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The renal replacement therapy in critically ill patients: Practical approaches in specific situations based on case reports

Nadezda Petejova

University of Ostrava, Czech Republic

Acute kidney injury (AKI) is a common diagnosis in daily clinical practice, occurring in virtually all fields of medicine. Critically ill patients are especially prone to the development of AKI due to frequent hemodynamic instability, multiple risk factors and, diagnostic and/or treatment complications. For these and other reasons, critical care nephrology plays an irreplaceable role in treating critically ill patients in ICUs. The aim is to present overview using relevant scientific research results, along with the authors own practical clinical experience with renal replacement therapy (RRT) in specific clinical situations (case reports) from the University Hospital of Ostrava in the Czech Republic. Treatment of AKI associated with rhabdomyolysis in patient with abdominal aortic aneurysm and ischemia-reperfusion syndrome. Efficacy of plasmapheresis for hypertriglyceridemia induced acute pancreatitis in pregnancy associated with abdominal compartment syndrome and the practical use of hemoperfusion with Cytosorb in patients suffered from sepsis and multiple organ dysfunction syndromes. Many issues can be expected in these specific situations including complications and benefits of treatment. Knowledge of the indications, existing data on the actual results of and not least, the complications of extracorporeal blood purification techniques, provide a perspective for the clinician.

Biography

Nadezda Petejova successfully completed her Doctoral studies in the Field of Internal Medicine at the Faculty of Medicine, Palacky University in Olomouc (CR) in 2012 and received her PhD. She has been working as Nephrologist at Department of Internal Medicine at University Hospital Ostrava, (CR). Her research interests span various aspects of internal and critical care medicine but center mainly in critical care nephrology including renal replacement therapy in critically ill patients. She has published more than 20 papers in reputed journals and has been serving as a part-time Lecturer at Faculty of Medicine, University of Ostrava (CR).

petejova@seznam.cz

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