DOI: 10.23937/2474-3674/1510144

Volume 8 | Issue 3 Open Access



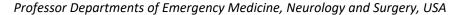
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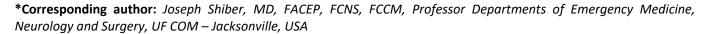
Critical Care and Emergency Medicine

CLINICAL IMAGE

Anaerobic Lung Abscess with Complex Empyema

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A 51-year-old man with advanced ALS and home mechanical ventilator dependence presented with fever, tachycardia, hypotension and leukocytosis. Chest radiograph showed a large left pleural effusion (Figure 1) and an unenhanced chest CT confirmed a loculated effusion with gas bubbles (Figure 2) and large air-fluid level (Figure 3). A small-bore (14 F) thoracostomy tube was placed with an initial return of large quantity of malodorous gas then followed by purulent fluid which showed polymicrobial organisms on gram stain and culture including Streptococcus

viridans, Staphylococcus aureus, Klebsiella pneumonia, and Bacteroides fragilis. His initial blood cultures grew Streptococcus but subsequent cultures were sterile. This combination of polymicrobial organisms represents an oral source from aspiration. Only after drainage of the empyema assisted by pleural infusions of alteplase and dornase-alfa and open insertion of a second (20 F) thoracostomy tube was the suspected lung abscess visible on repeat chest CT (Figure 4). He recovered uneventfully and returned home to complete 4 weeks total course of intravenous antibiotics.

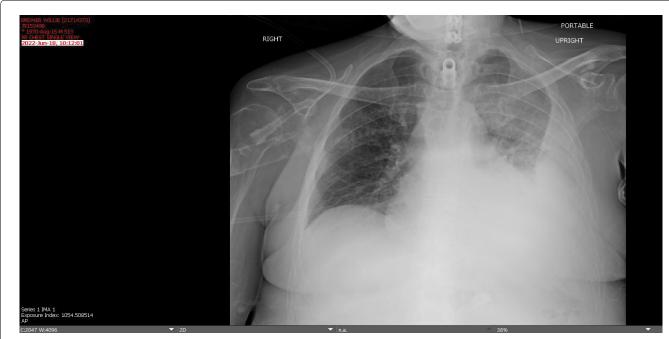


Figure 1: Initial upright portable chest radiograph demonstrating large left pleural effusion, likely loculated.



Citation: Shiber J (2022) Anaerobic Lung Abscess with Complex Empyema. Int J Crit Care Emerg Med 8:144. doi.org/10.23937/2474-3674/1510144

Accepted: August 09, 2022: Published: August 11, 2022

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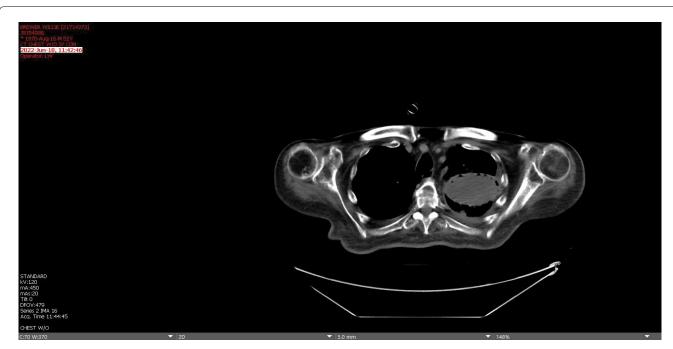


Figure 2: Chest computed tomography without intravenous contrast demonstrating loculated fluid collections in pleural space, here in major fissure with multiple gas bubbles.

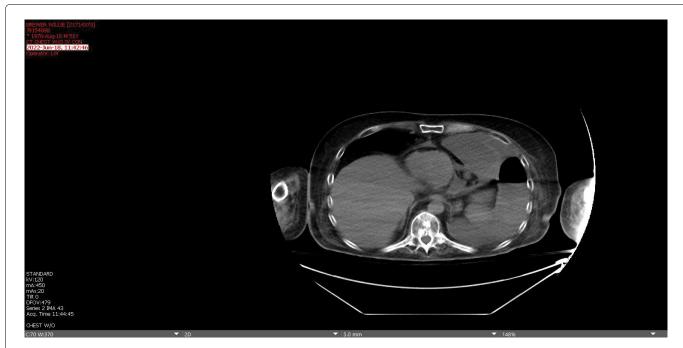


Figure 3: Chest computed tomography without intravenous contrast demonstrating large air-fluid level within pleura.

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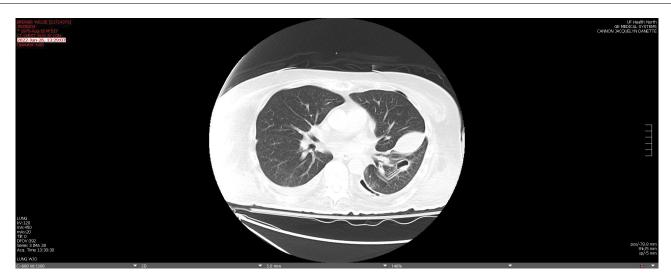


Figure 4: Repeat chest computed tomography without intravenous contrast 5 days later after placement of two thoracostomy tubes, demonstrating parenchymal lung abscess.

