



LP 1





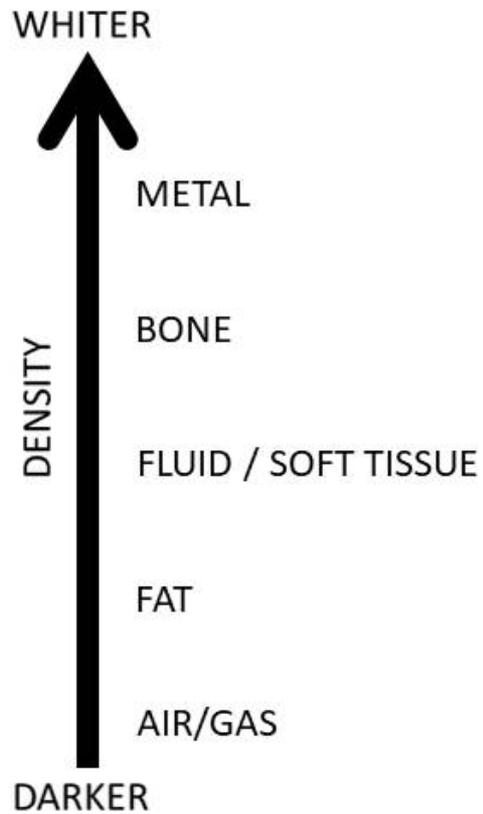
Check List:



- ◆ DOSE
- ◆ CENTRALIZATION
- ◆ PATIENT'S DATA (NAME, AGE, SEX, SMOKING, OCCUPATION)
- ◆ CLINICAL HISTORY IN BRIEF



Conventional Radiography



Chest radiograph



PA POSITION/ORIENTATION

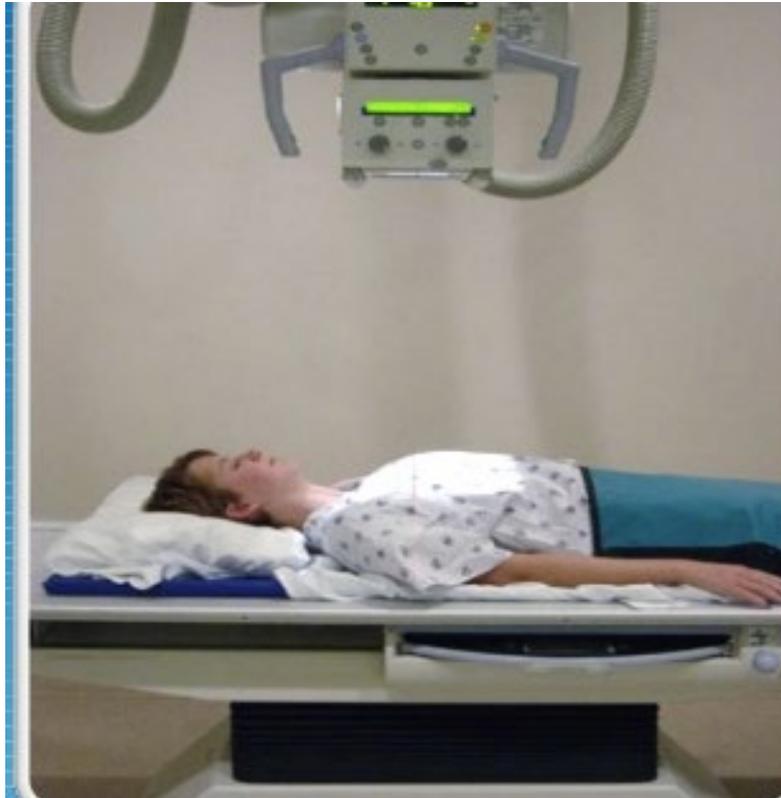
- Film label
- Aortic knuckle
- Waist of the heart
- Gas bubbles of the stomach



Scp=scapulae,
Cl=clavicae,
C1-C4a=anterior arch ribs C1-C4,
C2-C4p=posterior arch ribs
T=traheea
VCS=superior cava vein
APd=right pulmonary artery
APs=left pulmonary artery
AD=right atrium
BAo=aortic knuckle
VS=left ventricle
HDdr/HDstg=right/left hemidiaphragme

