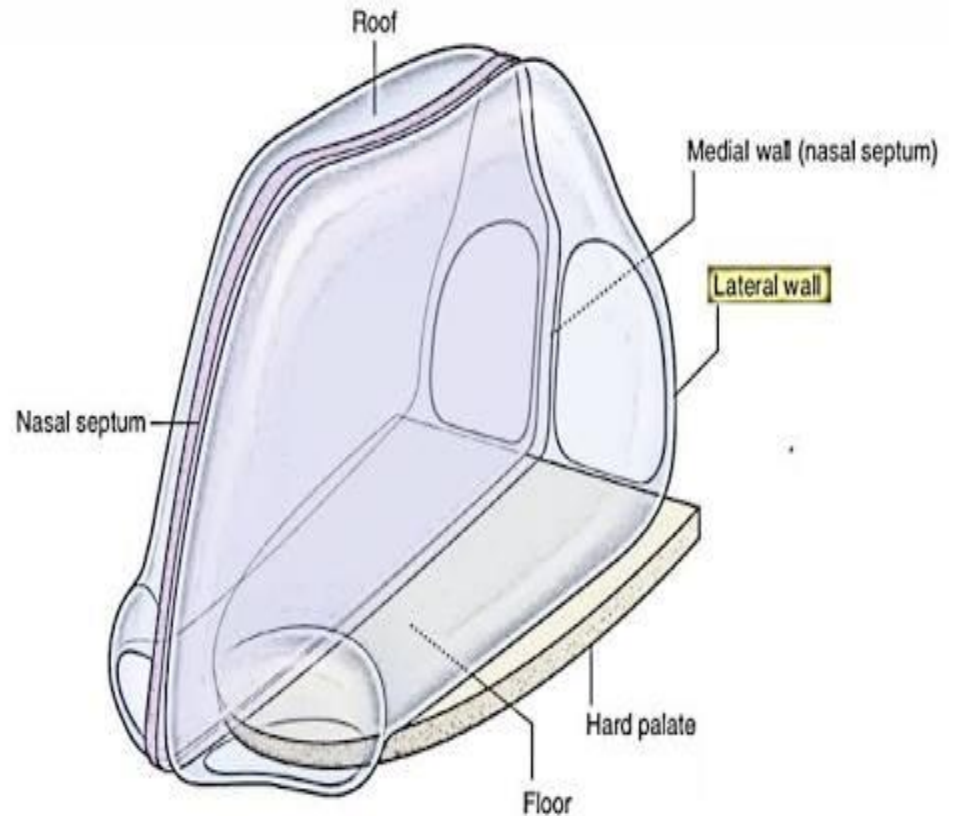


# **NASAL CAVITY & TRACHEA**

# Nasal cavity

- Roof
- Floor
- Medial wall
- Lateral wall

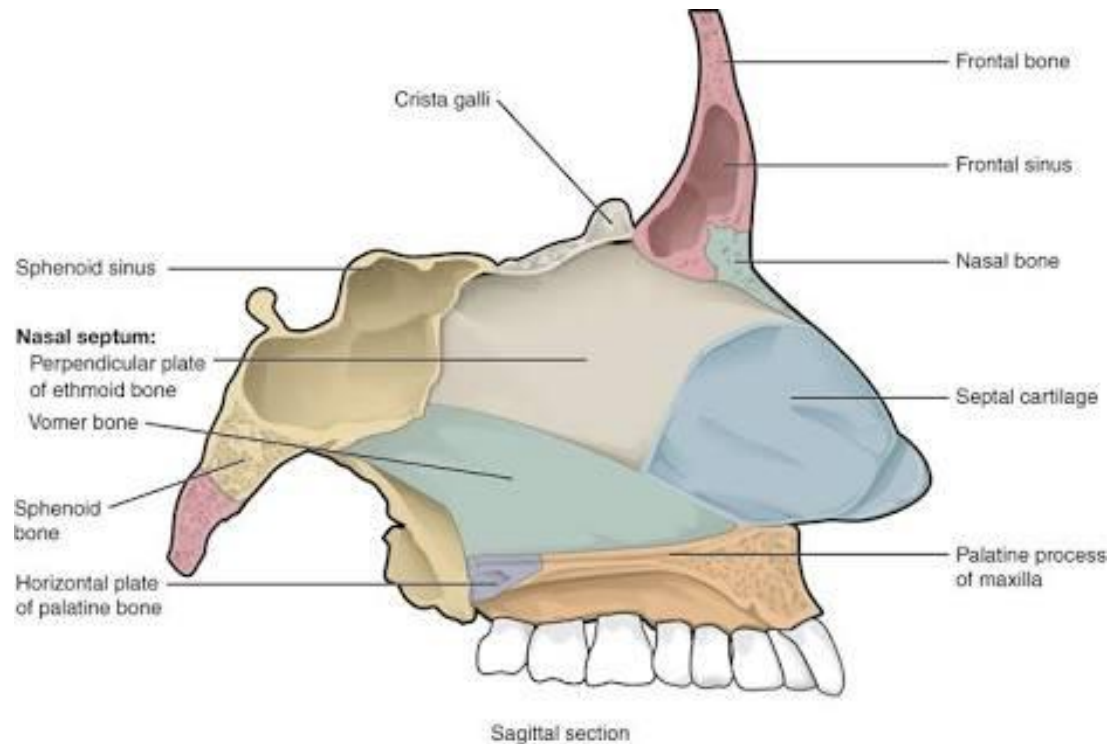


NASAL CAVITY

- The nasal cavity is an irregular space between the roof of the mouth and the cranial base. It is wider below than above.
- The nasal cavity communicates with the frontal, ethmoidal, maxillary and sphenoidal paranasal sinuses
- Nasal cavity opens into the nasopharynx through a pair of oval openings, the posterior nasal apertures or choanae.

