



**CORE COMPETENCIES IN
INFECTIOUS DISEASES
IN THORACIC TRANSPLANTATION AND
MECHANICAL CIRCULATORY SUPPORT**

**Tuesday, April 4, 2017
7:45 AM – 5:15 PM
Manchester Grand Hyatt Hotel,
San Diego, California, USA**

GRAND HALL C

**ISHLT ACADEMY
CORE COMPETENCIES IN INFECTIOUS DISEASES IN THORACIC
TRANSPLANTATION AND MECHANICAL CIRCULATORY SUPPORT**

Tuesday, April 4, 2017

Scientific Program Committee

Chair: Martha Mooney, MD, FACP, Sentara Norfolk Transplant Center/Eastern Virginia Medical School, Norfolk, VA, USA

Co-Chair: Shahid Husain, MD, MS, University Health Network, Toronto, ON, Canada

Members: Michele Estabrook, MD, St. Louis Children's Hospital, St. Louis, MO, USA
Robin Avery, MD, Johns Hopkins University, Baltimore, MD, USA
Kate Gould, FRCPath, NUTH NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom
Orla Morrissey, MD, The Alfred Hospital, Melbourne, Australia

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 infectious disease concerns in cardiothoracic transplantation and mechanical circulatory 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:

- Explain how to utilize pre-transplant evaluation and screening of the cardiothoracic transplant recipient and donor to minimize the risk of infections in cardiothoracic transplant and MCS recipients
- Describe how to control and prevent infection in cardiothoracic transplantation and MCS recipients
- Identify clinical infections and how to use diagnostic methodology for the detection of bacterial, fungal, viral, and parasitic infectious diseases
- Discuss the pharmacology of anti-infective agents in cardiothoracic transplant and MCS recipients.

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 7.75 *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 7.75 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/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 – 7:45 AM

REGISTRATION & MORNING COFFEE

7:45 AM – 8:00 AM

WELCOME & OVERVIEW

Martha Mooney, MD, FACP, Sentara Norfolk Transplant Center/EVMS, Norfolk, VA, USA

Shahid Husain, MD, MS, University Health Network, Toronto, ON, Canada

8:00 AM – 9:20 AM

SESSION 1: IMPACT OF SURGERY AND IMMUNOSUPPRESSION ON INFECTION IN CT TX RECIPIENT AND DONOR SELECTION CONSIDERATIONS

8:00 AM *Impact of the Surgical Transplant Procedure on Infection Risk in CT TX*

Andreas Zuckermann, MD, Medical University of Vienna, Vienna, Austria

8:15 AM *The Devil Made Me Do It: Impact of Immunosuppression on Infection Risk in CT TX*

Shahid Husain, MD, MS, University Health Network, Toronto, ON, Canada

8:30 AM *Not All Transplant Recipients are Created Equal! Pre-transplant Screening of Recipients*

Michele Estabrook, MD, St. Louis Children's Hospital, St. Louis, MO, USA

8:50 AM *Beware the Trojan Horse: Pre-transplant Screening of Donors and Donor Derived Infections*

Valentina Stosor, MD, Northwestern University Feinberg School of Medicine, Chicago, IL, USA

9:10 AM Q & A

9:20 AM – 10:20 AM

SESSION 2: DIAGNOSING INFECTION IN CT TX AND TREATMENT CONSIDERATIONS

9:20 AM *Diagnostic Microbiology and Pathology for Infections in CT TX*

Kate Gould, FRCPath, Freeman Hospital, Newcastle Upon Tyne, United Kingdom

9:40 AM *Diagnostic Radiology for Infections in CT TX*

Allan Glanville, MBBS, MD, FRACP, St. Vincent's Hospital, Sydney, Australia

9:55 AM *This Could Happen to You...Drug Interactions and Toxicity Errors to Avoid with Anti-infectives and Immunosuppression and Cracking the Therapeutic Drug Monitoring Code*

Christopher Ensor, PharmD, BCPS-CV, University of Pittsburgh, Pittsburgh, PA, USA

10:15 AM Q & A

10:20 AM – 10:35 AM

COFFEE BREAK

10:35 AM – 11:35 AM

SESSION 3: BACTERIAL AND PARASITIC PATHOGENS

10:35 AM *Nosocomial Threats and Tackling Multidrug Resistant Bacteria: If We Persist, We Will Wear Down the Resistance!*

