

ILO: Pleura

Introduction

Section 3

3A. ANY CLASSIFIABLE PLEURAL ABNORMALITIES?

YES ☐

Complete Sections
3B, 3C

NO ☐ Proceed to
Section 4A

3B. PLEURAL PLAQUES *(mark site, calcification, extent, and width)*

	Site			Calcification			Extent (chest wall; combined for in profile and face on)						Width (in profile only) (3mm minimum width required)					
Chest wall																		
In profile	☐	☐	☐	☐	☐	☐	Up to 1/4 of lateral chest wall = 1						3 to 5 mm = a					
Face on	☐	☐	☐	☐	☐	☐	1/4 to 1/2 of lateral chest wall = 2						5 to 10 mm = b					
							> 1/2 of lateral chest wall = 3						> 10 mm = c					
Diaphragm	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐				
Other site(s)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	1	2	3	1	2	3	a	b	c	a	b	c

3C. COSTOPHRENIC ANGLE OBLITERATION

☐ R ☐ L

Proceed to
Section 3D

NO ☐ Proceed to
Section 4A

3D. DIFFUSE PLEURAL THICKENING *(mark site, calcification, extent, and width)*

	Site			Calcification			Extent (chest wall; combined for in profile and face on)						Width (in profile only) (3mm minimum width required)					
Chest wall																		
In profile	☐	☐	☐	☐	☐	☐	Up to 1/4 of lateral chest wall = 1						3 to 5 mm = a					
Face on	☐	☐	☐	☐	☐	☐	1/4 to 1/2 of lateral chest wall = 2						5 to 10 mm = b					
							> 1/2 of lateral chest wall = 3						> 10 mm = c					
	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐				
	☐	☐	☐	☐	☐	☐	1	2	3	1	2	3	a	b	c	a	b	c

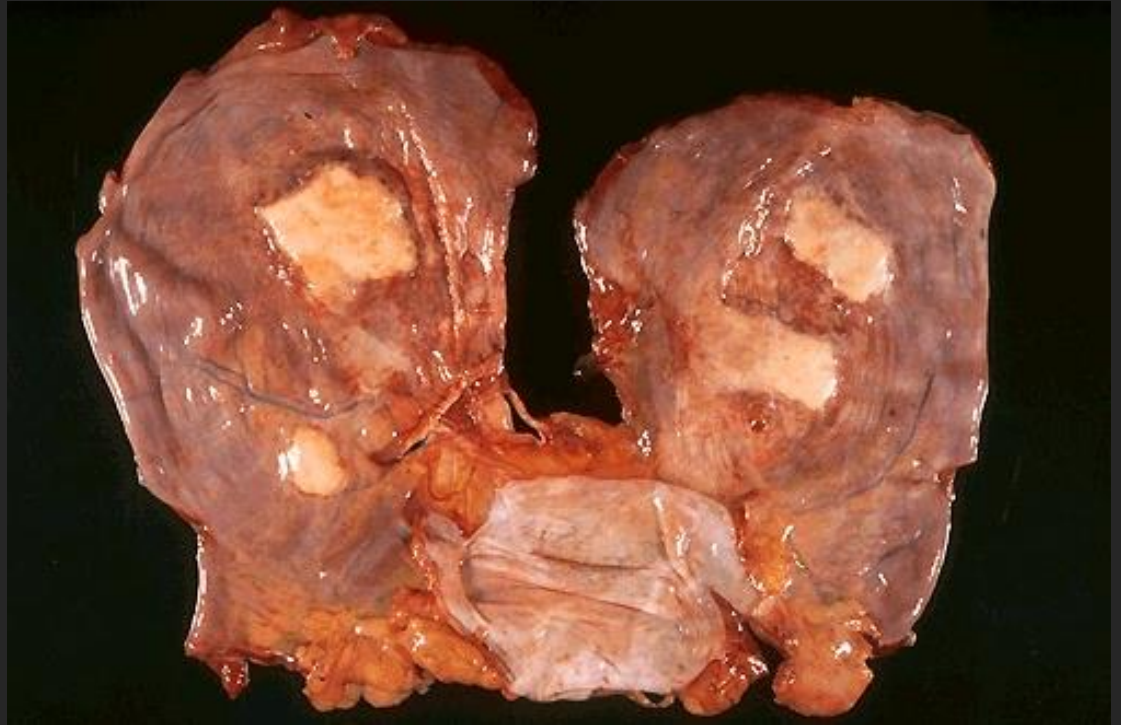
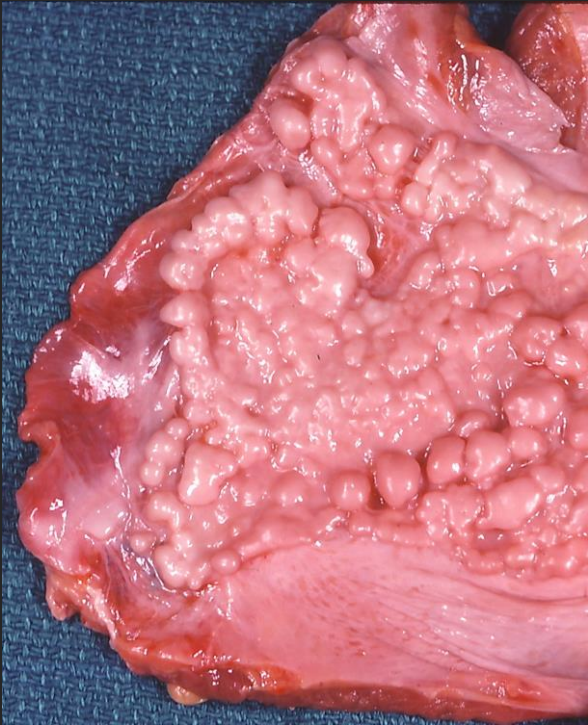
Pleural Abnormalities

- Pleural plaques
 - Localized pleural thickening
 - Asbestos related
- Diffuse pleural thickening
 - Costophrenic sulcus obliteration
 - Not necessarily related to occupational lung disease