# Roof

1. Ethmoid bone
2. Frontal bone
3. Nasal bone
4. Sphenoid bone



# *Floor*

Maxilla bone

Palatine bone

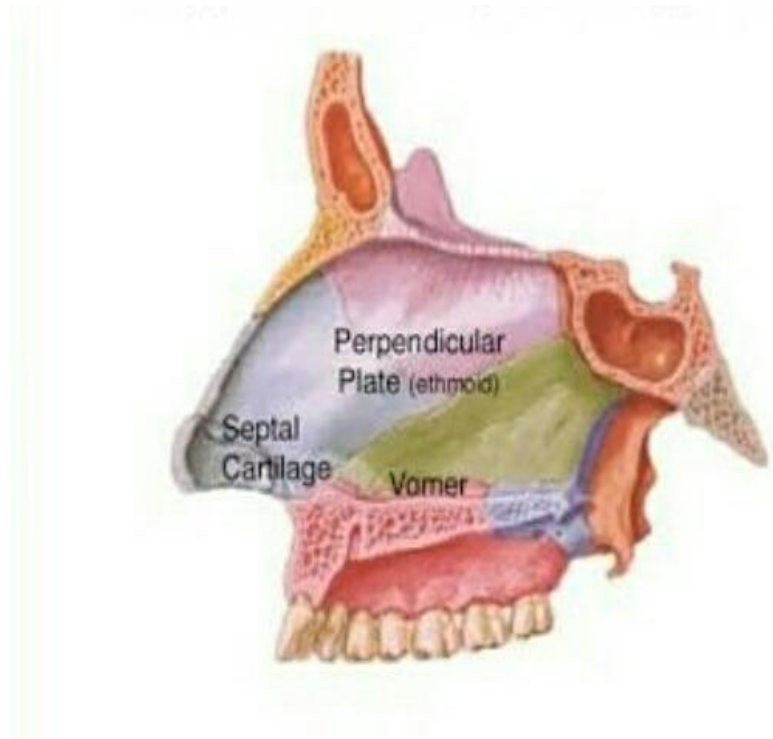
# Medial wall

## Bony part

- Vomer bone
- Ethmoid bone

## Cartilaginous part

- Septal cartilage
- Inferior nasal cartilage