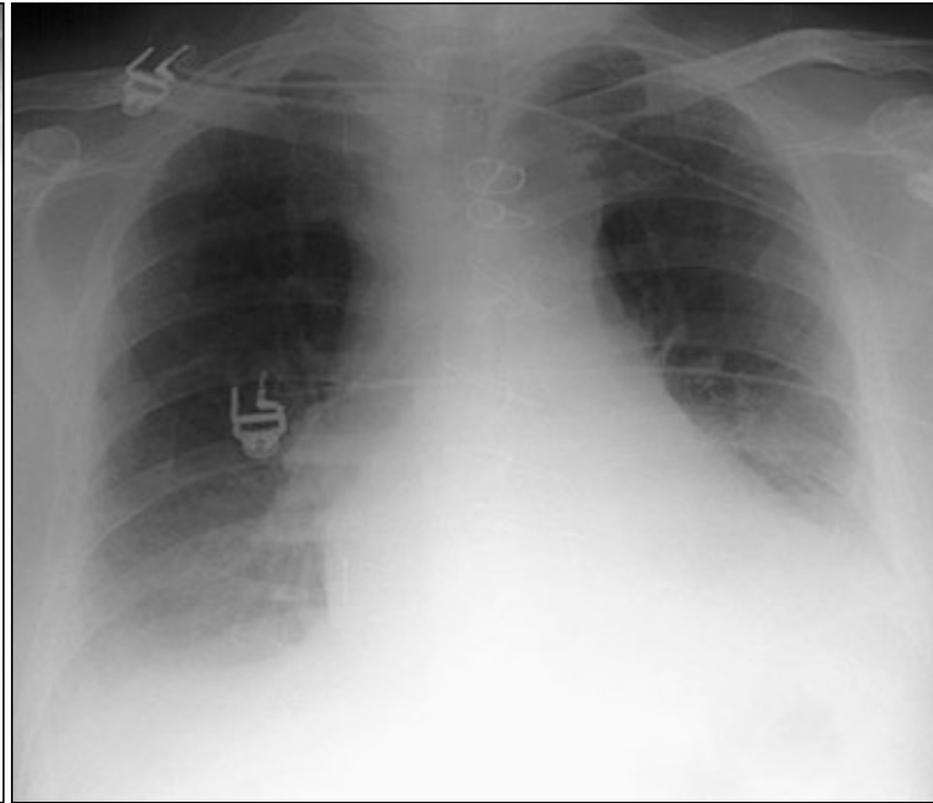


AP POSITION/ORIENTATION





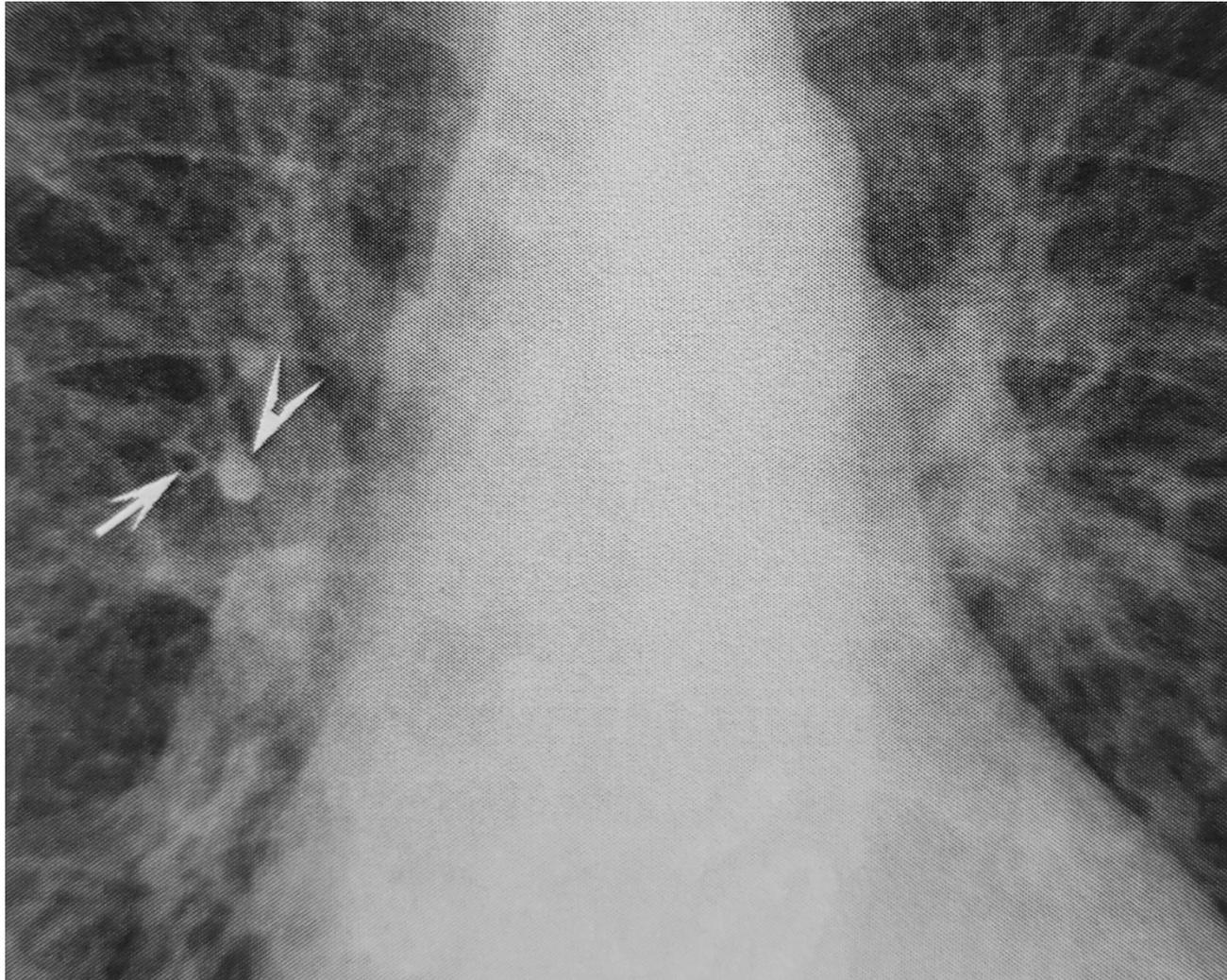
PA



AP



“BROKEN GLASSES”





GENERAL CRITERIA

Bit-by-bit checklist

- ▣ Trachea
- ▣ Mediastinum
- ▣ Heart
- ▣ Cardio-phrenic angles
- ▣ Diaphragm
- ▣ Costo-phrenic angles
- ▣ Lungs
- ▣ Bony cage
- ▣ Lateral film, if present
- ▣ Other findings



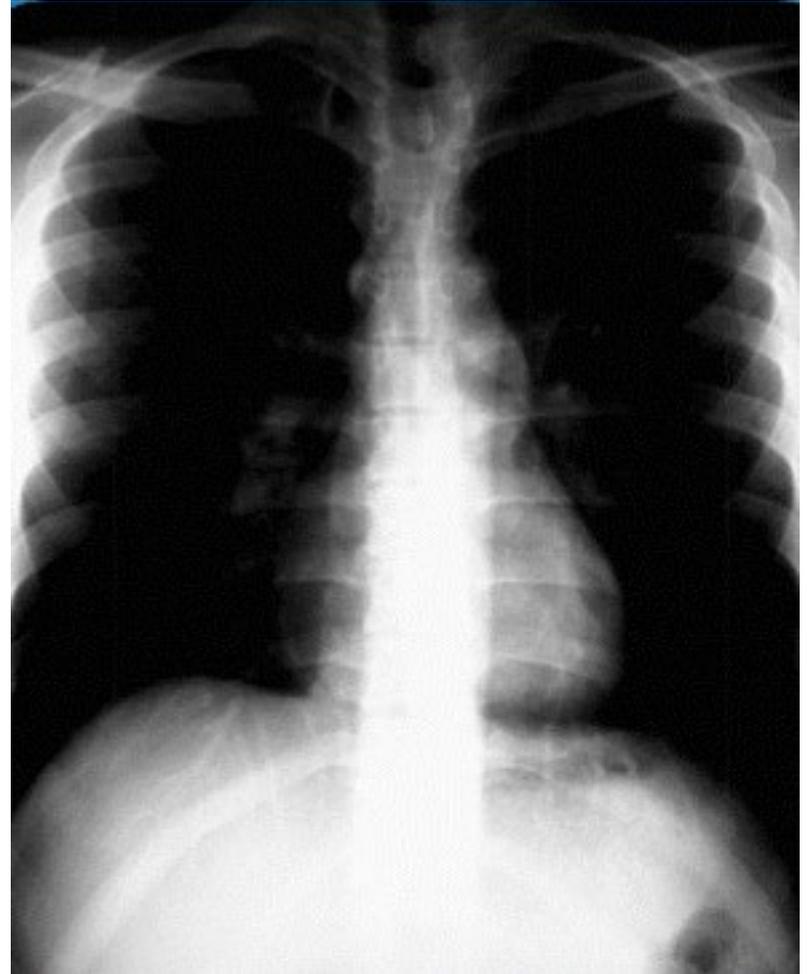
GENERAL CRITERIA



- **Penetration** - through trachea transparency - only see the first three, four thoracic vertebrae - the dorsal spine is not seen due to mediastinal opacity
- An adequate **contrast** between lung fields radiolucency and mediastinal opacity
- **Centralization** - Sterno-clavicular joints (radiolucent joint spaces) must be equal and symmetrical and mediastinal opacity must be located on the midline
- The **scapulae** must not overlap the lung fields
- Lung fields must be contained entirely on the x-ray (including tops, bases, regions or costo-diaphragmatic sinuses);



PENETRATION





CHILD OR ADULT?



