



APRIL 2, 2019 • 7:45 AM – 6:15 PM

*Pacifica 3-5, Loews Royal Pacific Hotel
Orlando, FL, USA*

SCIENTIFIC PROGRAM CHAIRS

CHAIR: Sarah Schettle, PA-C, Mayo Clinic College of Medicine, Rochester, MN, USA

CO-CHAIRS: Connie White-Williams PhD, RN, NE-BC, FAAN, University of Alabama at Birmingham Hospital, Birmingham, AL, USA

Patricia M. Leisfield, RN, The Prince Charles Hospital, Queensland, Australia

FACULTY

Nancy P. Blumenthal, DNP, CRNP, University of Pennsylvania Medical Center, Philadelphia, PA, USA

Caron Burch, RN, MSN, FNP, CCTC, UCSF Benioff Children's Hospital, Redwood City, CA, USA

Susan M. Chernenko, RN, MN, NP, Toronto General Hospital, Toronto, ON, Canada

Pamela S. Combs, PhD, RN, University of Chicago, Chicago, IL, USA

Margaret M. Fregoso, NP, Inova Transplant Center, Fairfax, VA, USA

Steven P. Ivulich, BPharm, Alfred Hospital, Melbourne, VC, Australia

Colleen J. Juricek-LaBuhn, University of Chicago, Chicago, IL, USA

Jane MacIver, RN, NP, PhD, Toronto General Hospital, Toronto, ON, Canada

Tara E. Miller, FNP, Duke University Medical Center, Durham, NC, USA

Linda Ohler, MSN, FAAN, FAST, New York University, New York, NY, USA

Michael G. Petty, PhD, RN, CNS, University of Minnesota Medical Center, Minneapolis, MN, USA

Desiree Robson, RN, BSc (Hons), St. Vincent's Hospital, Sydney, NSW, Australia

Nicola Robinson Smith, RN, Newcastle Upon Tyne Hospitals NHS, Newcastle Upon Tyne, UK

Thomas Schlöglhofer, MSc, Medical University of Vienna, Vienna, Austria

Sarah E. Schroeder, ACNP-BC, MSN RN, Bryan Heart, Lincoln, NE, USA

Angela W. Velleca, RN, BSN, CCTC, Cedars Sinai Heart Institute, Los Angeles, CA, USA

Jo Wray, PhD, Great Ormond Street Hospital, London, UK



Educational Goals

This Academy is intended to offer a concise synopsis of clinical knowledge to support mastery of the core competencies of the selection, pre-transplant, perioperative, and post-transplant management of the thoracic transplant organ recipient by Nursing, Health Sciences, and Allied Health professionals. In addition to basic knowledge, attention is also paid to patients with special needs who require transplantation and to the Nursing, Health Sciences, and Allied Health professionals caring for this unique population.

Target Audience

While all members are invited to enroll, this course is primarily designed to be of benefit for Nursing, Health Sciences, Allied Health professionals who are in the early stages of their careers, or who are in training and/or are part of a new program, or who 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 thoracic transplant 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 Course, participants will have improved competence and professional performance in their ability to:

1. Understand the role of the Transplant and MCS Coordinator and how to evaluate, manage, and care for patients for the short term and long term within this role.
2. Recognize and appreciate challenges with patients with special needs and identify strategies to implement quality care for all patients.
3. Identify patient needs at the end of life, how to meet these needs and how to practice self-care.

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 8.25 *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 8.25 contact hours.

Disclosure

Current guidelines state that participants in CME activities must be made aware of any affiliation or financial interests 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

7:00 AM – 7:45 AM

REGISTRATION AND MORNING COFFEE

7:45 AM – 8:00 AM

WELCOME AND OVERVIEW

Sarah Schettle, A-C, Mayo Clinic, Rochester, MN, USA

8:00 AM – 8:30 AM

**SESSION 1 – Role of the Transplant and MCS
Coordinator: Evolution and Current Practice**

CHAIR: Connie White-Williams, PhD, RN, NE-BC, FAAN

SUMMARY

- Establish context and historical background of the Coordinator role.
- Appreciate role differences and variations pending educational backgrounds and training of the provider.
- Understand how different roles are integrated in the multidisciplinary team.
- Learn international role variations.
- Understand opportunities and challenges the role poses.

