



Fig. 6 – Bronquiolite celular com distorção das vias aéreas (A), focos de bronquiolite obliterante com transformação gigantocelular (B); o esboço de granulomas com presença de gigantócitos em parede de pequena via aérea (C) e adjacente ao vaso (D).

REFERÊNCIAS BIBLIOGRÁFICAS

- Mecoy RJ. Assessing lung function. *Aust Fam Physician*. 1996; 25(2):153,156-9.
- Banzett RB, Dempsey JA, O'Donnell DE, Wamboldt MZ. Symptom perception and respiratory sensation in asthma. *Am J Respir Crit Care Med* 2000; 162(3 Pt 1):1178-82.
- Van Schayck CP, van Weel C, Harbers HJ, van Herwaarden CL. Do physical signs reflect the degree of airflow obstruction in patients with asthma or chronic obstructive pulmonary disease? *Scand J Prim Health Care* 1991; 9(4):232-8.
- Górecka D, Bednarek M, Nowinski A, Puscinska E; Gołjan-Geremek A; Zieliński J. Diagnosis of airflow limitation combined with smoking cessation advise increases stop-smoking rate. *Chest* 2003; 123(6):1916-23.
- Anthonisen NR, Connett JE, Kiley JP, et al. Effects of smoking intervention and the use of an inhaled anticholinergic bronchodilator on the rate of decline of FEV1. The Lung Health Study. *JAMA* 1994; 272(19):1497-505.
- Anthonisen NR, Connett JE, Murray RP. Smoking and lung function of Lung Health Study participants after 11 years. *Am J Respir Crit Care Med* 2002; 166(5):675-9.
- Anthonisen NR, Connell JE, Enright PL, Manfreda J. Hospitalizations and mortality in the Lung Health Study. *Am J Respir Crit Care Med* 2002; 166(3):333-9.
- Van Schayck CP, Loozen JM, Wagena E, Akkermans RP; Wesseling GJ. Detecting patients at a high risk of developing chronic obstructive pulmonary disease in general practice: cross sectional case finding study. *BMJ* 2002; 324(7350):1370.
- Zieliński J, Bednarek M. Early detection of COPD in a high-risk population using spirometric screening. *Chest* 2001; 119(3):731-6.
- Mannino DM, Gagnon RC, Petty TL, Lydick E. Obstructive lung disease and low lung function in adults in the United States: data from the National Health and Nutrition Examination Survey, 1988-1994. *Arch Intern Med* 2000; 160(11):1683-9.
- Pereira CAC, Neder JA. Diretrizes para Testes de Função Pulmonar. *J Pneumol* 2002; 28 (Supl 3):1-238.
- Standardization of Spirometry, 1994 Update. American Thoracic Society. *Am J Respir Crit Care Med* 1995; 152(3):1107-36.
- Quanjer PH, Tammeling GI, Coltes JE, Pedersen OF, Peslin R, Yernault JC. Lung volumes and forced ventilation.

- tory flows. Report Working Party Standardization of Lung Function Tests, European Community for Steel and Coal. Official Statement of the European Respiratory Society, *Rur Respir J Suppl* 1993; 16:5-40.
14. Eaton T, Withy S, Garrett JE, Mercer J, Whitlock RM, Rea HH. Spirometry in primary care practice. The importance of quality assurance and the impact of spirometry workshops. *Chest* 1999; 116(920):416-23.
 15. Neder JA, Andreoli S, Castelo-Filho A, Nery LE. Reference values for lung function tests. I Static volumes. *Braz J Med Biol Res* 1999; 32(6):703-17.
 16. Pereira CAC, Barreto SP, Simões JG, Pereira FWL, Gersler JG, Nakatani J. Valores de referência para espirometria em uma amostra da população brasileira adulta. [Reference values for spirometry in Brazilian adults]. *J Pneumol* 1992; 18(1):10-22.
 17. Crapo RO. The role of reference values in interpreting lung function tests. *Eur Respir J* 2004; 24(3):341-2.
 18. Ladosky W, Andrade RT, Loureiro NG, Gandar JMB, Botelho MM. Comparação entre valores espirométricos de referência obtidos a partir das equações de Knudson e de Pereira Adultos. [Comparing reference spirometric values obtained from Knudson and Pereira equations – Adults]. *J Pneumol* 2001; 27(6):315-320.
 19. Guidelines for the measurement of respiratory function. Recommendations of the British Thoracic Society and the Association of Respiratory Technicians and Physiologists. *Respir Med* 1994; 88(3):165-94.
 20. Rodrigues Junior R, Pereira CAC. Resposta a broncodilatador na espirometria: que parâmetros e valores são clinicamente relevantes em doenças obstrutivas? [Spirometric response to bronchodilators: which parameters and values clinically relevant in obstructive diseases?] *J Pneumol* 2001; 27(1):35-47.
