



X-ray examinations and the X-ray image

The importance of quality—good film/bad film

What will I gain from this video?

After watching this video, you will be able to differentiate between good and bad quality examinations.

What to look for

What to look for

- Positioning

What to look for

- Positioning
- Degree of inspiration

What to look for

- Positioning
- Degree of inspiration
- Technical exposure factors

What to look for

- Positioning
- Degree of inspiration
- Technical exposure factors
- Sharpness

What to look for

- Positioning
- Degree of inspiration
- Technical exposure factors
- Sharpness
- Artifacts

Position

Centering



Position

Rotation



Assessing for proper positioning on the PA

STEP 1



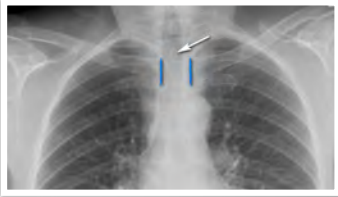
Assessing for proper positioning on the PA

STEP 2



Assessing for proper positioning on the PA

STEP 3



Assessing for proper positioning on the PA

STEP 4



Assessing for proper positioning on the LAT

STEP 1



Assessing for proper positioning on the LAT

STEP 2



Assessing for proper positioning on the LAT

STEP 3



Inspiration



Inspiration

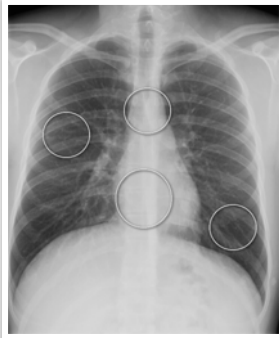


Technical exposure





Assessing for proper exposure



Motion



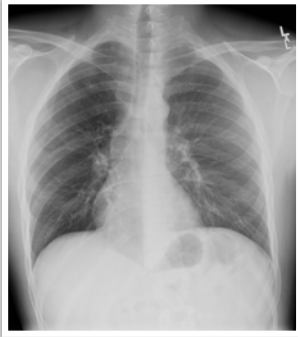
Artifacts



Case 1



Case 2



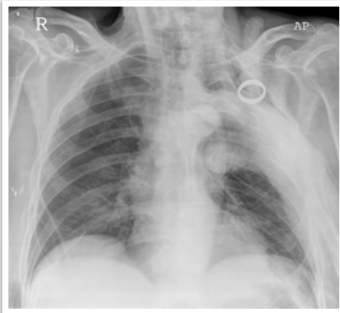
Case 3



Case 4



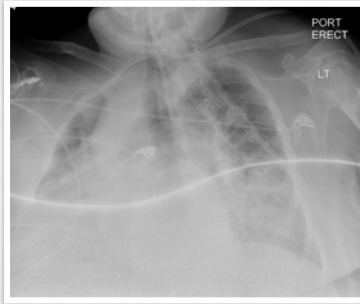
Case 5



Case 6



Case 7



A good quality examination:

Frontal radiographs

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Frontal radiographs

- Inclusion of all thoracic structures from larynx to costophrenic angles

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Frontal radiographs

- Inclusion of all thoracic structures from larynx to costophrenic angles
- Full inspiration with diaphragm below posterior ninth/tenth ribs
- Can see the 10th vertebral body through the heart

A good quality examination:

Frontal radiographs

- Inclusion of all thoracic structures from larynx to costophrenic angles
- Full inspiration with diaphragm below posterior ninth/tenth ribs
- Can see the 10th vertebral body through the heart
- Can see the pulmonary vessels through the heart

A good quality examination:

Lateral radiographs

- Inclusion of all parts of the lungs from sternum to posterior ribs
- Inclusion of apices and posterior costovertebral angles