8:00 AM *Evolution of the Heart and Lung Transplant and MCS Coordinator Role*

Linda Ohler, MSN, FAAN, FAST, New York University, New York, NY, USA

Teaching/Discussion Points

1. RNs and NP/PA/CNS providers.
2. Combined transplant/MCS role and separate roles.
3. Integration and role within the transplant and MCS team.
4. Opportunities, challenges, and limitations of the role.

8:15 AM *Global Role Variations*

Thomas Schlöglhofer, MSc, Medical University of Vienna, Vienna, Austria

Teaching/Discussion Points

1. Variation in provider training and degrees.
2. Understanding of Coordinator role and Transplant role.
3. Integration and collaboration.

8:30 AM – 9:30 AM

SESSION 2 – Evaluation and Management of the Advanced Thoracic Organ Failure Patient

CHAIR: Patricia Leisfield, RN

SUMMARY

- Understand when a provider should consider referring patients for advanced therapy.
- Establish elements for evaluation for heart and lung transplant candidates and mechanical circulatory support device candidates.
- Understand the various tests and imaging required as a part of the evaluation process.
- Learn the role of the coordinator throughout the evaluation of the patient.
- Understand components of a psychosocial evaluation prior to consideration for advanced therapy.
- Describe new metrics in the evaluation process and to appreciate recent changes in evaluation and management.

8:30 AM *When to Refer...and do They Meet Criteria?*

Colleen J. Juricek-LaBuhn, University of Chicago, Chicago, IL, USA

Teaching/Discussion Points

1. Referral and indications/contraindications for heart and lung transplantation and MCS placement.
2. Referral methods, timing, evaluation, and evaluation efficiencies.
3. Contraindications for MCS and differences with VAD and TAH.
4. Shared Care.

8:45 AM *Evaluation and Management*

Nancy P. Blumenthal, DNP, CRNP, University of Pennsylvania Medical Center, Philadelphia, PA, USA

Teaching/Discussion Points

1. Heart transplant candidacy
 - a. Elements of evaluation
 - i. Tests
 - ii. Imaging
 - iii. Transplant coordinator role
 - b. Decision-making
2. Lung transplant candidacy
 - a. Elements of evaluation
 - i. Tests
 - ii. Imaging
 - iii. Transplant coordinator role
 - b. Decision-making
3. MCS (LVAD and/or TAH) candidacy
 - a. Elements of evaluation
 - i. Tests
 - ii. Imaging
 - iii. Transplant coordinator role
 - b. Decision-making for BTT vs DT

9:00 AM *Psychosocial Issues pre-Transplant and pre-MCS*

Sarah E. Schroeder, ACNP-BC, MSN RN, Bryan Heart, Lincoln, NE, USA

Teaching/Discussion Points

1. Substance abuse.
2. Support systems and identification of caregivers.
3. Patient and family education.
4. Postop management.

9:15 AM *Hot Topics in Evaluation*

Jane MacIver, RN, NP, PhD, Toronto General Hospital, Toronto, ON, Canada

Teaching/Discussion Points

1. Frailty
2. Financial assessment (International) and coverage (US-Focused).
3. Upcoming changes to UNOS listings
 - a. New programs – how to share knowledge between.

9:30 AM – 10:00 AM

COFFEE BREAK

10:00 AM – 11:00 AM

SESSION 3 – Caring for the Listed Patient

CHAIR: **Connie White-Williams, PhD, RN, NE-BC, FAAN**

SUMMARY

- Understand the process of organ allocation and patient listing internationally.
- Increase knowledge about transplant immunology and key components of the immune system that influence transplantation.
- Establish risk factors of sensitization and mechanisms for desensitization.
- Learn appropriate monitoring strategies of antibodies pre- and post-transplant.
- Understand specific transplant challenges through case scenarios.

10:00 AM *Listing and Collaboration: Transplant/MCS Coordinators and Patients*

Linda Ohler, MSN, FAAN, FAST, New York University, New York, NY, USA

Teaching/Discussion Points

1. Listing criteria.
2. Changes to heart allocation.
3. Change to listing for MCS patients in North America and abroad.
4. US Lung Allocation System.
5. Global heart/lung allocation schema.
6. Living while waiting.