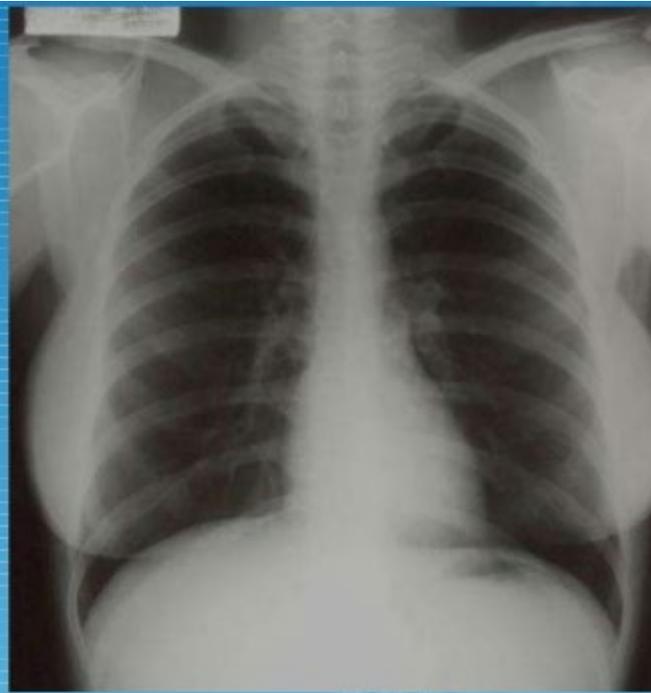
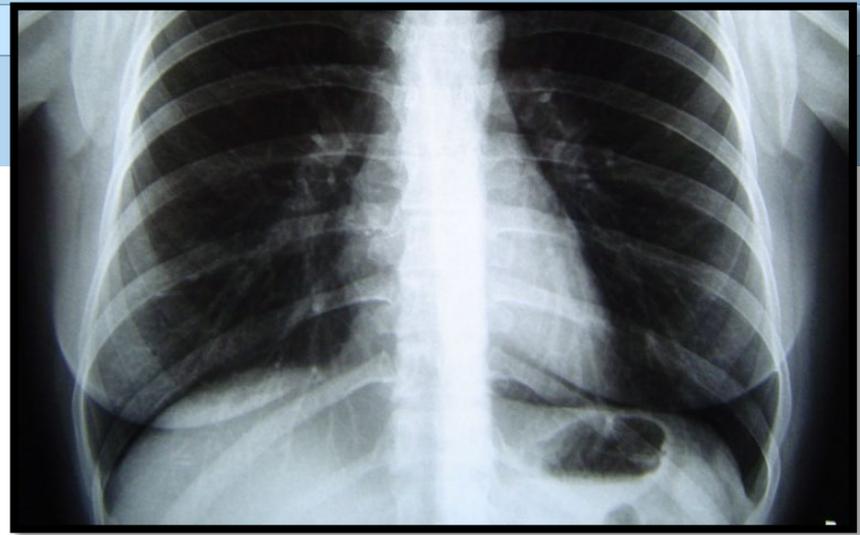
Child



