

Session Title

Complex Cases with Mechanical Circulatory Support Devices

Speakers:

Meghan Gushurst, PT, DPT, CCS

Jennifer Salsgiver, PT, DPT, CCS

Hector Uriostegui, PT, DPT

Bryan Lohse, PT, DPT, CCS

Session Description:

There are multiple types of mechanical circulatory support devices that are used in order to combat cardiogenic shock and restore systemic perfusion. The number of devices implanted each year is over 2000 patients in the US. With the advancements that have been made to reduce morbidity and mortality, it is important to recognize our role as physical therapists in the treatment of these complex patients. The purpose of this presentation is to discuss various MCS devices as well as the evaluation and treatment for patients with complex medical needs.

Objectives:

1. Describe the pathophysiology leading to patient's requiring MCS devices.
2. Describe types of MCS devices including IABP, LVAD, Impella and ECMO.
3. Explain various treatment options for progressing mobility of patient's on MCS devices
4. Enhance networking capabilities for real time assistance with complex patients on MCS devices

What will be the clinician/educator takeaways/skills that can be utilized immediately? Participants will be provided a full spectrum of mechanical circulatory support devices as well as techniques to be able to evaluate and treat complex patients.

Speaker Bios:

Meghan Lahart Gushurst is a Board Certified Cardiovascular and Pulmonary Physical Therapist. She currently is the clinical coordinator for cardiovascular and pulmonary therapy for Advocate Health and physical therapist III at Advocate Christ Medical Center. She graduated with a doctorate in Physical Therapy in 2010 from University of Illinois in Chicago and completed the Cardiovascular and Pulmonary Residency at Ann Arbor VA in 2013. She has been a board certified therapist since 2014. She is published in Annals of Thoracic Surgery for her work with subclavian intraaortic balloon pumps as well as the Essentials of Physical Therapy textbook for interventions in acute cardiopulmonary conditions. She has presented at multiple national and local conferences and currently is the co-chair for the MCS SIG.

Jennifer Salsgiver received her Doctorate of Physical Therapy from St. Ambrose University in 2008. She is an APTA Board Certified Specialist in

Cardiovascular and Pulmonary Physical Therapy since 2019. She currently works at Advocate Christ Medical Center on the cardiac service line, with a focus in the cardiac intensive care units and patients requiring mechanical circulatory support. She worked for Advocate Lutheran General, where she established the mobility program for patients receiving VV ECMO. She is also an adjunct faculty member at Midwestern University for the Cardiovascular and Pulmonary Therapeutics DPT course.

Bryan Lohse is an ABPTS Certified Clinical Specialist in Cardiovascular and Pulmonary Physical Therapy, Salt Lake City, Utah. He is originally from Tucson, Arizona and received his undergraduate degree in Health Sciences from the University of Arizona before moving to Utah to complete his DPT program at the University of Utah. Since graduating, Bryan has worked at the University Of Utah hospital and became one of the first ICU-dedicated therapists at the hospital. Bryan's time on the ICU has been spent advocating for the growing role of therapies on the ICU, specifically with the cardiac patient population. He is the therapy service line MCS educator and advanced practice specialist. He participates in the ICU's interdisciplinary team, Heart Transplant/VAD selection weekly meeting and has participated in the Lung Transplant selection weekly meetings. Bryan also helped institute a mobility communication program for use with every patient in the cardiac ICU. He has also spoken about his work at various local and national conferences.

Hector Uriostegui received his doctorate in physical therapy in 2021 from Northern Illinois University. Upon graduation he has worked on the cardiac service line and cardiac ICUs at Advocate Christ Medical Center.

References:

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