10:15 AM *Immunology 101*

Tara E. Miller, FNP, Duke University Medical Center, Durham, NC, USA

Teaching/Discussion Points

1. The concept of self and non-self.
2. The key components of the immune system.
3. What parts of this are important in transplantation?

10:30 AM *Managing Patients with anti HLA Antibodies and Desensitization Therapies*

Angela W. Velleca, RN, BSN, CCTC, Cedars Sinai Heart Institute, Los Angeles, CA, USA

Teaching/Discussion Points

1. Risk factors for development of anti HLA Ab.
2. Mechanism of action of desensitization strategies.
3. Monitoring of anti-HLA Ab pre-transplant.
4. Assessing for donor-specific Ab post-transplant.

10:45 AM *Case Scenario: Cannabis Legality and Patient Evaluation*

Nicola Robinson Smith, RN, Newcastle Upon Tyne Hospitals NHS, Newcastle Upon Tyne, UK

Teaching/Discussion Points

1. Components of high risk evaluation
2. Geographic differences
3. Long term management

11:00 AM – 11:30 AM

SESSION 4 – Transplant Management

CHAIR: Patricia Leisfield, RN

SUMMARY

- Describe the role of the coordinator in donor evaluation and management and procurement of cardiothoracic organs.
- Understand contraindications for organ procurement.
- Explore the use of OCS and EVLP in organ procurement.
- Learn about induction and maintenance in immunosuppression.
- Establish common side effects associated with immunosuppression.

11:00 AM *The Heart and Lung Donor*

Margaret M. Fregoso, NP, Inova Transplant Center, Fairfax, VA, USA

Teaching/Discussion Points

1. Multiple priorities of the procurement transplant coordinator.
2. Determining suitability of thoracic organs for transplantation.
3. Factors that determine donor-recipient matching.
4. How assessment and coordination of SCD and DCD donors differ.
5. Contraindications for heart transplant.
6. Contraindications for lung transplant.
7. Use of OCS and ex-vivo lung perfusion.

11:15 AM *Immunosuppression: Induction and Maintenance*

Steven P. Ivulich, BPharm, Alfred Hospital, Melbourne, VC, Australia

Teaching/Discussion Points

1. Induction - what is it and why are there differences between sites?
2. Which drugs are used to maintain the graft?
3. Common side-effects and what to do if your patient has them.

11:30 AM – 12:00 PM

SESSION 5 – MCS Management

CHAIR: Sarah Schettle, PA-C

SUMMARY

- Establish the different types of mechanical circulatory support options presently available.
- Appreciate the differences between long-term and short-term mechanical circulatory support.
- Understand complications that can result from mechanical circulatory support.
- Learn how to identify and address common complications resulting from mechanical circulatory support.

11:30 AM *Devices*

Nicola Robinson Smith, RN, Newcastle Upon Tyne Hospitals NHS, Newcastle Upon Tyne, UK

Teaching/Discussion Points

1. LVADs
2. TAHs
3. Centrimags, IABP, others
4. ECMO

11:45 AM *Complications Overview*

Thomas Schlöglhofer, MSc, Medical University of Vienna, Vienna, Austria

Teaching/Discussion Points

1. Bleeding
2. Clotting
3. Infection
4. Right heart failure

12:00 PM – 1:00 PM

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

1:00 PM – 1:45 PM

SESSION 6 – Immediate Post Transplant Care

CHAIR: Connie White-Williams, PhD, RN, NE-BC, FAAN

SUMMARY

- Understand Primary Graft Dysfunction: characteristics and treatment modalities.
- Describe the difference between acute cellular rejection and antibody mediated rejection and respective management strategies.
- Explore teaching strategies to promote patient and caregiver learning.
- Understand follow-up care after transplantation.

