

22nd European Nephrology Conference

October 15-16, 2018 | Warsaw, Poland

Impact of inline extracorporeal membrane oxygenator hemofilter system in neonatal acute kidney injury

Mohammed Azar Ali

King Abdulaziz Medical City, Saudi Arabia

Extracorporeal membrane oxygenation (ECMO) is considered as a recognized lifesaving support for patients with cardiorespiratory failure. Acute kidney injury and fluid overload are one of the significant morbidity factors resulting in serious complications. Continuous renal replacement therapy (CRRT) using the device or inline hemofilter systems (IHS) without the device are the different ways of dialysis in patients with ECMO. IHS without the device offers alternate safe dialysis modality of choice because of users friendly, inexpensive and able to remove fluid overload and renal diffusive clearances efficiently. We report a 20 day old male neonate with multiple congenital cardiac defects needing venoarterial ECMO had acute kidney injury (AKI) and needing CRRT using inline hemofilter system (IHS) with no device. Patient was noted to have stable electrolyte parameters, good ultrafiltration and efficient diffusive clearance. He was decannulated from ECMO therapy after 9 days of his difficult course of illness without any related complications. Therefore, neonatal IHS without the device provides safe and efficient alternative approach in acute kidney injury.

shameemazar@gmail.com