Adult

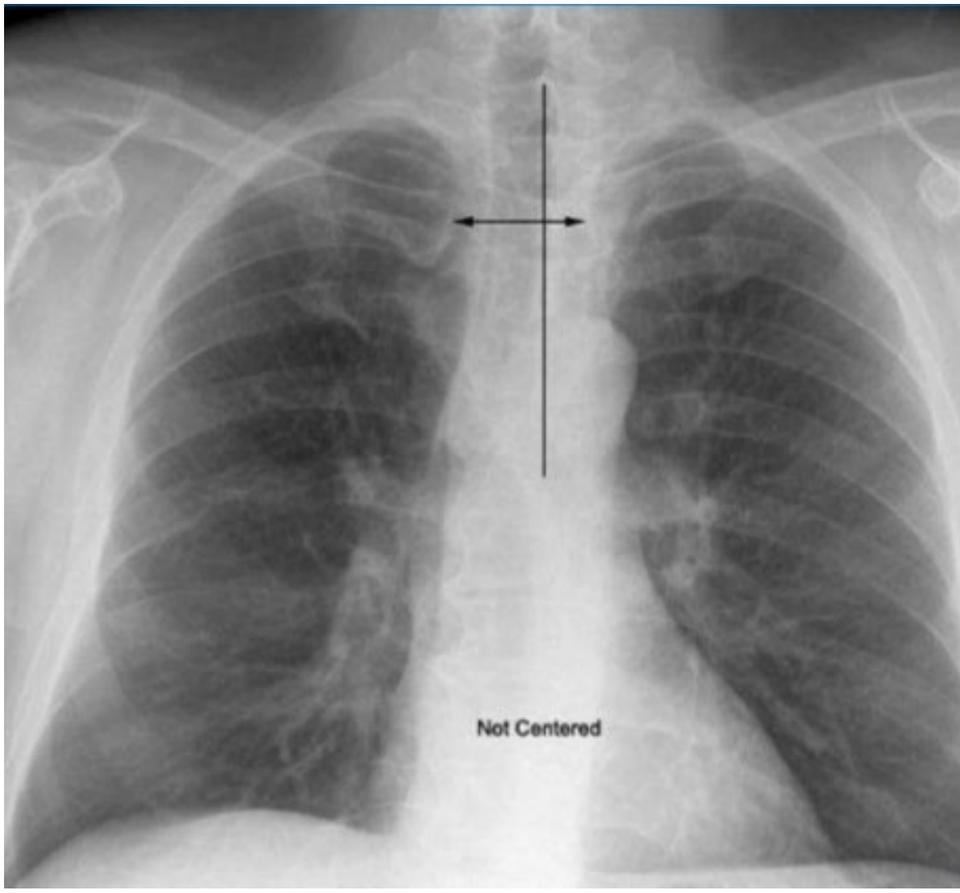
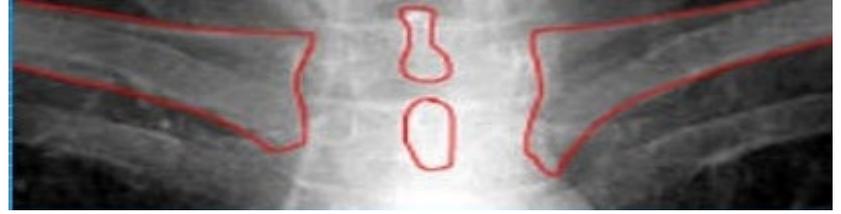


