

# 간이식 후 발생한 폐포자충 감염 환자의 서로 다른 임상양상 2예

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## Two Cases of *Pneumocystis* Pneumonia after Liver Transplantation Presenting with Different Clinical Manifestations

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*Pneumocystis carinii* pneumonia (PCP), now known as *Pneumocystis jirovecii*, is a fungal pathogen that causes opportunistic disease, especially pneumonia, in immunocompromised patients. The patients can have a spectrum of illnesses ranging from asymptomatic to fulminant respiratory failure. Here we report two cases with *pneumocystis* pneumonia after liver transplantation who presented with different clinical features. One patient developed acute respiratory failure requiring mechanical ventilation and expired due to PCP and a superimposed bacterial infection. The other patient was asymptomatic and discovered by regular X-ray check-up. He was successfully treated with trimethoprim/sulfamethoxazole. As shown by our cases, PCP presents with broad clinical manifestations and leads to various clinical courses in liver transplant recipients. Thus, *Pneumocystis jirovecii* has to be considered a potential pathogen of pneumonia in liver transplant recipients regardless of severity, especially one who is not on prophylactic medications. We consider prophylaxis of PCP in liver transplant recipients in our center.

**Key Words:** Pneumonia, Pneumocystis, *Pneumocystis jirovecii*, Liver transplantation  
**중심 단어:** 폐렴, 폐포자충, 사람폐포자충, 간이식

### 서 론

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### 증 례

#### 1) 증례1

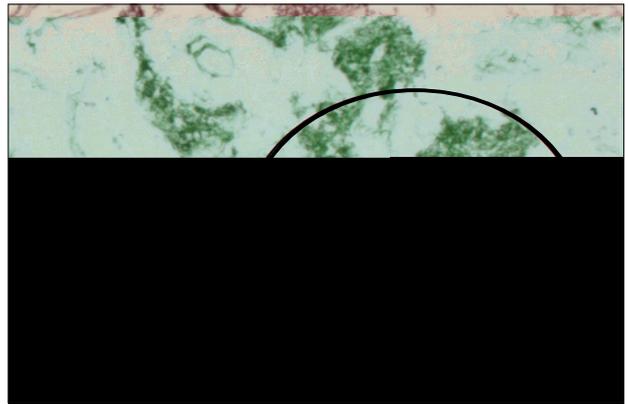
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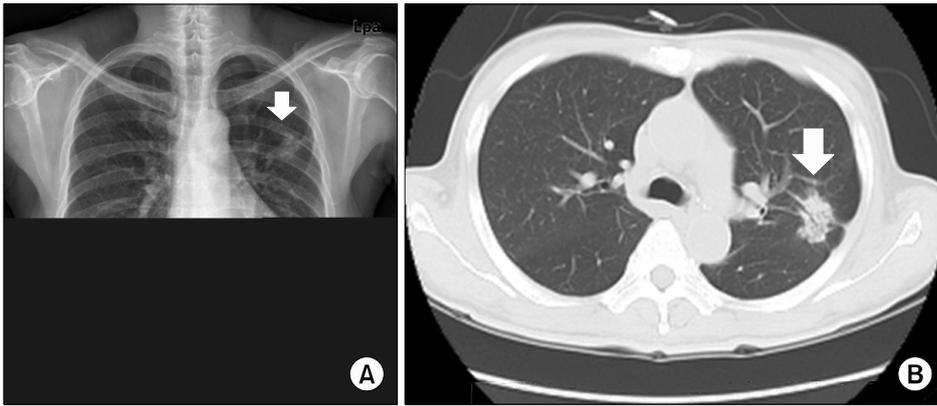


**Fig. 1.** Chest X-ray showed extensive diffuse multifocal infiltration in both lung fields.

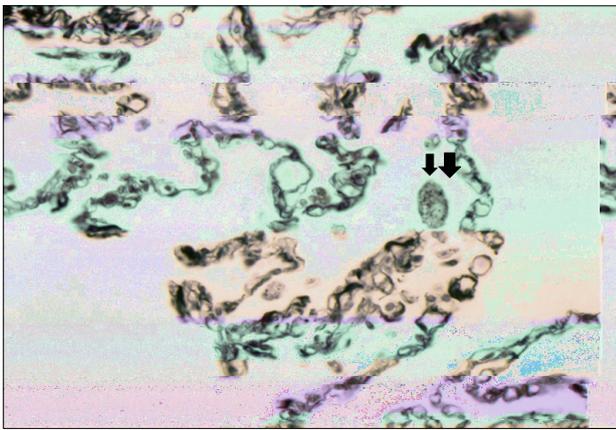


**Fig. 2.** Many cysts of *Pneumocystis jirovecii* were found on methenamine silver stain of bronchial washing fluid (black circle, methenamine silver stain  $\times 400$ ).

2) 증례2



**Fig. 3.** (A) Chest X-ray showed an ill-defined nodule in left upper lobe (white arrow). (B) Chest computed tomography showed an irregular mass with marginal spiculations in apicoposterior segment of left upper lobe (white arrow).



**Fig. 4.** Methenamine silver stain of LUL after lobectomy showed localized *Pneumocystis jirovecii* (black arrow, methenamine silver stain  $\times 400$ ).  
Abbreviation: LUL, left upper lobectomy.

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