

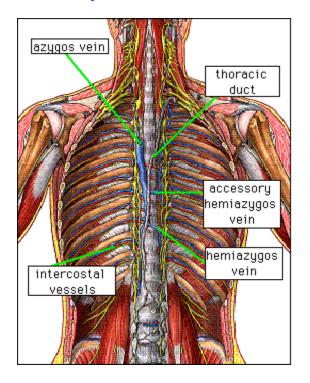
Objectives

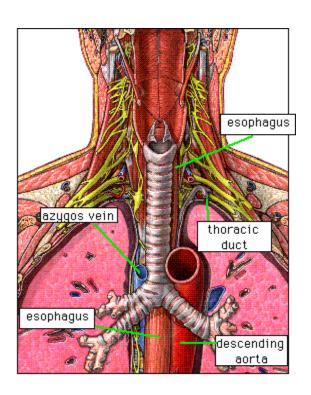
- Define the "Mediastinum".
- Differentiate between the divisions of the mediastinum.
- List the boundaries and contents of each division.
- Describe the relations between the important structures in each division

Mediastinum

YouTube:

Anatomy of Mediastinum.





WHAT IS THE MEDIASTINUM:

- It is a thick movable partition between the two pleural sacs & lungs.
- It contains all the structures which lie in the intermediate compartment of the thoracic cavity.

MEDIASTINUM BOUNDARIES:

<u>Superior: Thoracic outlet:</u> (manubrium, 1st rib & 1st thoracic v)

"<u>Inferior:</u> Diaphragm.

"Anterior: Sternum.

"Posterior: The 12 thoracic vertebrae.

MEDIASTINUM Subdivisions:

The mediastinum is subdivided by a Horizontal plane (extending from the <u>Sternal angle</u> to the lower border of T(4) into:

- Superior mediastinum (S): above the plane
- *Inferior mediastinum:* below the plane.

LEVEL OF T4:

at the level of T4 vertebra there are:

- sternal angle
- 2nd costal cartilage

Bifurcation of trachea Bifurcation of pulmonary trunk Beginning & termination of aorta

PHRENIC NERVE:

Root Value:

C3,4,5

They pass through the **Superior & Middle** mediastina Course in Thorax:

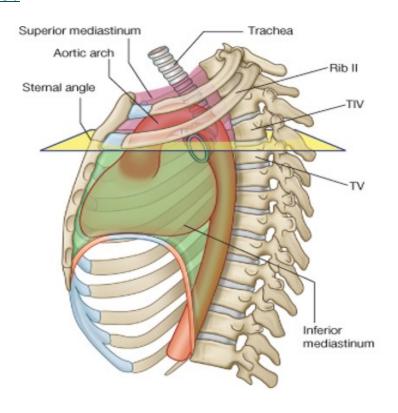
The <u>right phrenic</u> descends on the right side of SVC & heart.

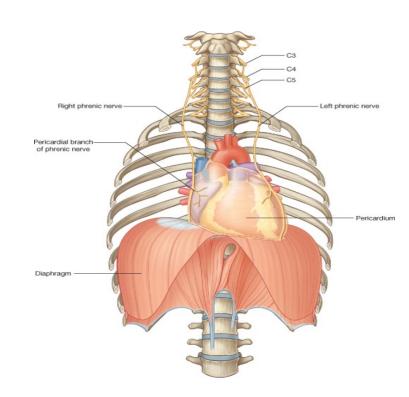
The <u>left phrenic</u> descends on the left side of heart.

Both nerves terminate in the diaphragm

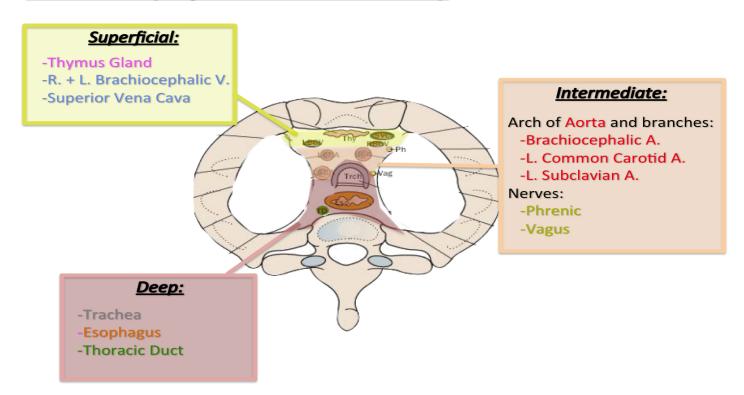
Branches:

- 1) Motor & Sensory fibers to Diaphragm
- 2) Sensory fibers to pleurae & pericardium

