ADVANCED HEART FAILURE AND TRANSPLANTATION (AHFTX)

- Advanced heart failure, transplantation sessions. (23 responses)
- Heart transplant. (7 responses)
- Heart failure therapies. (3 responses)
- Primary graft dysfunction after heart transplantation. (3 responses)
- Frailty effect on heart transplantation. (2 responses)
- Prevention of PGF. (2 responses)
- Heart transplant desensitization. (2 responses)
- Advance heart failure and transplantation and mechanical circulatory support.
- Heart transplant and quality of life.
- Heart transplant immunology.
- Heart transplant in adult congenital heart disease.
- Heart transplantation, stem cell transplantation.
- Cardiac allograft vasculopathy and heart transplantation.
- Adult Heart Transplantation standards of care, looking forward to the update.
- Heart Failure/VAD/Transplant.
- Congenital heart disease and combined transplantation.
- Post heart transplant rehab.
- End stage HF, prognosis, evaluation.
- Experiences in following up the heart transplant to improve the long term results
- Heart rejection and infection.
- Management of the sensitized patient (HFTX; Cardiology; Pharmacy; MCS; AHP)
- GEP for heart transplant.
- CA125 and heart failure.
- Prognostication HF pts undergoing assessment for advanced HF therapies.
- Outcomes in HTx/VAD pts based on the presence of specific comorbidities.
- Racial and gender disparities in advanced heart failure and transplant.
- Long-term complications after transplant, more consensus on immunosuppression for rejection and maintenance, management of transplant recipient/candidates with HIV, reducing antithrombotic therapy in HM3 recipients, management of waitlisted patients on ECMO, updates on management of COVID + transplant/VAD patients (heart transplant).
- Steroid weaning and non-invasive rejection monitoring s/p heart transplant.
- Non-invasive monitoring of heart transplant recipients.
- ECLS, management of end stage CHF.
- Allograft vasculopathy.
ADVANCED HEART FAILURE AND TRANSPLANTATION (AHFTX) – cont.

- Transplantation, management of PGD in heart transplantation, discussions regarding screening and treatment of substance use pre and post transplantation.
- OCS heart system.
- Cardio-renal syndrome.
- More data for transplant in MCT patients.
- Outcomes regarding current heart allocation system.
- Heart Failure and Transplant - specifically any progress in pharmacogenomics and individually tailored therapies, improvements in current management and improvements in long-term outcomes.
- More information on HeartCare and Cardiomems.
- Management of patients with elevated PRA.
- Cessation of aspirin in the Heart Mate III.
- Heart Mate III outcomes.
- Organ preservation – heart.
- EM Biopsy free surveillance of Heart Transplant & results (AHF and TSCM).
- Fontan/single ventricle lymphatic management.
- Transplant in failing Fontan.
Topics for IDNs

ADVANCED LUNG FAILURE AND TRANSPLANTATION (ALFTX)

- Advanced Lung Failure and Transplantation sessions (16 responses)
- All topics related to lung transplantation. (14 responses)
- CLAD (8 responses)
- Ex vivo lung perfusion strategies to improve donations or new treatments. (6 responses)
- Advanced lung failure as a research professional.
- Lung Transplant - discussion of latest Consensus on Selection of LT candidates. (Lung Transplant).
- Quality Improvement Initiatives (Lung Transplant).
- Lung transplant diagnostics.
- Lung transplant immunology, organ regeneration, post-COVID chronic lung disease.
- Lung transplant recipient selection.
- Lung transplantation outcomes.
- I am interested in the incidence of skin cancers in lung transplant.
- Lung donor criteria/scoring systems.
- Lung transplant outcomes, acute and chronic rejection, optimal use of ex vivo lung perfusion, novel immunosuppression, antibody desensitization protocols/practices, lung transplant candidate selection (particularly advanced age, allosensitized patients, CTD).
- Lung transplantation and primary graft dysfunction.
- Lung transplantation biomarkers.
- The experiences in taking care of airway complications after lung transplantation.
- BOS onset, diagnosis and prevalence after single or double LTX, new treatments in development.
- Clinical trials in lung transplants.
- Anti-fibrotic therapy post-lung transplant.
- Bleeding/coagulopathy post lung-transplant.
- Management of persistent DSA in advanced lung failure and transplantation.
- MDR infections in lung transplantation- ALFTX, pulmonary and ID.
- The role of lung re-transplantation in the current era, ALFTX.
- The basics of lung transplantation and where do we stand with all this information.
- Selection of candidates for TPL (Lung).
- Minimally invasive lung transplant.
- Relevance of the innate immunity in lung transplantation.
- I would like more coverage on management of non-tuberculous mycobacteria in lung transplant.
- Baseline lung allograft dysfunction.
ADVANCED LUNG FAILURE AND TRANSPLANTATION (ALFTX) – cont.