MALE OR FEMALE?





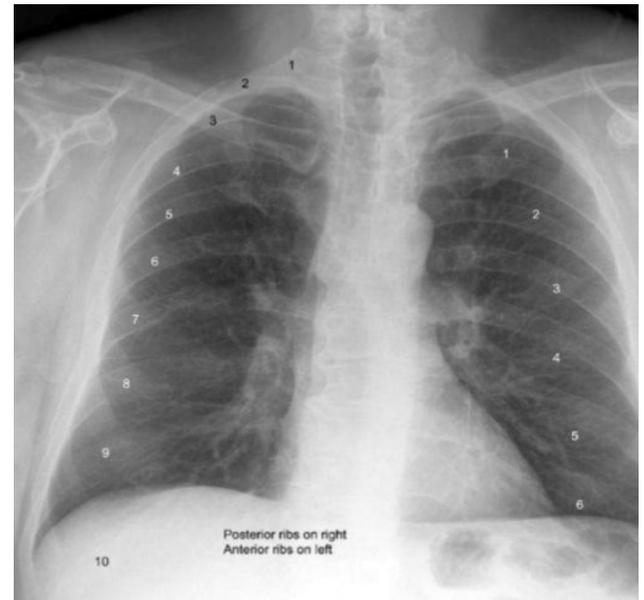
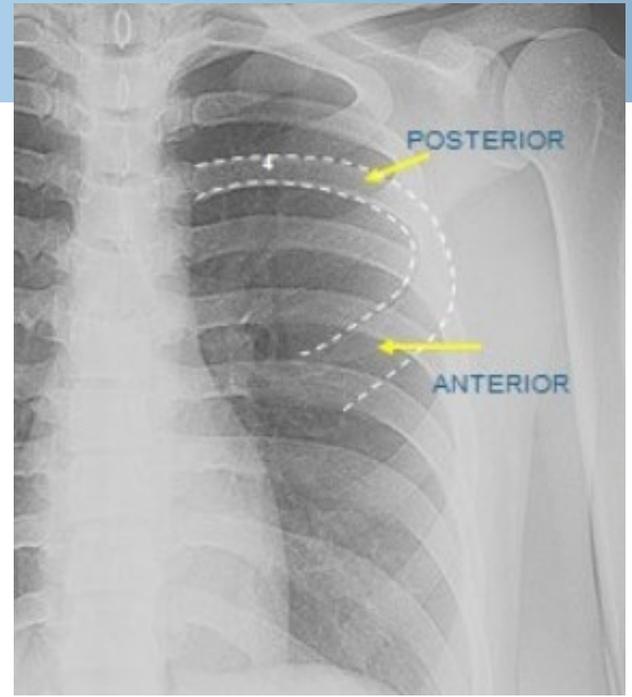
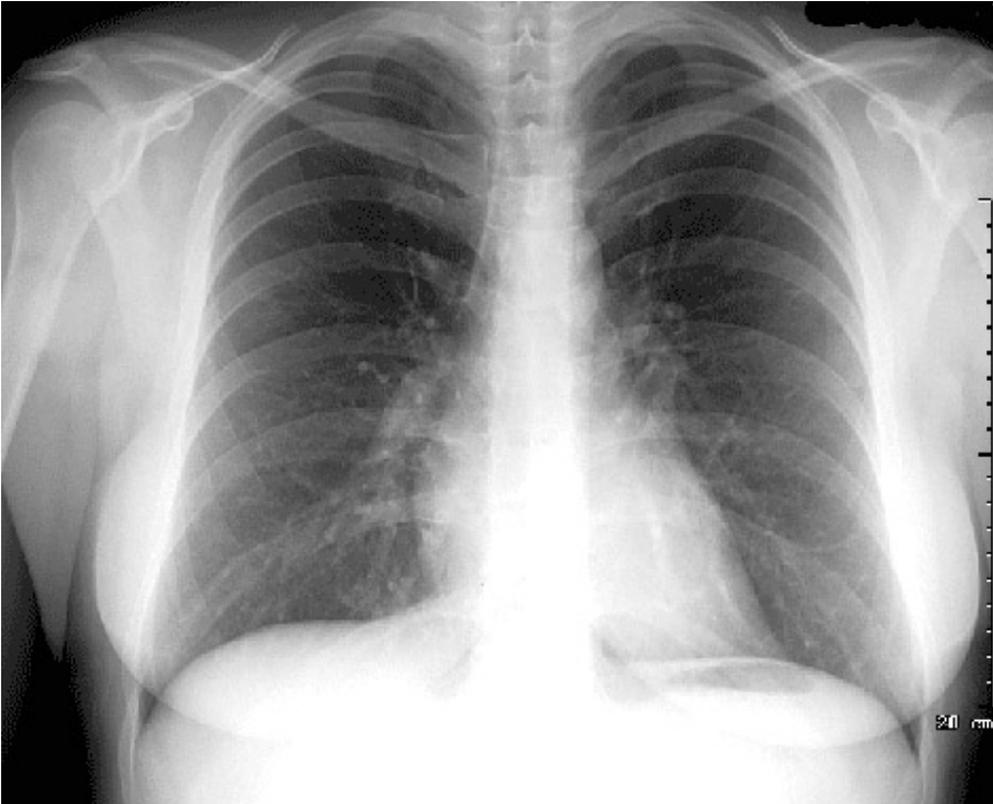
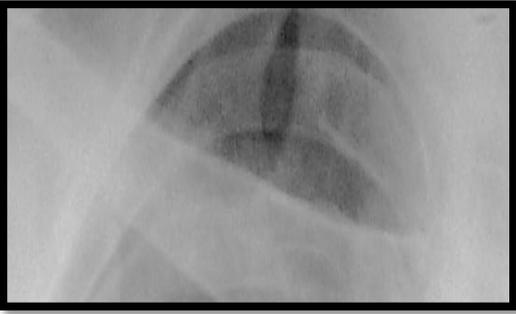
CENTRALIZED OR ROTATED?

