



**ISHLT ACADEMY
MASTER CLASS IN
MECHANICAL CIRCULATORY SUPPORT**

TUESDAY, APRIL 4, 2017

1:45PM–6:50PM

**GASLAMP AB
GASLAMP CD**

SCIENTIFIC PROGRAM CHAIRS

Chair: **Stavros Drakos, MD, PhD**
University of Utah School of Medicine, Salt Lake City, UT, USA

Co-Chair: **Ivan Netuka, MD, PhD**
Institute for Clinical and Experimental Medicine, Prague, Czech Republic

SCIENTIFIC PROGRAM COMMITTEE

Keith Aaronson, MD, University of Michigan, Ann Arbor, Michigan, USA

Anson Cheung, MD, University of British Columbia, Vancouver, Canada

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

Lars Lund, MD, PhD, Karolinska Institute, Stockholm, Sweden

COURSE SUMMARY

The MCS Master Class presents a unique international educational opportunity for specialists and developing experts in the field of Mechanical Circulatory Support. A concerted effort brings together faculty and experts to provide an interactive environment well beyond core competency training. The MCS Master Class is arranged in advanced breakout sessions for every participant to take full advantage of an integrated curriculum and the exceptional networking opportunity. The specific topics are devised according to defined clinical practice gaps in this fast developing specialty.

PRACTICE GAPS

- 1.** The outcomes of cardiogenic shock have remained poor, large randomized trials are scarce and the management of these patients remains challenging. Comprehensive clinical expertise of advanced usage of evolving MCS options including patient and device selection and transition to next step therapies constitute currently major limitations in the care of these critically ill patients.
- 2.** Specific approaches to optimize the exercise capacity of MCS patients is an unmet clinical need.
- 3.** The disparities in the cardiac recovery outcomes observed between various centers indicate that implementing targeted patient selection and subsequently effective diagnostic and therapeutic protocols to facilitate cardiac recovery is challenging for the majority of practitioners.
- 4.** The diagnosis and management of complex and combined adverse events such as cerebrovascular hemorrhagic accidents, device thrombosis and gastrointestinal bleeding is challenging and practitioners often face difficulties in developing effective strategies to appropriately identify and treat these adverse events.
- 5.** The diagnostic and therapeutic approaches for early and late right ventricular failure in MCS patients has been evolving with the introduction of new diagnostic criteria and new technologies/therapeutic options. Such practice gaps in specialist knowledge and clinical skills constitute major limitations in the care of MCS patients.
- 6.** With the rapid evolution of minimally invasive surgical approaches the individual practitioners may lack the extensive expertise required to appropriately select patients and surgical approaches to achieve the best possible outcome.

EDUCATIONAL GOALS

The overarching goal is to provide an advanced learning opportunity for specialists and developing experts in the field of MCS and devices for treatment of heart failure patients.

TARGET AUDIENCE

Cardiothoracic Surgeons and Cardiologists with MCS experience, Specialists in Heart Failure Care, allied health professionals with involvement in MCS patients, VAD and Transplant Coordinators and critical care specialists, heart transplant professionals.

LEARNING OBJECTIVES

1. Identify the challenges during the diagnosis and management of complex cardiogenic shock patients and the potential benefits of a multidisciplinary team approach.
2. List effective strategies to optimize exercise capacity and facilitate myocardial recovery in MCS patients.
3. Explain how to appropriately select patients for long-term MCS options with particular consideration in anticipated surgical management aspects.
4. Describe how to develop a systematic approach to diagnosis and therapy of complex and combined adverse events such as device thrombosis, recurrent gastrointestinal bleeding and stroke.
5. Name the diagnostic and therapeutic challenges of early and late RV failure.

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 4.25 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ANCC CREDIT

Amedco is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This course is co-provided by Amedco and the International Society for Heart and Lung Transplantation (ISHLT). Maximum of 4.25 contact hours.

ACPE CREDIT

This activity may be eligible for ACPE credit, see final CPE activity announcement for specific details.

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. Please refer to the Participant Notification document for a list of all disclosures. 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.

SCIENTIFIC PROGRAM SCHEDULE



1:00 PM – 1:45 PM
REGISTRATION AND COFFEE

1:45 PM – 2:00 PM
WELCOME AND INTRODUCTIONS
Stavros Drakos, MD, PhD, University of Utah School of Medicine, Salt Lake City, UT, USA

2:00 PM – 3:00 PM
SMALL GROUP INTERACTIVE
DISCUSSION A: Acute MCS for Profound Cardiogenic Shock/ INTERMACS 0-1 Profiles
Moderator: **Stavros Drakos, MD, PhD**

2:00 PM Case Scenario: Management Challenges for ‘Crash and Burn’ Patients: ‘Shock Team’ Approach to MCS
Hiroo Takayama, MD, Columbia University, NY, USA

2:30 PM Case Scenario: Transition from Short to Long-term Support
Keith Aaronson, MD, University of Michigan, Ann Arbor, MI, USA

3:05 PM – 4:05 PM
SMALL GROUP INTERACTIVE
DISCUSSION B: Complex Coagulation Issues in MCS Patients
Moderator: **Ivan Netuka, MD, PhD**

3:05 PM Case Scenario: Recurrent GI Bleeding and Pump Thrombosis
Simon Maltais, MD, PhD, Mayo Clinic, Rochester, MN, USA

3:35 PM Case Scenario: Management of Cerebrovascular Hemorrhagic Accidents
Chris Hayward, MD, St. Vincent’s Hospital, Sydney, Australia

4:05 PM – 4:30 PM
COFFEE BREAK

4:30 PM – 5:30 PM
SMALL GROUP INTERACTIVE
DISCUSSION C: Patient Selection and Management (I)
Moderator: **Stavros Drakos, MD, PhD**

4:30 PM Case Scenario: Bridge to Recovery: From Prediction to Implementation
Snehal Patel, MD, Einstein/Montefiore, Bronx, NY, USA

5:00 PM Case Scenario: Optimizing the Exercise Capacity of Chronic MCS Pts: Implications for Heart Recovery Assessment
Bart Meyns, MD, University Hospitals Leuven, Leuven, Belgium

5:35 PM – 6:35 PM
SMALL GROUP INTERACTIVE
DISCUSSION D: Patient Selection and Management (II)
Moderator: **Ivan Netuka, MD, PhD**

5:35 PM Case Scenario: Early and Late RV Failure: From Prediction to Management
Lars Lund, MD, PhD, Karolinska Institute, Stockholm, Sweden

6:05 PM Case Scenario: Minimally Invasive Surgical Approaches from Implant to Explant
Anson Cheung, MD, University of British Columbia, Vancouver, Canada

6:35 PM – 6:50 PM
CLOSING REMARKS
Stavros Drakos, MD, PhD, University of Utah School of Medicine, Salt Lake City, UT, USA
Ivan Netuka, MD, PhD, Institute for Clinical and Experimental Medicine, Prague, Czech Republic