the
palatine bone.
Lateral wall:
infratemporal fossa



In the midline formed by a mucosal fold that forms depression (inter-arytenoid notch) between the two corniculate tubercles

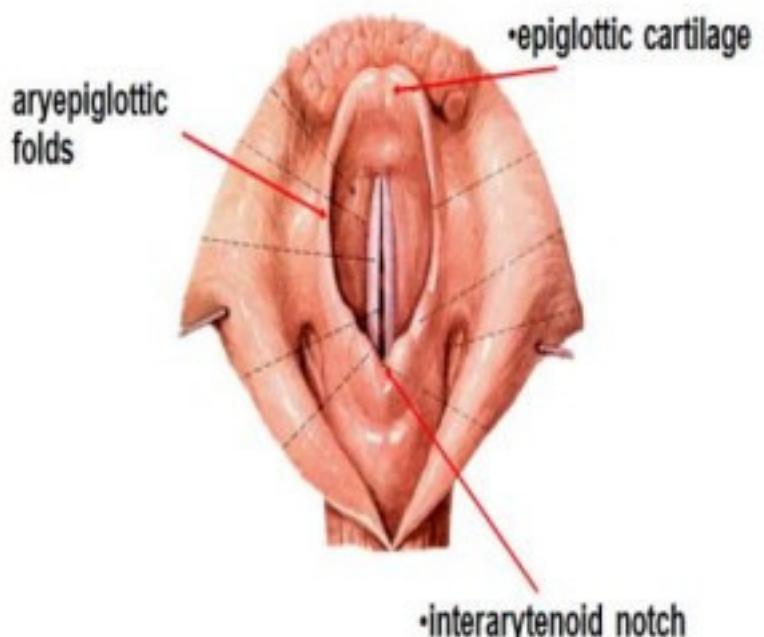
Posterior border

Anterior border

Borders of the laryngeal inlet

Laryngeal cavity

inlet of larynx – bounded by upper border epiglottic cartilage, aryepiglottic folds and interarytenoid notch



Lateral borders

Formed by mucosa covering the superior margin of the epiglottis

Formed by mucosal folds (aryepiglottic folds)

