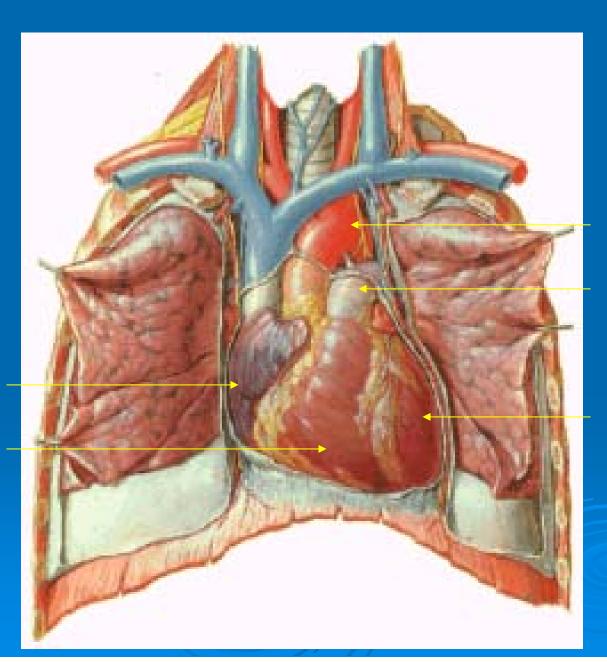
Cardiovascular System

Department of Radiology & Imaging

Heart-Anterior Exposure



RA

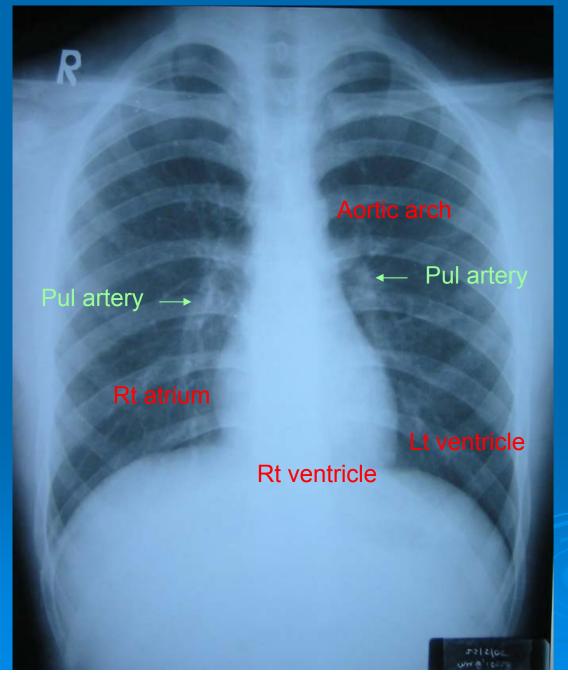
RV

Aortic arch

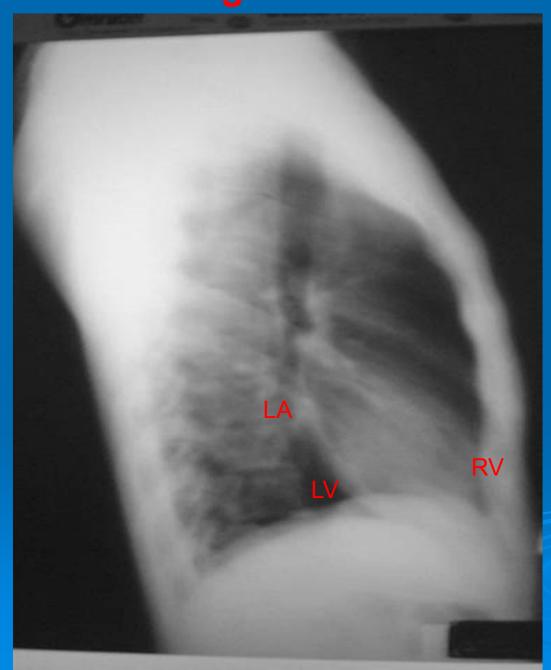
Pul trunk

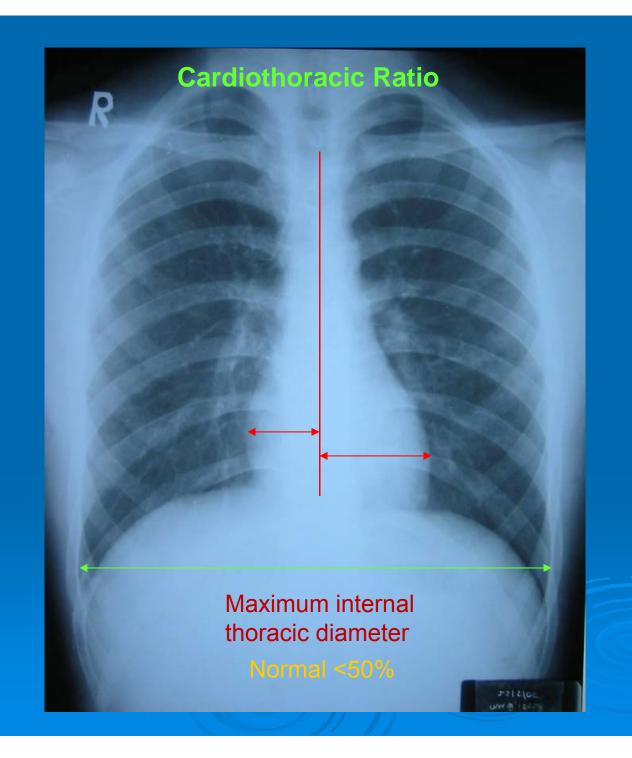
LV

Viewing PA Film



Viewing Lateral Film





Heart size & shape

> CT Ratio

