



Atelectasis and collapse

Types of atelectasis

What will I gain from this video?

After watching this video, you will know how to classify and identify different types of atelectasis on a chest X-ray.

Atelectasis

The Fleischner Society describes atelectasis as reduced inflation of all, or part, of the lung.

'Collapse' is used interchangeably with atelectasis, but usually suggests a more severe form of atelectasis.

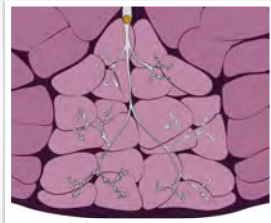
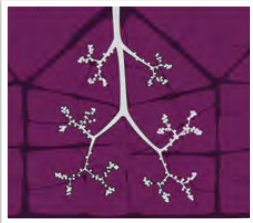
¹Tuddenham, W. (1984). *AJR Am. J. Roentgenol.*, 143:509-517.

Types of atelectasis

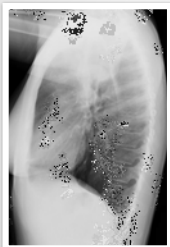
Based on cause:

1. Postobstructive atelectasis
2. Compressive atelectasis
3. Cicatricial or rounded atelectasis
4. Adhesive atelectasis
5. Passive atelectasis

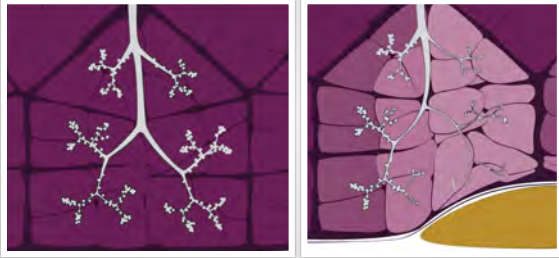
Postobstructive atelectasis



Postobstructive atelectasis



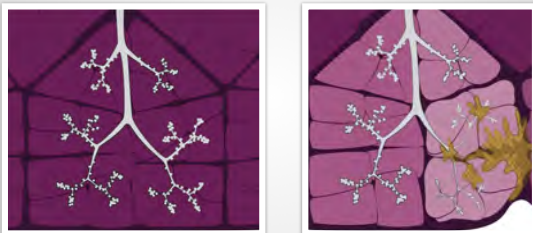
Compressive atelectasis



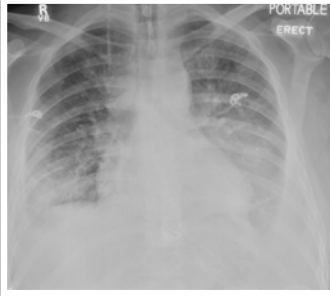
Compressive atelectasis



Cicatricial atelectasis



Adhesive atelectasis



Passive atelectasis

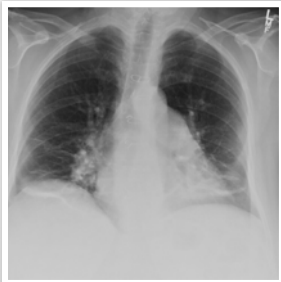


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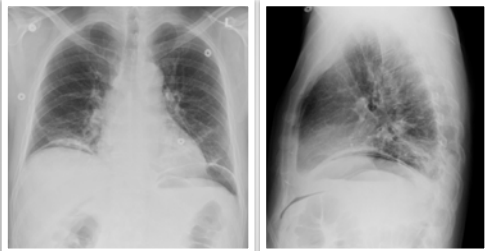
Based on extent of lung involvement:

1. Subsegmental/segmental
2. Lobar
3. Entire lung

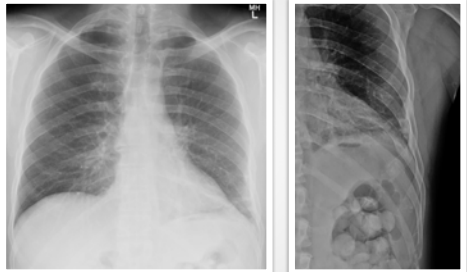
Subsegmental/segmental atelectasis



Case 1



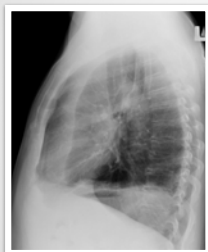
Case 2



Case 3



Case 4



Case 5



Causes of volume loss in the lungs:

- Obstruction of airway (think endobronchial lesion)
- Compression of lung
- Scarring of lung
- Loss of lung surfactant (ARDS)
- Loss of negative pressure in pleural space
