

지속적 신대체요법이 필요한 급성신손상 환자에서 CRRT 전담팀의 효과

연세대학교 의과대학 내과학교실

기연경, 윤창연, 이은영, 주영수, 한인미, 한승규, 오형중
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The Benefit of Specialized Team Approaches in Patients with AKI Undergoing CRRT: Propensity Score Matched Analysis

Youn Kyung Kee, Chang-Yun Yoon, Eunyoung Lee, Young Su Joo, In Mee Han
Seung Gyu Han, Hyung Jung Oh, Jung Tak Park, Seung Hyeok Han
Beom Seok Kim, Shin-Wook Kang, Kyu Hun Choi, Tae-Hyun Yoo

Department of Internal Medicine, Yonsei University College of Medicine

Introduction: Continuous renal replacement therapy (CRRT) has been widely used in critically ill acute kidney injury (AKI) patients. To maintain quality of care for these patients, some centers operate a specialized CRRT team (SCT) composed of physicians and nurses. The aim of the present study is to validate the beneficial role of SCT based team approaches on clinical outcomes in AKI patients undergoing CRRT.

Methods: A total of 334 patients, who started CRRT for severe AKI between August 2007 and September 2009 in Yonsei University Health System and were matched with a propensity score, were dichotomized based on SCT application. The primary outcomes were 28- and 90-day all-cause mortality, and the secondary outcomes were the rates of renal function recovery at identical period.

Results: During the study period, the 28- and 90-day all-cause mortality rates were significantly decreased after SCT application. In addition, down-time per day, lost time per filter-exchange, and RBC-transfused numbers during CRRT treatment were significantly lower in the group after SCT compared to before SCT approaches. Cox regression analysis revealed that 28- and 90-day all-cause mortality rates were significantly lower under SCT control, after adjusting for age, gender, mean arterial pressure, APACHE II, and SOFA scores, RIFLE criteria, and biochemical parameters. However, there was no significant difference in renal function recovery rates between before and after SCT approaches on CRRT.

Conclusions: A well-organized and specialized CRRT team could be beneficial for improving patient survival in AKI patients requiring CRRT.

Key Words: CRRT 전담팀, 급성신부전, 지속적 신 대체 요법
SCT approaches, Acute kidney injury, CRRT