

CORE COMPETENCIES IN HEART FAILURE AND CARDIAC TRANSPLANTATION

TUESDAY, APRIL 10, 2018
MEDITERRANEE ABC

7:55 AM - 5:30 PM



SCIENTIFIC PROGRAM COMMITTEE

CHAIR: Shelley Hall, MD, Baylor University Medical Center, Dallas, TX, USA

CO-CHAIR: Lavanya Bellumkonda, MD, Yale University of Medicine, New Haven, CT, USA

CO-CHAIR: Eric Epailly, MD, Les Hopitaux University, Strasbourg, France

FACULTY

David Baran, MD, Newark Beth Israel Medical Center, Newark, NJ, USA

Lavanya Bellumkonda, MD, Yale University School of Medicine, New Haven, CT, USA

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

Eugene C. DePasquale, MD, David Geffen School of Medicine, Los Angeles, CA, USA

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Marta Farrero Torres, MD, PhD, Hospital Clinic de Barcelona, Barcelona, Spain

Maria Frigerio, MD, A.O. Niguarda-Ca'Granda, Milan, Italy

Shelley Hall, MD. Baylor University Medical Center, Dallas, TX, USA

Ranjit John, MD, University of Minnesota, Minneapolis, MN, USA

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

Luciano Potena, MD, PhD, University of Bologna, Bologna, Italy

Daniel Reichart, MD, University Heart Center Hamburg, Hamburg, Germany

Scott Silvestry, MD, Florida Hospital Transplant Institute, Orlando, FL, USA

Jean-Luc Vachiery, MD, Erasme University Hospital, Brussels, Belgium

Andre Vincentelli, MD, PhD, CHU Regional de Lille Hospital Cardiologique, Lille, France



CORE COMPETENCIES IN HEART FAILURE AND CARDIAC TRANSPLANTATION

COURSE SUMMARY

This course is designed for early career professionals with an interest in congestive heart failure, cardiac transplantation, and mechanical circulatory support. Each section is designed with focused, didactic lectures followed by Q&A. The first section will cover the general topics of heart failure – definitions, epidemiology, pathophysiology, and etiology. It will then move to signs and symptoms, diagnostic process and management, and treatment modalities, followed by a focus on the acute decompensated heart – challenges in recognition and treatment, as well as new developments. The second section will review updates in the understanding and treatment of heart failure with preserved ejection fraction HFpEF, and pulmonary hypertension with an emphasis on its relationship with heart failure. The third section will encompass the cardiac transplant patient, from evaluation of the recipient candidate and donor to perioperative management principles, immunology, immunosuppression, rejection and common long-term challenges. The final section will review the history and development of mechanical circulatory support and management of common complications.

PRACTICE GAPS

Heart failure is a leading cause of morbidity and mortality world-wide, and while significant advances have occurred, they are still not consistently implemented in every day practice. Clinicians need to understand the principles of acute and chronic heart failure disease management, including advanced treatment options, in order to deliver optimal care to these complex patients.

TARGET AUDIENCE

While all members are invited to enroll, this course is primarily designed to benefit health care professionals who are in the early stages of their careers, are in training, are part of a new program, or who desire an update on the current state of the field. The information presented is intended to provide a strong foundation of the core competencies of heart failure, cardiac transplantation and mechanical circulatory support, rather than as a detailed update for those who are already proficient in the field.

EDUCATIONAL NEED

This course is designed to meeting the practitioner's education need for a targeted review of clinical knowledge and essential professional skills to facilitate best practice of surgical and medical aspects involved in the care of patients with heart failure, cardiac transplantation, and mechanical circulatory support devices.



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LEARNING OBJECTIVES

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

- 1. Understand the general concepts, definitions and management principles of patients with heart failure.
- 2. Understand the general concepts, indications, contraindications and management principles of patients who are evaluated for and receive cardiac transplant.
- 3. Understand the general concepts, indications, contraindications and management principles of patients who are evaluated for, and receive mechanical circulatory support devices.

