ISHLT ACADEMY CORE COMPETENCIES IN MECHANICAL CIRCULATORY SUPPORT APRIL 21, 2020 MONTRÉAL, CANADA

Scientific Program Committee

Chair:	Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA
Co-Chair:	Christopher Hayward, MD, St. Vincent's Hospital, Sydney,
Co-Chair:	Australia Andre Simon, PhD, MD, Harefield Hospital, London, UK

Faculty

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Educational Goals

This course is designed to provide essential clinical knowledge and professional skills to facilitate patient identification, selection, pre and post management of surgical and medical aspects involved in durable mechanical circulatory support.

Target Audience

This course is designed at the level of clinicians and allied health professionals who are in the early stages of their careers. This course would also benefit to those who are part of a new program or desire a comprehensive foundational review. The information presented covers core competencies and is intended to provide a strong foundation of the overarching principles of mechanical circulatory support.

Learning Objectives

At the conclusion of this course, participants will have improved competence and professional performance in their ability to:

- 1. Assess suitability for durable mechanical circulatory support (MCS) implantation.
- 2. Assess the impact the medical and social factors which influence patient outcomes during short and long-term MCS.
- 3. Recognize options for MCS support and the technological differences that may impact pump selection and patient/device management.
- 4. Identify appropriate implantation techniques.
- 5. Identify issues that impact immediate post implant management in the intensive care unit.
- 6. Manage MCS patients during long-term support.
- 7. Diagnose and manage common clinical scenarios, adverse events and extreme situations encountered after MCS.

Disclosure

Current guidelines state that participants in CME activities must be made aware of any affiliation or financial interest that may affect the program content or a speaker's presentation. Planners, Faculty and Chairs participating in this meeting are required to disclose to the program audience any real or apparent conflict(s) of interest related to the content of their presentations or service as Chair/Planner. These disclosures will be distributed at the meeting. Additionally, all speakers have been asked to verbally disclose at the start of their presentation if a product they are discussing is not labeled for the use under discussion or is still investigational.

Accreditation Statement

The International Society for Heart and Lung Transplantation (ISHLT) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation Statement

ISHLT designates this live activity for a maximum of 6.75 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses and Pharmacists



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ISHLT ACADEMY CORE COMPETENCIES IN MECHANICAL CIRCULATORY SUPPORT PRELIMINARY SCIENTIFIC PROGRAM SCHEDULE

7:00 AM – 7:45 AM REGISTRATION & MORNING COFFEE

7:45 AM – 8:05 AM

WELCOME AND OVERVIEW

Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA

8:05 AM – 9:30 AM

SESSION 1 – PREPARE FOR SUCCESS Chair: Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA

8:05 AM MCS Technology 101

Evgenij Potapov, MD, PhD, German Heart Institute, Berlin, Germany

Teaching/Discussion Points

a. Devices currently utilized in clinical practice

8:20 AM Outcomes in MCS

Andre Simon, PhD, MD, Harefield Hospital, London, UK

Teaching/Discussion Points

- a. Review current trends of MCS utilization
- b. Reported outcomes: survival and adverse events

8:35 AM Q& A with Panel

8:45 AM When Should Patients be Referred: Warning Signs

Douglas Horstmanshof, MD, Integris Baptist Medical Center, Oklahoma City, OK, USA

Teaching/Discussion Points

- a. Risk stratification in advanced heart failure
- b. Lessons learned in timely evaluation

9:00 AM Quality of Life after VAD and the Impact of Frailty and Social Behaviors on VAD Success

Susan M. Joseph, MD, Baylor University Medical Center, Dallas, TX, USA

Teaching/Discussion Points

- a. Assessment of frailty in MCS
- b. Opportunities to improve outcomes related to social behaviors

9:15 AM Q&A with Panel

9:30 AM – 10:00 AM COFFEE BREAK

10:00 AM - 12:00 PM

SESSION 2 – STARTING RIGHT

Chair: Christopher Hayward, MD, St. Vincent's Hospital, Sydney, Australia

10:00 AM Session Overview

Christopher Hayward, MD, St. Vincent's Hospital, Sydney, Australia

10:15 AM IMACS 1: Short-Term Support

Jonathan Haft, MD, University of Michigan, Ann Arbor, MI, USA

Teaching/Discussion Points

- a. IMACS definition in patient assessment
- b. Mechanical support as bridge

10:30 AM Assessing and Optimizing RV Function Pre-Operatively

Finn Gustafsson, MD, PhD, Rigshospitalet, Copenhagen, Denmark

Teaching/Discussion Points

- a. Assessment of right ventricular function
- b. Optimization of RV prior to MCS

10:45 AM Surgical Implantation Overview

Jens Garbade, MD, University of Leipzig, Leipzig, Germany

Teaching/Discussion Points

- a. Key aspects of implantation techniques
- b. Assessment of proper VAD positioning
- c. Alternative approaches

11:00 AM Q&A with Panel

11:15 AM How Much is Too Much?