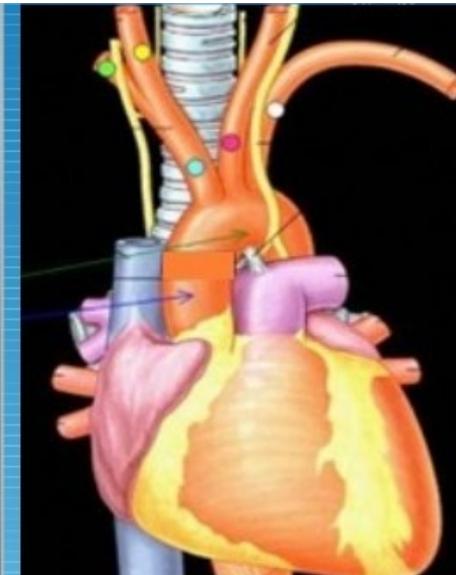
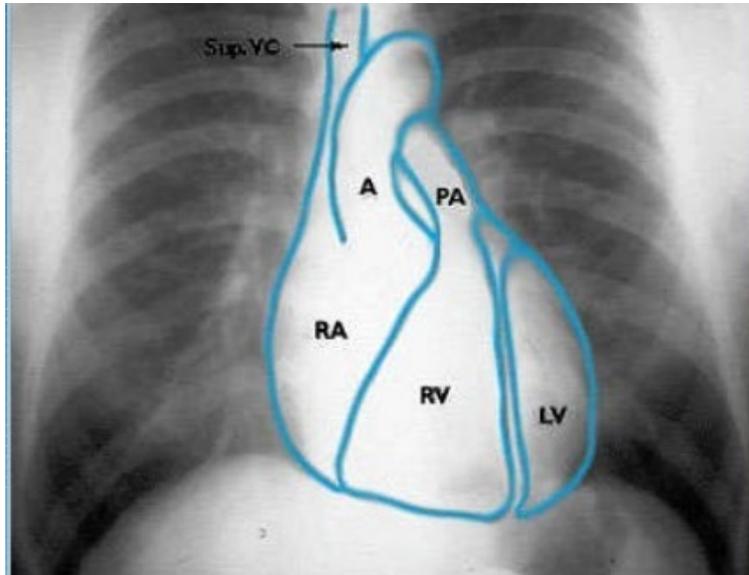
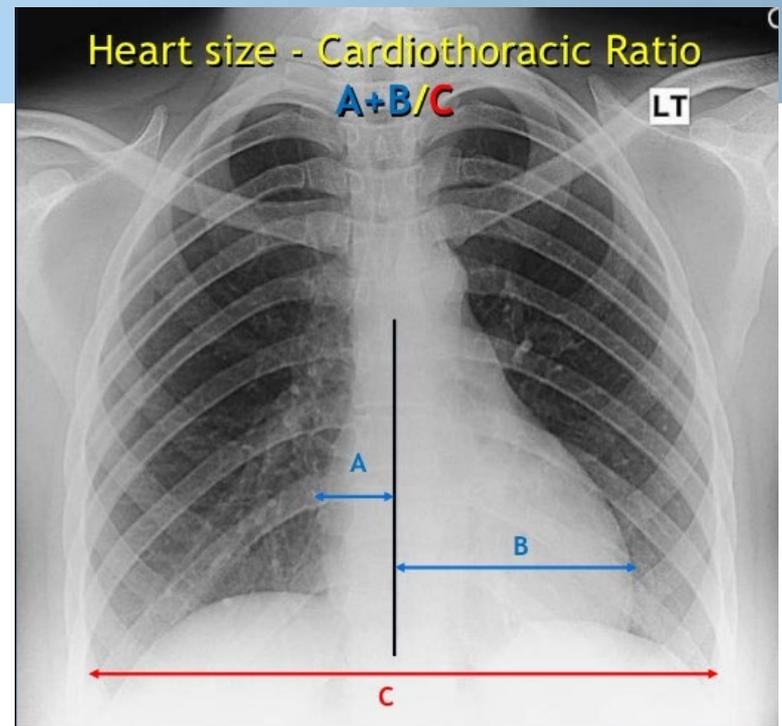
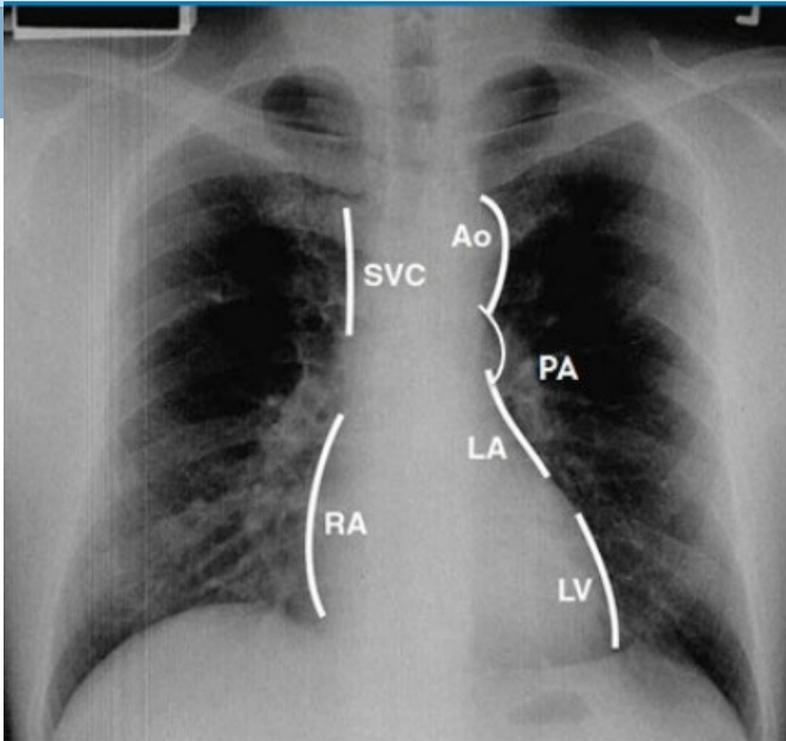




