Interstitial lung disease

- Classification of the Idiopathic Interstitial Pneumonias. This joint statement of the American Thoracic Society (ATS), and the European Respiratory Society (ERS) was adopted by the ATS board of directors, June 2001 and by the ERS Executive Committee, June 2001. Am J Respir Crit Care Med 2002;165:277–304.
- Dona M, Dell'Aica I, Pezzato E, et al. Hyperforin inhibits cancer invasion and metastasis. Cancer Res 2004;64:6225–32.
- Enomoto N, Suda T, Kato M, et al. Quantitative analysis of fibroblastic foci in usual interstitial pneumonia. Chest 2006;130:22–9.
- Pontisso P, Calabrese F, Benvegnu L, et al. Overexpression of squamous cell carcinoma antigen variants in hepatocellular carcinoma. Br J Cancer 2004;90:833–7.
- Beghe B, Bazzan E, Baraldo S, et al. Transforming growth factor-beta type II receptor in pulmonary arteries of patients with very severe COPD. Eur Respir J 2006;28:556–62.
- Chomczynski P, Sacchi N. Single-step method of RNA isolation by guanidium thiocyanate—phenol—chloroform extraction. Anal Biochem 1987;162:156–9.
- Schick C, Pemberton PA, Shi GP, et al. Cross-class inhibition of the cysteine proteinases cathepsins K, L, and S by the serpin squamous cell carcinoma antigen 1: a kinetic analysis. *Biochemistry* 1998;37:5258–66.
- Schick C, Kamachi Y, Bartuski AJ, et al. Squamous cell carcinoma antigen 2 is a novel serpin that inhibits the chymotrypsin-like proteinases cathepsin G and mast cell chymase. J Biol Chem 1997;272:1849–55.
- Body JJ, Sculier JP, Raymakers N, et al. Evaluation of squamous cell carcinoma antigen as a new marker for lung cancer. Cancer 1990;65:1552–6.
- Vassilakopoulos T, Troupis T, Šotiropoulou C, et al. Diagnostic and prognostic significance of squamous cell carcinoma antigen in non-small cell lung cancer. Lung Cancer 2001;32:137–44.

- Smith SL, Watson SG, Ratschiller D, et al. Maspin—the most commonly-expressed gene of the 18q21.3 serpin cluster in lung cancer—is strongly expressed in preneoplastic bronchial lesions. Oncogene 2003;22:8677–87.
- Murakami A, Suminami Y, Hirakawa H, et al. Squamous cell carcinoma antigen suppresses radiation-induced cell death. Br J Cancer 2001;84:851–8.
- Suminami Y, Kishi F, Sekiguchi K, et al. Squamous cell carcinoma antigen is a new member of the serine protease inhibitors. Biochem Biophys Res Commun 1991:181:51–8.
- Lonardo F, Li X, Siddiq F, et al. Maspin nuclear localization is linked to favorable morphological features in pulmonary adenocarcinoma. Lung Cancer 2006:51:31–9.
- Kim SW, Cheon K, Kim CH, et al. Proteomics-based identification of proteins secreted in apical surface fluid of squamous metaplastic human tracheobronchial epithelial cells cultured by three-dimensional organotypic air–liquid interface method. Cancer Res 2007;67:6565–73.
- Corrin B, Butcher D, McAnulty BJ, et al. Immunohistochemical localization of transforming growth factor-beta 1 in the lungs of patients with systemic sclerosis, cryptogenic fibrosing alveolitis and other lung disorders. *Histopathology* 1994;24:145–50.
- Khalil N, O'Connor RN, Flanders KC, et al. TGF-beta 1, but not TGF-beta 2 or TGF-beta 3, is differentially present in epithelial cells of advanced pulmonary fibrosis: an immunohistochemical study. Am J Respir Cell Mol Biol 1996;14:131–8.
- Beneduce L, Castaldi F, Marino M, et al. Squamous cell carcinoma antigenimmunoglobulin M complexes as novel biomarkers for hepatocellular carcinoma. Cancer 2005;103:2558–65.

Pulmonary puzzle

Acute respiratory distress in a patient using non-invasive ventilation

CLINICAL PRESENTATION

A 49-year-old man with advanced motor neurone disease was admitted for initiation of non-invasive ventilation (NIV) for established daytime hypercapnia and symptoms of nocturnal hypoventilation. It had also been noted that when sleeping he was snoring heavily. He had initially tolerated NIV well during the day, but during his second night he was noted to be in respiratory distress with worsening arterial blood gases. He refused to use his ventilator any further. Communication was extremely limited due to severe bulbar symptoms, but the patient indicated facial discomfort. The chest radiograph was normal and a lateral facial radiograph is shown in fig 1.

QUESTION

What is the abnormality and the likely explanation for it? See page 844.

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Figure 1 Lateral facial radiograph.

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