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Worst nightmare of chronic silicosis

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Abstract

Simultaneous bilateral pneumothorax is an uncommon presentation and usually occurs in the context of secondary spontaneous pneumothorax. A 45-year-old man diagnosed with complicated silicosis for, with a history of numerous pneumothorax requiring inpatient treatment, is readmitted to the hospital with a new left pneumothorax. After 7 day with a pleural drain, a chest radiography showed a right pneumothorax. A computed tomography confirmed a bilateral pneumothorax, a rare complication of silicoses, requiring thoracic surgery to definitive management.

Keywords: Silicosis; Bilateral pneumothorax; Pleural drain; Thoracic surgery.

Introduction

Silicosis is one of the most frequent occupational diseases caused by inhalation of small particules of crystalline silica. Simultaneous bilateral pneumothorax is an uncommon presentation and usually occurs in the context of secondary spontaneous pneumothorax. The association of pneumothorax and silicosis is infrequent and most cases are unilateral. Bilateral pneumothorax in patients with silicosis is very rare with just a few reports in medical literature.

Case presentation

This case presents a 45-year-old man diagnosed with complicated silicosis for, with a history of numerous pneumothorax requiring inpatient treatment, either left or right-sided, always managed with pleural drains and pleurodesis. He is readmitted with a new left pneumothorax, initially managed with a pleural drain. Seven days later, a control X-ray showed not only the left pneumothorax not yet resolved, but also a right pneumothorax (Figure 1), confirmed later with computed tomography (Figure 2). After a second pleural drain was inserted, the patient was later referred to a specialized center where he was later submitted to thoracic surgery as a definitive treatment.

Conclusion

Secondary spontaneous pneumothorax are associated with chronic silicosis with massive advanced fibrosis and, in most cases, occur unilaterally. Bilateral pneumothorax is rarely seen and mainly observed on accelerated silicosis. It responds very poorly to non-surgical therapy (pleural drains and/or pleurodesis), leaving video-assisted-thoracoscopic surgery (VATS) as the only viable option.

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Figure 1: Chest radiography showing a bilateral pneumothorax.

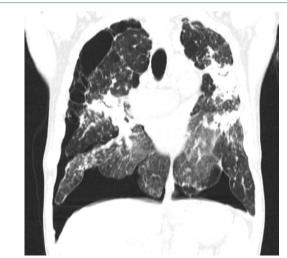


Figure 2: Computed tomography confirming the bilateral pneumothoraxteral pneumothorax.

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