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LATERAL POSITION/ORIENTATION



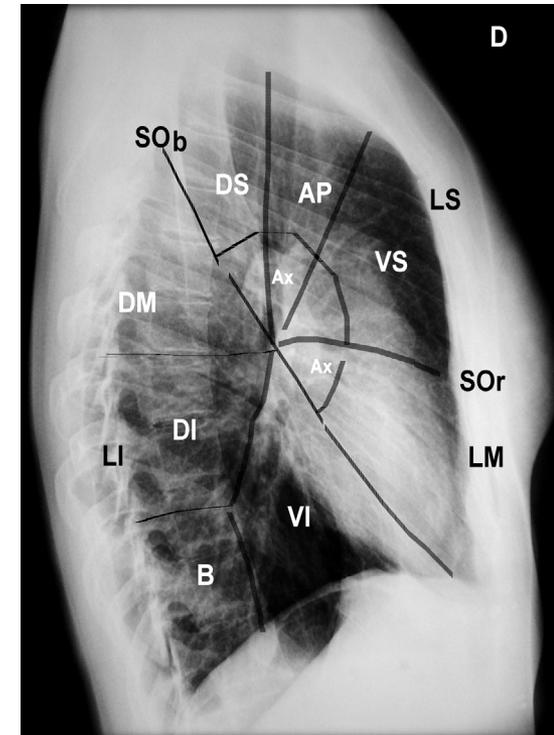
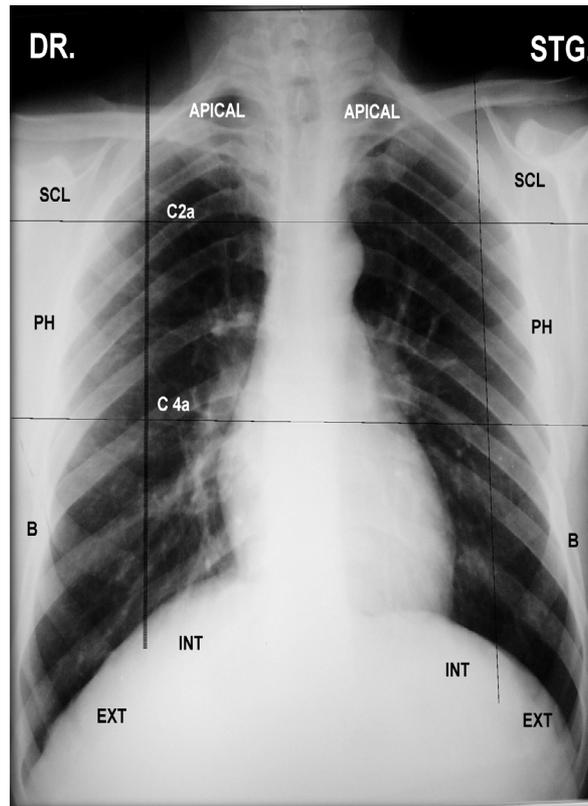
SCRST=retrosternal space,
SCRC=retrocardiac space,
San=breast
St=sternum
VD=right ventricle
AP=pulmonary artery
AS=left atrium
VS=left ventricle
AoASC=ascending aorta;
TAP=pulmonary artery trunk;
AoCr=aortic cross
HDS/HDD= left/right hemidiaphragm
SCDP=posterior costo-diaphragmatic sinus



SEMIOLOGY OPACITY

Semiologic features: **NFLDSICR**

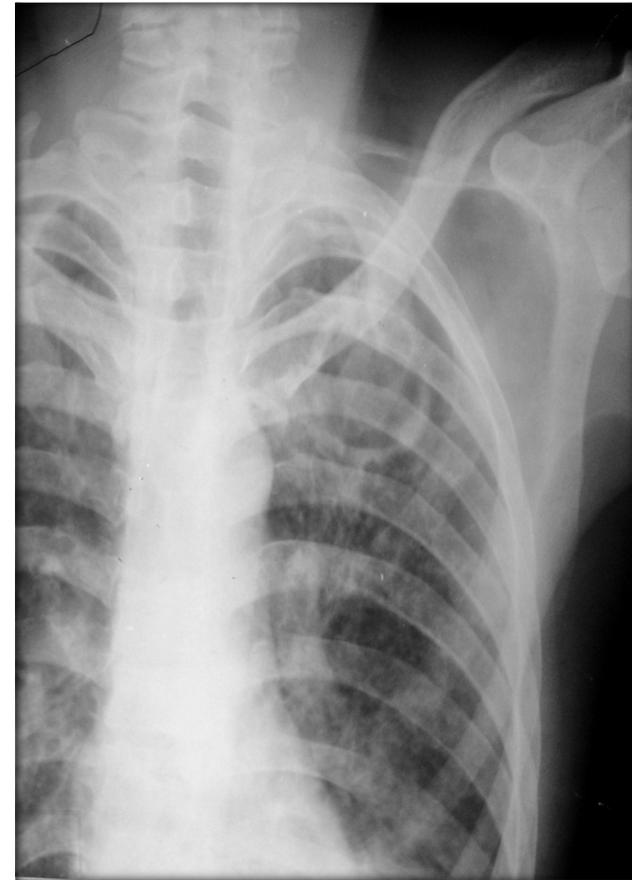
- *Number*;
- *Form (SHAPE)*
- *Localization*
- *Dimensions*
- *Structure*
- *Opacity intensities*
- *Outline (contur)*
- *Relationship* with neighbouring structures





SEMIOLOGY CIRCUMSCRIBED LUCENCY

- number
- localization
- dimensions
- form – round ones: air cyst, emphysema bulbs, tertiary cavity or irregular form: neoplastic cavities, growing bacillary cavities.
- opaque ring circumscribing the image: internal outline, external outline, thickness, its continuity.
- **Ring law** - the thicker the ring circumscribing a hypertransparence image, reduced intensity and more diffuse external outline, the more increased evolutive potential the lesion gets; if the ring gets a clear outline, thinner and more intense, evolutive potential is more reduced (chronic lesion).





SEMIOLOGY MIXED LESIONS

- number
- localization
- dimension
- form – round/oval: unilocular abscesses, irregular – multilocular abscesses
- separation limit – horizontal or waved (opened hydatid cyst).

