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William Osler

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References :

1. Bartlett JG, Mundy LM. Community-acquired pneumonia. *N Engl J Med* 1995 ;333 :1618-1624.
2. Niederman MS, McCombs JI, Unger AN, et al. The cost of treating community-acquired pneumonia. *Clin Ther* 1998 ;20 :820-837.
3. Fine MJ, Hough LJ, Medsger AR, et al. The hospital admission decision for patients with community-acquired pneumonia. Results from the pneumonia Patient Outcomes Research Team cohort study. *Arch Intern Med* 1997 13;157:36-44.
4. Miyashita N, Kubota Y, Nakajima M. Chlamydia pneumoniae and exacerbations of asthma in adults. *Ann Allergy Asthma Immunol* 1998;80:405-9.
5. Duan Z, Liu S, Wang B. Chlamydia pneumoniae infection in patients with chronic obstructive pulmonary disease. *Zhonghua Jie He He Hu Xi Za Zhi* 2001; 24:208-11.
6. Ewig S, Torres A. Is Chlamydia pneumoniae an important pathogen in patients with community-acquired pneumonia? *Eur Respir J* 2003; 21:741-742.
7. Meybe H, Berdal BP, Straume B, et al . Pneumonia: a clinical or radiographic diagnosis. *Scand J Infect Dis* 1992;24:647-655.
8. Hammerschlag MR. Diagnostic methods for intracellular pathogens. *Clin Microbiol Dis* 1996;1:Suppl. 1, S3-S9.
9. Hammerschlag MR. Community-acquired pneumonia due to atypical organisms in adults: diagnosis and treatment. *Infect Dis Clin Pract* 1999;8:232-240.
10. Lieberman D, Ben-Yaakov M, Lazarovich Z, et al. Chlamydia pneumoniae community-acquired pneumonia: a review of 62 hospitalized adult patients. *Infection* 1996; 24:109-14.
11. Lee SL, Lee MG, Jeon MJ, et al. Atypical pathogens in adult patients admitted with community acquired pneumonia in Korea. *Dh She* 1996;12:452-6.
12. Wattanathum A, Chaoprasong C, Nunthapisud P. Community-Acquired Pneumonia in Southeast Asia. *Chest* 2003; 123: 1512-1519.
13. Marston BJ, Plouffe JF, File TM Jr, et al. Incidence of community-acquired pneumonia requiring hospitalization. Results of a population-based active surveillance Study in Ohio. The community-based pneumonia incidence study group. *Arch Intern Med* 1997;157:1709-18.
14. Ngeow YF, Suwanjutha S, Chantarojanasiri T, et al. An Asian study on the prevalence of atypical respiratory pathogens in community-acquired pneumonia. *Int J Infect Dis* 2005 ;9:144-53.
15. Lim WS, Macfarlane JT, Boswell TC. For management guidelines(SCAPA) in adults admitted to hospital: implications study of community acquired pneumonia aetiology. *Thorax* 2001;56:296-301.
16. Marrie TJ, Peeling RW, Reid T. Chlamydia species as a cause of community-acquired pneumonia in Canada. *Eur Respir J* 2003; 21:779-784.
17. Verkooyen RP, Willemse D, Verbrugh HA. Evaluation of PCR, culture, and serology for diagnosis of Chlamydia pneumoniae respiratory infections. *J Clin Microbiol* 1998;22: 2301-2307.
18. Shi Y, Xia X, Song Y, et al. Assessment of polymerase chain reaction and serology for detection of chlamydia pneumoniae in patients with acute respiratory tract infection. *Chin Med J (Engl)* 2002 ;115:184-7.
19. Jantos C, Artelt P, Schiefer HG. Acute lower respiratory tract infection associated with Chlamydia pneumoniae in Germany. *Eur J Clin Microbiol Infect Dis* 1993;12:33-5.
20. Ishida T, Hashimoto T, Arita, M, et al. Etiology of community-acquired pneumonia in hospitalized patients: a 3-year prospective study in Japan. *Chest* 1998; 114:1588-1593.
21. Shi Y, Xia X, Song Y. Clinical study on acute respiratory infection caused by chlamydia pneumoniae. *Zhonghua Jie He He Hu Xi Za Zhi* 1998; 21:280-3.
22. Wu JS, Lin JC, Chang FY. Chlamydia pneumoniae infection in community-acquired pneumonia in Taiwan. *J Microbiol Immunol Infect* 2000; 33:34-8.
23. Luna CM, Famiglietti A, Absi RS, et al. Community-acquired pneumonia etiology, Epidemiology, and Outcome Teaching Hospital in Argentina. *Chest* 2000; 118:1344-54.
24. Koh WP, Taylor MB, Hughes K, et al. Seroprevalence of IgG antibodies against C. pneumoniae in Chinese, Malays and Singapore. *Int J Epidemiol* 2002; 31:1001-7.
25. Grayston JT, Diwan VK, Cooney M, et al. Community- and hospital-acquired pneumonia associated with Chlamydia TWAR infection demonstrated serologically. *Arch Intern Med* 1989;149:169-73.
26. Beaty CD, Grayston JT, Wang SP, et al. Chlamydia pneumoniae, strain TWAR, infection in patients with chronic obstructive pulmonary disease. *Am Rev Respir Dis* 1991;144:1408-10.
27. Torres A, Dorca J, Zalacain R, et al. Community-acquired pneumonia in chronic obstructive pulmonary disease: a Spanish multicenter study. *Am J Respir Crit Care Med* 1996 ;154:1456-61.
28. Meloni F, Paschetto E, Mangiarotti P. Acute Chlamydia pneumoniae and Mycoplasma pneumoniae infections in community-acquired pneumonia and exacerbations of COPD or asthma:

therapeutic considerations. *J Chemother* 2004 ;16:70-6.

29. Karnak D, Beng-Sun S, Beder S. Chlamydia pneumoniae infection and acute exacerbation of chronic obstructive pulmonary disease (COPD). *Respir Med* 2001;95:811-6.

30. Hahn R W. Association of Chlamydia pneumoniae (strain TWAR) infection with

wheezing, asthmatic bronchitis, and adult-onset asthma. *JAMA* 1991; 266: 225-30

31. Allegra L, Blasi F, Centanni SO. Acute exacerbations of asthma in adults: role of Chlamydia pneumoniae infection. *Eur Respir J* 1994; 7: 2165-2168.

32. Cook P J , Davies P, Tunnicliffe W, et al. Chlamydia pneumoniae and asthma. *Thorax* 1998; 53:254-259.