

뇌사자 신이식에서 급성신손상의 진단기준에 따른 지연이식기능의 예측

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Prediction of the Development of Delayed Graft Function using Acute Kidney Injury Criteria in Deceased Donor Kidney Transplantation

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Purpose: In this study, we investigated the development of delayed graft function in kidney transplantation (KT) from deceased donors (DD) according to the severity of acute kidney injury based on various acute kidney injury (AKI) criteria.

Methods: We analyzed 285 kidney transplant recipients who took kidney from 228 deceased donors. We calculated the AKI stage of deceased donor according to the Risk, Injury, Failure, Loss of Kidney Function, and End-stage Kidney Disease (RIFLE), AKI Network (AKIN) and Kidney Disease: Improving Global Outcomes (KDIGO) criteria and compared the predictability for the development of delayed graft function (DGF) and the change of allograft function.

Results: For all classification systems, DGF developed more frequently in the AKI group than non-AKI group ($p < .05$) and allograft function assessed by the Modification of Diet in Renal Disease (MDRD) equation showed a significantly deteriorating pattern at 2 weeks and 1, 3, 6 months after KT compared to that in the non-AKI group ($p < .05$, comparison at each time point). In ROC analysis, the 3 criteria showed similar predictability in the prediction of the development of DGF.

Conclusions: In DDKT, the RIFLE, AKIN and KDIGO criteria showed similar prediction for the development of DGF. Also, no difference was detected in the prediction of allograft function during long term follow up.

Key Words: 뇌사자 신이식, 급성신손상, 지연이식기능

Acute kidney injury, Deceased donor, Kidney transplantation