

中文題目：巨細胞病毒在免疫不全病患的非典型影像表現

英文題目：Cytomegalovirus pneumonia mimicking lung tumor in systemic lupus erythematosus

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Introduction

Cytomegalovirus (CMV) pneumonia can be a life-threatening disease in immunocompromised patients such as transplant recipients, patients given immunosuppressive therapy and neonate. CMV pneumonia mimicking lung cancer with huge tumor had been reported in lung or heart transplantation patient group, but had not been reported in systemic lupus erythematosus with long-term steroid use. We describe a 48-year-old female who had systemic lupus erythematosus with a 5.3 cm mass in the right lower lobe of lung which was highly suggestive of lung cancer, but the pathology report showed CMV pneumonia.

Case Presentation

A 48-year-old female is a case of systemic lupus erythematosus (SLE) for 20 years with regular Hydroxychloroquine and Prednisolone control. She had right chest pain for 3 days was complained. The associated symptoms and signs was fever, dyspnea. We checked the laboratory data showed no leucocytosis with mildly elevated CRP level (36.0 mg/L). The chest plain film showed right lower lung mass (Figure 1). We arranged chest computed tomography and the image suspected bronchogenic tumor in the right lower lobe of lung with visceral pleural invasion (Figure 2). However, we arranged further CT-guide biopsy and the result revealed no evidence of malignancy but immunohistochemical stain for Cytomegalovirus (CMV) was positive and inclusion body also had been seen under microscopic field. So the diagnosis of CMV pneumonia in SLE had been confirmed.



< Figure 1 >



< Figure 2 >

Discussion

Cytomegalovirus infection in immunocompromised patient like systemic lupus erythematosus with immunosuppressant use is relative frequent. But the lung infection presented as huge lung mass in SLE is rare. So when malignancy is taken into consideration, other virus infection should be on the list of differential diagnosis.

Reference

1. Karakelides, H., M. C. Aubry, and J. Ryu. Cytomegalovirus pneumonia mimicking lung cancer in an immunocompetent host. *Mayo Clin Proc* 2003. 78:488–490.
2. Fishman, J. E. and H. D. Batt. Cytomegalovirus pneumonia manifesting as a focal mass in acquired immunodeficiency syndrome. *South Med J* 1996. 89:1121–1122

3. Rao BK, Correa MM, Rao S. Cytomegalovirus pneumonia in a neonate presenting as a space occupying lesion mimicking a tumor. *Indian J Pathol Microbiol.* 2012. 55(4):611-3.