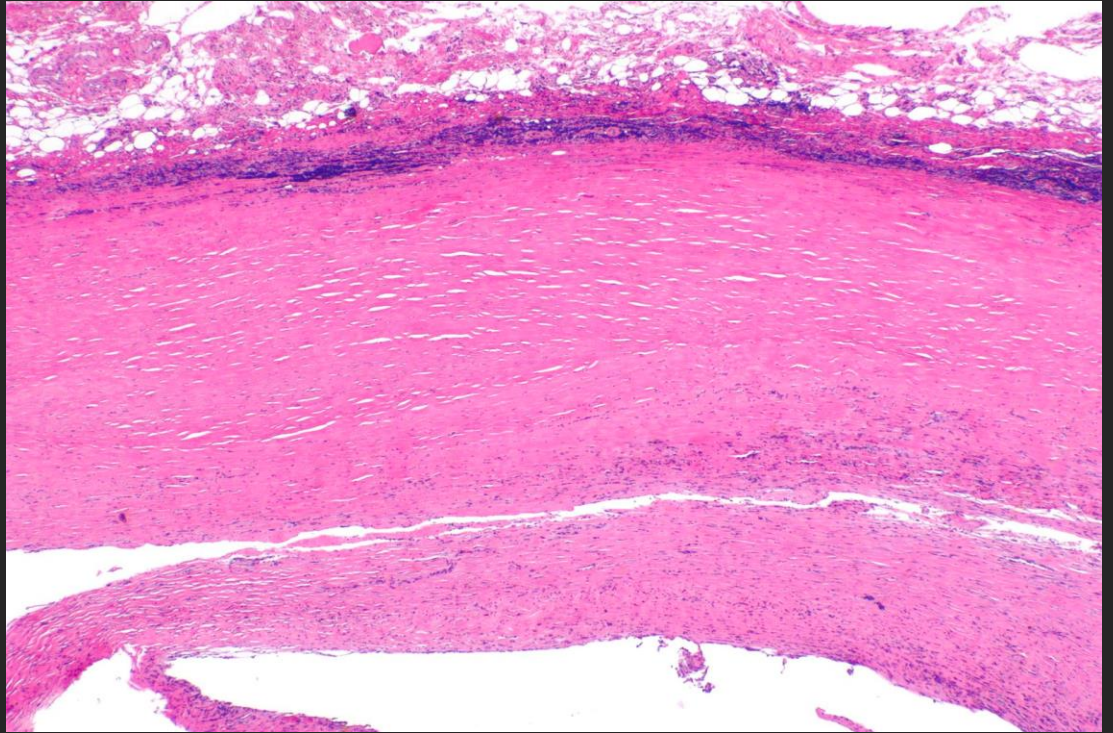
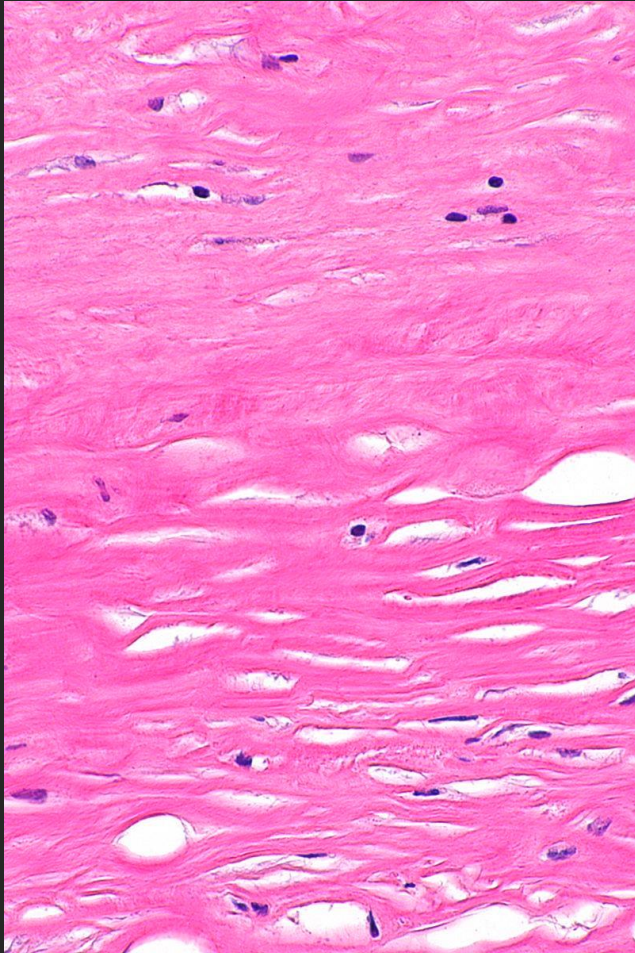
Pleural Plaques

- Usually arise from parietal pleura
- Hyaline collagen
- Acellular or paucicellular
- Not premalignant lesions