Diyar Saeed, MD, PhD, University of Leipzig, Leipzig, Germany

Teaching/Discussion Points

- a) Management of aortic valve insufficiency
- b) Approach to tricuspid and mitral valve insufficiency
- c) Challenges like prior Dor procedures and Congenitals
- d) Concomitant interventions

11:30 AM Managing the RV Post-Op

Christopher T. Salerno, MD, St. Vincent's Heart Center, Indianapolis, IN, USA

Teaching/Discussion Points

- a. Assessment of RV failure in ICU patient
- b. Methods of managing RV failure post op

11:45 AM *Q&A* with Panel

12:00 PM – 1:15 PM

LUNCH BREAK (a box lunch is included in the registration fee)

1:15 PM – 3:10 PM

SESSION 3 – PUMP IT UP

Chair: Andre Simon, PhD, MD, Harefield Hospital, London, UK

1:15 PM Session Overview

Andre Simon, PhD, MD, Harefield Hospital, London, UK

1:25 PM Optimal Outpatient Management of VAD Recipients

Antonio Loforte, MD, PhD, S. Orsola Hospital, Bologna, Italy

Teaching/Discussion Points

- a. Overview of essential programmatic infrastructure
- b. Outline of patient assessment in ambulatory setting

1:40 PM Aortic Insufficiency in LVAD Recipients: Incidence, Screening, and Management

Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA

Teaching/Discussion Points

- a. Identification of AI in MCS patient
- b. Management of AI in MCS patient

1:55 PM Arrythmia in MCS

Rebecca Cogswell, MD, University of Minnesota, Minneapolis, MN, USA

Teaching/Discussion Points

- a. Assessment of arrythmia in MCS
- b. Management of arrythmia post MCS

2:10 PM Q&A with Panel

2:25 PM Alarms and Hardware Troubleshooting, Waveforms

Christopher Hayward, MD, St. Vincent's Hospital, Sydney, Australia

Teaching/Discussion Points

- a. Review of abnormal waveforms
- b. Techniques for triage of ambulatory alarms

2:40 PM Pump Speed Optimization: The Role of Imaging and Hemodynamics

Palak Shah, MD, MS, Inova Heart & Vascular Institute, Falls Church, VA, USA

Teaching/Discussion Points

- a. Review of commonly used MCS parameters
- b. Technical aspects of ramp study

2:55 PM Q&A with Panel

3:10 PM – 3:30 PM COFFEE BREAK

3:30 PM – 4:30 PM SESSION 4 – CLOTS AND BUGS Chair: Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA

3:30 PM Session Overview

Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA

3:40 PM GI Bleeding

Kavitha Muthiah, MBChB, PhD, St. Vincent's Hospital, Sydney, Australia

Teaching/Discussion Points

- a. Assessment of GI bleeding in MCS patient
- b. Management of GI bleeding in MCS patient

3:55 PM Antiplatelet Therapy, Anticoagulation and Bridging Strategies

Diyar Saeed, MD, PhD, Leipzig Heart Center, Leipzig, Germany

Teaching/Discussion Points

- a. Strategy for anti-coagulation post MCS
- b. Bridging strategy for procedures and surgeries post MCS

4:10 AM Q&A with Panel

4:20 PM Pump Thrombosis, Embolic Complications and Hemorrhagic Stroke

Palak Shah, MD, MS, Inova Heart & Vascular Institute, Falls Church, VA, USA

Teaching/Discussion Points

- a. Identification and management of pump thrombosis
- b. Management of stroke in the MCS patient

4:35 PM LVAD Infections: Prevention, Diagnosis, and Management

Saima Alsam, MD, MS, University of California San Diego Medical Center, San Diego, CA, USA

Teaching/Discussion Points

- a. Classification of infection in MCS patient
- b. Approach to drive line care and infection management

4:50 PM Q&A with Panel

5:00 PM SUMMARY / EVALUATION

Jennifer Cook, MD, University of Cincinnati, Cincinnati, OH, USA

5:10 PM ADJOURN