Kate Gould, FRCPath, Freeman Hospital, Newcastle Upon Tyne, United Kingdom

10:55 AM *Bugs that Upset Us and Send Us into Orbit: Mycobacteria and Nocardia*

Orla Morrissey, MD, The Alfred Hospital, Melbourne, Australia

11:10 AM *Unwelcome Visitors: Parasitic Infections in CT TX: Toxoplasmosis, Strongyloidiasis, Chagas*

Fernando Bacal, MD, University of Sao Paulo, Sao Paulo, Brazil

11:25 AM Q & A

11:35 AM – 12:45 PM

SESSION 4: VIRAL INFECTIONS IN CT TX

11:35 AM *CMV: a Perennial Problem*

Martha Mooney, MD, FACP, Sentara Norfolk Transplant Center/EVMS, Norfolk, VA, USA

11:50 AM *EBV/PTLD: a Continual Conundrum*

Erik Verschuuren, MD, PhD, University Medical Centre Groningen, Groningen, The Netherlands

12:05 PM *Challenges from the Community: Respiratory Viruses, Parvovirus, Norovirus and Others*

Joanna Schaenman, MD, PhD, University of California Los Angeles, Los Angeles, CA, USA

12:20 PM *HIV, HCV, HBV: Risks Redefined?*

Emily Blumberg, MD, University of Pennsylvania, Philadelphia, PA, USA

12:40 PM Q & A

12:45 PM - 1:45 PM

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

1:45 PM – 2:55 PM

SESSION 5: FUNGAL INFECTIONS AND OTHER AREAS OF CONCERN FOR TRAVEL AND SAFE LIVING AFTER CT TX

1:45 PM *There is a Fungus Among Us. Perils from Without: Mold, Yeast, and Guidelines*

Shahid Husain, MD, MS, University Health Network, Toronto, ON, Canada

2:05 PM *Perils from Within: Endemic Fungi*

Me-Linh Luong, MD, St. Luc Hospital, Montreal, PQ, Canada

2:20 PM *Emerging Fungal Pathogens*

Orla Morrissey, MD, The Alfred Hospital, Melbourne, Australia

2:35 PM *Life in the Global Community after Transplant: Travel, Safe Living and Emerging Pathogens. Real Risks Outside the Bubble: Roaming Charges*

Michele Estabrook, MD, St. Louis Children's Hospital, St. Louis, MO, USA

2:50 PM Q & A

2:55 PM - 3:10 PM

COFFEE BREAK

3:10 PM – 4:10 PM

SESSION 6: INFECTION IN THE SETTING OF MECHANICAL CIRCULATORY SUPPORT (MCS)

3:10 PM *An Ounce of Prevention Saves a Pound of Hurt: Prevention and Diagnosis of Infections in MCS*

Saima Aslam, MD, MS, University of California San Diego, San Diego, CA, USA

3:25 PM *VAD Gone Bad: Medical and Surgical Remedies of VAD Specific and VAD Related Infections*

Martha Mooney, MD, FACP, Sentara Norfolk Transplant Center/EVMS, Norfolk, VA, USA

3:45 PM *Hungry Circuits in Extracorporeal Support (ECMO, Plasmapheresis, Renal Replacement Therapy) and Steering Clear of Anticoagulation Glitches with Antibiotics in Mechanical Circulatory Support*

Haifa Lyster, MSc, Royal Brompton, Middlesex, United Kingdom

4:00 PM Q & A

4:10 PM – 5:00 PM

SESSION 7: WHEN THE RUBBER HITS THE ROAD: CASE PRESENTATIONS

4:10 PM *CASE 1: HIV/HBV/HCV in Cardiothoracic Transplantation*

Emily Blumberg, MD, University of Pennsylvania, Philadelphia, PA, USA

4:30 PM *CASE 2: Lung Transplant Recipient with Pulmonary Infiltrates: Transplant Infectious Disease Consults Transplant Pulmonologist to Make the Diagnosis*

Aric Gregson, MD, University of California Los Angeles School of Medicine, Los Angeles, CA, USA

Allan Glanville, MBBS, MD, FRACP, St. Vincent's Hospital, Sydney, Australia

4:50 PM Q & A

5:00 PM – 5:15 PM

COURSE SUMMARY & EVALUATION

Martha Mooney, MD, FACP, Sentara Norfolk Transplant Center/EVMS, Norfolk, VA, USA

Shahid Husain, MD, MS, University Health Network, Toronto, ON, Canada

5:15 PM

ADJOURN