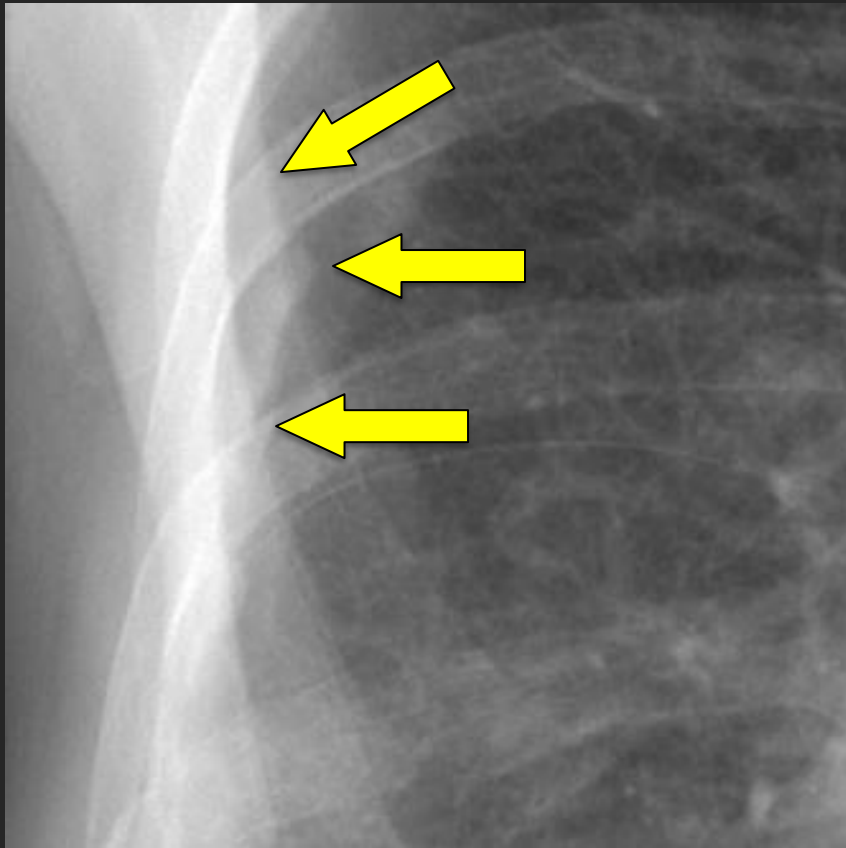
Pleural Plaques



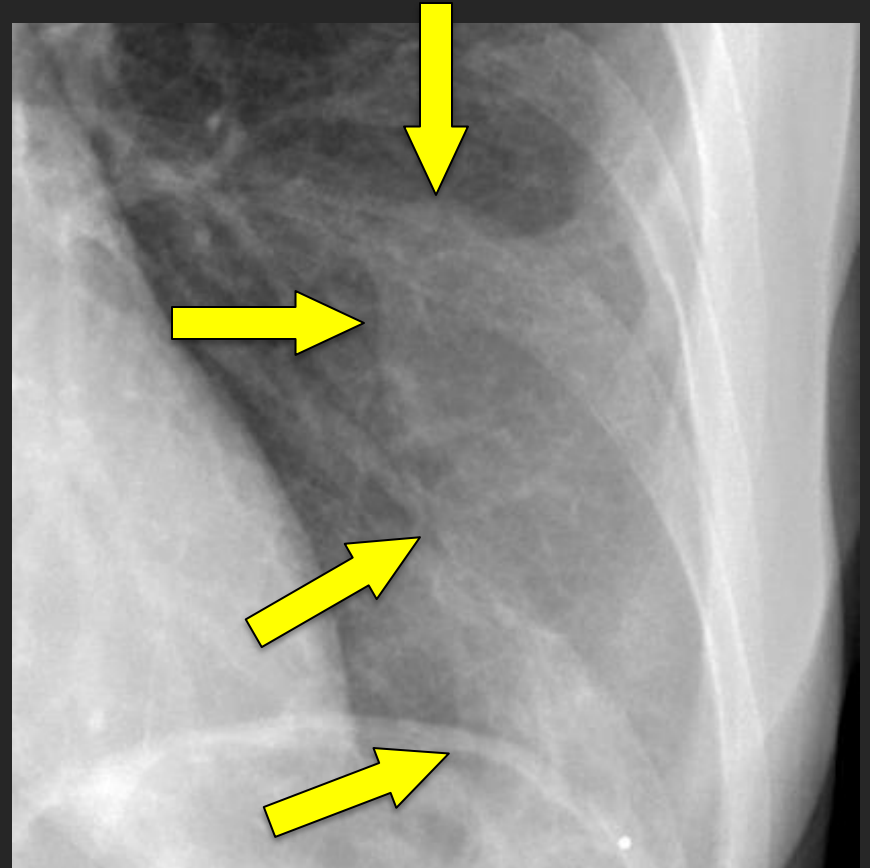
Pleural Plaques



Pleural Plaques

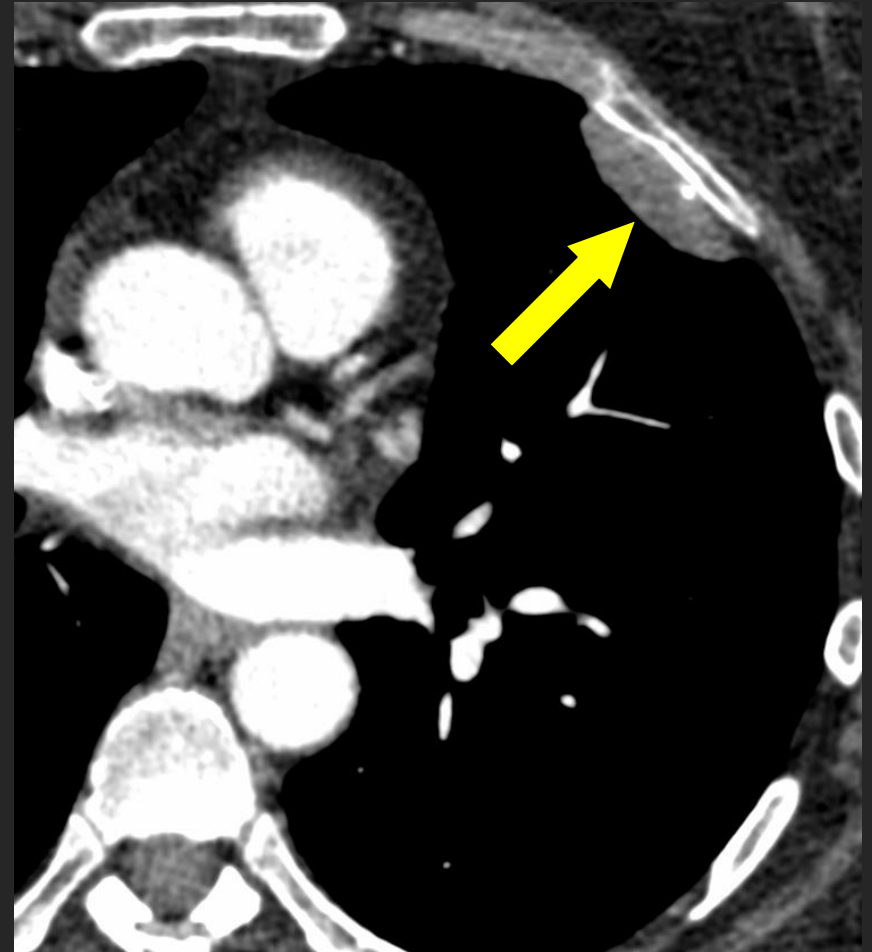
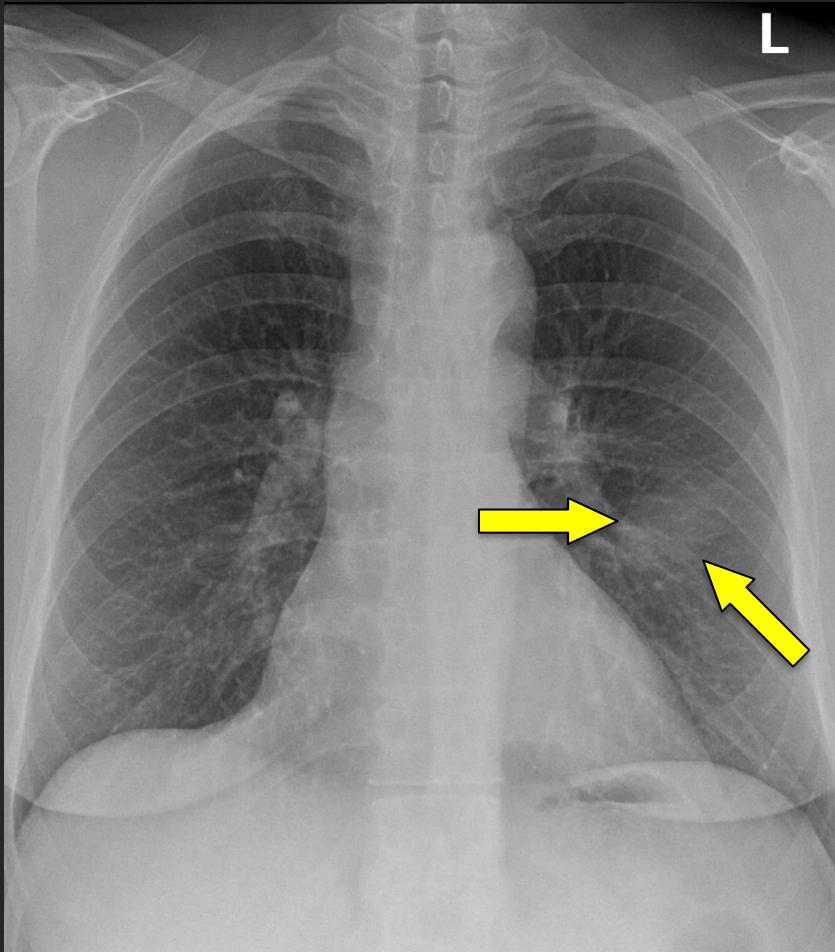


