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Fatal Legionella pneumophila Serogroup 1 Pleural Empyema : Case Report and Lite



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A patient undergoing esophageal dilatation for carcinoma of the esophagus suffered esophageal perforation and development of an **empyema**. Culture of **pleural** fluid yielded multiple organisms, including **Legionella pneumophila serogroup 5**. Epidemiologic investigation showed that the source of **L pneumophila** was a tap used by the nursing personnel to fill patients' water pitchers.

Cited by: 7

Author: Robert R. Muder, Robert R. Muder, Janet...

Publish Year: 1992

Legionella Pneumonia in Neonates: A Literature Review

https://www.researchgate.net/publication/13555909_Legionella...

A **case** of pneumonia related to 2 **serogroups** (1 and 8) of **Legionella pneumophila** (Lp) in a 10-day-old boy is described together with the epidemiological survey in the maternity ward which made it ...

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Legionnaires' disease in immunocompromised patients: A **case report** of **Legionella longbeachae** pneumonia and review of the literature

Disseminated extrapulmonary Legionella pneumophila ...

<https://bmcinfectdis.biomedcentral.com/articles/10.1186/s12879-018...>

Sep 17, 2018 · Legionellosis is a well-known cause of pneumonia. Primary cutaneous and subcutaneous infection caused by **Legionella pneumophila** is rare and the diagnosis is challenging. A 38-year-old Thai

Fatal *Legionella pneumophila* serogroup 1 pleural empyema: A case report

François Maillet, Nicolas Bonnet, Typhaine Billard-Pomares, Fatma El Ala
Tandjaoui-Lambiotte

Abstract**BACKGROUND**

Legionella pneumophila is a gram-negative intracellular bacillus composed of serogroups. It is mostly known to cause pneumonia in individuals with immunocompromised status, tobacco use, chronic organ failure or age. Although parapneumonic pleural effusion is frequent in legionellosis, pleural empyema is uncommon. In this study, we report a case of fatal pleural empyema caused by *Legionella pneumophila* serogroup 1 in an 81-year-old man with multiple risk factors.

CASE SUMMARY

An 81-year-old man presented to the emergency with a 3 wk dyspnea, fever and cough. His previous medical conditions were chronic lymphocytic leukemia, diabetes mellitus, renal failure, hypertension and hyperlipidemia, without tobacco use. Chest X-ray showed a large left pleural effusion, which puncture showed a citrine exudate with positive bacterial cultures. Despite intravenous cefotaxime antibiotherapy, patient's condition after 10 d led to thoracocentesis and evacuation of 2 liters of pus. The patient then developed severe hypoxemia and multiorgan failure occurred. The patient died after antibiotherapy with cefepime and amikacin and with adequate symptomatic treatment. The patient died of uncontrolled sepsis. The next day, cultures of the surgical pleural liquid showed *Legionella pneumophila* serogroup 1, consistent with the diagnosis of pleural legionellosis.

CONCLUSION

L. pneumophila should be considered in patients with multiple risk factors and pleural empyema unresponsive to conventional antibiotherapy.

Match Overview

1 match

- 1** **Crossref** 27 words
V. Walewski, F. Méchai, T. Billard-Pomares, W. Juguet et al.
"MALDI-TOF MS contribution to diagnosis of melioidosis | ... 2%
- 2** **Internet** 12 words
crawled on 30-Jun-2017
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Fatal Legionella pneumophila serogroup 1 pleural empyema: A case report



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Severe Pneumonia Caused by Legionella pneumophila ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3559165>

To the Editor: Legionella pneumophila serogroups (SGs) 1–16 cause pneumonia in humans. Although SG 1 is the serogroup most commonly associated with disease (), we report a case of community-acquired legionellosis caused by SG 11. In November 2010, a 42-year-old man was admitted to Modena University Hospital, Modena, Italy, with a 4-day history of fever, dyspnea, and cough.

Cited by: 4 Author: Antonella Grottola, Fabio Forghieri, Maris...

Publish Year: 2012

[PDF] Isolation of Legionella pneumophila Serogroup 5 from ...

[https://journal.chestnet.org/article/S0012-3692\(16\)59112-0/pdf](https://journal.chestnet.org/article/S0012-3692(16)59112-0/pdf)

CASE REPORT A 73-year-old man presented with progressive dysphagia. He had ... titers of less than 1:80 for L pneumophila serogroup 1 to 6. ... Legionella pneumophila isolated from the patient's pleural fluid and from the positive environmental site had identical whole-cell DNA restriction patterns after digestion with HinDIII (Fig 2) and EcoRI. ...

[PDF] Legionellosis Reporting and Investigation Guideline

<https://www.doh.wa.gov/Portals/1/Documents/5100/420-058-Guideline-Legionellosis.pdf>

Legionella clinical isolates must be submitted to the Washington state Public Health Laboratories (PHL). Note that the urine antigen test only identifies Legionella pneumophila serogroup 1, but other species and serogroups of Legionella cause illness. Thus a negative urine antigen test does not rule out Legionella. Respiratory culture is ...

[PDF] 2015 Legionellosis Active Bacterial Core Surveillance ...

<https://www.health.state.mn.us/diseases/legionellosis/legionellaform.pdf>

1 Interstitial infiltrate 1 Empyema 1 ARDS (acute respiratory distress syndrome) 1 Cannot rule out pneumonia 1 No evidence of pneumonia 1 Report not available 1 Other (specify) _____ –
LEGIONELLOSIS ACTIVE BACTERIAL CORE SURVEILLANCE CASE REPORT – 1 Yes 2 No 9 Unknown 1 Yes 2 No 9 Unknown 8b. If YES, hospital I.D.:

Infection Due to Legionella Species Other Than L. pneumophila