 21. Newton MF, O'Donnell DE, forket L. Response of lung volumes to inhaled salbutamol in a large population of patients with severe hyperinflation. *Chest* 2002; 121(4):1042-50.
 22. Aaron SD, Dales RE, Cardinal P. How accurate is spirometry at predicting restrictive pulmonary impairment? *Chest* 1999; 115(3):869-73.
 23. Hyatt RE, Scanlon PD, Nakamura M. Interpretation of Pulmonary Function Tests. A Practical Guide. Philadelphia: Lippincott-Raven; 1997.
 24. Hughes JMB. Diffusing capacity (transfer factor) for Carbon Monoxide. In: Hughes JM, Pride NB, eds. Lung Function Tests. Physiological Principles and Clinical Applications. London: WB Saunders; 1999. p. 92-105.
 25. Epler GR, McCloud TC, Goensler EA, Mikus JP, Carrington CB. Normal chest roentgenograms in chronic diffuse infiltrative lung disease. *N Engl J Med* 1978; 298(17):934-9.
 26. Latsi PI, du Bois RM, Nicholson AG, et al. Fibrotic idiopathic interstitial pneumonia: the prognostic value of longitudinal functional trends. *Am J Respir Crit Care Med* 2003; 168(5):531-7.
 27. Collard HR, King TE Jr, Bartelson BB, Vourlekis JS, Schwarz MI, Brown KK. Changes in clinical and physiologic variables predict survival in idiopathic pulmonary fibrosis. *Am J Respir Crit Care Med* 2003; 168(5):538-42.
 28. Flaherty KR, Mumford JA, Murray S, et al. Prognostic implications of physiologic and radiographic changes in idiopathic interstitial pneumonia. *Am J Respir Crit Care Med* 2003; 168(5):543-8.
 29. McLean A, Warren PM, Gilloody M, MacNee W, Lamb D. Microscopic and macroscopic measurements of emphysema: relation to carbon monoxide gas transfer. *Thorax* 1992; 47(3):144-9.
 30. Boulet LP, Turcotte H, Hudon C, Carrier G, Maltais F. Clinical, physiological and radiological features of asthma with incomplete reversibility of airflow obstruction compared with those of COPD. *Can Respir J* 1998; 5(4):270-7.
 31. Cockcroft DW, Killian DN, Mellon JJ, Hargrave FE. Bronchial reactivity to inhaled histamine: a method and clinical survey. *Clin Allergy* 1977; 7(3):235-43.
 32. Robinson CB, Parsons GH. Bronchial provocation tests with pharmacological agents. *Clin Ver Allergy* 1990; 8(2-3):129-45.
 33. Schlegel J, Fischer B, Ferlinz R. Untersuchungen zur Aquipotenz von Methacholin und Carbachol im unspezifischen inhalativen Provokationstest (Dosis-Wirkungs-Beziehung). [Equivalence of methacholine and carbachol in a nonspecific provocation test (dose-response relationship)]. *Pneumologie* 1995; 49(10):535-8.
 34. Teeter JG. Use of pulmonary function tests in the diagnosis and management of asthma. *Clin Pulm Med* 1999; 6(4):211-7.
 35. Bersácola SH, Pereira CAC, Silva RCC, Ladeira RM. Dispneia crônica de causa indeterminada: Avaliação de um protocolo de investigação em 90 pacientes. [Chronic dyspnea with unexplained cause: evaluation of an investigation protocol with 90 patients]. *J Pneumol* 1998; 24(5):283-97.
 36. De paso WJ, Winterbauer RH, Lask JA, Dreis DF, Springmeyer SC. Chronic dyspnea unexplained by history, physical examination, chest roentgenogram, and spirometry. Analysis of a seven-year experience. *Chest* 1991; 100(5):1293-9.
 37. Irwin RS, Carley FJ, French CL. Chronic cough. The spectrum and frequency of causes, key components of the diagnostic evaluation, and outcome of specific therapy. *Am Rev Respir Dis* 1990; 141(3):640-7.
 38. Pratter MR, Carley FJ, Dubois J, Irwin RS. Cause and evaluation of chronic dyspnea in a pulmonary disease clinic. *Arch Intern Med* 1989; 149(10):2277-82.
 39. Crapo RO, Casaburi R, Coates AL, et al. Guidelines for methacholine and exercise challenge testing-1999. This official statement of the American Thoracic Society was adopted by the ATS Board of Directors, July 1999. *Am J Respir Crit Care Med* 2000; 161(1):309-29.
 40. Godfrey S, Springer C, Bar-Yishay E, Avital A. Cut-off points defining normal and asthmatic bronchial reactivity to exercise and inhalation challenges in children and young adults. *Eur Respir J* 1999; 14(3):659-68.
