

## 신장이식 환자에서 발생한 H1N1 인플루엔자바이러스 감염에 의한 폐출혈

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김현주, 장미진, 권정인, 박석주, 김태희, 강선우, 김영훈

### Pulmonary Hemorrhage Caused by Novel H1N1 Influenza A Virus in Kidney Transplant Recipient

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Pulmonary hemorrhage is a known complication of influenza pneumonia, including well documented reports from previous pandemics, but there are a few case reports clinically evident alveolar hemorrhage related to the novel H1N1 influenza virus. We report the first case of pulmonary hemorrhage due to the novel pandemic influenza H1N1 in kidney transplant recipient. A 29-year-old man was admitted with fever and cough for 2 days, his past medical history included end stage renal disease from Ig A nephropathy. He underwent cadaveric kidney transplantation before 7 months ago. His kidney graft became non-function due to chronic allograft nephropathy, he underwent graft kidney nephrectomy because of recurrent hematuria before 2 weeks ago from admission. The initial chest radiograph revealed multifocal consolidation in both upper lobes. On day 5 of admission the chest X-ray showed bilateral infiltration (Fig 2) and the computed tomography scan showed multifocal patchy consolidations in both lung (Fig 3). Bronchoalveolar lavage showed sign of an alveolar hemorrhage. There was no bacterial growth in the BAL, the real-time RT-PCR of H1N1 influenza virus with BAL fluid was positive. High dose of oseltamivir, adjusted for his renal function was began and Clinical improvement was documented after a week of antiviral therapy. This is the first case report of pulmonary hemorrhage due to the novel pandemic influenza H1N1 in kidney transplant recipient.

**Key Words:** 폐출혈, 신장이식, 신종플루

Pulmonary hemorrhage, Kidney transplantation, H1N1 influenza

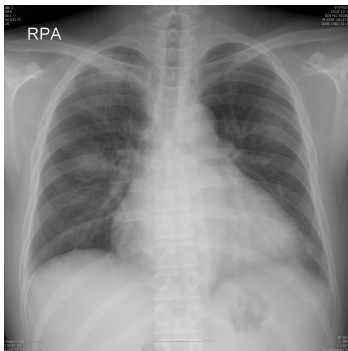


Fig. 1

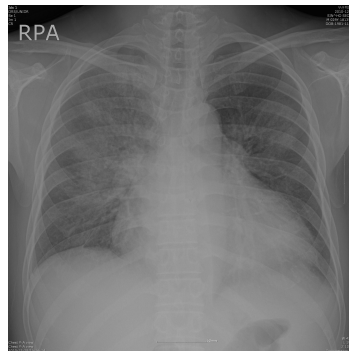


Fig. 2

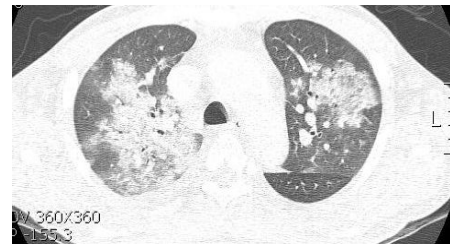


Fig. 3