

What will I gain from this video?

After watching this video, you will know how to identify common mediastinal abnormalities.

The radiological mediastinum is abnormal when:

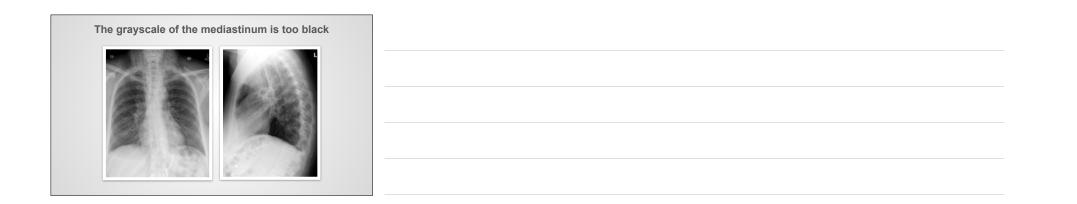
- The **grayscale** image of the mediastinum is too white or too black
- The size or shape of the mediastinum is altered
- The **position** of the mediastinum is shifted

Tumor Calcification Hiatus hernia			
Mediastinal lipomatosis			



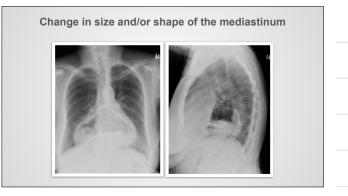
What causes the mediastinum to be too black?

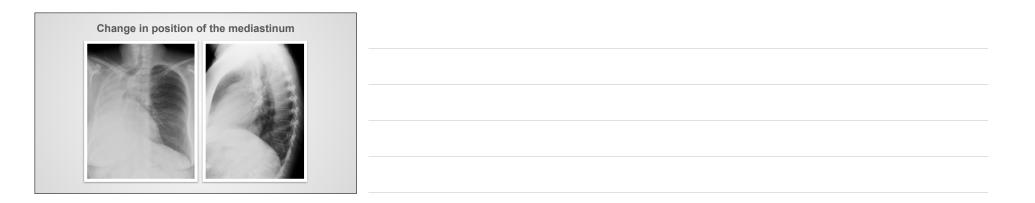
Air
Hiatus hernia



What changes the size and/or shape of the mediastinum?

- Tumor
- Adenopathy
- Goiter
- Aneurysm
- Unfolded (ectatic) aorta









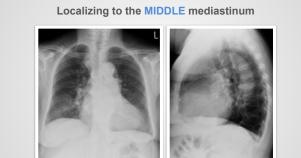




Think "5T"s!
Thyroid—goiter, thyroid tumor
Thymoma
Teratoma
Testicular carcinoma metastases
Terrible lymphoma

Also consider the possibility of aneurysm of the ascending aorta or mediastinal lipomatosis!





Differential diagnosis within the MIDDLE mediastinum

Think "anatomical structures"!

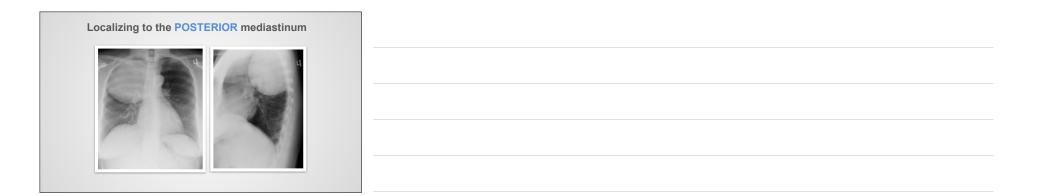
Nodes (adenopathy)—related to sarcoidosis, lymphoma, infection, metastatic disease

Bronchi-bronchogenic carcinoma, carcinoid

Esophagus—leiomyoma, carcinoma, hiatus hernia

Aorta-aneurysm, ectasia

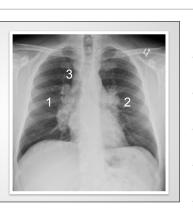
Great vessels-aneurysm, ectasia



Differential diagnosis within the POSTERIOR mediastinum		
Think "nerves"!		
Nerves—neuroma, schwannoma, ganglioneuroma		
Nodes (adenopathy)—related to sarcoidosis, lymphoma, infection, metastatic disease		
Vascular—aortic aneurysm		
Paraspinal/spinal abnormalities—abscess, metastatic disease		

Radiological signs related to the mediastinum

1, 2, 3 sign



Radiological signs related to the mediastinum

Hilar overlay sign

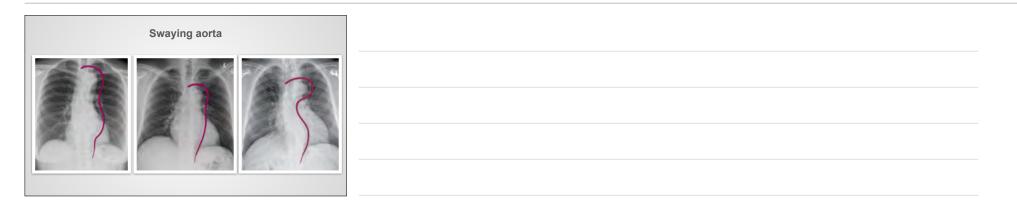












When looking for mediastinal pathology look for:

Change in grayscale—too white or too black

When looking for mediastinal pathology look for:

- Change in grayscale—too white or too black
- Change in size and position of the mediastinum

When looking for mediastinal pathology look for:

- Change in grayscale—too white or too black
- Change in size and position of the mediastinum
- Loss of normal edges, lines, stripes

When looking for mediastinal pathology look for:

- Change in grayscale—too white or too black
- Change in size and position of the mediastinum
- Loss of normal edges, lines, stripes
- Additional edges will be formed by pathology

Anterior mediastinal mass: Think 5T's—Thymic lesions,	
Teratoma, Thyroid, Terrible Lymphoma, Testicular cancer metastasis Middle mediastinal mass: Think anatomy	
Posterior mediastinal mass: Think nerves	