In profile

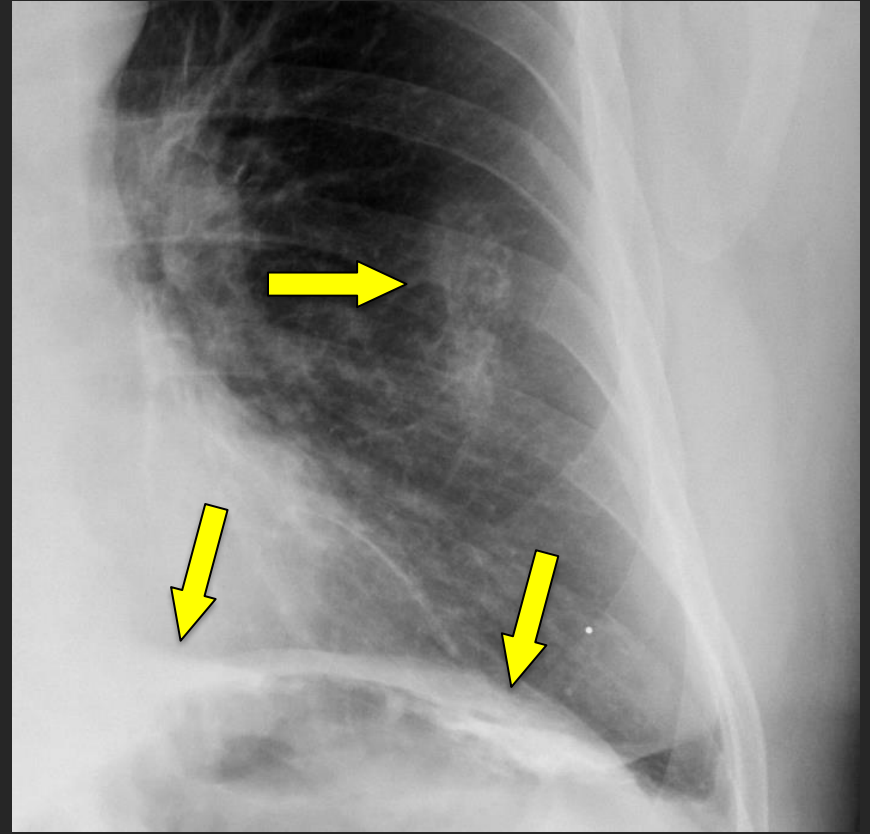


Face on

Pleural Plaques



Pleural Plaques

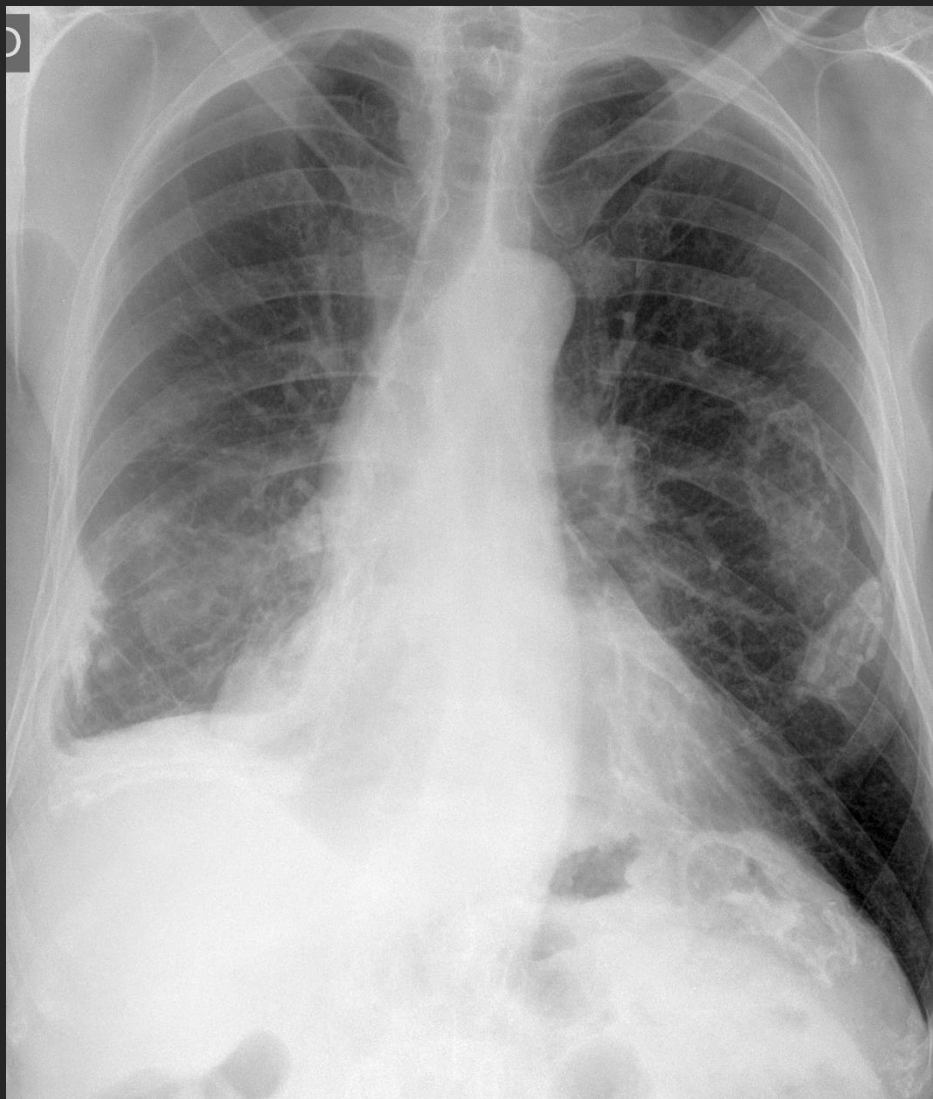


Pleural Plaques

3B. PLEURAL PLAQUES *(mark site, calcification, extent, and distribution)*

Chest wall	<i>Site</i>			<i>Calcification</i>		
In profile	☐ O	☐ R	☐ L	☐ O	☐ R	☐ L
Face on	☐ O	☐ R	☐ L	☐ O	☐ R	☐ L
Diaphragm	☐ O	☐ R	☐ L	☐ O	☐ R	☐ L
Other site(s)	☐ O	☐ R	☐ L	☐ O	☐ R	☐ L

Pleural Plaques



3B. PLEURAL PLAQUES

(mark site, calcification, extent, a

Chest wall

Site

Calcification

In profile

☐ ☒ ☒

☒ ☒ ☐

Face on

☐ ☒ ☒

☐ ☒ ☒

Diaphragm

☐ ☒ ☒

☐ ☒ ☒

Other site(s)

