

# Lung Empyema and Abscess

Sharon E. Mace  
Eric Anderson

## REFERENCES

1. McCauley L, Dean N: Pneumonia and empyema: causal, casual or unknown. *J Thorac Dis* 7: 992, 2015. [PMID: 26150912]
2. Desai H, Agrawal A: Pulmonary emergencies: pneumonia, acute respiratory distress syndrome, lung abscess and empyema. *Med Clin North Am* 96: 1127, 2012. [PMID: 23102481]
3. Shen KR, Bribriescio A, Crabtree T, et al: The American Association for Thoracic Surgery consensus guidelines for the management of empyema. *J Thor Cardiovasc Surg* 153: e129, 2017. [PMID: 28274565]
4. Lee SF, Lawrence D, Booth H, et al: Thoracic empyema: current opinions in medical and surgical management. *Curr Opin Pulm Med* 16: 194, 2010. [PMID: 20224409]
5. Piccolo F, Popowicz N, Wong D, et al: Pleural tissue plasminogen activator and deoxyribonuclease therapy for pleural infection. *J Thorac Dis* 7: 999, 2015. [PMID: 26150913]
6. Asai N, Suematsu H, Hagihara M, et al: The etiology and bacteriology of healthcare-associated empyema are quite different from those of community-acquired empyema. *J Infect Chemother* 23: 661, 2017. [PMID: 28751154]
7. Rahman NM, Kahan BC, Miller RF, et al: A clinical score (RAPID) to identify those at risk for poor outcome at presentation in patients with pleural infection. *Chest* 145: 848, 2014. [PMID: 24264558]
8. Davies HE, Davies RJ, Davies CW, et al: Management of pleural infection in adults: British Thoracic Society. Pleural Disease Guideline 2010. *Thorax* 65(suppl 2): ii41, 2010. [PMID: 20696693]
9. Luh SP, Chou MC, Wang LS, et al: Video-assisted thoroscopic surgery in the treatment of complicated parapneumonic effusions or empyemas: outcome of 234 patients. *Chest* 127: 1427, 2005. [PMID: 15821225]
10. Birkenkamp K, O'Horo JC, Kashyap R, et al: Empyema management: a cohort study evaluating antimicrobial therapy. *J Infect* 72: 537, 2016. [PMID: 26987740]
11. Vaudaux P, Waldvogel FA: Gentamicin inactivation in purulent exudates: role of cell lysis. *J Infect Dis* 142: 586, 1980. [PMID: 7441018]
12. Brook I, Frazier EH: Aerobic and anaerobic microbiology of empyema. A retrospective review in two military hospitals. *Chest* 103: 1502, 1993. [PMID: 8486033]
13. Maskell NA, Davies CWH, Nunn AJ, et al: U.K. controlled trial of intrapleural streptokinase for pleural infection (MIST1 trial). *N Engl J Med* 352: 865, 2005. [PMID: 15745977]
14. Rahman NM, Maskell NA, West A, et al: Intrapleural use of tissue plasminogen activator and DNase in pleural infection (MIST2 trial). *N Engl J Med* 365: 518, 2011. [PMID: 21830966]
15. Cameron R, Davies HR: Intra-pleural fibrinolytic therapy versus conservative management in the treatment of adult parapneumonic effusions and empyema. *Cochrane Database Syst Rev* 1: CD002312, 2008. [PMID: 18425881]
16. Redden MD, Chin TY, van Driel ML: Surgical versus non-surgical management for pleural empyema. *Cochrane Database Syst Rev* 3: CD010651, 2017. [PMID: 28304084]
17. Seo H, Seung-Ick C, Kyung-Min S, et al: Focal necrotizing pneumonia is a distinct entity from lung abscess. *Respirology* 18: 1095, 2013. [PMID: 23692607]
18. Ko Y, Tobino K, Yasuda Y, et al: A community-acquired lung abscess attributable to *Streptococcus pneumoniae* which extended directly into the chest wall. *Intern Med* 56: 109, 2017. [PMID: 28049987]
19. Desai H, Agrawal A: Pulmonary emergencies pneumonia, acute respiratory distress syndrome, lung abscess and empyema. *Med Clin N Am* 96: 1127, 2012. [PMID: 23102481]
20. Ito Y, Toyoshima H, Susuki T, et al: Lung abscess caused by *Streptococcus pneumoniae* serotype 6B. *Respir Med Case Rep* 23: 71, 2018. [PMID: 29487787]
21. Mukae H, Noguchi S, Naito K, et al: The importance of obligate anaerobes and the *Streptococcus anginosus* group in pulmonary abscess: a clone library analysis using bronchoalveolar lavage fluid. *Respiration* 92: 80, 2016. [PMID: 27548533]
22. www.up.todate.com. (Bartlett JG, Calderwood SB, Bond S: Lung abscess. Up to Date.) Accessed May 2018.
23. Wali SO: An update on the drainage of pyogenic lung abscesses. *Ann Thorac Med* 7: 3, 2012. [PMID: 22347342]
24. Duncan C, Nadolski GJ, Gade T, Hunt S: Understanding the lung abscess microbiome: outcomes of percutaneous lung parenchymal abscess drainage with microbiologic correlation. *Cardiovasc Intervent Radiol* 40: 902, 2017. [PMID: 28321543]