

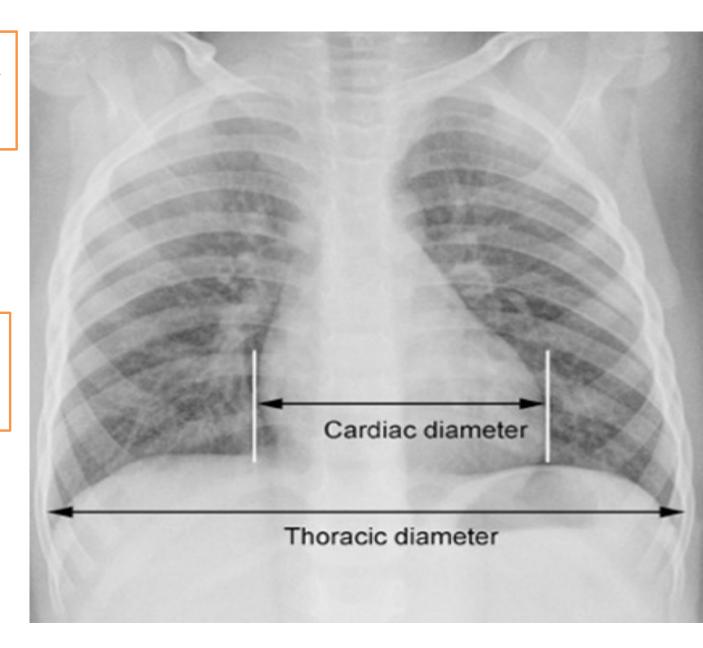
On the left side, the uppermost part of the cardiovascular is formed by the distal arch of the aorta as it curves posteriorly and inferiorly to become the descending thoracic aorta.

Immediately below the aortic bulge, the main pulmonary trunk and left main pulmonary artery are border forming.

A small segment of the left cardiac silhouette below the pulmonary artery is formed by the left atrial appendage. This segment normally is flat or slightly convex and is continuous with the curve of the left ventricle, which forms the largest part of the left border of the cardiac contour.

The cardiothoracic ratio (CTR) aids in the detection of enlargement of the heart which is most commonly from cardiomagaly but can be due to other processes such as **Pericardial effusion**

is the ratio of maximal horizontal cardiac diameter to maximal horizontal thoracic diameter (inner edge of ribs / edge of pleura). A normal measurement should be <0.5.



