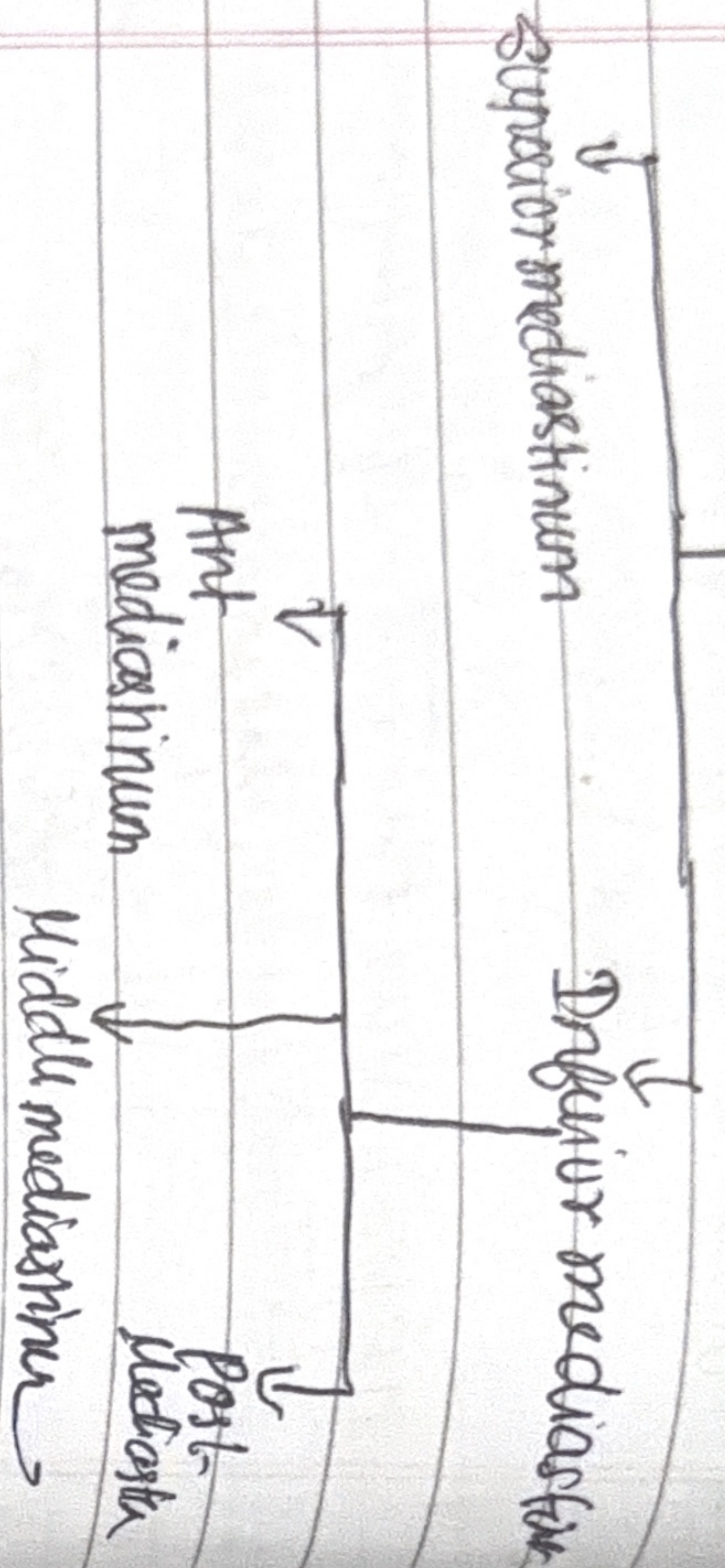


Mediastinum



Ant. mediastinum:

Ant: Body of Sternum

Post: Pericardium

Sup: Transverse thoracic plane

Inf: Diaphragm

Contents: lower aortic trunks

→ Mediastinal branches

⇒ lower portion of thyroids.

Clinical correlation

⇒ spread of infection from neck to Ant. medi.

Middle mediastinum:

Ant: Ant. mediastinum

Post: Post. mediastinum

Sup: Superior med.

Inf: Diaphragm.

Contents

1) Heart and great vessels

2) Pericardium, Arteries, Pulmonary Arteries

Posterior Mediastinum

Anterior (superior) Mediastinum

Post: lower right V.C. & intervertebral disc.

Sup: Transverse thoracic plane

Inf: Diaphragm.

each: Mediastinal pleura

Contents:

⇒ Oesophagus

⇒ Thoracic duct.

⇒ Descending thoracic aorta.

⇒ Azygos of its components. T4, T11

⇒ Vagus nerve as anterior of post-oesophageal plexus.
baroreceptors: vagus

⇒ Sympathetic trunks: most part: T1-T11

Clinical correlation

⇒ Mediastinits: inflammation of the loose connective tissue: pericard, pleura, mediastinum (a)

⇒ Mediastinal syndrome: compression of mediastinal subacute tumor or cysts

⇒ subcutaneous emphysema at Poo of neck

⇒ Mediastinal shift indicates lung pathology

Sympathetic Trunk

⇒ Ganglionated chain on either side of the vertebral column.

COURSE: from thoracic until above medial

vertebrae - ligament above diaphragm of cervical as lumbar sympathetic chain

⇒ each contain 12 ganglia: 10 thoracic, 2 lumbar

⇒ 1st ganglion fuse with 1st thoracic to form cervical thoracic stellate ganglion

BRANCHES: postganglion - found preganglion - not found

MEDIAL BRANCHES (supply viscera)

⇒ 1st to 5th ganglia → postganglionic fibres

⇒ heart, great vessel, lungs, oesophagus

through the following plexuses: ①

① Pulmonary Plexus.

② Cardiac Plexus - parasympathetic

③ Aortic Plexus

④ Oesophageal Plexus - autonomic total

⑤ Thoracic ganglia, vagus nerve, thoracic plexus

⑥ Cervical ganglia, vagus nerve, cervical plexus

2) 5th to 12th → preganglionic fibers.
posterior splanchnic nerves.

② Great splanchnic nerve: 5th to 9th

thoracic sympathetic ganglia
⇒ Pleur. the course of diaphragm of
terminates as celiac ganglion.

③ Less splanchnic nerve: 10th to 11th

⇒ Pleur. the course of diaphragm of terminates
in superior mesenteric ganglion.

④ Least (lowest) splanchnic nerve → Peritoneal
- 12th T6.

⇒ supply kidney.

⑤ Lateral branches: Lungs, Lungs, Lungs

⇒ Pleur. motor, sudomotor, vasomotor.
↓
heart ↓ sweat gland ↓ skin

Clinical correlation:

⇒ Thoracoabdominal sympathectomy.

It is done to relieve severe hypertension.

⇒ Upper limb sympathectomy

→ treat - Raynaud's disease

⇒ Injury to stellate ganglion → ipsilateral Horner's syndrome