



# ishlt academy

## 2012 ISHLT ACADEMY: CORE COMPETENCIES IN MECHANICAL CIRCULATORY SUPPORT

**The day prior to the 2012 Annual Meeting, we will be conducting the third ISHLT Academy: Core Competencies in Mechanical Circulatory Support. The complete program follows on the next few pages. If you are unable to attend the ISHLT Academy this year, you may order a DVD of the activity. Order forms will be available at the ISHLT Registration Desk. A substantial discount is available to those who purchase the DVD while at the 2012 Annual Meeting.**

In response to goals developed at the ISHLT 2006-2007 Strategic Planning Meeting, the Society is pleased to announce the establishment of the ISHLT academy. The ISHLT Academy draws on the wealth of experience and expertise within the society to deliver high quality educational experiences with the goal of enabling our members to improve and maintain the highest possible standards in the care of patients with advanced heart and lung disease and those undergoing heart or lung transplantation. The ISHLT Academy represents the 'brand name' that will be associated with the educational opportunities offered by the ISHLT to its members and interested non-members. The purpose of the ISHLT Academy is to develop an enduring resource of education in core competencies in the field of cardiopulmonary transplantation, mechanical and biological support of the failing heart, advanced lung disease (including pulmonary vascular disease) and cell replacement therapy. These educational endeavors will complement the ISHLT's existing activities in the promulgation of new science, registry analyses, guideline statements and monograph series as a consolidated activity designed to train and educate young clinicians, trainees and those looking for a refresher course in clinical practice mandates in the field.

The opportunities provided by the ISHLT Academy will be multi-modality and multi-disciplinary and will be guided by the identified educational needs or 'practice gaps' of ISHLT members. When available, core curriculum and competency documents for different disciplines within the society will guide content of ISHLT Academy activities. The activities of the

academy will run throughout the Society's interface with its members with material provided in written format via articles in the Journal of Heart and Lung Transplantation, via the ISHLT Monograph series, and via educational meetings.

## WHAT THIS COURSE PROVIDES

The ISHLT Academy: Core Competencies in Mechanical Circulatory Support 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, critical care physicians, 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. 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 educational workforce of the Mechanical Circulatory Support Council of the ISHLT is confident this will be the most comprehensive and valuable summary for practitioners in the field of mechanical circulatory support.

## ISHLT CORE COMPETENCIES – MECHANICAL CIRCULATORY SUPPORT 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 COMPETENCY – MECHANICAL CIRCULATORY SUPPORT

**CHAIRS:** Jeffrey Teuteberg, MD, Andreas Zuckermann, MD, David Feldman, MD, PhD, FAHA, FACC

SESSION	TIME	TITLE - GOAL OF TALK	SPEAKER	CNTRY
Introduction	7:30-7:45	Welcome and Brief Overview	Jeff Teuteberg University of Pittsburgh, Pittsburgh, PA	US
<b>1 – Review of the Current State of MCS</b>	<b>7:45-8:45</b>			
		<b>Technology 101:</b> review of current technologies, types of flow, pump parameters	Frank Pagani University of Michigan	US
		<b>BTT/Long-Term Support/Recovery:</b> review state of outcomes and adverse events with current technologies	Andreas Zuckermann University of Vienna	Austria
		<b>Shock</b> (15 min) – role of biventricular support, TAH and ECMO	Alain Pavie La Pitie	France
		<b>Q&amp;A</b> (15 min)		
<b>2 – Patient Selection</b>	<b>8:45-9:45</b>			
		<b>Worrisome Signals</b> (15 min) – risk factors which presage patient decline: renal function, intolerance of medications, hospitalizations, etc.	Nicholas Banner Harefield Hospital	UK
		<b>Risk Prediction Models</b> (15 min) – review of risk prediction, what they can and can't tell us: MVO2, SHFM, etc.	Keith Aaronson University of Michigan	US
		<b>Timing of Implantation</b> (15 min) – when is the patient “sick enough” to implant MCS; case studies	Andy Boyle Aurora, St. Luke's	US
		<b>Q&amp;A</b> (15 min)		
<b>Break</b>	<b>9:45-10:00</b>			
<b>3 – Medical Considerations</b>	<b>10:00-11:00</b>			
		<b>RV Assessment and Prediction</b> (15 min) brief overview of impact of RV failure, pre-operative assessment and management of the RV, risk prediction; case examples	David Feldman Abbott Northwestern	US
		<b>End-organ Assessment</b> (15 min) – review of organ recoverability: renal, hepatic, vascular, overall medical candidacy	Stewart Russell Hopkins	US
		<b>Infection: ISHLT Consensus</b> (15 min) – overview of the ISHLT consensus guideline definitions of infections	Frauke Mattner Kliniken der Stadt Köln gGmbH	Germany
		<b>Q&amp;A</b> (15 min)		

