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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 64452

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Observational Study

Quantification analysis of pleural line movement for the diagnosis of pneumothorax

Quantify pleural line diagnosis pneumothorax

Rui Xiao, Qiang Shao, Ning Zhao, Fen Liu, Kejian Qian

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When the **diagnosis** of a **pneumothorax** is suspected, the **scan** should start with the upper and lower anterior points bilaterally. Perform a full assessment of the pleura beneath the anterior chest wall, before moving to the lateral and posterior areas. The US signs of a **pneumothorax** are: • Absence of **pleural sliding** • Absence of sliding B-lines

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4786248>

In normal M-mode imaging, horizontal movement along the **pleural line** will cause granular or speckled artifacts to appear below the **pleural line** resembling a sandy beach, also known as the seashore sign. 21 With PTX, absence of motion due to interposed air will create a barcode pattern with linear artifacts below the **pleural line**, known as the stratosphere sign. 21 The M-mode algorithm first identifies the **pleural line** ...

Cited by: 3

Author: Shane M Summers, Eric J Chin, Brit J Long,...

Publish Year: 2016

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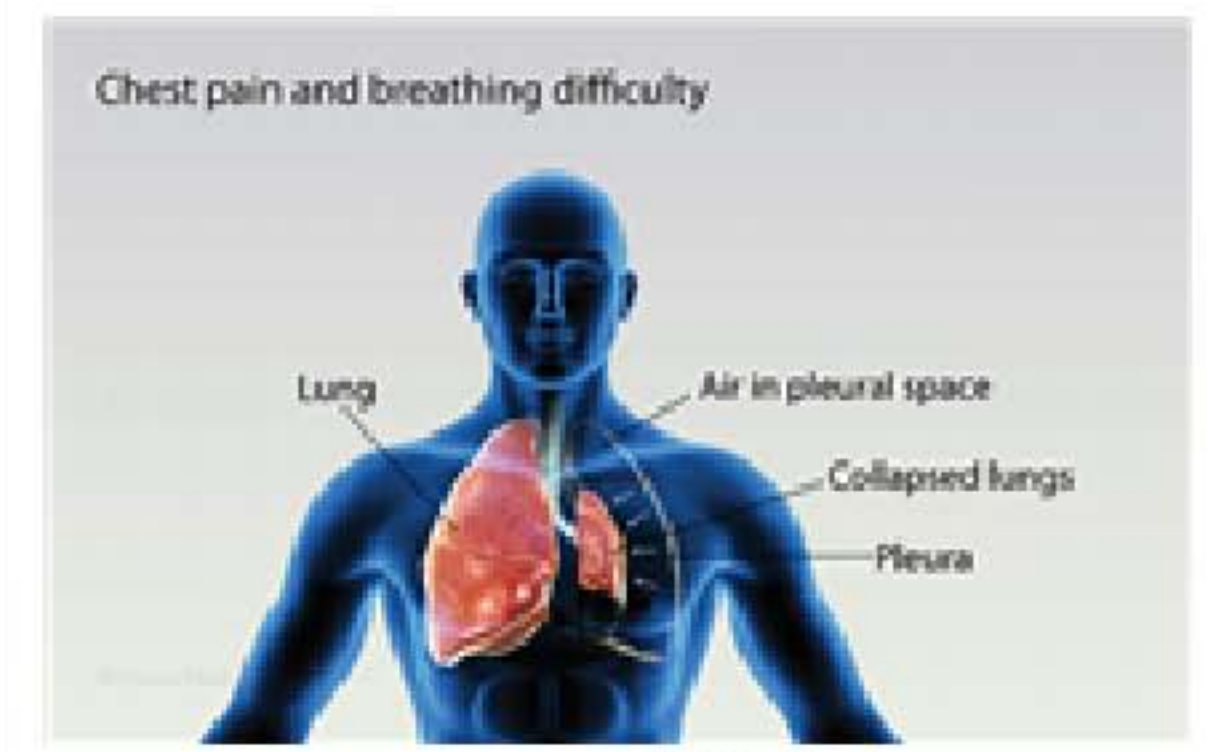
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Pneumothorax

Medical Condition



A collapsed lung that occurs when air enters into the pleural cavity, the space around lungs. This causes pain in the chest and difficulty in breathing.

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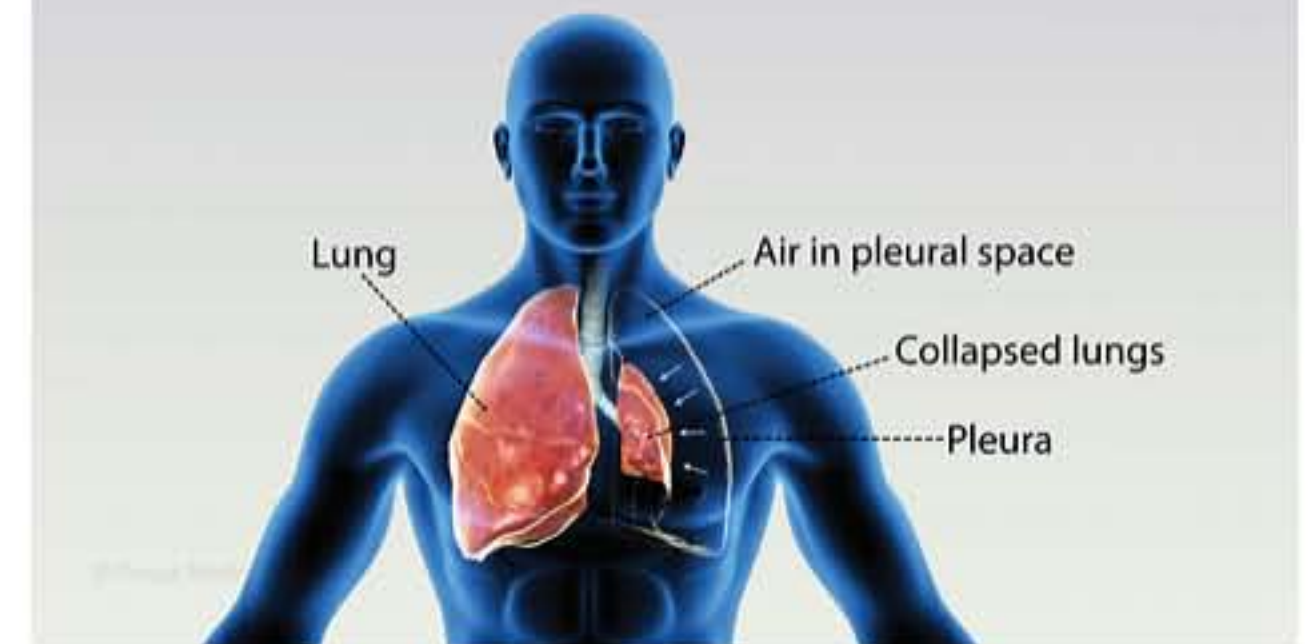
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Pneumothorax

Medical Condition


Chest pain and breathing difficulty



A collapsed lung that occurs when air enters into the pleural cavity, the space around lungs. This causes pain in the chest and difficulty in breathing.

 Rare (Fewer than 200,000 cases per year in US)

 Often requires lab test or imaging

 Treatable by a medical professional

 Can last several days or weeks

Usually caused due to injury or existing lung diseases. Pain in the chest and breathing difficulty are the common symptoms. Treatment aims to relieve the pressure on the lungs and to prevent recurrence.

Symptoms

The symptoms include:

- A steady ache in the chest
- Shortness of breath or dyspnea