# Lateral wall

## **Bony part**

- Nasal bone
- Maxilla bone
- Lacrymal bone

## **cartilaginous**

- Superior nasal cartilage
- Inferior nasal cartilage

A

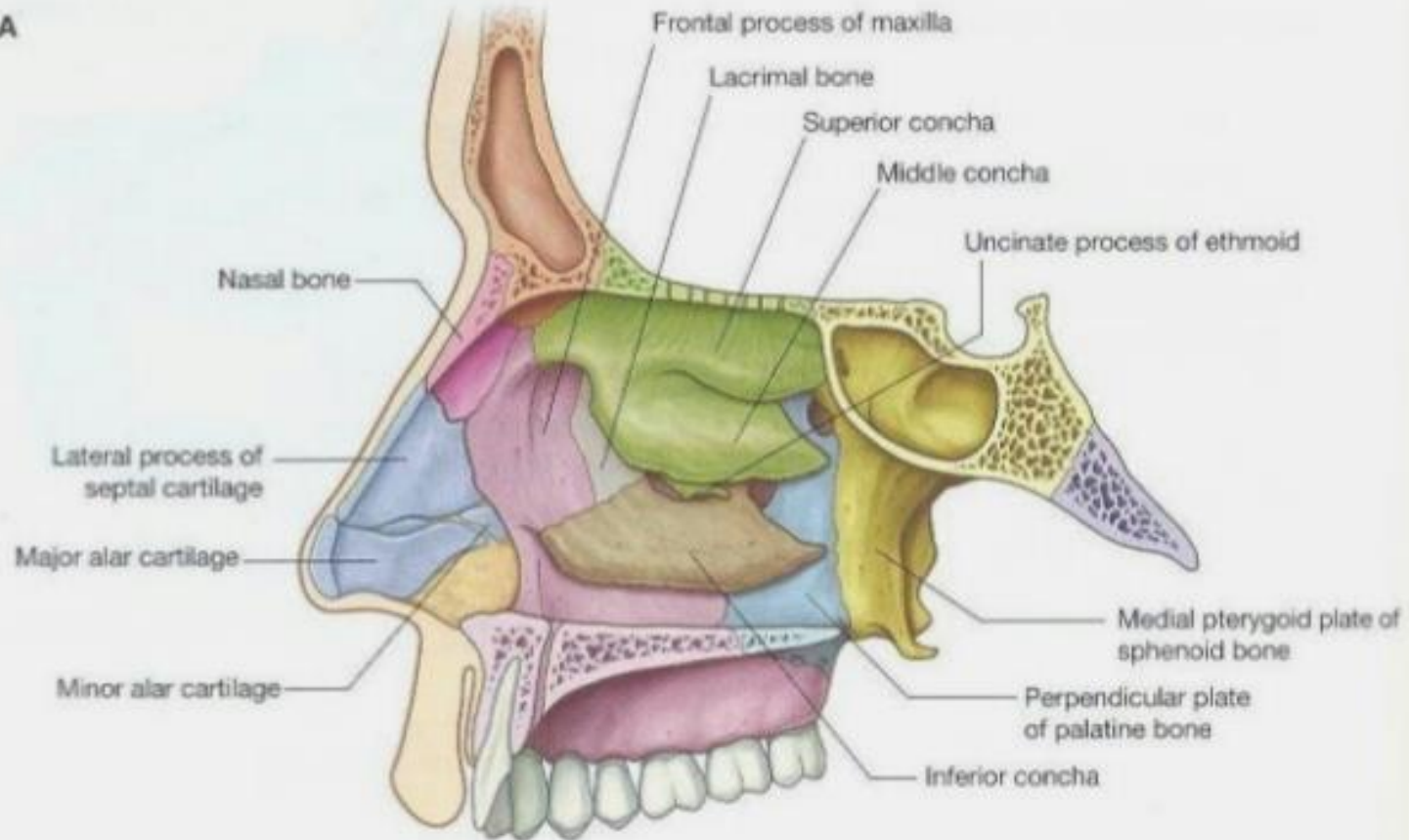


Fig. 8.226 Lateral wall of the nasal cavity. A. Bones.