 41. Sinex JE. Pulse oximetry: principles and limitations. *Am J Emerg Med* 1999; 17(1):59-67.
 42. Chouaid C, Maillard D, Housset B, Febvre M, Zaoui D, Lebeau B. Cost effectiveness of noninvasive oxygen sa-

- turation measurement during exercise for the diagnosis of *Pneumocystis carinii* pneumonia. *Am Rev Respir Dis* 1993; 147(6 pt 1):1360-3.
43. Fussell KM, Ayo DS, Branca P, Rogers JT, Rodriguez M, Light RW. Assessing need for long-term oxygen therapy: a comparison of conventional evaluation and measures of ambulatory oximetry monitoring. *Respir Care*. 2003; 48(2):115-9.
 44. Lama VN, Flaherty KR, Toews GB, et al. Prognostic value of desaturation during a 6-minute walk test in idiopathic interstitial pneumonitis. *Am J Respir Crit Care Med* 2003; 168(9):1084-90.
 45. Laghi F, Tobin MJ. Disorders of the respiratory muscles. *Am J Respir Crit Care Med* 2003; 168(1):10-48.
 46. Martinez FJ, Stanopoulos I, Aceri R, Becker FS, Pickering R, Beamis JF. Graded comprehensive cardiopulmonary exercise testing in the evaluation of dyspnea unexplained by routine evaluation. *Chest* 1994; 105(1):168-74.
 47. Neder JA, Nery LE, Castelo A et al. Prediction of metabolic and cardiopulmonary responses to maximum cycle ergometry: a randomised study. *Eur Respir J* 1999; 14(6):1304-13.
 48. National Institutes of Health. National Heart, Lung, and Blood Institute. National Asthma Education and Prevention Program. Expert Panel Report 2. Guidelines for the Diagnosis and Management of Asthma. Disponível em: <http://www.nhlbi.nih.gov/guidelines/asthma/asthgdln.pdf>. Acessado em: 2004 (07 dez).
 49. Ferguson GT, Enright PL, Buist AS, Higgins MW. Office spirometry for lung health assessment in adults: A consensus statement from the National Lung Health Education Program. *Chest* 2000; 117(4):1146-61.
 50. Crapo RO. Pulmonary-function testing. *N Engl J Med* 1994; 331(1):25-30.
 51. Sociedade Brasileira de Pneumologia e Tisiologia. I Consenso Brasileiro de Doença Pulmonar Obstrutiva Crônica. *J Pneumol* 2000; 26(Supl 1):S1-S51.
 52. Traver GA, Cline MG, Burrows B. Predictors of mortality in chronic obstructive pulmonary disease. A 15-year follow-up study. *Am Rev Respir Dis* 1979; 119(6):895-902.
 53. BTS Guidelines for the Management of Chronic Obstructive Pulmonary Disease. The COPD Guidelines Group of the Standards of Care Committee of the BTS. *Thorax* 1997; 52(Suppl 5):1-28.
 54. American Thoracic Society. Idiopathic pulmonary fibrosis: diagnosis and treatment. International consensus statement. American Thoracic Society (ATS), and the European Respiratory Society (ERS). *Am J Respir Crit Care Med* 2000; 161(2 pt 1):646-64.
 55. Schlesinger C, Veeraghavan S, Koss MN. Constructive (obliterative) bronchiolitis. *Curr Opin Pulm Med* 1998; 4(5):288-93.
 56. Trupin L, Earnest G, San Pedro M et al. The occupational burden of chronic obstructive pulmonary disease. *Eur Respir J* 2003; 22(3):462-9.
 57. Hankinson JL, Wagner GR. Medical screening using periodic spirometry for detection of chronic lung disease. *Occup Med* 1993; 8(2):353-61.
 58. Brasil. Ministério do Trabalho e Emprego. Segurança e Saúde no Trabalho. NR7 – Programa de Controle Médico de Saúde Ocupacional (107.000-2). Disponível em: <http://www.mtb.gov.br/Empregador/segsau/ComissõesTri/ctpp/oqueue/conteudo/nr7/default.asp>. Acessado em 2005; (04 mar).
 59. Fuso L, Cisternino L, Di Napoli A, et al. Role of spirometry and arterial gas data in predicting pulmonary complications after abdominal surgery. *Resp Med* 2000; 94(12):1171-6.
 60. Stein M, Cassara EL. Preoperative pulmonary evaluation and therapy for surgery patients. *JAMA* 1970; 211(5):787-90.
 61. Warner DO, Warner MA, Barnes RD, et al. Preoperative respiratory complications in patients with asthma. *Anesthesiology* 1996; 85(3):460-7.