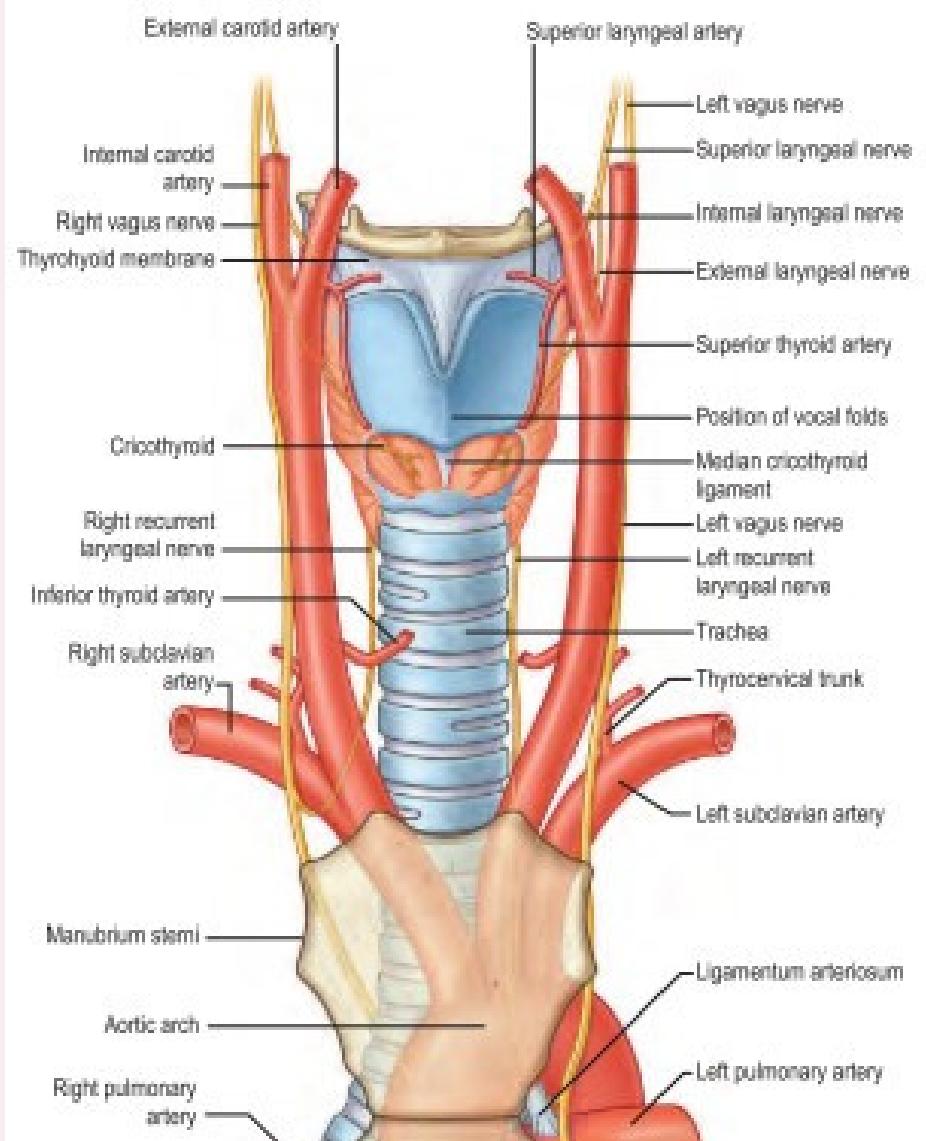
Skin, fascia and 4 infrahyoid muscles

Anteriorly

Laterally

The carotid sheath and its contents & In addition to the lateral lobes of thyroid