1:00 PM Primary Graft Dysfunction: Definitions and Treatment

Margaret M. Fregoso, NP, Inova Transplant Center, Fairfax, VA, USA

Teaching/Discussion Points

1. ICU management
2. Surgical and Medical Complications
3. Prophylactic Regimen
4. Immunosuppression therapy (covered in previous section)

1:15 PM Management of Acute Cellular Rejection and Antibody Mediated Rejection

Tara E. Miller, FNP, Duke University Medical Center, Durham, NC, USA

Teaching/Discussion Points

1. Definitions of acute cellular rejection and antibody mediated rejection.
2. Management strategies of acute cellular rejection.
3. Management strategies of antibody mediated rejection.

1:30 PM Post-Transplant Heart and Lung Recipient and Caregiver Education

Susan M. Chernenko, RN, MN, NP, Toronto General Hospital, Toronto, ON, Canada

Teaching/Discussion Points

1. Medication teaching.
2. Signs and symptoms of infection and rejection in the heart and lung.
3. Monitoring for infection, rejection and changes in medical status.
4. Follow up care post discharge.

1:45 PM – 2:45 PM

SESSION 7 – Care of the Patient With Special Needs

CHAIR: Sarah Schettle, PA-C

SUMMARY

- Understand the relevance of social support and socioeconomic status in patient care.
- Be able to determine health literacy and track patient adherence.
- Appreciate challenges resulting from low health literacy.
- Describe specific considerations in the management of the different age groups of transplant recipients.
- Learn about care of the older aged patient.
- Understand opportunities and challenges the role poses.

1:45 PM Poor Social Support and Low Socioeconomic Status

Caron Burch, RN, MSN, FNP, CCTC, UCSF Benioff Children's Hospital, Redwood City, CA, USA

Teaching/Discussion Points

1. Importance of social support.
2. Why is socioeconomic status important?
3. Key principles in caring for these patients.

2:00 PM Low Health Literacy and Adherence

Colleen J. Juricek-LaBuhn, University of Chicago, Chicago, IL, USA

Teaching/Discussion Points

1. Overview of health literacy and why it's important.
2. How to determine level of health literacy.
3. Strategies to improve and track adherence.

2:15 PM Care of the Very Young, School Age and Adolescent

Jo Wray, PhD, Great Ormond Street Hospital, London, UK

Teaching/Discussion Points

1. What's different about the 3 age groups?
2. What are some key concepts in managing each group?
3. A short discussion about transitions.

2:30 PM *Care of the Older Aged Patient*

Patricia Leisfield, RN, The Prince Charles Hospital, Queensland, Australia

Teaching/Discussion Points

1. What defines older age?
2. Outcomes in the elderly, comorbidities, and impact on care.
3. Long-term issues, death of caregiver, increasing medical needs.

2:45 PM – 3:15 PM

COFFEE BREAK

3:15 PM – 4:15 PM

SESSION 8 – Long Term Follow Up

CHAIR: Patricia Leisfield, RN

SUMMARY

- Establish recommendations for surveillance of the post-transplant patient.
- Identify strategies to allow for return to work and school.
- Learn how to help patient achieve an acceptable quality of life.
- Recognize common infections and malignancies as well as their treatment and prevention.
- Understand chronic rejection: symptoms and treatment, symptoms of rejection, and treatment.

3:15 PM *Chronic Rejection: BOS*

Michael G. Petty, PhD, RN, CNS, University of Minnesota Medical Center, Minneapolis, MN, USA

Teaching/Discussion Points

1. Signs and symptoms.
2. Current treatment strategies.

3:30 PM *Chronic Rejection: CAV*

Angela W. Velleca, RN, BSN, CCTC, Cedars Sinai Heart Institute, Los Angeles, CA, USA

Teaching/Discussion Points

1. Signs and symptoms.
2. Current treatment strategies.

3:45 PM *Infection and Malignancy*

Linda Ohler, MSN, FAAN, FAST, New York University, New York, NY, USA

Teaching/Discussion Points

1. Common infections and their timing in the post-transplant period and in MCS/D patients supported for long term.
2. Prevention and treatment of infections.
3. Malignancy Risk.
4. Prevention and treatment of malignancy.

4:00 PM *Return to Work, School and Quality of Life*

Desiree Robson, RN, BSc (Hons), St. Vincent's Hospital, Sydney, NSW, Australia

Teaching/Discussion Points

1. Barriers to return to normal activities.
2. Strategies to facilitate successful reintegration into the community.
3. Return to school issues.
4. Achieving acceptable quality of life.

