

# ISHLT ACADEMY: CORE CO MECHANICAL CIRCULATO

Tuesday, April 23, 2013 • Montréal, Quebec, Canada



In response to high demand, on Tuesday, April 23, 2013, the day prior to the 2013 ISHLT Annual Meeting, we are conducting, for a second time, the ISHLT Academy: Core Competencies in Mechanical Circulatory Support.

**IMPORTANT NOTE:** Due to limited seating and high demand, registration preference will be given to ISHLT members and non-member physicians and allied health personnel. For industry employees and other non-medical professionals who are not members of ISHLT and who wish to attend the academy, we will be simulcasting the presentations into a separate room. This will permit full access to the presentations themselves, but limited or no audience participation. We hope this will serve to accommodate the demand for access to the information while preserving the small-scale atmosphere necessary to maximize delegate/faculty interaction among physicians.

This Academy will provide a concise review of clinical knowledge and essential professional skills to facilitate the surgical and medical management of patients with advanced heart failure who are being assessed for and who have received durable mechanical circulatory support. The course consists of focused presentations covering a broad array of topics for both inpatient and outpatient management with an emphasis on a practical approach to patient care, implementing best practices and clinical problem solving. All lectures will be delivered by internationally recognized experts in the field and include cardiologists, cardiac surgeons and VAD coordinators. Audience participation and interaction with the faculty will be actively encouraged throughout the Academy with Question and Answer sessions following each major topic and by limiting the enrollment to 200 participants. The educational workforce of the Mechanical Circulatory Support Counsel of the ISHLT is confident this will be the most comprehensive and valuable summary for practitioners in the field of mechanical circulatory support.

The 2013 ISHLT Academy: Core Competencies in Mechanical Circulatory Support will cover the same broad categories that were presented for the 2012 Academy in Prague: Review of the Current State of MCS, Patient Selection, Surgical Considerations, Post-operative Management, the Transition to Home and Long-term Management. However the program has been refocused as a result of participant feedback, with a particular emphasis on more audience participation and case studies.

# COMPETENCIES IN MCCRY SUPPORT

## CONTINUING MEDICAL EDUCATION INFORMATION

### 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 8.0 AMA PRA Category 1 Credits.<sup>™</sup> Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### 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.

### Educational Goals

The educational goals of this activity are to provide a concise review of clinical knowledge and essential professional skills to facilitate best practice of surgical and medical aspects involved in the care of patients during assessment as candidates and as recipients of mechanical circulatory support.

### Target Audience

While all members are invited to enroll, this course is primarily designed to be of benefit for clinicians and allied professionals who *are in the early stages of their careers* or who *are in training, are part of a new program* or *desire an update* on the current state of the field. The information presented is intended to provide a strong foundation of the overarching principles of mechanical support, rather than as a detailed update for those who are already proficient in the field.

## Learning Objectives

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

- 1. Recognize the various types of mechanical circulatory support, their outcomes and rates of adverse events.**
- 2. Identify the clinical signs and risk factors of advanced heart failure in order to optimally time implantation.**
- 3. Recognize the medical and social factors which impact patient outcomes on MCS.**
- 4. Optimize implantation techniques and pump selection.**
- 5. Manage patients after MCS in the intensive care unit, as an inpatient and as an outpatient.**
- 6. Diagnose and manage common clinical dilemmas and adverse events in patients after MCS.**

# ISHLT ACADEMY: CORE COMPETENCIES IN MECHANICAL CIRCULATORY SUPPORT

Room 510 Tuesday, April 23, 2013 Montréal, Quebec, Canada

**CHAIRS:** Jeffrey Teuteberg, MD • Andreas Zuckermann, MD  
David S. Feldman, MD, PhD FACC, FAHA • Daniel J. Goldstein, MD

SESSION	TIME	PRESENTATION TITLE	SPEAKER	CNTRY
Registration and Morning Coffee	7:00-8:00			
Introduction	8:00-8:15	Welcome and Brief Overview	Jeffrey J. Teuteberg, MD, University of Pittsburgh, Pittsburgh, PA	USA
<b>REVIEW OF THE CURRENT STATE OF MCS</b>				
	8:15	<b>Technology 101:</b> Review of current technologies, types of flow, pump parameters	Francis D. Pagani, MD, PhD, University of Michigan, Ann Arbor, MI	USA
	8:30	<b>BTT/Long-term Support / Recovery:</b> Review state of outcomes and adverse events with current technologies	Andreas Zuckermann, MD, Medical University of Vienna, Vienna	AUSTRIA
	8:45	<b>Shock:</b> Role of biventricular support, TAH and ECMO	Pascal Leprince, MD, PhD, University Paris VI, Pitié Salpêtrière Hospital, Paris	FRANCE
	9:00	Q & A		
<b>PATIENT SELECTION</b>				
	9:15	<b>Worrisome Signals:</b> Risk factors which presage patient decline	Nicholas R. Banner, FRCP, Royal Brompton and Harefield NHS Foundation Trust, Harefield, Middlesex	UK
	9:30	<b>RV Assessment and Prediction:</b> Brief overview of impact of RV failure, pre-operative assessment and management of the RV, risk prediction	Jeffrey J. Teuteberg, MD, University of Pittsburgh, Pittsburgh, PA	USA
	9:45	<b>End-Organ Assessment:</b> – Review of organ recoverability: renal, hepatic, vascular, overall medical candidacy	Lee R. Goldberg, MD, MPH, University of Pennsylvania, Philadelphia, PA	USA
	10:00	<b>Timing of Implantation:</b> When is the patient “sick enough” to implant MCS;	Andrew J. Boyle, MD, Cleveland Clinic Florida, Weston, FL	USA
	10:15	Q & A		
Coffee Break	10:30-10:45			
<b>SURGICAL CONSIDERATIONS</b>				
	10:45	<b>Implantation 101:</b> – Overview of the most crucial surgical considerations: inflow cannula/pump placement, driveline, etc.	Nader Moazami, MD, The Cleveland Clinic, Cleveland, OH	USA