larynx



Posterior

Pharynx and right recurrent laryngeal nerve

- 1. Esophagus
- 2. left recurrent laryngeal nerve
- 3. Thoracic duct

Posterior

Anterior

Trachea

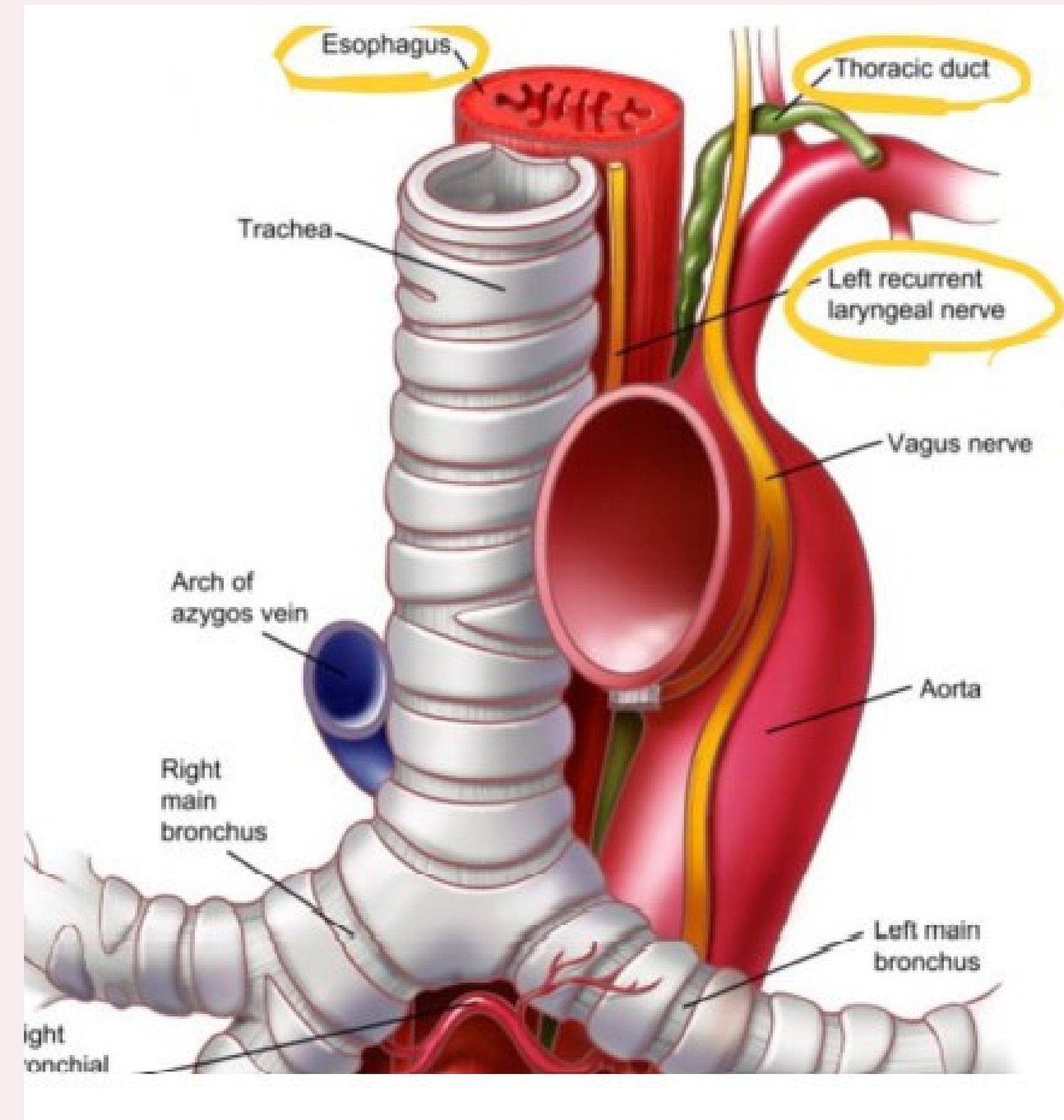
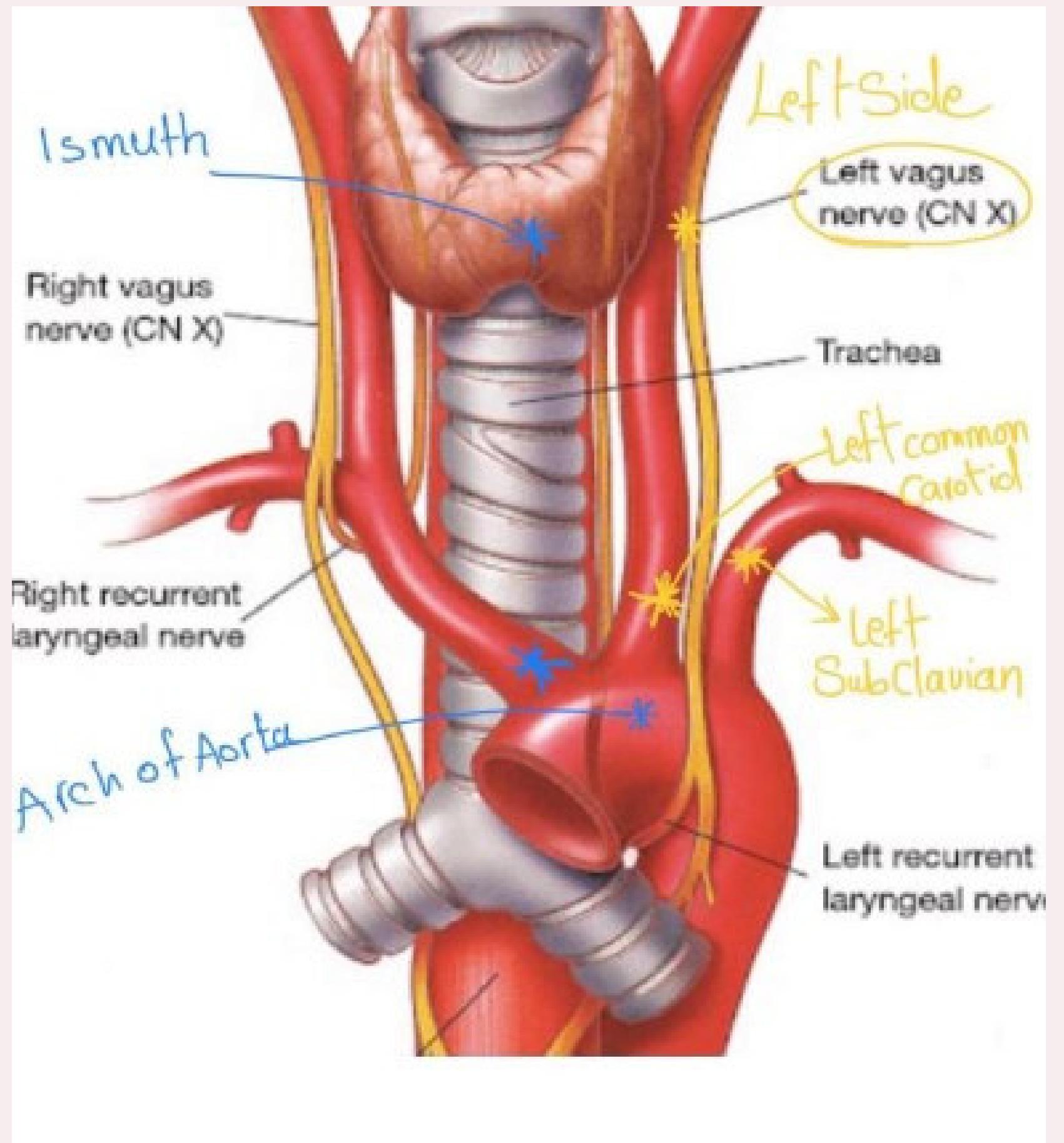
- 1. Azygous arch
- 2. Brachiocephalic artery
- 3. Right vagus nerve
- 4. Right phrenic nerve
- 5. Right phrenic nerve
- 6. Right main bronchus

