

신이식 환자에서 폐렴 발생의 임상양상

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Pneumonia in Renal Allograft Recipients from Unrelated Donors

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Infectious complications remain one of the major causes of mortality and morbidity after kidney transplantation. We have experienced a clustering of pneumonia patients followed at our hospital who underwent renal transplantation from unrelated donors (URD, including living unrelated or cadaveric donors). We analyzed, retrospectively, of renal transplant recipients who have followed at our center, with particular reference to the type of donor and the episodes of pneumonia.

A total of 73 renal transplant patients were followed at the hospital and 22 episodes of pneumonia were documented. In 27 transplant patients from living related donor (LRD), we found 7 episodes of pneumonia during 235.4 patient-years (0.03 per patient-year). It was contrast to the data of 15 episodes of pneumonia in 46 patients from URD during 188.1 patient-years (0.08 per patient-year).

Pneumonia was categorized by organism with Cytomegalovirus, Pneumocystis jiroveci pneumonia, Mycobacterium tuberculosis and undefined pneumonia. As shown in the table, 8 episodes of Pneumocystis pneumonia were confined to the URD group. There was no cases of PCP in patients who had undergone LRD transplantation. Eleven among 15 URD recipients occurred within the first year after transplantation. At the first year after renal transplantation, the incidence of pneumonia was higher in patients received from URD than those LRD ($p=0.03$). As compared with azathioprine, the patients treated with mycophenolate mofetil had a high risk for with pneumonia ($p=0.007$).

We could not find any difference between LRD and URD transplants in terms of immunosuppression, demographics or episodes of rejection when compared to each variables over the same period of transplantation.

Conclusion : This observation showed the higher incidence of lung infection in URD. And the pneumonia caused by PCP were confined to the URD recipients during the early period after kidney transplantation. Although we did not offer any clear explanation for this association, prophylaxis for PCP is warranted for the recipients of renal transplantation from living unrelated donors or cadaveric donors.

Key Words : 신이식, 폐렴, 비혈연 공여

Renal transplantation, Pneumonia, Unrelated donors