SESSION	TIME	PRESENTATION TITLE	SPEAKER	CNTRY
	11:05	<b>How Much Else is Too Much?:</b> Concomitant operative procedures: TV, Aortic valve, prior Dor, congenitals	Stephan Schueler, MD, PhD, FRCS, Newcastle upon Tyne Hospitals Trust	UK
	11:25	<b>Matching Pumps to Patients:</b> Considerations for device type, type of flow based upon patient factors	Mark S. Slaughter, MD, University of Louisville, Louisville, KY	USA
	11:45	<b>Q &amp; A</b>		
<b>Lunch Break</b>	<b>Noon-1:00</b>	(Lunch on own; delegates are encouraged to pre-register for a box lunch so they can spend the lunch break interacting with the faculty)		
<b>POST-OP</b>	<b>1:00-2:15</b>			
	1:00	<b>Managing the RV:</b> Post-operative approach to the RV: surgical considerations, pump speed, iNo, inotropes, etc.	David S. Feldman, MD, PhD FACC, FAHA, Minneapolis Heart Institute, Minneapolis, MN	USA
	1:20	<b>Anticoagulation:</b> Overview of the timing and type of anticoagulation, means to monitor state of anticoagulation, anticoagulation management for elective procedures	Vivek Rao, MD, PhD, Toronto General Hospital, Toronto, ON	CANADA
	1:40	<b>The Role of Imaging:</b> Managing the VAD Patient	Shashank S. Desai, MD, Inova Fairfax Hospital, Falls Church, VA	USA
	2:00	<b>Q &amp; A</b>		
<b>TRANSITION TO HOME</b>	<b>2:15-3:15</b>			
	2:15	<b>Teaching/Patient Assessment:</b> Outline of approach to teaching patient and their family and community	Michael G. Petty, PhD, RN, CCNS, CNS, University of Minnesota-Fairview, Minneapolis, MN	USA
	2:30	<b>Outpatient Management:</b> Clinic structure, typical items addressed, focused medical management (BP, rhythms, etc.), rehab	Joseph G. Rogers, MD, Duke University Medical Center, Durham, NC	USA
	2:45	<b>Quality of Life, Functional Capacity, End of Life:</b> The need for, timing of and measures to assess	Salpy Pamboukian, MD, University of Alabama at Birmingham, Birmingham, AL	USA
	3:00	<b>Q &amp; A</b>		
<b>Coffee Break</b>	<b>3:15-3:30</b>			
<b>LONG-TERM MANAGEMENT AND CASE STUDIES</b>	<b>3:30-5:10</b>			



SESSION	TIME	PRESENTATION TITLE	SPEAKER	CNTRY
	3:30	<b>Infections:</b> Prevention, diagnosis, medical and surgical management	Evgenij Potapov, MD, PhD, Deutsches Herzzentrum Berlin, Berlin	GERMANY
	3:45	<b>Case and Discussion</b>		
	3:55	<b>GI Bleeding:</b> Review of pathophysiology, incidence and diagnostic/therapeutic approach	Benjamin C. Sun, MD, Minneapolis Heart Institute, Minneapolis, MN	USA
	4:10	<b>Case and Discussion</b>		
	4:20	<b>Pump Thrombosis:</b> Diagnostic and management Algorithm	Daniel J. Goldstein, MD, Montefiore Medical Center, Bronx, NY	USA
	4:35	<b>Case and Discussion</b>		
	4:45	<b>Aortic Insufficiency:</b> Incidence, screening, management	Martin Strueber, MD, University Heart Center Leipzig, Leipzig	GERMANY
	5:00	<b>Case and Discussion</b>		
		<b>Case Discussant Panel:</b>	Christopher T. Salerno, MD, St. Vincent Heart Center of Indiana, Indianapolis, IN Sean P. Pinney, MD, Mount Sinai Medical Center, New York, NY Michele Pilato, MD, ISMETT, Palermo	USA USA ITALY
<b>ISHLT MCS GUIDELINES PANEL DISCUSSION</b>	<b>5:10-5:20</b>			
		<b>Discussants:</b>	David S. Feldman, MD, PhD, FACC, FAHA, Minneapolis Heart Institute, Minneapolis, MN Salpy Pamboukian, MD, MSPH University of Alabama at Birmingham, Birmingham, AL Jeffrey J. Teuteberg, MD, University of Pittsburgh, Pittsburgh, PA	USA USA USA
<b>SUMMARY/ADJOURN</b>	<b>5:20</b>			
<b>Reception</b>	<b>5:30-6:30</b>			