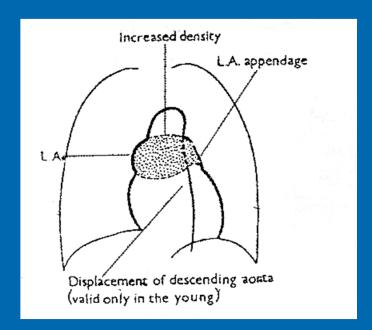
percentage of heart size with respect to internal thoracic diameter

maximum – 50%

increase in neonate & elderly

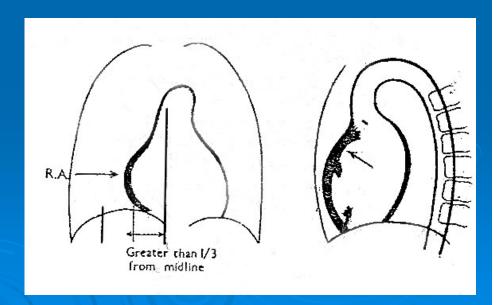
LA enlargement

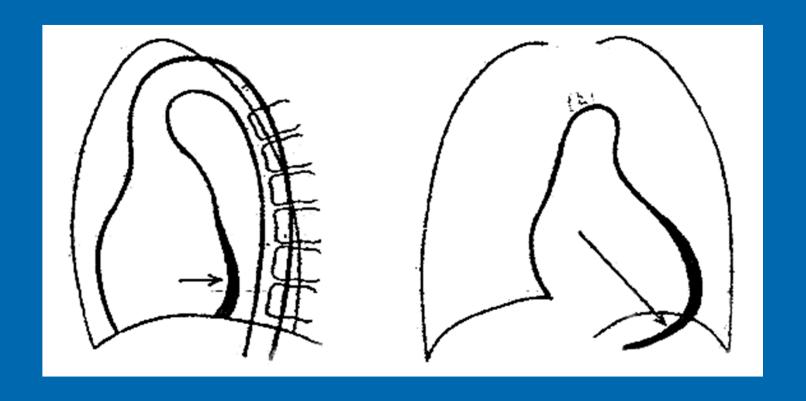
- ✓ Double Rt Heart border
- ✓ Elevation of the Lt main bronchus
- ✓ Splaying of carina
- ✓ Enlargement of Lt atrial appendage