***Dig :Letral wall off nasal cavity***



- **BLOOD SUPPLY**

- Sphenopalatine artery
- Facial artery

- **VENOUS DRAINAGE**

- Facial vein
- Pharyngeal plexus of vein
- Pterygoid plexus of vein

- **LYMPHATIC DRAINAGE**

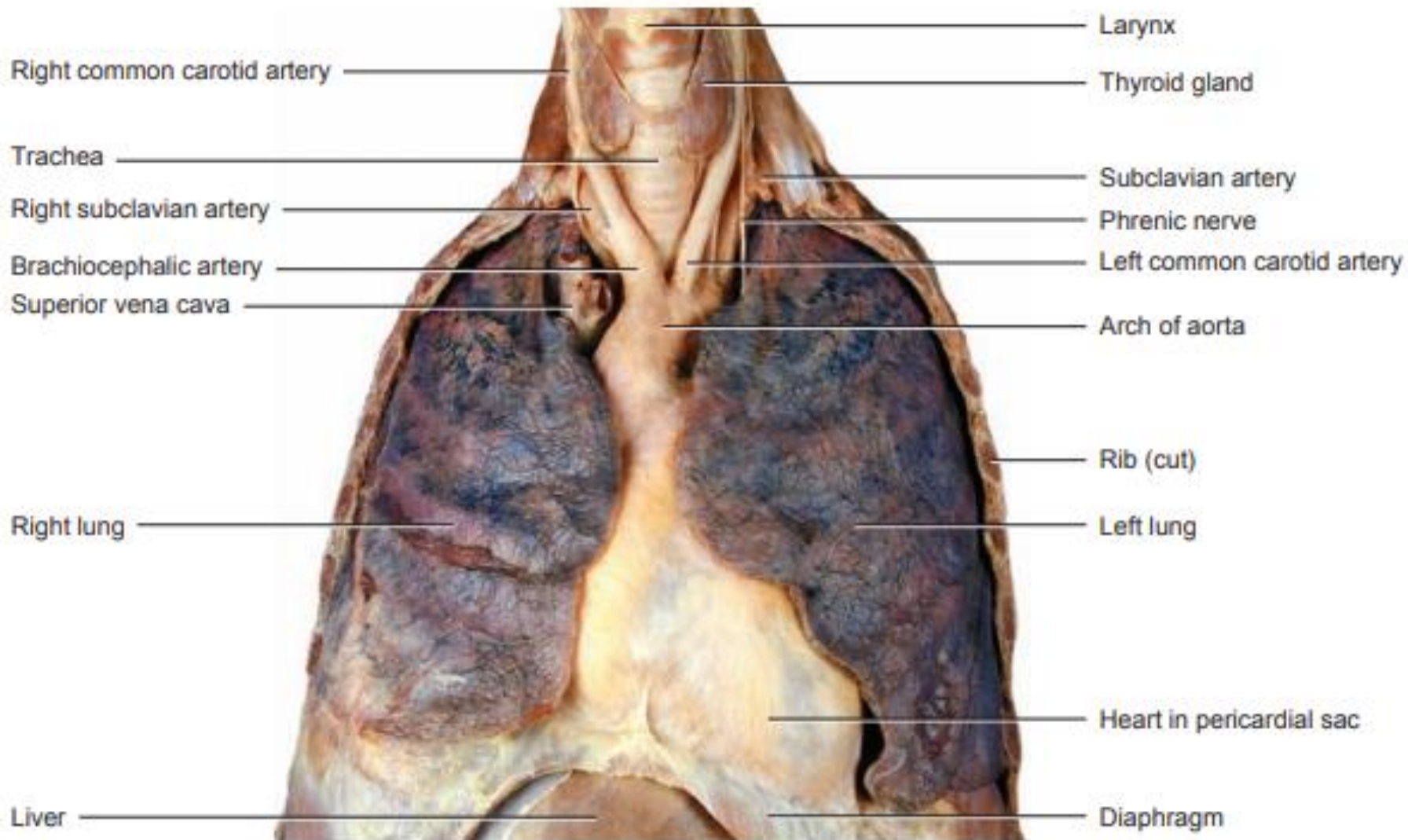
- Submandibular node
- Deep cervical node

