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Overview of the science of renal replacement therapy focusing on its application in acute kidney injury

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This talk will be divided into two main parts: Acute Kidney Injury and Continuous Renal Replacement Therapy. The overall focus will be on renal replacement and the clinical questions that arise during its application in renal failure.

The number of patients with acute kidney injury continues to increase worldwide. As the level of care becomes more intense, owing to advances in medical technology and therapeutic options so too has the delivery of renal replacement therapy. This talk will cover the early history of renal replacement therapy up to the present day. Review of the technical considerations and different modalities responsible for blood purification and volume hemostasis will be covered. There is a growing body of literature on different areas of blood purification and its use in the critically ill. This talk will address issues of dosing dialysis, initiation of therapy and volume hemostasis.

Biography

Matthew Joseph Trainor, MD attended Trinity College Dublin Medical School. He completed an Internal Medicine Residency and a Nephrology Fellowship at the University of Massachusetts Medical School. He was a Chief Medical Resident following his Residency program. Currently, he is an Assistant Professor in the Division of Renal Medicine at the University of Massachusetts Medical School. He serves as the Medical Director of Dialysis Services at the University. He has given talks at the local and national level on Renal Replacement Therapy and has published in journals and textbooks on renal failure and renal replacement therapies.

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