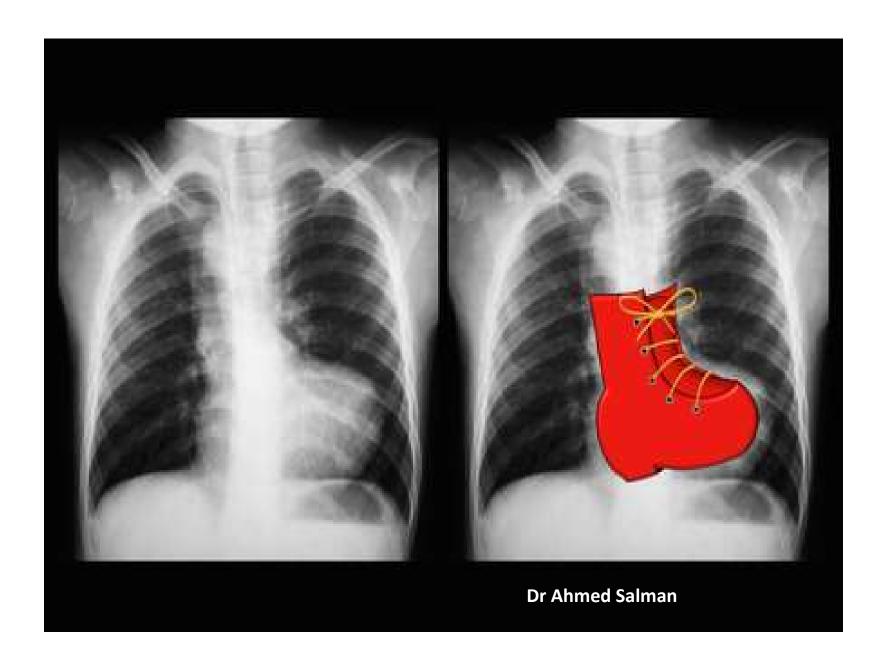


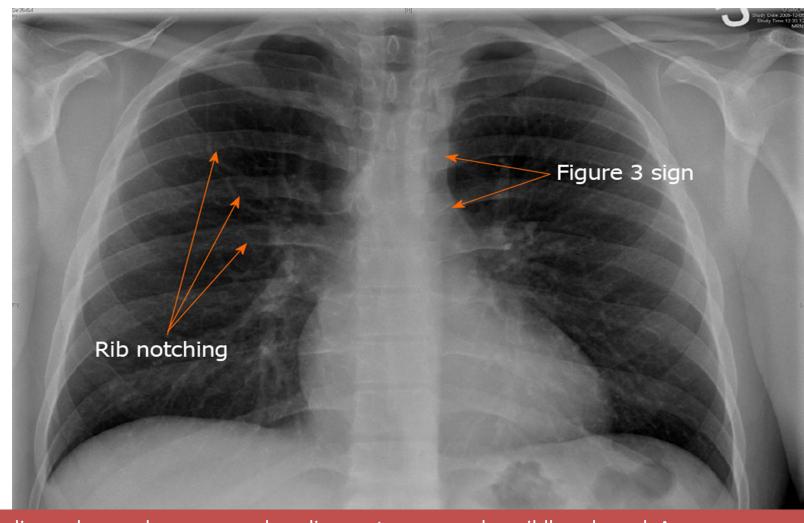
Dextrocardia

Tetralogy of Fallot

- ➤ Boot-shaped heart with an upturned cardiac apex due to right ventricular hypertrophy
- Concave pulmonary arterial segment.
- ➤ Pulmonary oligaemia occurs due to decreased pulmonary arterial flow.