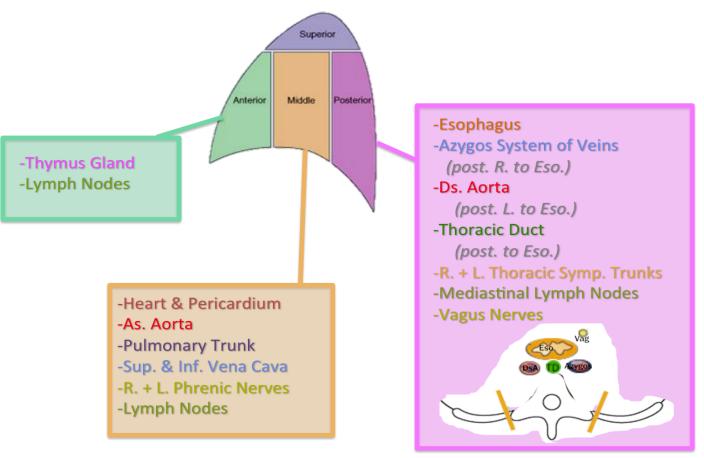


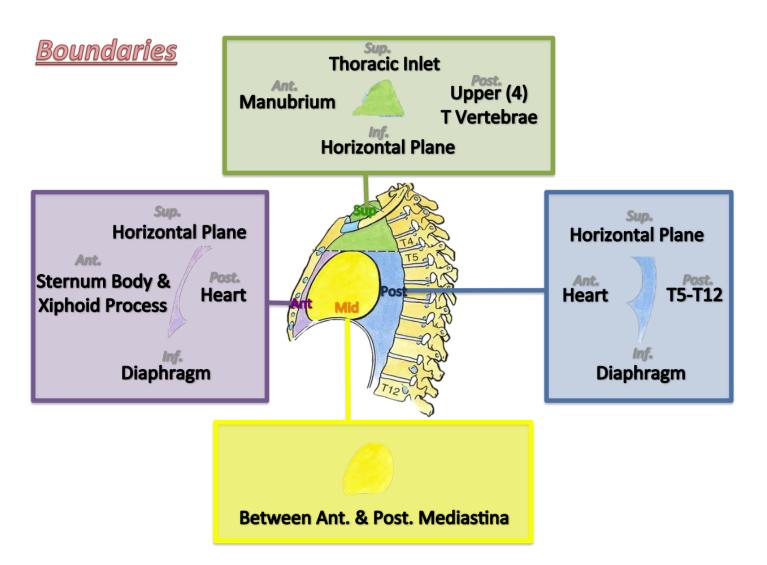


Contents: (Superior Mediastinum)



Contents: (Inferior Mediastinum)





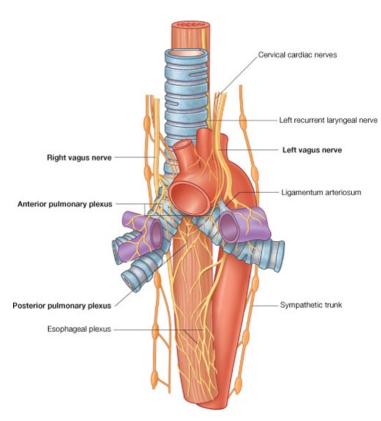
VAGUS NERVE:

It is the 10th cranial nerve.

It descends through the Superior & Posterior mediastina

The <u>right vagus</u> descends to the <u>right side</u> of <u>trachea</u>, forms the posterior esophageal plexus & continues in abdomen as <u>posterior gastric nerve</u>.

The <u>left vagus</u> descends between left common carotid & left subcalavian arteries, forms the anterior esophageal plexus & continues in abdomen as anterior gastric nerve.



AORTA:

:ASCENDING AORTA

.Beginning: at aortic orifice of left ventricle

Course: in middle mediastinum

(End: continues as arch of aorta (at level of <u>T4</u>

:ARCH OF AORTA

Course: in <u>superior</u> mediastinum

End: continues as descending thoracic aorta (at

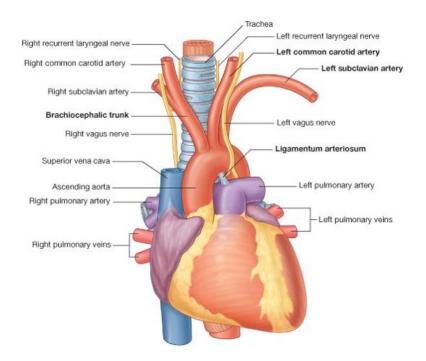
(level of T4

DESCENDING AORTA:

Course: in posterior mediastinum

End: continues as abdominal aorta after it

passes through diaphragm.



THORACIC DUCT:

BEGINNING:

It is the continuation of Cisterna Chyl کیس یحتو می سائل (ابیض)) (at the level of L1).

COURSE:

It passes through aortic opening of diaphragm.

It ascends in Posterior mediastinum (posterior to esophagus).

It ascends in Superior mediastinum (to the left of esophagus).

TRIBUTARIES:

It receives:

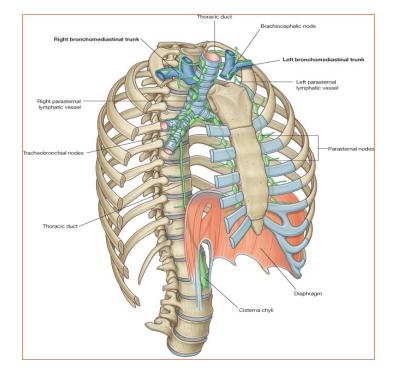
Lymphatics from all body

EXCEPT:

Right side of thorax, Right upper limb & Right side of head & neck.

END:

It opens in the left brachiocephalic vein.



Don By Anatomy Team ..

Good Luck ^_^