> RA enlargement

✓ Lateral prominence of Rt heart border with an increase convexity



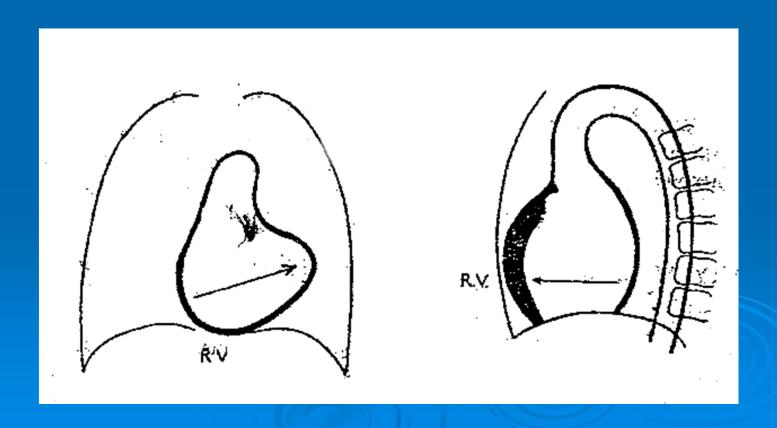


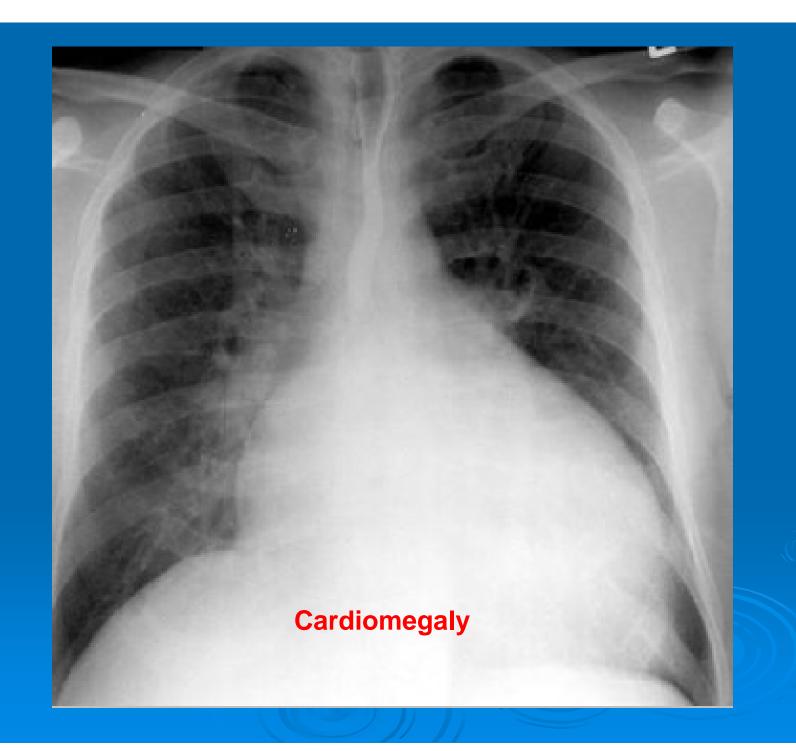
> LV enlargement

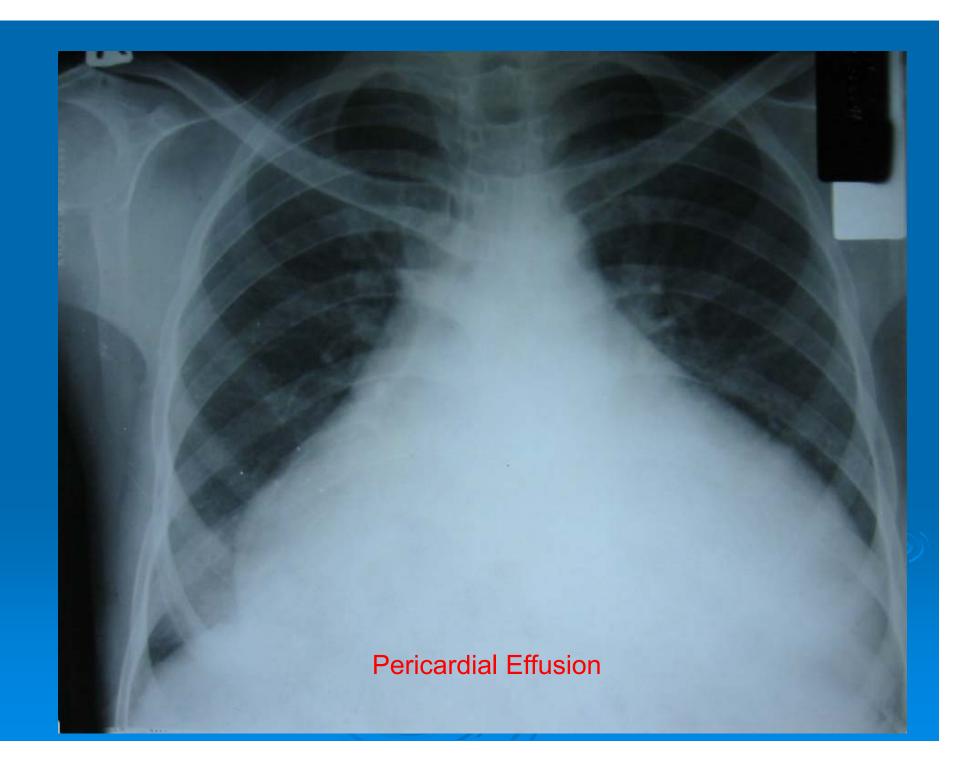
- ✓Increase CT ratio
- ✓ Heart enlarged laterally & inferiorly

