



West China Hospital of Sichuan University

The project of constructing a new model of nursing care and human resource management for continuous renal replacement therapy

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BACKGROUND

- The incidence of acute RRT has increased by greater than 10 % per year over the past decade. And CRRT remains the most popular form of RRT.
- Commonly, CRRT is operated in a given hospitalized unit rather than nephrology, and the treatment places are quite scattered.
- Because of the lack of nursing human resource, it is often interrupted, leading to patients cannot get CRRT timely and adequately, which impacts its efficiency and safety negatively.
- Therefore, our team has innovated the circuit scheduling Program from 2018-2019, which has greatly optimized resource utilization and improved the quality and efficiency of the CRRT nursing care.

METHODS

- Getting the multi-disciplinary support from each unit and hospital administration.
- By CRRT electronic system, CRRT circulating nurses can know the CRRT procession of each unit, instructing the procedure and handling machine alarms.
- Using the circuit scheduling program established in 2018, we assign a nurse group who circuit every unit that needs CRRT, and one worker who prepare CRRT supplies and equipment for circulating nurses. We also shorten the waiting time if patients in need by building intensive cooperation with elevator workers, setting up intercom.
- By holding short-term and long-term nursing training program, recruit the advanced training nurses and specialized nurses from hospitals across China.



Figure 1. CRRT electronic system

RESULTS

- The monthly workload of a nurse has increased by an average of 42% from 260 h in 2017 to 372 h in 2019 (Figure 2).
- The incidence of adverse nursing events has been reduced from 4.38% to 1.25% ($p < 0.05$).
- The waiting time for patients in need of CRRT reduced from 60mins to 20mins.
- Satisfaction rate of our CRRT nurses also increased from 90% to 98% .

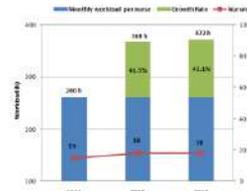


Figure 2. The monthly workload of a nurse

CONCLUSION

- The circuit scheduling program can optimize resource utilization and improve the quality and efficiency of CRRT care by integrating human resource and electronic management system together.