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SESSION	TIME	TITLE - GOAL OF TALK	SPEAKER	CNTRY
<b>4 - Surgical Considerations</b>	11:00-12:00			
		<b>Implantation 101</b> (15 min) – overview of the most crucial surgical considerations: inflow cannula/pump placement, driveline, etc	Nader Moazami Abbott Northwestern	US
		<b>How Much Else is Too Much?</b> (15 min) concomitant operative procedures: TV, Aortic valve, prior Dor, congenitals	Roland Hetzer Berlin Heart Institute	Germany
		<b>Matching Pumps to Patients</b> (15 min) – considerations for device type, type of flow based upon patient factors	Mark Slaughter University of Louisville	US
		<b>Q&amp;A</b> (15 min)		
<b>5 - Pediatric Considerations</b>	12:00-12:15			
		<b>Pediatric Perspective</b> (15 min) – on current state of technology, patient/device selection, medical/surgical considerations	David Morales Texas Children's Hospital	US
<b>Lunch</b>	12:15-1:30			
		<b>Box lunches are available</b> for advance purchase via the registration form.  The lunch break will provide an excellent opportunity for participants and faculty to interact.		
<b>6 - Post-op</b>	1:30-2:30			
		<b>Post-op Pearls in the ICU</b> (15 min) – managing the patient in the immediate post-operative period	Angela Rajek University of Vienna	Austria
		<b>Managing the RV</b> (15 min) – post-operative approach to the RV: surgical considerations, pump speed, iNO, inotropes, etc	Martin Strueber Hannover	Germany
		<b>Anticoagulation</b> (15 min) – overview of the timing and type of anticoagulation, means to monitor state of anticoagulation, anticoagulation management for elective procedures	Vivek Rao University of Toronto	Canada
		<b>Q&amp;A</b> (15 min)		

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SESSION	TIME	TITLE - GOAL OF TALK	SPEAKER	CNTRY
<b>7 - Transition to Home</b>	<b>2:30-3:30</b>			
		<b>Teaching/Patient Assessment</b> (15 min) outline of approach to teaching patient and their family and community	Michael Petty University of Minnesota	US
		<b>Keeping Patients at Home</b> (15 min) – community support, restrictions, role of local providers	Karl Nelson Intermountain Health	US
		<b>Quality of Life and Functional Capacity</b> (15 min) – the need for, timing of and measures to assess	Kathy Grady Northwestern University	US
		<b>Q&amp;A</b> (15 min)		
<b>Break</b>	<b>3:30-3:45</b>			
<b>8 - Long-Term Management</b>	<b>3:45-5:15</b>			
		<b>GI Bleeding</b> (15 min) – review of pathophysiology, incidence, and diagnostic/therapeutic approach	Danny Goldstein Montefiore, NY	US
		<b>Driveline Infections</b> (15 min) – definition (ISHLT consensus statement), prevention, treatment	Evjenij Potapov German Heart Institute Berlin	Germany
		<b>Outpatient Management</b> (15 min) – clinic structure, typical items addressed, focused medical management (BP, rhythms, etc), rehab	Joe Rogers Duke	US
		<b>Role of Imaging</b> (15 min) – Echo (basic views, how to assess functionality, set speed, how often, case presentations); CT (when it is useful, what can really be assessed, cases presentation)	Shashank Desai Inova Fairfax	US
		<b>End of Life Considerations</b> (15 min) – cause of death on MCS, establishing goals, end-of-life care	Salpy Pamboukian University of Alabama, Birmingham	US
		<b>Q&amp;A</b> (15 min)		

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SESSION	TIME	TITLE - GOAL OF TALK	SPEAKER	CNTRY
<b>9 - Trouble Shooting</b>	<b>5:15-6:00</b>			
		<b>Case Presentations:</b>		
		<b>RV Function</b>	Michele Pilato ISMETT, Palermo	Italy
		<b>Driveline</b>	Chris Salerno St. Vincent	US
		<b>Hemolysis/Bleeding</b>	Sean Pinney Mt. Sinani	US
		<b>Thrombus</b>	George Wieselthaler University of Vienna	Austria
<b>Review</b>	<b>6:00-6:15</b>			
		<b>ISHLT MCS Guidelines</b>	Jeffrey Teuteberg University of Pittsburgh	US
			Andreas Zuckermann University of Vienna	Austria
			David Feldman Abbott Northwestern	US
<b>Summary/Adjuourn</b>	<b>6:15</b>			
<b>Reception</b>	<b>6:15-7:45</b>			

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The ISHLT Academy, Core Competencies in Mechanical Circulatory Support, has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education. The International Society for Heart and Lung Transplantation (ISHLT) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. ISHLT designates this live activity for a maximum of 8.75 *AMA PRA Category 1 Credit(s)*.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