# Nerve supply

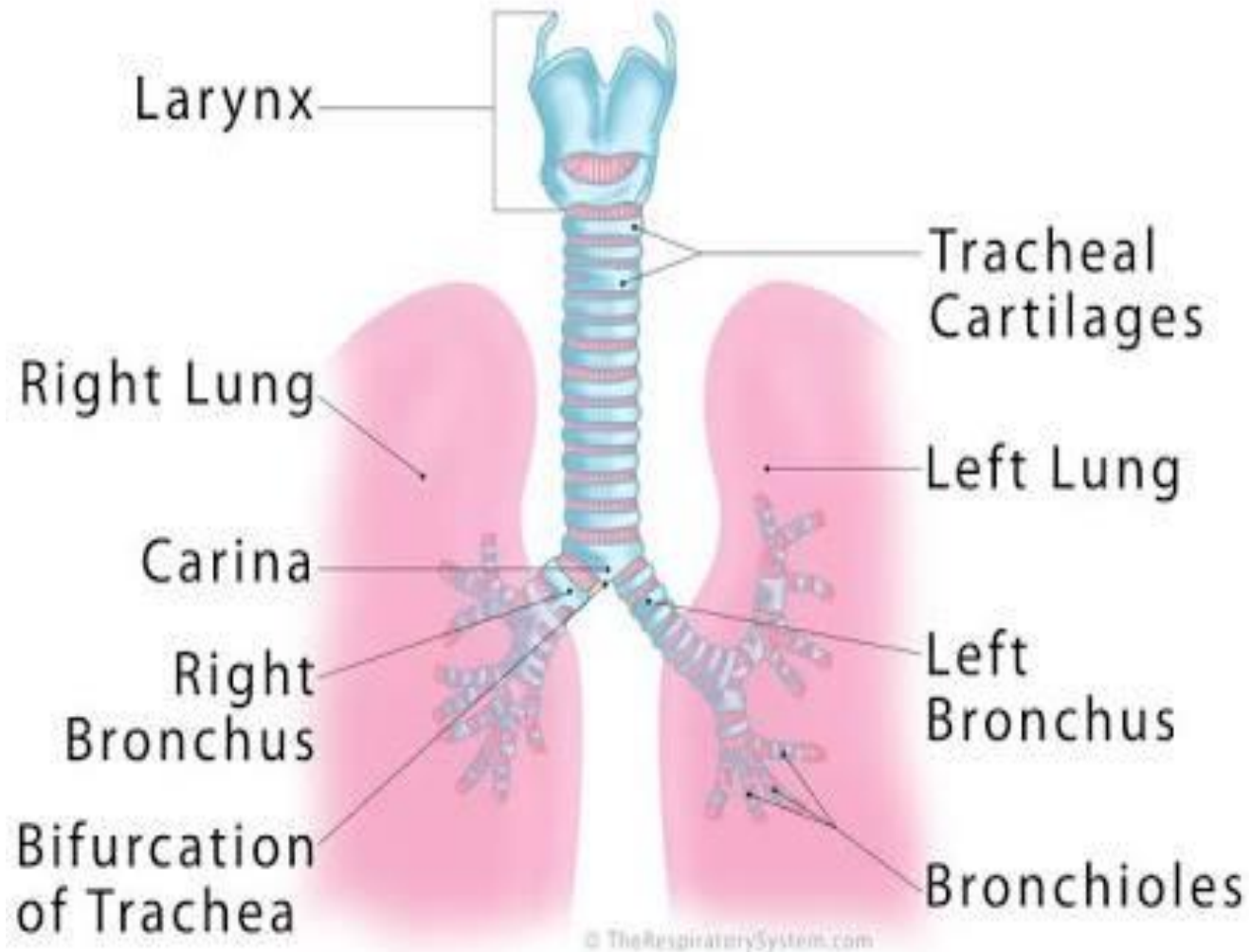
Olfactory nerve

Trigeminal nerve.

TRACHEA