☐ ☒ ☒

☐ ☒ ☒

Extent (chest wall; combined for
in profile and face on)

Up to 1/4 of lateral chest wall = 1

1/4 to 1/2 of lateral chest wall = 2

> 1/2 of lateral chest wall = 3

☐ ☒

☐ ☒

☐ ☒ ☐

☐ ☒ ☐

Width (in profile only)

(3mm minimum width required)

3 to 5 mm = a

5 to 10 mm = b

> 10 mm = c

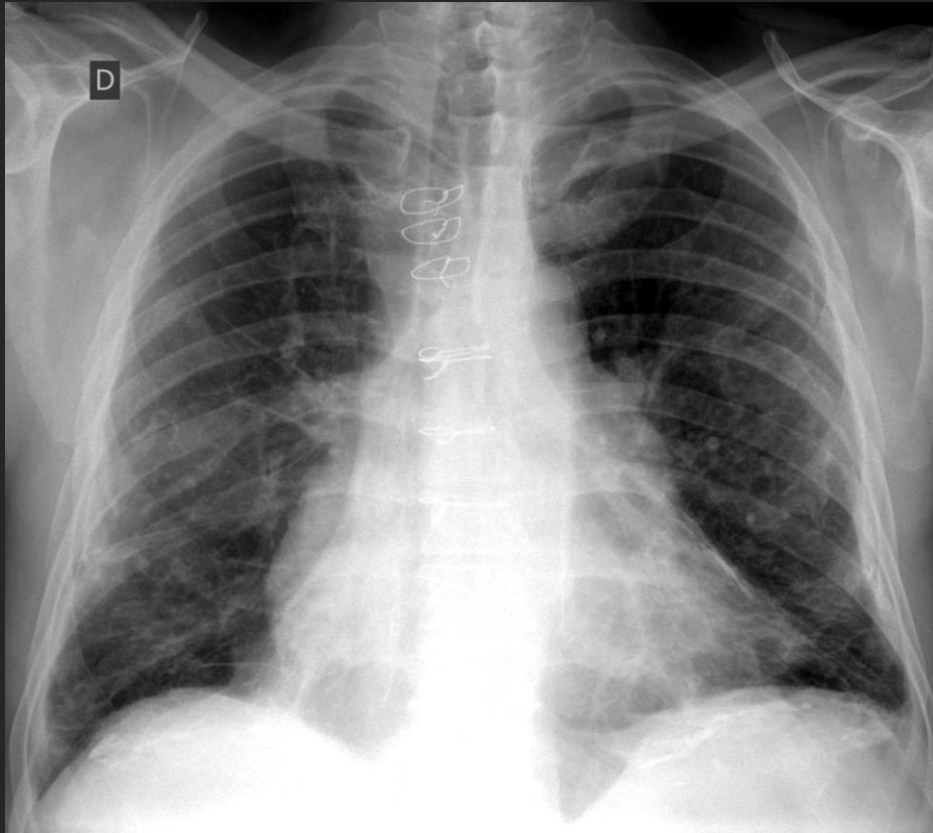
☒ ☒

☐ ☒

☐ ☐ ☐

☒ ☐ ☐

Pleural Plaques



3B. PLEURAL PLAQUES (mark site, calcification, extent, a

Chest wall	Site			Calcification		
In profile	☐	☒	☒	☐	☒	☒
Face on	☐	☒	☒	☐	☒	☒
Diaphragm	☐	☒	☒	☐	☒	☒
Other site(s)	☐	☒	☒	☐	☒	☒

Extent (chest wall; combined for
in profile and face on)

Up to 1/4 of lateral chest wall = 1
1/4 to 1/2 of lateral chest wall = 2
> 1/2 of lateral chest wall = 3

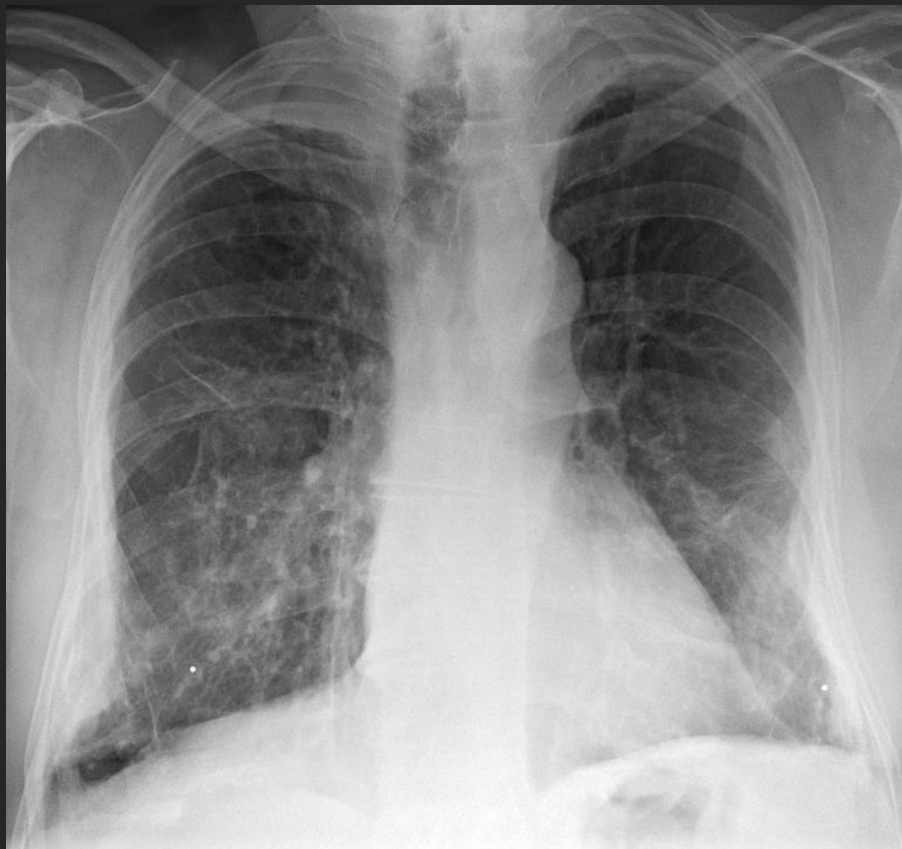
☐	☒		☐	☒	
1	2	☒	1	2	☒

Width (in profile only)
(3mm minimum width required)

3 to 5 mm = a
5 to 10 mm = b
> 10 mm = c

☐	☒		☐	☒	
☒	b	c	a	☒	c

Pleural Plaques



3B. PLEURAL PLAQUES (mark site, calcification, extent, a

	Site			Calcification		
Chest wall						
In profile	☐	☒	☒	☐	☒	☒
Face on	☐	☒	☒	☐	☒	☒
Diaphragm	☐	☒	☒	☐	☒	☒
Other site(s)	☐	☒	☐	☐	☒	☐

Extent (chest wall; combined for in profile and face on)

- Up to 1/4 of lateral chest wall = 1
- 1/4 to 1/2 of lateral chest wall = 2
- > 1/2 of lateral chest wall = 3

