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## **Association of Continuous Renal Replacement Therapy Duration and the outcome of Patients in Intensive Care Units**

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**Objectives:** Many severe Acute kidney injury (AKI) patients has received renal replacement therapy and the patients with hemodynamic instability receive the continuous renal replacement therapy (CRRT) in Intensive Care Units(ICU). Some patients keep the CRRT longer duration, while others keep it shorter. We wanted to see if the difference in these periods affected the survival rate.

**Methods:** We retrospectively studied on adult patients who received CRRT in ICU on our hospital from January 51, 2016 to December 31, 2016. They were divided two groups; less than 2 days(L group ) and more than 2 days(M group). The clinical manifestation associated with each groups were analyzed. The value was expressed by median (range).

**Results:** January 1, 2016 through December 31, 2016 were initially screened.(n=186). We excluded patients under 18 years, End stage renal disease , not agreed to access the data and 6 hours urine less than 300cc. We excluded 77 patients according to exclusion criteria. A total of 102 patients were included in the analyses. 41 patients in L group and 68 patients in M group. The median age of patients were 72(36-89) year-old in L group and 68.5 (18-90) year-old in M-group. Septic shock was the main cause of CRRT in both group. [26(63.40%) vs. 53(77.90%), P=0.123]. 28-day mortality rate was higher in L group than M group. [36 (87.80%) vs. 44 (64.70%), P=0.013]. also lactic acid lever was higher in L group than M group [9.4mmol/L(1.63-38.53)vs. 3.4mmol/L(0.7-18.72), p=0.001]. Other laboratory results and baseline disease were not different except for the presence of chronic liver disease(CLD).Interestingly, underline disease CLD was more higher in L group than M group. [17 (68.00%) vs. 8 (32.00%), p=0.001].

**Conclusions:** CRRT duration was affected the mortality rate. Especially, patients with CLD tend to have shorter dialysis durations and higher morortality rate when CRRT was performed due to AKI.