

Ascending Aorta

- * **Beginning** :- Lt ventricle at aortic opening 3rd Lt intercostal space
- * **End** :- 2nd Rt sternocostal Joint
- * **Course** :- upward - forward - Right
- * **Branches** :- Rt - Lt coronary artery

Pulmonary Trunk

- ⇒ arise from Rt ventricle - at pulmonary valve
- ⇒ upward, backward, left
- ⇒ Bifurcates inferior to aortic arch into :-

Rt pulmonary artery

Posterior to ascending aorta and SVC to hilum of Rt lung

Lt pulmonary artery

anterior to descending aorta and Lt main bronchus to hilum of Lt lung

Anatomy of Great Vessels

Aortic Arch

- * **Beginning** :- Continuation of ascending aorta at Rt end of sternal angle
- * **Course** :- upward, Lt, post. then downward arching over Pulmonary trunk, Lt main bronchi
- * **End** :- lower border of T4

Sup * Relations *

3 branches Thymus
Lt brachiocephalic V.

Post. Right	ant. left. N
trachea	Pleura lung
thoracic duct	Phrenic n
deep ♥ plexus	Pericardiaco Phrenic
esophagus	vagus ♥
Lt recurrent laryngeal	

Inferior

Pulmonary a. ligamentum arteriosum
superficial ♥ Plexus L
Lt. r. laryngeal Lt bronchus

Branches → left common Carotid
→ left subclavian
→ Brachiocephalic → Rt common carotid - subclavian

Descending thoracic aorta

- * **Beginning** continuation of aortic arch at lower border T4
- * **Course** downward, on left, in front of vertebral column Passes through aortic hiatus of diaphragm at level of T12 to continue as abdominal aorta

Rt * Relations * Lt

thoracic duct	Post vertebral Column hemiazygos	lung
azygos v.	ant. Pericardium esophagus root of Lt lung	

Branches of Thoracic aorta

- * 9 pairs of posterior intercostal arteries
- * one pair subcostal artery
- * Bronchial branches 2 for Lt lung
- * Esophageal branches
- * Pericardial branches

Veins of Thorax

Brachiocephalic veins

- Begin** by union of :- Internal jugular + subclavian veins
- Post. to sternoclavicular Joint
- * **SVC** *
- Rt + Lt brachiocephalic behind Rt 1st sternocostal Junction

End :- Right atrium at level of lower border of 3rd Rt sternocostal Joint

Collect blood from Veins of upper 1/2 of body
Tributaries :- Azygos (sternal angle → 2nd costal)

فإن مع العسر يسراً
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Hanan Shehata Al