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 7.50 *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 ISHLT. Maximum of 7.50 contact hours.

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/Faculty/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.

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SCIENTIFIC PROGRAM SCHEDULE

7:00 AM - 7:55 AM

REGISTRATION & MORNING COFFEE

7:55 AM - 8:00 AM WELCOME AND OVERVIEW

Shelley Hall, MD, Baylor University Medical Center, Dallas, TX, USA

8:00 AM - 9:00 AM SESSION 1: HEART FAILURE: OVERVIEW AND EVALUATION

Chair: Shelley Hall, MD

8:00 AM Heart Failure: General Overview and Concepts

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

Teaching/Discussion Points

- 1. Epidemiology of heart failure
- 2. Classification of heart failure (Stages, NYHA)
- 3. Pathophysiology: hemodynamic alterations
- 4. Pathophysiology: neurohormonal activation
- 5. Pathophysiology: cellular changes
- 6. Causes of heart failure

8:15 AM Evaluation of Patients with Heart Failure

Marta Farrero Torres, MD, PhD, Hospital Clinic de Barcelona, Barcelona, Spain

Teaching/Discussion Points

- 1. Signs and symptoms
- 2. Biomarkers
- 3. Screening guidelines
- 4. Risk stratification
- 5.Indicators for advance therapy referral

8:30 AM Heart Failure Tests

Eugene C. DePasquale, MD, David Geffen School of Medicine, Los Angeles, CA, USA

Teaching/Discussion Points

- 1. Role of right heart catherization and hemodynamic monitoring
- 2. Cardiopulmonary exercise testing interpretation
- 3. When to perform endomyocardial biopsy
- 4. Ischemia evaluation

8:45 AM Q&A with Panel

9:00 AM - 10:00 AM

SESSION 2: MANAGEMENT OF PATIENTS WITH CHRONIC HFref

Chair: Eric Epailly, MD

9:00 AM Non-Pharmacologic and Pharmacologic Management

Lavanya Bellumkonda, MD, Yale University School of Medicine, New Haven, CT, USA

Teaching/Discussion Points

- 1. Sodium and fluid management
- Risk factor modification (obesity, inactivity, sleep apnea, HTN, DM, smoking)
- 3. Diuretics
- 4. Neurohormonal therapies (including new agents)
- 5. Anticoagulation, statins
- 6. Palliative care

9:15 AM Principles for Arrhythmia Management and Electrical Devices

Maria Frigerio, MD, A.O. Niguarda-Ca'Granda, Milan, Italy

Teaching/Discussion Points

- 1. Atrial fibrillation management
- 2. Ventricular arrhythmias
- 3.ICDs
- 4.CRT

9:30 AM Surgical Management of Heart Failure

Daniel Reichart, MD, University Heart Center Hamburg, Hamburg, Germany

Teaching/Discussion Points

- 1. High risk PCI
- 2. Surgical revascularization
- 3. Surgical valve surgery
- 4. TAVR and Mitraclip

9:45 AM *Q&A* with Panel

10:00 AM - 10:30 AM

COFFEE BREAK

10:30 AM – 11:30 AM SESSION 3: ACUTE DECOMPENSATED HEART FAILURE

Chair: Lavanya Bellumkonda, MD

10:30 AM Epidemiology and Pharmacologic Management

David Baran, MD, Newark Beth Israel Medical Center, Newark, NJ, USA

Teaching/Discussion Points

- 1. Definition and epidemiology
- 2. Etiologies and pathophysiology
- 3. Pharmacologic management
- 4. Cardiorenal syndrome
- 5.RV failure

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10:45 AM Cardiogenic Shock

Shelley Hall, MD, Baylor University Medical Center, Dallas, TX, USA

Teaching/Discussion Points

- 1. Recognition of shock
- 2. Inotrope usage
- 3.IABP
- 4. Tandem and Impella
- 5.ECMO

11:00 AM *Transitions of Care*

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

Teaching/Discussion Points

- 1. Home inotropes
- 2. Referral for transplant or VAD
- 3. Palliative care
- 4. Preventing readmissions