> RV enlargement

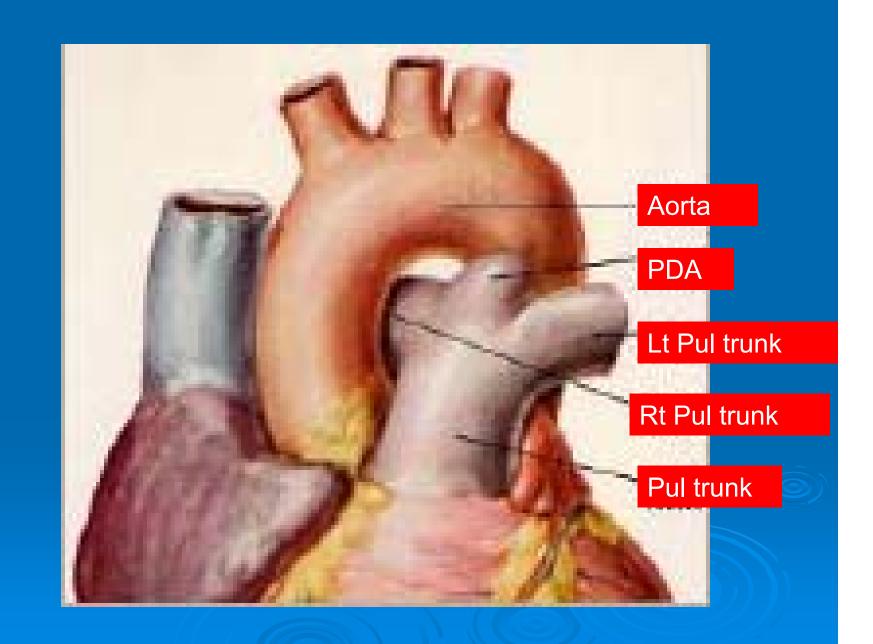
✓ Heart – enlarged laterally & upward





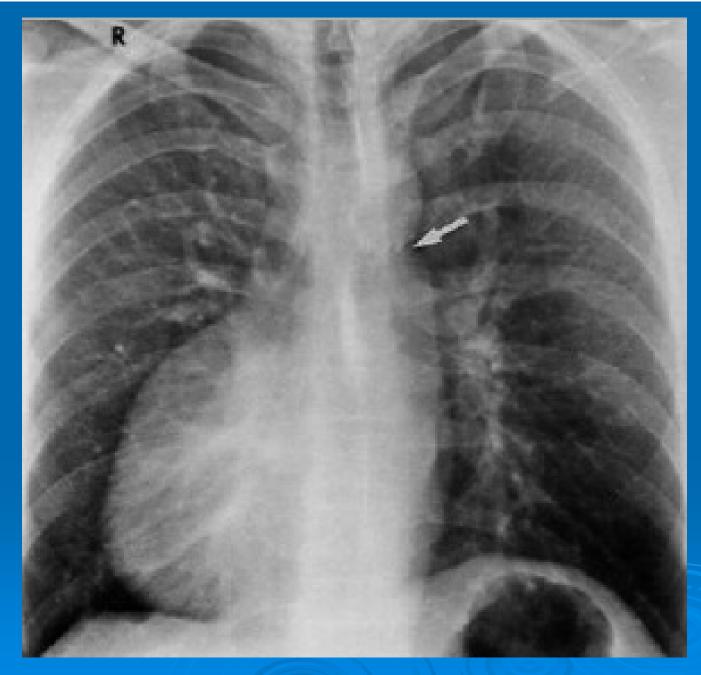




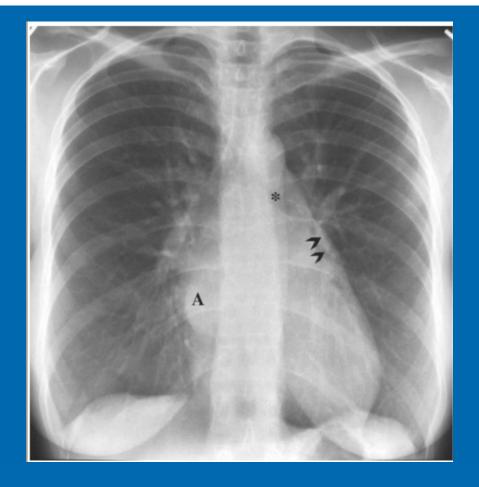


Tetralogy of Fallot Components

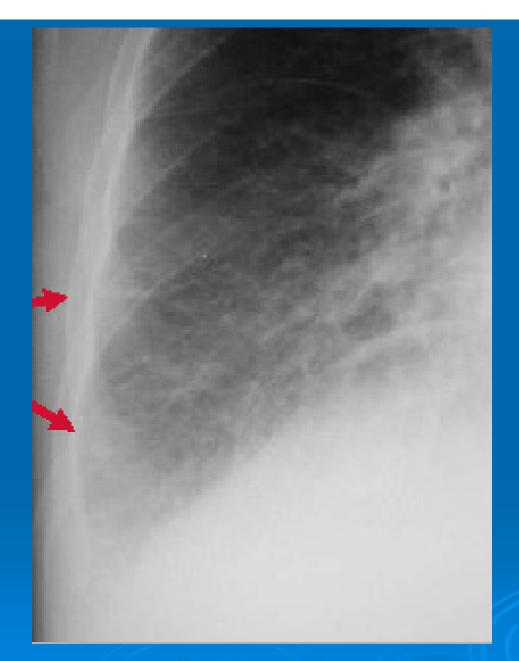
- > · VSD
- > Pulmonic stenosis
- > Overriding of the aorta
- > Right ventricular hypertrophy