☐	☒		☐	☒
1	2	☒	1	2

Width (in profile only)
(3mm minimum width required)

- 3 to 5 mm = a
- 5 to 10 mm = b
- > 10 mm = c

☐	☒		☐	☒
a	b	☒	a	b

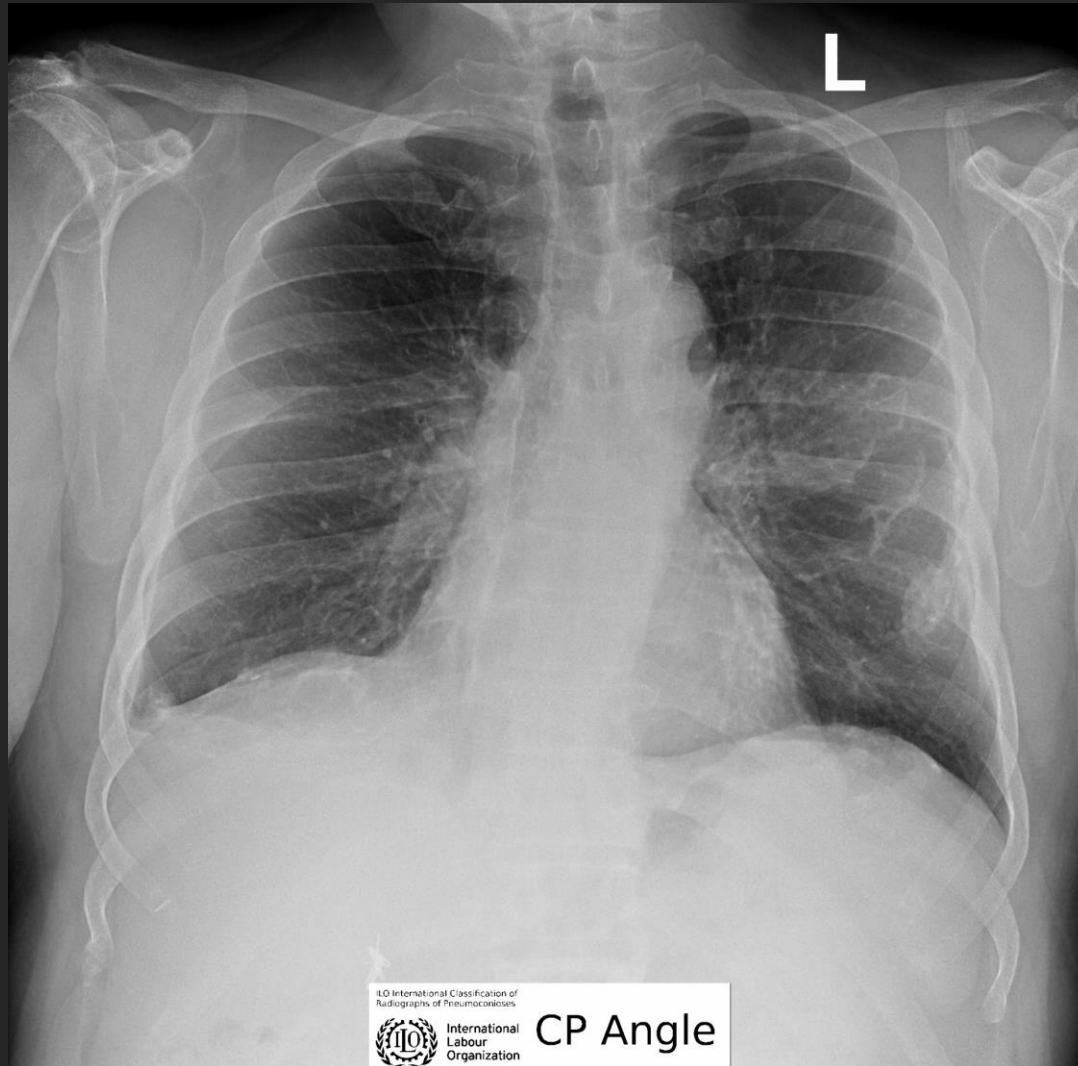
Diffuse Pleural Thickening

- Typically refers to visceral pleural thickening
- ILO classification requires costophrenic sulcus obliteration and thickening in continuity with sulcus
- Visible apical pleura should not be scored (obligatory symbol at)

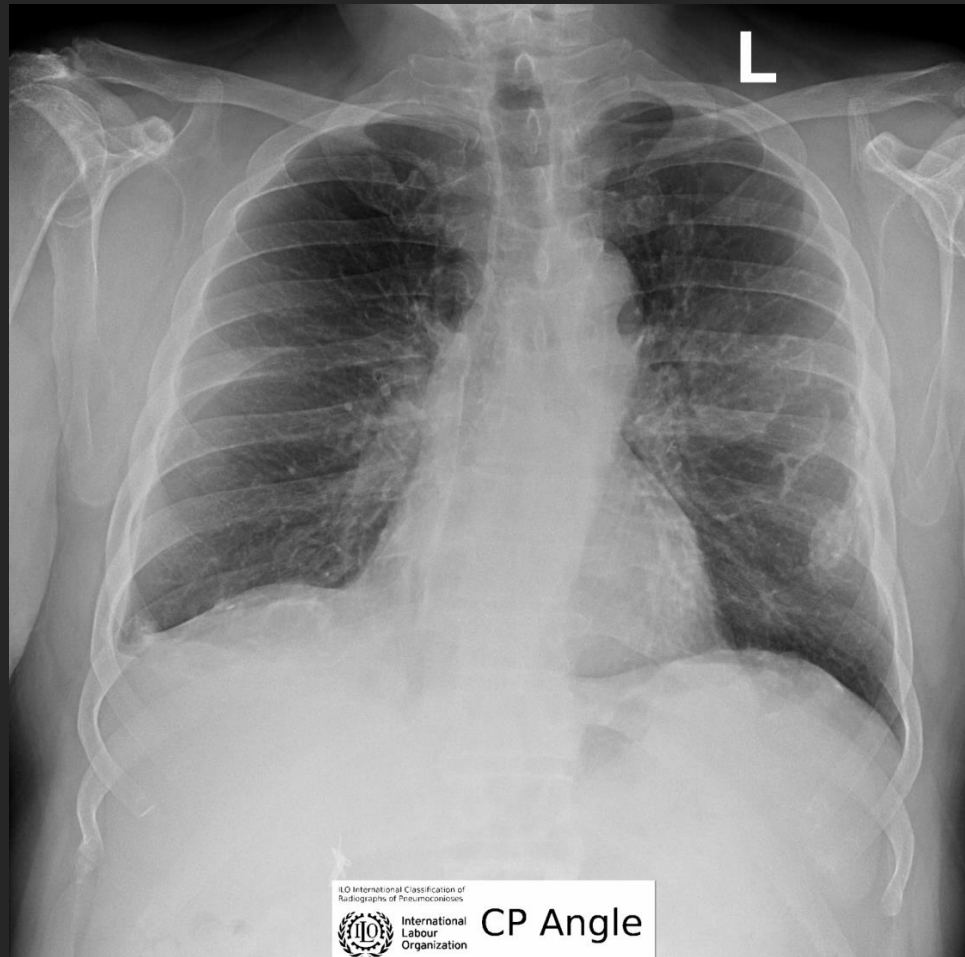
Diffuse Pleural Thickening

- Causes
 - Asbestos
 - Infection (empyema)
 - Trauma (hemothorax)
 - Surgery or instrumentation
 - Connective tissue disease
 - Radiation