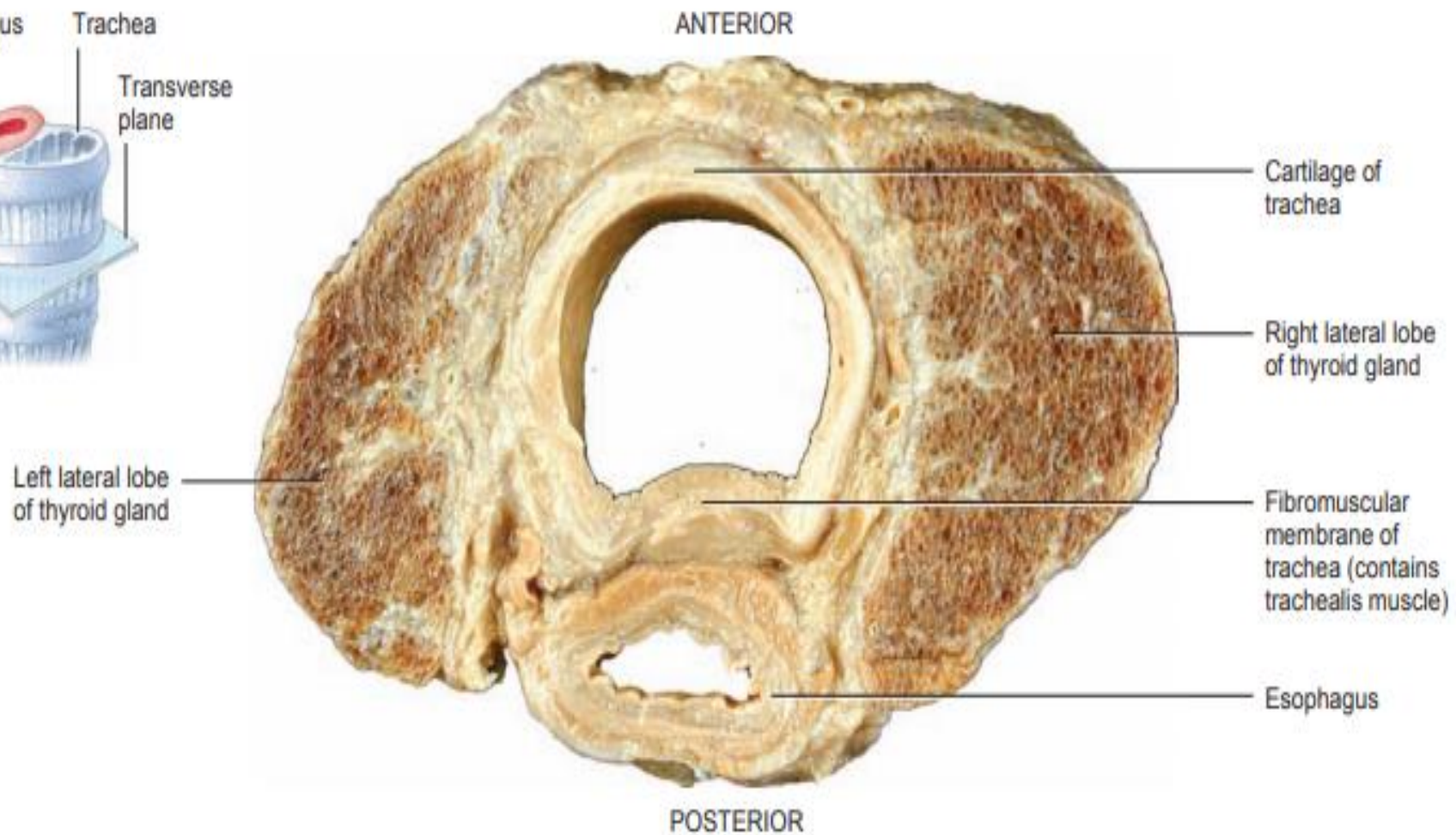
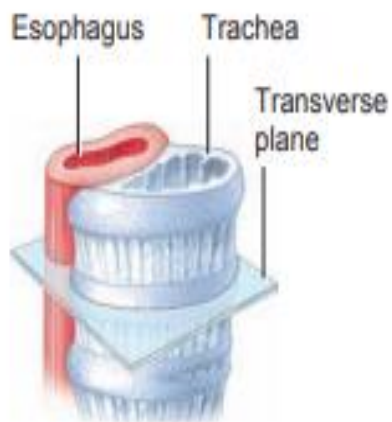
# Trachea



