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Session Topic : -

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## **AKI: Case-Based Approaches to Enhancing Renal Support in Acute Kidney Injury**

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Renal replacement therapy (RRT) is the critical treatment strategy for patients with severe acute kidney injury (AKI). However, each step of RRT management including initiation, modality, operation, and discontinuation are still controversial especially in critically ill patients with severe AKI. Previous observational studies and randomized controlled trials reported comparable mortality rates and renal outcomes regardless of the timing and modality of RRT. Diverse and complicated medical conditions of the enrolled patients as well as various protocols of RRT operation depending on an institutional circumstance may cause these conflicting data. In patients with AKI, renal capacity and metabolic demand are usually determined by the severity of AKI, underlying comorbidities, and the overall patient condition.

Individualized management of RRT is required according to the gap between renal capacity and metabolic demand which substantially affects the necessity and outcome of RRT. Overall appropriate conservative managements including nutritional support and medical treatment for hypertension, hyperglycemia, and anemia are also important in these patients. In this session, we will overview the important considering points and management for enhancing renal support in patients with AKI.

**Keywords:** acute kidney injury, renal replacement therapy, critically ill patients, renal support, renal outcome