Costophrenic Sulcus



Costophrenic Sulcus



3C. COSTOPHRENIC ANGLE OBLITERATION



Proceed to
Section 3D

NO



Proceed to
Section 4A

Diffuse Pleural Thickening



Diffuse Pleural Thickening



3C. COSTOPHRENIC ANGLE OBLITERATION



3D. DIFFUSE PLEURAL THICKENING (mark site, calcification, extent, and width)

	Site			Calcification		
Chest wall						
In profile	O	X	L	X	R	L
Face on	O	X	L	X	R	L

Diffuse Pleural Thickening

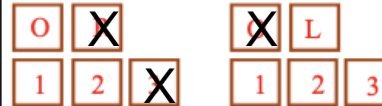


*Extent (chest wall; combined for
in profile and face on)*

Up to 1/4 of lateral chest wall = 1

1/4 to 1/2 of lateral chest wall = 2

> 1/2 of lateral chest wall = 3



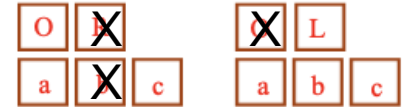
Width (in profile only)

(3mm minimum width required)

3 to 5 mm = a

5 to 10 mm = b

> 10 mm = c



Diffuse Pleural Thickening



Diffuse Pleural Thickening



3C. COSTOPHRENIC ANGLE OBLITERATION



3D. DIFFUSE PLEURAL THICKENING *(mark site, calcification, extent, and width)*

	Site			Calcification		
Chest wall						
In profile	☐	☒	☒	☐	☒	☒
Face on	☐	☒	☒	☐	☒	☒