Right

Left

- 1. Aortic arch
- 2. Thymus gland
- 3. Thyroid gland
- 4. The origin of brachiocephalic artery
- 5. Manubrium sterni

- 1. Aortic arch
- 2. Left subclavian artery.
- 3. Left common carotid artery
- 4. Left vagus nerve
- 5. Left phrenic nerve
- 6. Left main bronchus



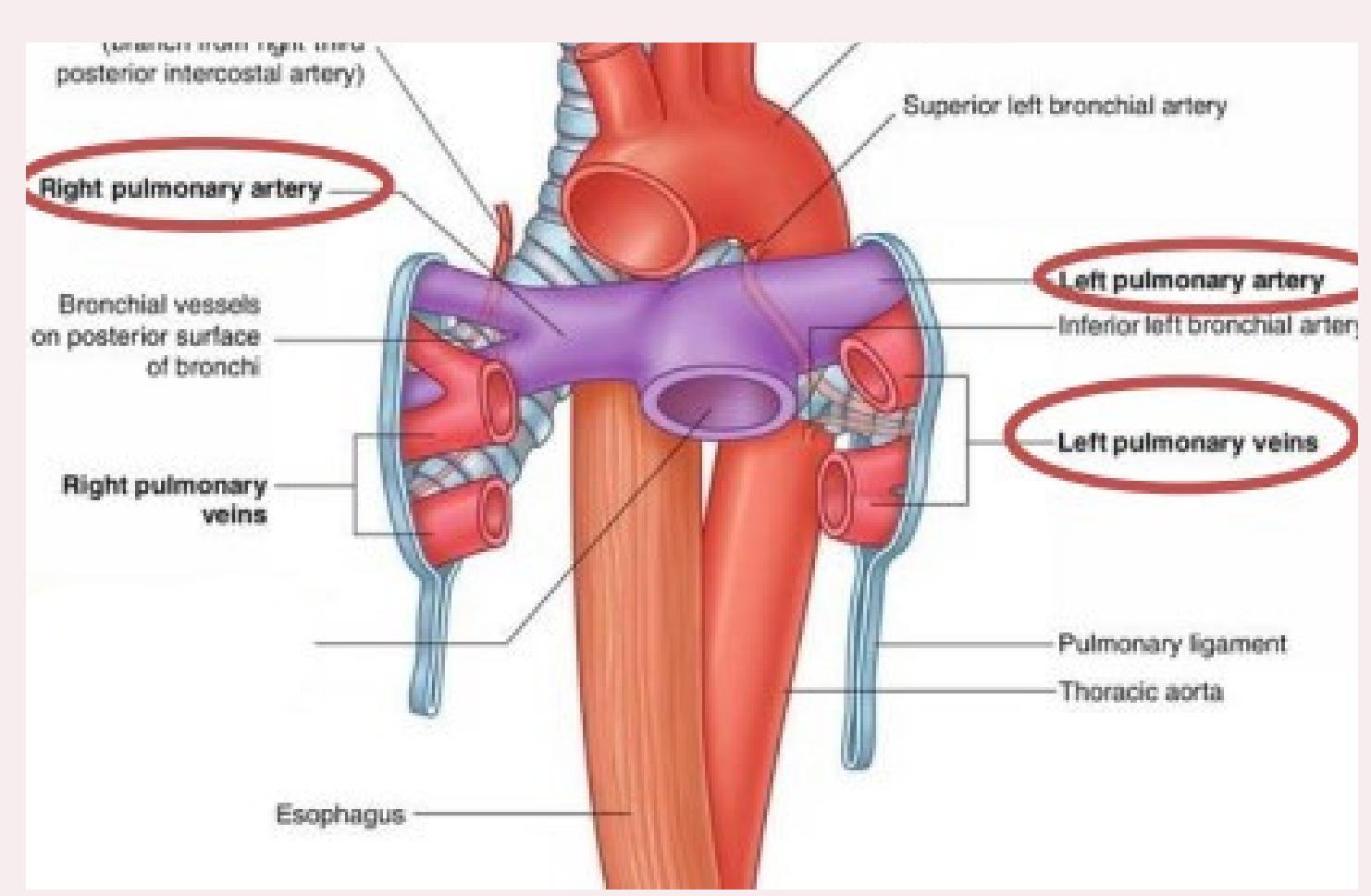
Right pulmonary artery

Posteriorly

right main
bronchus going to
hilum

Anteriorly

SVC, ascending
aorta, superior