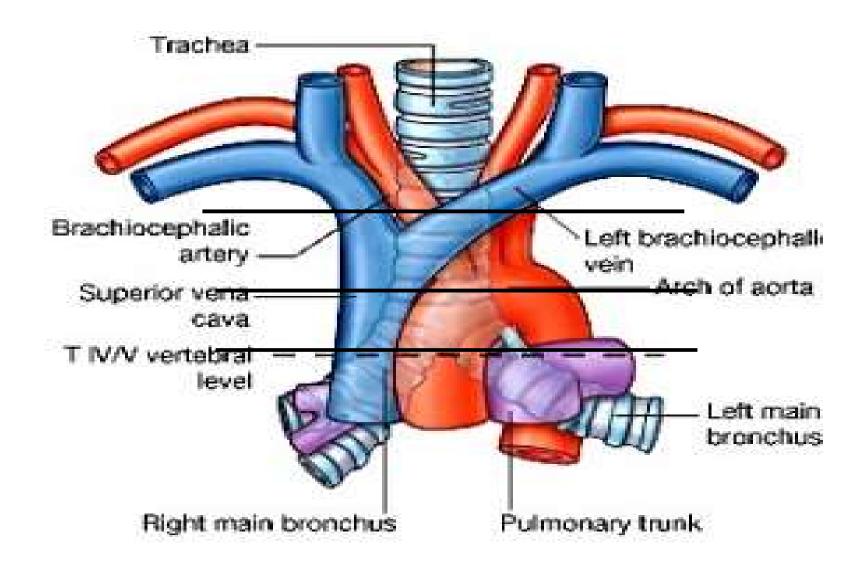


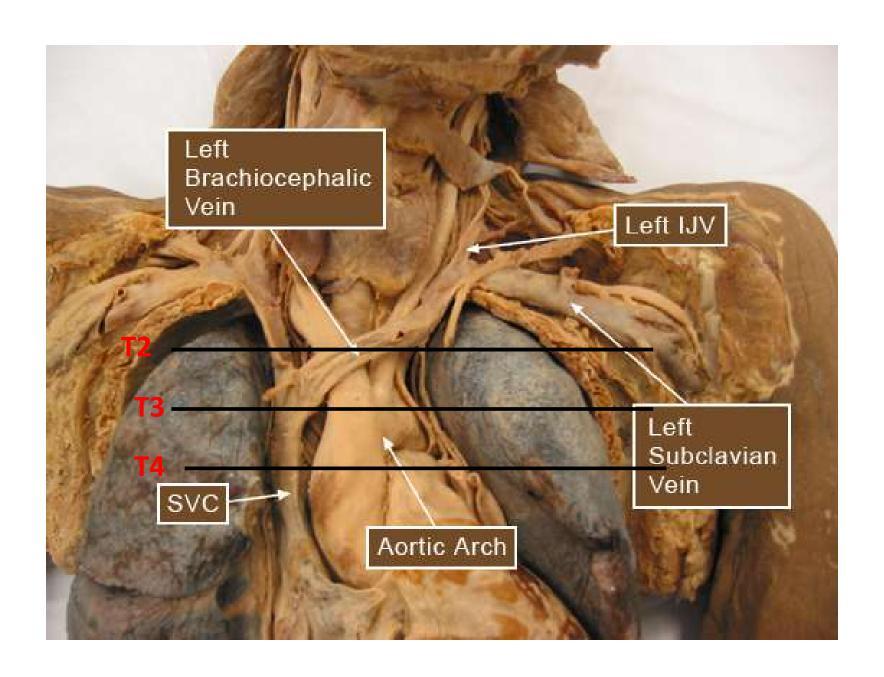
Coraction of Aorta .Chest radiograph may show a normal cardiac contour or can be mildly enlarged. A characteristic finding of beneath the aortic notch suggests the narrowing of the descending aorta at the level of coarctation and dilatation