

Title:

Assessing the Impact of Continuous Renal Replacement Therapy on the Quality of Care in the ICU

Faculty Mentor:

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Background: Continuous Renal Replacement Therapy (CRRT) is an established method of providing renal support in critically ill patients who develop acute kidney injury. Despite numerous beneficial effects, there are a number of practical concerns that are inherent to this therapeutic modality and could negatively affect the overall quality of the care of these patients. One issue is the potential inhibitory effect on the early mobilization of the critically ill patients that has been shown to significantly improve their outcomes. The second concern involves various reasons for which this continuous therapy has to be interrupted, hence affecting the dosing of several important medications such as antibiotics.

Hypothesis: Despite being an established method of renal support in the critically ill patients, CRRT could potentially affect the quality of other aspects of their care.

Methods: This is a study aimed at improvement of the quality of care in the intensive care unit (ICU). It involves a retrospective chart review of those patients who received CRRT at UF Health Shands. We will extract several parameters from the charts including patient's co-morbidities, length of stay in the ICU, attempts and success rate of early mobilization of the patient, the number of hours the CRRT has been running, and the changes in a number of medications such as antibiotics and anti-convulsive drugs.

Role of Medical Student: After consultation with the faculty mentor, the MSRP student will identify a research question (or questions) of interest to explore and assist with chart review, data analysis, literature review, and preparation of at least one first-authored abstract and manuscript. Students may continue their collaboration throughout medical school.