 62. Preoperative pulmonary function testing. American College of Physicians. *Ann Intern Med* 1990; 112(10):793-4.
 63. Smetana GW. Preoperative pulmonary evaluation. *N Engl J Med* 1999; 340(12):937-44.
 64. Pereira ED, Fernandes AL, da Silva Anção M, Araújo Pereres C, Atallah NA, Faresin SM. Prospective assessment of the risk of postoperative pulmonary complications in patients submitted to upper abdominal surgery. *São Paulo Med J* 1999; 117(4):151-60.
 65. Chumillas S, Ponce JL, Delgado F, Viciana V, Mateu M. Prevention of postoperative pulmonary complications through respiratory rehabilitation: a controlled clinical study. *Arch Phys Med Rehabil* 1998; 79(1):5-9.
 66. Bolliger CT. Evaluation of operability before lung resection. *Curr Opin Pulm Med* 2003; 9(4):321-6.
 67. Datta D, Lahiri B. Preoperative evaluation of patients undergoing lung resection surgery. *Chest* 2003; 123(6):2096-103.
 68. Faresin SM, Barros JA, Beppu OS, Peres CA, Atallah AN. Quem deve realizar a espirometria durante a avaliação pulmonar pré-operatória? [Who should be submitted to spirometry in the preoperative pulmonary evaluation?]. *Folia Med* 1998; 116(2):85-90.
 69. Wightman JA. A prospective survey of the incidence of postoperative pulmonary complications. *Br J Surg* 1968; 55(2):85-91.
 70. Evaluation of impairment/disability secondary to respiratory disorders. American Thoracic Society. *Am Rev Respir Dis* 1986; 133(6):1205-9.
 71. Sue DY, Oren A, Hansen JE, Wasserman K. Lung function and exercise performance in smoking and nonsmoking asbestos-exposed workers. *Am Rev Respir Dis* 1985; 132(3):612-8.
 72. Palombini BC, Villanova CA, Araujo E, et al. A pathogenic triad in chronic cough: asthma, postnasal drip syndrome, and gastroesophageal reflux disease. *Chest* 1999; 116(2):279-84.
 73. Alhamad EH, Gay SE, Flaherty KR, Martinez FJ. Evaluating chronic dyspnea: a stepwise approach. *J Respir Dis*. 2001;22(2):79-88. Disponível em: http://www.findarticles.com/p/articles/mi_m0BSO/is_2_22/ai_71359173. Acessado em: 2005 (16 fev).

74. Flaherty KR, Wald J, Weisman IM et al. Unexplained exertional limitation: Characterization of patients with a mitochondrial myopathy. *Am J Respir Crit Care Med.* 2001; 164(3):425-32.
75. Smoller JW, Pollack MH, Otto MW, Rosenbaum JF, Kradin RL. Panic anxiety, dyspnea, and respiratory disease. Theoretical and clinical considerations. *Am J Respir Crit Care Med* 1996; 154(1):6-17.
76. Maisel AS, McCord J, Nawak RM, et al. Beside B-Type natriuretic peptide in the emergency diagnosis of heart failure with reduced or preserved ejection fraction. Results from the Breathing Not Properly Multinational Study. *J Am Coll Cardiol* 2003; 41(11):2010-7.
77. Pedersen F, Raymond I, Mehlsen J, Atar D, Hildebrandt PR. Prevalence of diastolic dysfunction as a possible cause of dyspnea in the elderly. *Am J Med* 2005; 118(1):25-31.
78. Bergeron S, Ommen SR, Bailey KR, Oh JK, McCully RB, Pellikka PA. Exercise echocardiographic findings and outcome of patients referred for evaluation of dyspnea. *J Am Coll Cardiol* 2004; 43(12):2242-6.
79. Luder E, Ehrlich RI, Lou WY, Melnik TA; Kattan M. Body mass index and the risk of asthma in adults. *Respir Med* 2004; 98 (1):29-37.
80. Serés L, López-Ayerbe J, Coll R et al. Función cardiopulmonar y capacidad de ejercicio en pacientes con obesidad mórbida. [Cardiopulmonary function and exercise capacity in patients with morbid obesity]. *Rev Esp Cardiol* 2003; 56(6):594-600.
81. Morrone N, Campos Neto JS, Shibata NP, Prastcher P, Lima Filho MT. Importância da cintilografia com gálio (67Ga) em pneumologia. Importance of scintigraphy with gallium (67Ga) in pneumology. *Rev Paul Méd* 1982; 100(1):30-3.
82. Lynch DA, Rose CS, Way D, King TE. Hypersensitivity pneumonitis: sensitivity of high-resolution CT in a population-based study. *AJR Am J Roentgenol* 1992; 159(3):469-72.