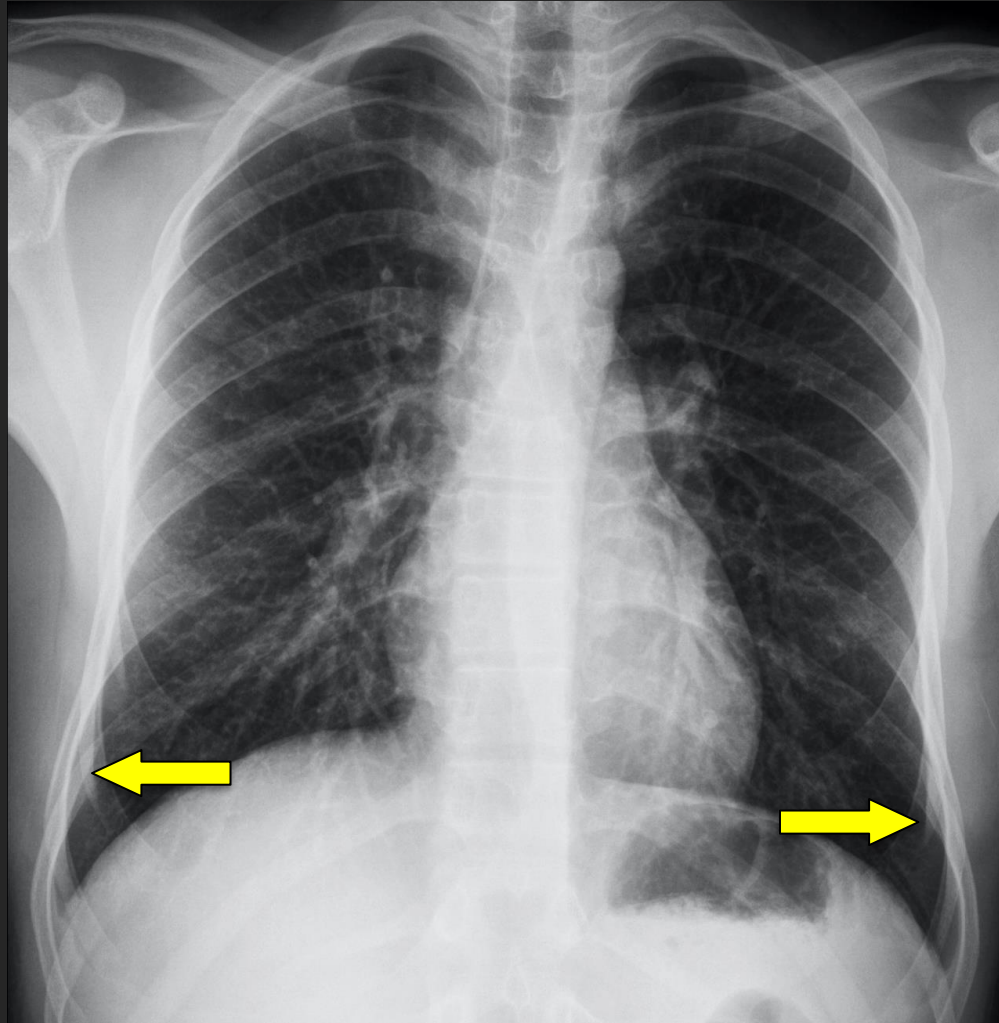
Diffuse Pleural Thickening



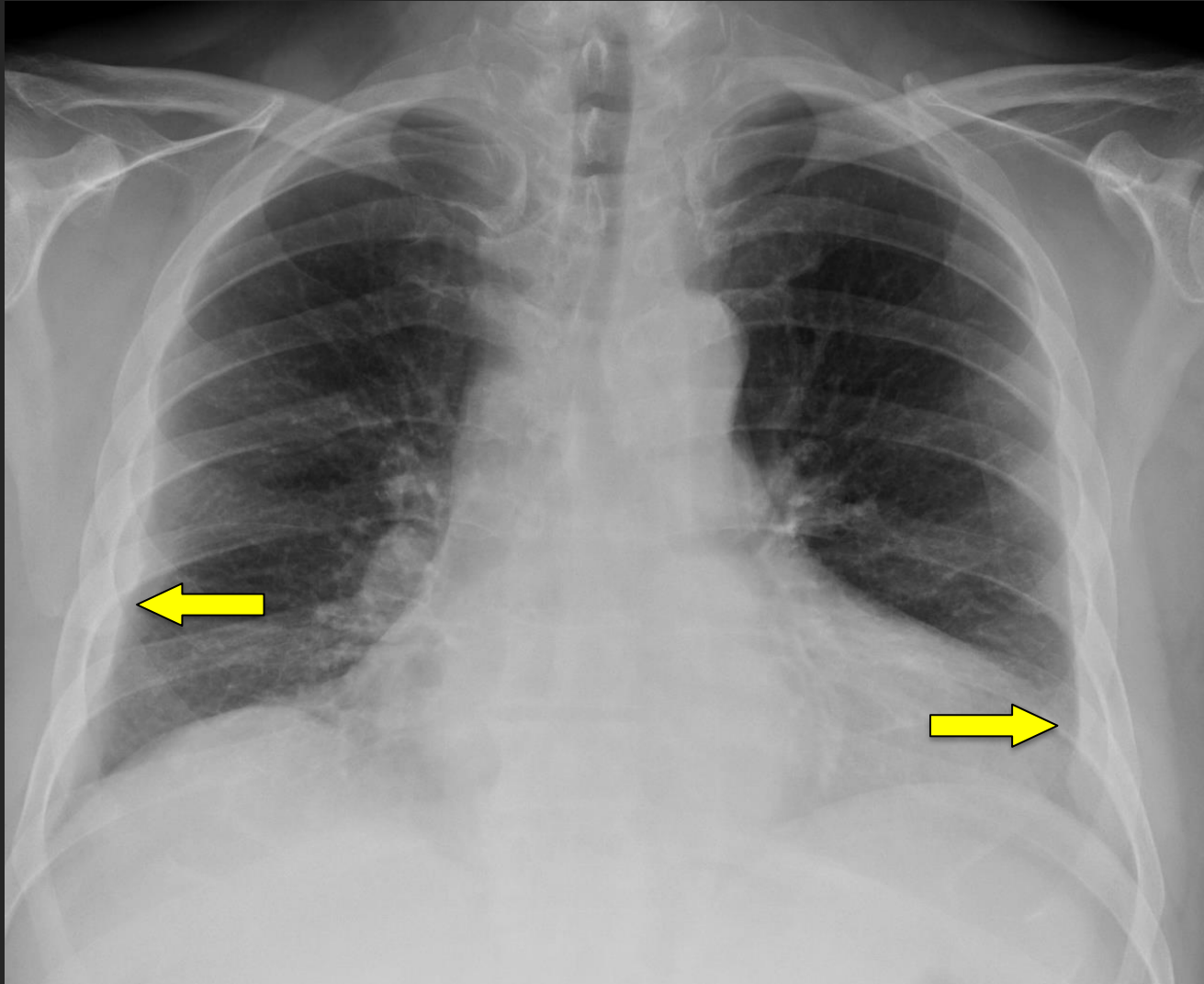
<i>Extent (chest wall; combined for in profile and face on)</i> Up to 1/4 of lateral chest wall = 1 1/4 to 1/2 of lateral chest wall = 2 > 1/2 of lateral chest wall = 3			<i>Width (in profile only)</i> (3mm minimum width required) 3 to 5 mm = a 5 to 10 mm = b > 10 mm = c		
☐	☒	☐	☐	☒	☐
☐	☐	☒	☐	☐	☒

Plaque would also be scored
at would be selected under obligatory symbols

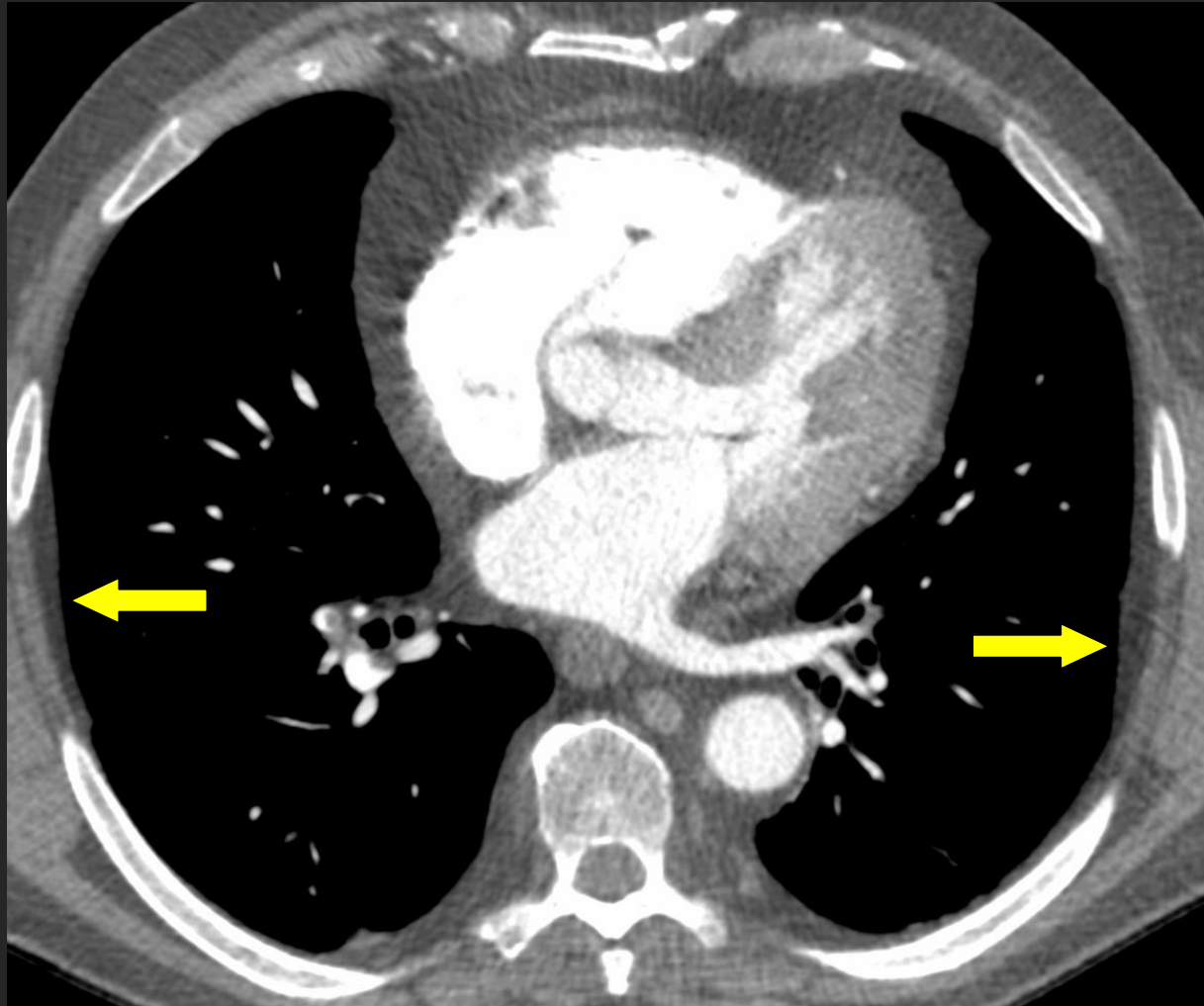
Intercostal Muscles



Extrapleural Fat



Extrapleural Fat



Muscle Slip