# Trachea /windpipe

- It is located anterior to the esophagus and extends from the larynx to the superior border of the fifth thoracic vertebra (T5), where it divides into right and left primary bronchi
- length; 12 cm long and 2.5 cm in diameter

- The 16–20 incomplete, horizontal rings of hyaline cartilage resemble the letter C, are stacked one above another, and are connected together by dense connective tissue. The open part of each C-shaped cartilage ring faces posteriorly toward the esophagus and is spanned by a fibromuscular membrane. Within this membrane are transverse smooth muscle fibers, called the trachealis muscle, and elastic connective tissue that allow the diameter of the trachea to change subtly during inhalation and exhalation, which is important in maintaining efficient airflow.





- A triangular process known as carina is present in the last ring which hooks upward from the lower margin and surrounds the commencement of the two bronchi.

# Relations

- **Anterior-**

Brachiocephalic trunk

Left common carotid artery

Left brachiocephalic vein

Manubrium sterni

Remains of the thymus

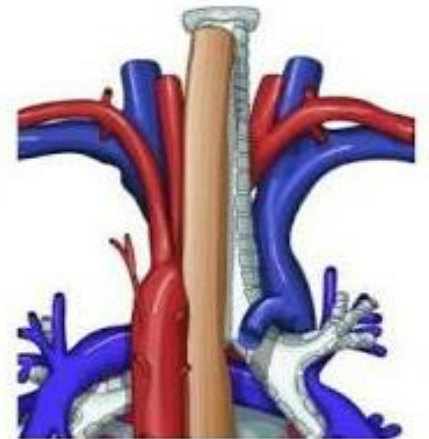
Manubrium sterni

Sternohyoid and sternothyroid muscle

- **Posterior-**

Oesophagus

Vertebral column



trachea

- Laterally-

To the right

1. Right lung and pleura
2. Right brachiocephalic vein and SVC, azygos vein
3. Right vagus nerve

To the left side-

1. Arch of aorta, left common carotid A, left subclavian A
2. Left recurrent laryngeal N

# Blood supply

## ***ARTERIAL SUPPLY***

- ❑ Upper part of trachea

  - Inferior thyroid artery

- ❑ lower part

  - Branches of the bronchial artery

## ***VENOUS DRAINAGE***

Left brachiocephalic vein

## ***LYMPHATIC DRAINAGE***

Pretracheal and paratracheal nodes

# NERVE SUPPLY

The anterior and posterior pulmonary plexuses innervate the trachea and the bronchi. The two plexuses are interconnected. The trachea is innervated by branches of the vagi, recurrent laryngeal nerves and sympathetic trunks



A WARM NOTE TO SAY

*Thank You!*

FROM THE BRIDE-TO-BE

