



Lecture Code : PG04-S4

Session Name : PG Education 4 (AKI)

Session Topic : -

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CRRT and ECMO

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Critically ill patients requiring extracorporeal membrane oxygenation (ECMO) frequently develop acute kidney injury (AKI), with reported incidence rates ranging from 40% to 70%. Continuous renal replacement therapy (CRRT) is commonly used in parallel to manage volume overload, metabolic acidosis, and uremia. However, integrating CRRT into ECMO circuits presents complex technical and physiological challenges. This lecture will address the incidence and pathophysiology of AKI in ECMO patients, considerations for CRRT initiation, and circuit configurations including anticoagulation strategies. CRRT is not merely an adjunct, but a vital therapeutic component in ECMO-supported patients. Optimizing its application requires interdisciplinary collaboration among nephrology, intensive care, and perfusion teams, along with technical expertise and standardized protocols. A thoughtful integration of renal support into ECMO can significantly improve both renal and overall outcomes in this high-risk population.

Keywords: CRRT, ECMO , acute kidney injury, critical care nephrology, protocol