pre and post coarctation . Bilateral inferior rib notching may also be seen in the third to eighth ribs suggesting the presence of dilated intercostal collateral arteries

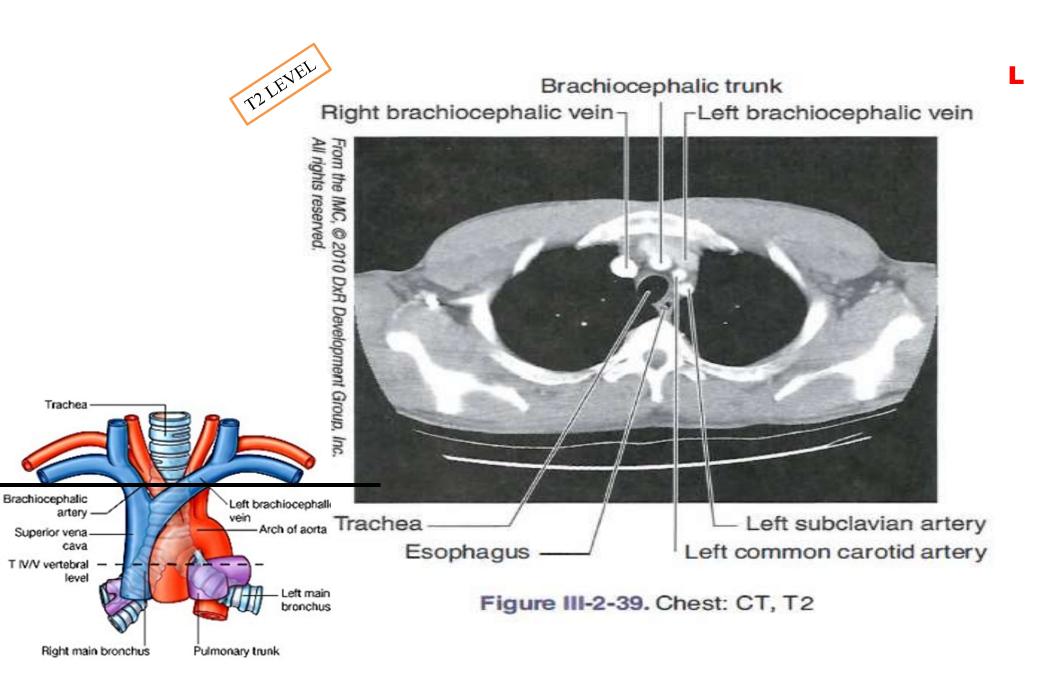
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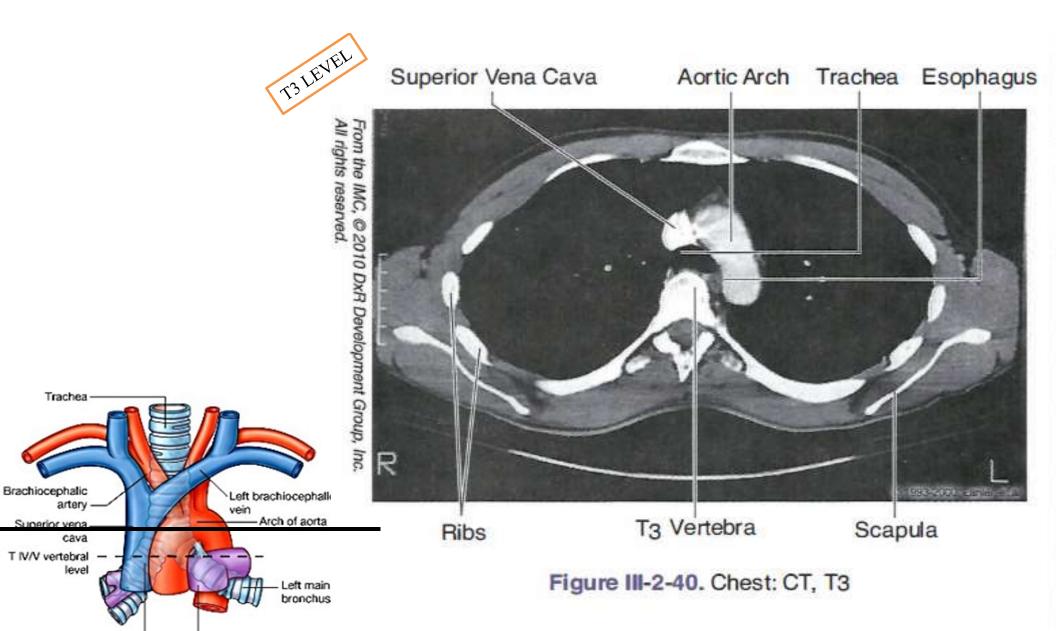
ON the CT scans