4:15 PM – 4:45 PM

SESSION 9 – Quality

CHAIR: Connie White-Williams, PhD, RN, NE-BC, FAAN

SUMMARY

- Learn about the variety of regulatory agencies to assess hospital practices.
- Establish performance improvement recommendations.
- Identify program metrics to consider evaluating and how to plan for improvement.
- Understand the importance of readmissions and their impact on a program.
- Be the able to identify a multidisciplinary approach to patient care.

4:15 PM *Quality Assurance and Interprofessional Collaborative Practice*

Connie White-Williams, PhD, RN, NE-BC, FAAN, University of Alabama at Birmingham Hospital, Birmingham, AL, USA

Teaching/Discussion Points

1. Regulatory agencies.
2. Performance improvement and collaborative practice.
3. Evaluating outcomes and developing plan for improvement.
4. Rewards identified by caregivers for performing the role.

4:30 PM *Readmissions*

Sarah Schettle, PA-C, Mayo Clinic College of Medicine, Rochester, MN, USA

Teaching/Discussion Points

1. Tracking trends at your institution and benchmark against national and international trends.
2. How to strategically say “no” and role of delegation and education for other.
3. Engagement of consulting services and multidisciplinary approach.
4. Develop plan for improvement.

4:45 PM – 6:00 PM

SESSION 10 – Caring for Ourselves and Others

CHAIR: Patricia Leisfield, RN

SUMMARY

- Establish strategies to provide support for caregivers of patients.
- Appreciate ethical challenges and role of palliative care at the end of life.
- Understand strategies for career development.
- Identify work-life balance strategies and time management techniques.
- Learn about the importance of networking.

4:45 PM *Collaboration Strategies*

Pamela Combs, PhD, RN, University of Chicago, Chicago, IL, USA

Teaching/Discussion Points

1. Why should I network?
2. How do I network?
3. What can I gain from networking?

5:00 PM *Care for the Caregivers*

Caron Burch, RN, MSN, FNP, CCTC, UCSF Benioff Children’s Hospital, Redwood City, CA, USA

Teaching/Discussion Points

1. Demographics of those who provide care for MCS and transplant patients.
2. The caregiver experience pre-transplant and post-transplant.
3. Interventions for struggling caregivers.
4. Rewards identified by caregivers for performing the role.

5:15 PM *Caring at the End of Life*

Jane MacIver, RN, NP, PhD, Toronto General Hospital, Toronto, ON, Canada

Teaching/Discussion Points

1. Involvement of palliative care providers for transplant and MCS.
2. Ethical and practical challenges of offering hope while also helping patients and families to prepare for end of life.
3. Specific palliative interventions that can be of benefit to thoracic transplant patients.

5:30 PM *Career Development Strategies for MCS and Transplant Professionals*

Connie White-Williams, PhD, RN, NE-BC, FAAN, University of Alabama at Birmingham Hospital, Birmingham, AL, USA

Teaching/Discussion Points

1. Outline steps along a potential career path for a transplant professional.
2. Describe strategies to prepare for a career in transplantation.
3. How do we stimulate interest in others for a transplant career to provide for controlled succession planning?
4. Growing the network – helping others to become active in transplant organizations like ISHLT, ICCAC, NHSAA, ITNS, etc.

5:45 PM *Work-life Balance for the MCS and Transplant Professional – Making it all Work*

Desiree Robson, RN, BSc (Hons), St. Vincent’s Hospital, Sydney, NSW, Australia

Teaching/Discussion Points

1. Strategies to define work-life balance for the individual.
2. How to strategically say “no” and role of delegation and education for others.
3. Time management.
4. Stress relief.

6:00 PM *Summary/Evaluation/Q & A*

Sarah Schettle, PA-C, Mayo Clinic College of Medicine, Rochester, MN, USA

Connie White-Williams, PhD, RN, NE-BC, FAAN, University of Alabama at Birmingham Hospital, Birmingham, AL, USA

Patricia Leisfield, RN, The Prince Charles Hospital, Queensland, Australia

6:15 PM *Adjourn*