Situs Solitus with Dextrocardia



- **❖Classical appearance of rheumatic mitral stenosis. PA view of the chest.**
- **❖The heart size is normal.**
- **❖The enlarged left atrium (A) displaces the left bronchus upwards (asterisk) and creates a right retrocardiac double density.**
- **❖The left atrial appendage is enlarged (arrowheads).**
- **❖There is severe pulmonary venous hypertension.**

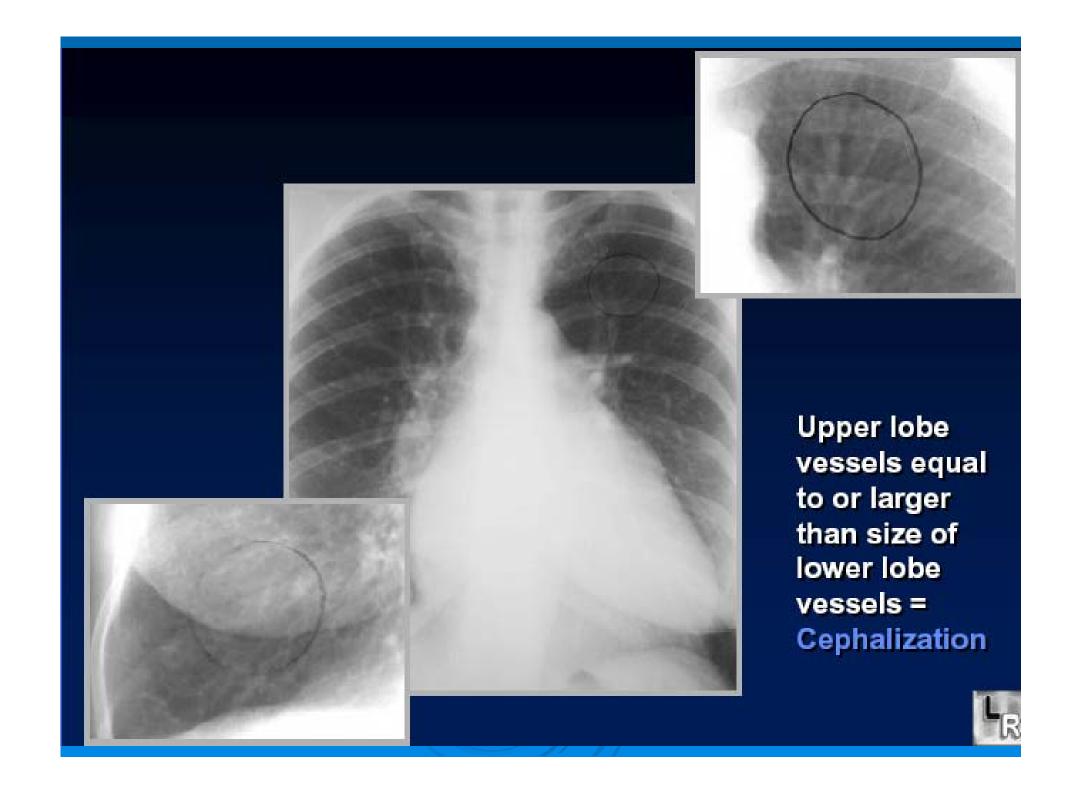


Kerly B line

Kerley B Lines are short, white lines perpendicular to the pleural surface at the lung base.



Convexity from enlarged left atrial appendage



Causes of ↑ Left Atrium

- > 1. CHF
- > 2. Mitral stenosis
- > 3. Mitral regurgitation
- > 4. Prolapsed mitral valve
- > 5. Papillary muscle dysfunction
- > 6. Left atrial myxoma





