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 and/or are part of a new program or desire an update on the current state of the field. The information presented covers core competencies and 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 experts in the field.

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

1. Explain how to risk stratify patient with advanced heart failure in order to assess MCS surgical risk and optimally time mechanical circulatory support (MCS) implantation.
2. Discuss the medical and social factors which impact patient outcomes during short- and long-term MCS.
3. Recognize the various types of MCS support available for patients with advanced single or biventricular heart failure and the technological differences that may impact pump selection and patient/device management.
4. Identify MCS implantation techniques and patient/pump management during the index admission intensive care unit and inpatient general care periods.
5. Describe how to manage patients and the MCS during outpatient long-term support with an understanding of interventions that can reduce patient- and device-related adverse events during MCS.
6. Diagnose and manage common clinical dilemmas and adverse encountered after MCS.
**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 8.00 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. 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.

**SCIENTIFIC PROGRAM SCHEDULE**

- **7:00 AM – 8:00 AM**
  - MORNING COFFEE AND REGISTRATION

- **8:00 AM – 9:15 AM**
  - **SESSION 1: Review of The Current State of MCS**
  - Chair: Diyar Saeed, MD
  - **8:05 AM**
    - **MCS Technology 101**
    - Scott Silvestry, MD, Florida Transplant Institute, Orlando, FL, USA
    - Review of current technologies available, pump behaviors with different loading conditions, and the TAH.

- **8:25 AM**
  - **BTT and DT Outcome**
  - Lynne Warner Stevenson, MD, Brigham & Women’s Hospital, Boston, MA, USA
  - Review state of outcomes and adverse events with current technologies

- **8:40 AM**
  - **Short-term Support and Shock**
  - Jonathan Haft, MD, University of Michigan, Ann Arbor, MI, USA
  - Overview of percutaneous technologies, biventricular support considerations, and ECMO.

- **9:00 AM**
  - **Q&A with Panel**
9:15 AM – 10:30 AM
SESSION 2: Patient Selection
Chair: Scott Silvestry, MD

9:15 AM When Should Patients be Referred: Warning Signs
Douglas Horstmannhoff, MD, PhD, Integris Baptist Medical Center, Oklahoma City, OK, USA
Risk factors which presage patient decline (renal function, intolerance of medications, hospitalizations, etc, helping to risk stratify patients based on HF severity and MCS operative risk.

9:35 AM Assessing and Optimizing RV Function Preoperatively
Thomas Krabatsch, MD, PhD, Deutsches Herzzentrum, Berlin, Germany
Impact of RV failure, pre-operative assessment and management of the RV including imaging and risk prediction. Cases included.

9:55 AM Quality of Life After VAD and the Impact of Frailty and Social Behaviors on VAD Success
Kathleen Grady, PhD, APN, FAAN, Northwestern University, Chicago, IL, USA
Other factors that can have a significant impact on success after VAD and some screening tools available for risk assessment.

10:15 AM Q&A with Panel

10:30 AM – 10:45 AM
COFFEE BREAK

10:45 AM – 12:00 PM
SESSION 3: Surgical Considerations
Chair: Vivek Rao, MD, PhD

10:45 AM Key Surgical Aspects of Implantation
Nader Moazami, MD, Cleveland Clinic, Cleveland, OH, USA
Overview of the most crucial surgical considerations: inflow cannula/pump placement, driveline, etc.

11:05 AM How Much Else is Too Much?
Daniel Zimpfer, MD, Medical University of Vienna, Vienna, Austria
Concomitant operative procedures: TV, Aortic valve, prior DOR, congenitals

11:25 AM Tailoring Pumps to Patients
Diyar Saeed, MD, Heinrich-Heine University, Dusseldorf, Germany
Case based discussion of considerations for pump-patient matching * will add in TAH discuss

11:45 AM Q&A with Panel

12:00 PM – 1:00 PM
LUNCH BREAK (a box lunch is included in the registration fee)