11:15 AM *Q&A with Panel*

11:30 AM - 1:00 PM

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

1:00 PM - 2:00 PM

SESSION 4: HFPEF AND PULMONARY HYPERTENSION

Chair: Shelley Hall, MD

1:00 PM *HFpEF*

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

Teaching/Discussion Points

- 1. Definition
- 2. Etiology and triggers
- 3. Epidemiology
- 4. Diagnosis
- 5. Evaluation
- 6. Management

1:20 PM Pulmonary Hypertension: PAH in Heart Failure

Jean-Luc Vachiery, MD, Erasme University Hospital, Brussels, Belgium

Teaching/Discussion Points

- 1. Definition
- 2.WHO classification
- 3. Etiologies
- 4. RHC interpretation
- 5. Medical therapies
- 6. Procedural therapies

1:40 PM Q&A with Panel

2:00 PM - 3:00 PM SESSION 5: HEART TRANSPLANTATION 101

Chair: Lavanya Bellumkonda, MD

2:00 PM Evaluation of the Transplant Candidate

Luciano Potena, MD, PhD, University of Bologna, Bologna, Italy

Teaching/Discussion Points

- 1. Indications for transplant
- 2. Contraindications for transplant
- 3. Evaluation process
- 4. Special groups highly sensitized, retx, congenital
- 5. Allocation systems

2:15 PM Perioperative Management

Ranjit John, MD, University of Minnesota, Minneapolis, MN, USA

Teaching/Discussion Points

- 1.Donor evaluation
- 2. Perioperative drips and monitoring
- 3. Perioperative infectious prophylaxis
- 4. Immunosuppression
- 5. Common complications (RV dysfunction, PGD, Renal dysfunction)

2:30 PM Chronic Care of the Transplant Recipient

Eric Epailly, MD, Les Hopitaux University, Strasbourg, France

Teaching/Discussion Points

- 1.Rejection surveillance and treatment
- 2.Immunosuppression strategies
- 3. Common infectious considerations
- 4. Common medical complications

2:45 PM Q&A with Panel

3:00 PM - 3:30 PM

COFFEE BREAK

3:30 PM - 4:30 PM SESSION 6: MECHANICAL CIRCULATORY SUPPORT

Chair: Eric Epailly, MD

3:30 PM Current Devices and Outcomes

Scott Silvestry, MD, Florida Hospital Transplant Institute, Orlando, FL, USA

Teaching/Discussion Points

- 1. History of device development
- 2. Continuous vs Pulsatile devices
- 3. Axial vs Centrifugal flow
- 4. Evaluation scales
- 5. Candidate selection

3:50 PM Chronic Complications in MCS

Andre Vincentelli MD, PhD,

CHU Regional de Lille Hospital Cardiologique, Lille, France

Teaching/Discussion Points

- 1.GI bleeding
- 2.CVA
- 3. Driveline infections
- 4. Aortic insufficiency
- 5. Pump thrombosis
- 6.Late RV failure

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4:10 PM *Q&A with panel*

4:30 PM - 5:30 PM SESSION 7: CASE PRESENTATIONS

Chairs: Shelley Hall, MD;

Lavanya Bellumkonda, MD;

Eric Epailly, MD

4:30 PM Cardiogenic Shock Case

David Baran MD, Newark Beth Israel Medical Center, Newark, NJ, USA

Teaching/Discussion Points

- 1. Emphasize evaluation process
- 2. Discuss treatment options
- 3. Review triggers for transplant/ VAD consideration
- 4. Mention criteria for palliative care

4:45 PM Transplant vs VAD Case

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

Teaching/Discussion Points

- 1. Standard patient profile
- 2. Data that supports transplant vs VAD
- 3. How to decide
- 4. When is it too late?

5:00 PM Q&A with Panel

5:15 PM COURSE SUMMARY AND EVALUATION

Shelley Hall MD, Baylor University Medical Center, Dallas, TX, USA

5:30 PM ADJOURN