You should appreciate the fact that we are evaluating the inferior part of the section (not the superior), therefore, it should be noted right side will be actually on the left side on the scan and vice versa.



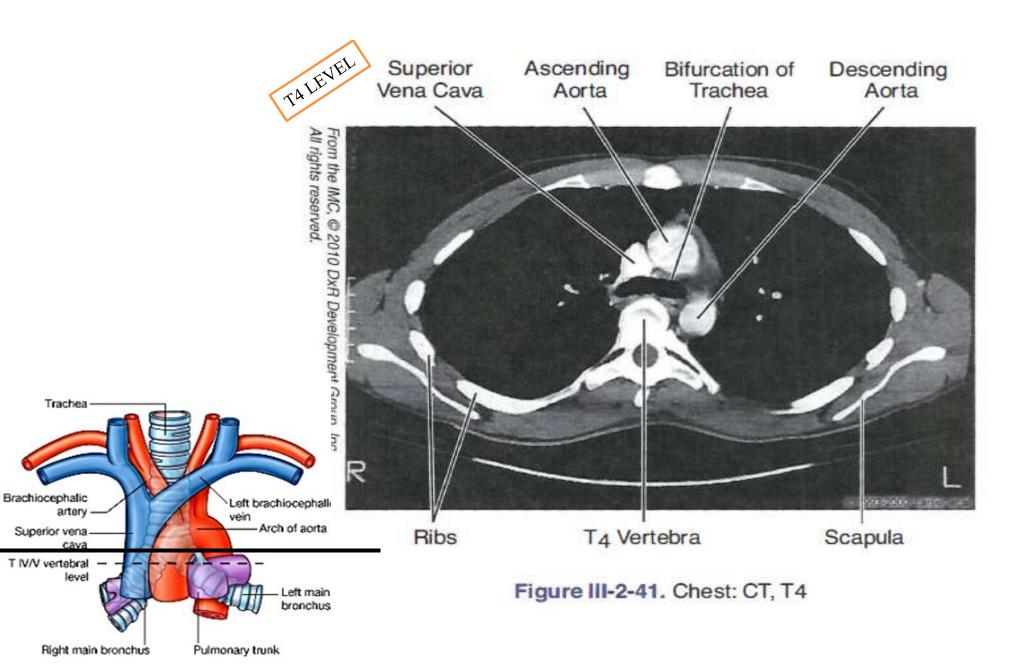


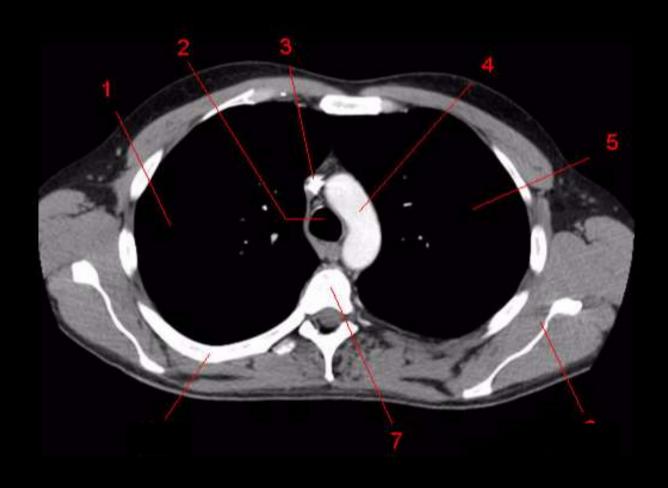




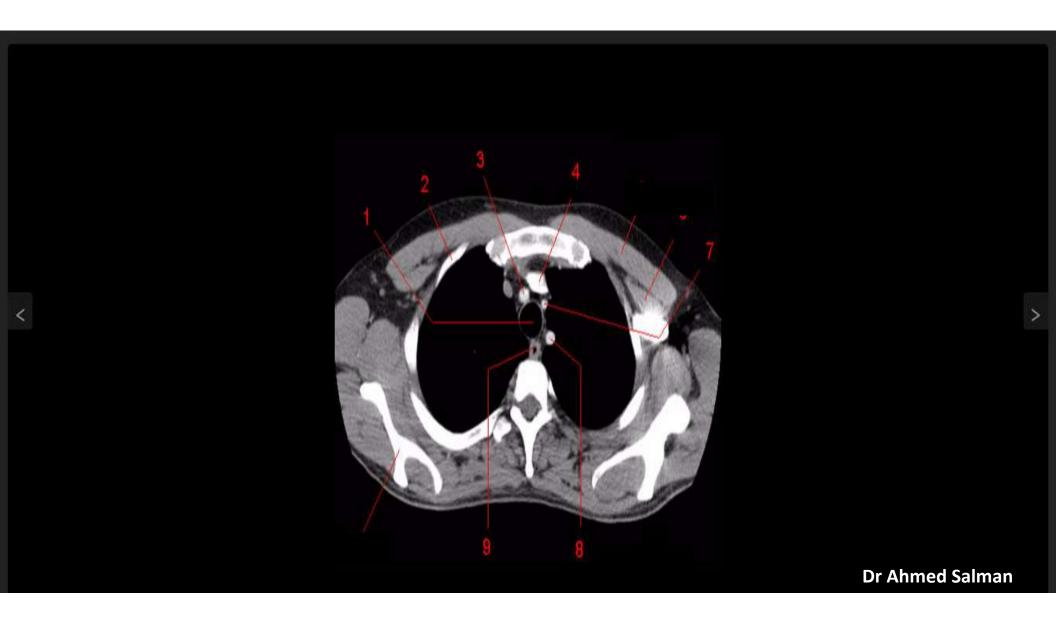
Right main bronchus

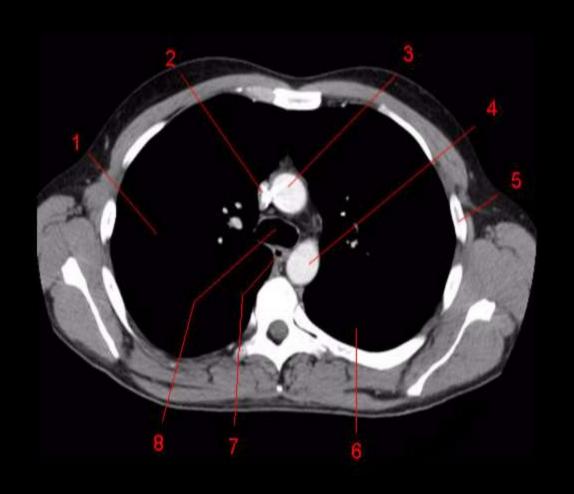
Pulmonary trunk





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Great Thanks to Professor Amjad Shatarat for his permission to use his slides