Thursday, February 22

12:00 – 1:15 PM   Satellite Lunch Symposium

1:30 PM   Welcome
Josh Levitsky, MD, MS, FAST, FAASLD, AST President
David Foley, MD, FACS, FAST, FAASLD, CEoT Planning Committee Chair
Rachel Patzer PhD, MPH, CEoT Planning Committee Co-Chair

1:45 PM – 2:45 PM   Session 1: Setting the Stage: The Promise of Expanding Technology in Transplantation
Moderators: Stuart Sweet, MD, PhD & Joanna Schaenman, MD, PhD

1. Connect to Purpose – the Importance of Technology Advances in Transplant from a Patient Perspective
   Molly McCarthy

2. Transplant Technology: Where Are We Now?
   Roslyn Mannon, MD, FAST, FASN

3. Transplant Technology: Where Do We Go From Here?
   Stuart Knechtle, MD

2:45 PM – 3:15 PM   Break

3:15 PM – 4:45 PM   Session 2: Artificial Intelligence
Moderators: Vineeta Kumar, MD, FAST & Jim Rodrigue, PhD

AI in Transplant: A Patient Perspective
Alin Gragossian, DO, MPH

1. Engaging with AI in Healthcare
   Benjamin Collins, MD, MS, MA

2. AI in Solid Organ Transplantation: An Explorative Overview of Current Applications
   Ali Zarrinpar, MD, PhD

3. Practical Applications of AI
   a. Implementation of Deep Learning for Rejection and Risk Assessment
      Demilade Adedinsewo, MD, MPH
   b. Advancements and Applications of Visual Intelligence in Transplantation
      Joe Gaut, MD, PhD

Panel Discussion

5:00 PM – 6:30 PM   Welcome Reception and Poster Session
Friday, February 23

8:15 AM – 9:45 AM  Session 3: Therapeutics and Diagnostics
Moderators: Roy Bloom, MD & Joanna Schaenman, MD, PhD

Patient Introduction
Kevin Fowler

1. New Molecular Approaches to Assess Immune Status: Finding the Right Balance
   Benjamin Adam, MD, FRCP

2. Cutting-Edge ID Diagnostics and Therapeutics
   Atul Humar, MD

3. Bioengineering the Immune System to Prevent Rejection
   Megan Levings, PhD

4. New Technologies in Drug Delivery
   Satish Nadig, MD, PhD

Panel Discussion

9:45 AM – 10:15 AM  Break

10:15 AM – 11:15 AM  Keynote Speaker
Jesse Ehrenfeld, MD, MPH

11:15 AM – 11:45 AM  Break

11:45 AM – 1:00 PM  Satellite Lunch Symposium

1:00 PM – 1:30 PM  Break

1:30 PM – 3:00 PM  Session 4: Telemedicine and Remote Patient Monitoring
Moderators: Dave Taber, PharmD & Sean Pinney, MD

Patient Experience with Emerging Technologies
Melissa McQueen

1. The Chatbot Will See You Now: Interacting with Artificial Intelligence
   Steven Hays, MD

2. Empowering Patients through Remote Monitoring: Detecting Problems Before They Start
   Tiffany Kaiser, PharmD

3. Innovative Technologies in Medication Adherence Monitoring
   Sandra Amaral, MD, MHS

4. Telerehabilitation to Improve Functional Status
   Anoop Sheshadri, MD

Panel Discussion
Friday, February 23 (continued)

3:00 PM – 3:30 PM  Break

3:30 PM – 5:00 PM  Session 5: Organ Optimization and Replacement Technologies
Moderators: Lisa McElroy, MD, MS & Ali Zarrinpar, MD, PhD

Patient Talk: Organ Optimization to Enhance the Patient Experience
Victoria Palafox, RN

1. Enhancing Organ Function in Ex Vivo Machine Perfusion
   Marcelo Cypel, MD, MSc, FACS, FRCSC

2. Building and Rebuilding Organs
   Scott Nyberg, MD, PhD

3. NRP Above and Below the Diaphragm
   a. Thoracic: Thoracic NRP in 2023 and Beyond
      Ashish Shah, MD
   b. Abdominal: Leading the Abdominal Consortium for NRP
      Aleah Brubaker, MD, PhD