(upper) right
pulmonary vein



left pulmonary artery

Left main
bronchus

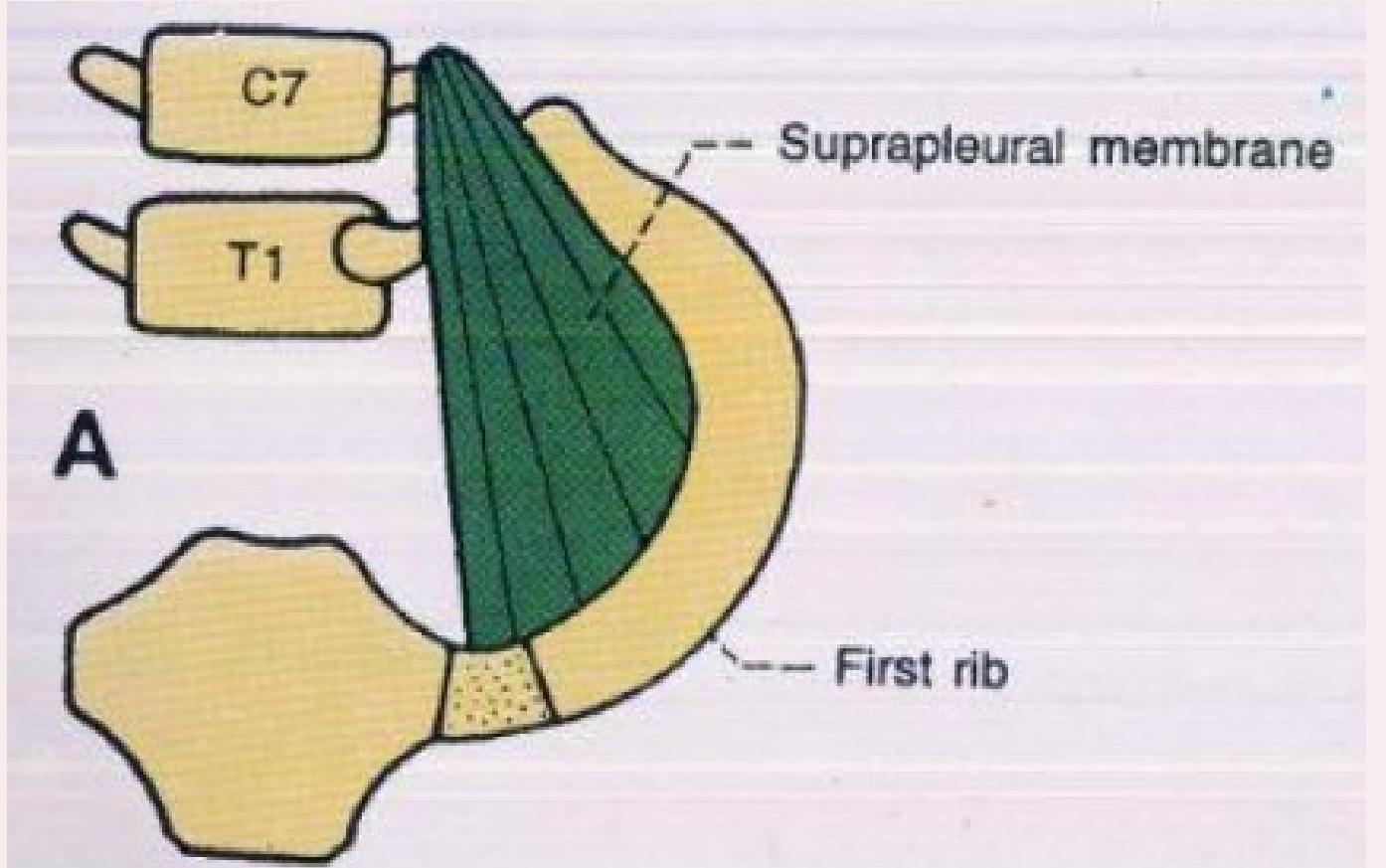
Inferiorly

Anteriorly

Posteriorly

descending
aorta

superior
pulmonary vein



attached to the transverse process of C7

Suprapleural membrane

Superiorly

Lateral

the medial (inner) border of first rib and costal cartilage

Medial

blends with the deep or the investing fascia or Sibson's fascia of the neck