Panel Discussion

5:00 PM – 5:15 PM  Break

5:15 PM – 6:45 PM  Transplant Visionaries Challenge
Saturday, February 24

8:15 AM – 9:45 AM  Session 6: Breakouts

Kidney Transplantation:
Leveraging Technology in Getting to a “Yes”
Moderators: Roy Bloom, MD & Deb Adey, MD

1. Remote Prehab (Remote Physical Therapy)
   Anoop Sheshadri, MD

2. Technology Opportunities to Break Down Silos Across Health Systems
   Catherine Butler, MD, MA

   Darren Stewart, MS

4. Using AI for HLA Matching (Opportunities in Histocompatibility)
   Loren Gragert, PhD, A(ACHI)

Panel Discussion

Technological Innovations in Liver Transplantation:
Enhancing Outcome Prediction and Organ Use
Moderators: Marina Serper, MD & Andres Duarte, MD, MS, DSc

1. New Frontiers in Clinical Prediction Modeling in Liver Transplant Outcomes
   Mamatha Bhat, MD, MSc, PhD, FRCP C

2. Clinical Applications of Biomarkers to Liver Transplant
   Valeria Mas, PhD

3. Viability Assessment of The Deceased Donor Livers
   Kristopher Croome, MD

4. Innovative Therapeutics During Machine Perfusion: Where Are We Headed
   Andrea Schlegel, MD

Panel Discussion
Saturday, February 24 (continued)

Heart Breakout: Transformation of Heart Transplant through Technological Advancement
Moderators: Sean Pinney, MD & Jon Kobashigawa, MD

1. Organ Acquisition, Storage, and Perfusion
   Josef Stehlik, MD, MPH

2. Biological Alternatives to Allotransplantation
   Susie Joseph, MD

3. Mechanical Alternatives to Heart Transplantation
   Melana Yuzefpolskaya, MD

4. Molecular Testing and Heart Transplantation Moving Beyond the Diagnosis of Rejection
   Kiran Khush, MD, MAS

Panel Discussion

Beyond Transbronchial Biopsy:
New Technologies to Identify Lung Allograft Rejection and Infection
Moderators: Stuart Sweet, MD, PhD & Debbie Levine, MD

1. All you Need is Blood
   John Belperio, MD

2. No, you Need BAL too
   Stephen Juvet, MD, PhD

3. Biopsy or Brushing is Essential
   John Greenland, MD, PhD

Panel Discussion

9:45 AM – 10:15 AM
Break

10:15 AM – 11:45 AM
Session 7: Informatics and Decision Support Systems
Moderators: Allyson Hart, MD, MS & Marina Serper, MD

Patient Introduction: The Importance of Data to Patients
Earnest Davis, PhD, MHSA

1. Integrating Data into Clinical Care and Decision Making: The Role of Informatics in Medical Care
   Ashley Spann, MD, MSACI

2. Making the Electronic Health Records Work for Us: Leveraging EHR Data in Transplantation
   Lisa McElroy, MD, MS
Saturday, February 24 (continued)

3. Lessons Learned Integrating Data into Decision-Making in Transplantation – What is Next in transplantation?
   Jesse Schold, PhD, MStat, MEd

4. Human-Centered Design: Making Analytic Support Work with the People Using it
   Cory Schaffhausen, MS, PhD

Panel Discussion

11:45 AM – 12:15 PM  Break

12:15 PM – 1:30 PM  Satellite Lunch Symposium

1:30 PM – 2:00 PM  Break

2:00 PM – 3:30 PM  Session 8: Technology Innovations in Transplantation: Ethical, Legal, and Social Challenges
   Moderators: Deborah Adey, MD & Sumit Mohan, MD

   Intro: Community Perspectives
   Joseph Hillenburg

   1. Technology is Wonderful: What Could Possibly Go Wrong?
      Gary Weissman, MD, MSHP

   2. Legal and Regulatory Considerations
      Ana Iltis, PhD

   3. Emerging Technologies: Potential for Perpetuating Bias and Inequity
      Leo Anthony Celi, MD, MPH, MSc

   4. AI and Machine Learning: Looking Behind the Curtain
      David Page, PhD

Panel Discussion

3:30 PM  Summary of Meeting

4:00 PM  Closing Reception