- Photopheresis for lung transplant, our practice for utilization varies widely among our center.
- Novel therapies in lung transplant.
- Patient risk stratification in lung transplantation.
- Lung transplantation in low-income countries.
- Monitoring of DSA and treatment strategies.
- More on Cystic Fibrosis and Lung Transplant.
- Organ preservation and biomarkers of organ dysfunction and rejection in lung transplantation.
- Connective tissue disease related lung transplantation.
- Surgical advances in lung transplantation.
- More data on lung transplant for HCV.
- Donor lung management; optimal vent strategies.
MECHANICAL CIRCULATORY SUPPORT (MCS)

- Cardiogenic shock and MCS (26 responses)
- MCS sessions (7 responses)
- EVLP (6 responses) (MCS IDN)
- Short and long term MCS. (3 responses)
- Ex-vivo heart and lung perfusion. MCS. (2 responses)
- Advances in mechanical circulatory support. (2 responses)
- MCS for single ventricle in different stages of palpitation.
- Acute heart failure cardiogenic shock. MCS/Cardiothoracic surgery.
- Acute Mechanical Support.
- Acute support devices in the setting of cardiogenic shock and as a BTT.
- MCS Guidelines.
- Exercise physiology in MCS and immunology.
- Pre-operative (MCS) risk scores and patient selection.
- MCS and Advanced Heart Failure and Cardiac Transplantation.
- MCS and R heart failure, the complexity of MCS management and keep your balanced overview of heart transplant.
- MCS and tricuspid valve repair.
- MCS Best clinical practices (patient management).
- MCS for MD.
- MCS improvements of device design as well as patient management.
- MCS infections, MCS bridges.
- MCS, new devices and patient management before/during/after implantation.
- MCS, Nursing and Allied Health - new developments in remote assessment of MCS patients.
- Mechanical cardiac assist.
- Mechanical Circulatory Support - specifically perioperative management, improvements in short-term MCS patient selection and management, and longer-term outcomes for both temporary and durable MCS patients.
- Mechanical circulatory support and management of complications.
- MCS in single ventricle population.
- Patient selection in MCS.
- Surveillance of organ integrity after tx. MCS in CHD.
- Palliative care in MCS.
- Would love to see updated on antibiotic coverage on MCS. Would love to see more in-depth critical care dedicated discussion on post op management of MCS such as ID/nutrition/mobilization/CLABSI issue.

Topics for IDNs
MECHANICAL CIRCULATORY SUPPORT (MCS) – continued

- Complex anticoagulation management in non-durable devices.
- Critical care issues in MCS.
- Management of MCS.
- Management of mechanical support devices, heart transplant surveillance.
- New developments and current achievements MCS (both temporary as well as durable).
- Mitigation of durable-MCS complications.
- Bi-ventricular support.
- New anticoagulation strategies and the impact of improved hemodynamic monitoring in durable MCS, MCS steering committee, Cardiology & CT Surgery communities.
- Myocardial Recovery in MCS; Donor Heart Graft preservation and optimization (new technologies and logistics); International (worldwide; USA; Europe, Asia Pacific, Africa) MCS registries descriptives, analysis and outcomes.
- New MCS trials.
PULMONARY VASCULAR DISEASE (PAH & CTEPH)

- Pulmonary arterial hypertension topics (*16 responses*)
- CTEPH. (*9 responses*)
- CTEPH and BPA.
- CTEPH and pulmonary hypertension.
- Pulmonary hypertension.
- Pulmonary arterial hypertension, including ILD and medication management related to these diagnoses - Cardiology/Pharmacy.
- Pulmonary circulation. PAH, PH, CTEPH.
- Chronic thromboembolic disease and CTEPH.
- Right ventricular diastolic dysfunction and its management in addition to regular PAH therapies.
- Risk assessment in PAH.
- HFrEF, PH, WHO group II pulmonary hypertension.
- Triple therapy in PH.
TOPICS FOR PROFESSIONAL COMMUNITIES

Cardiology:
- Cardiac Amyloidosis diagnosis and treatment. (3 responses)
- Monitoring of hemodynamic parameters, telemedicine, LVAD complications, dd-cf DNA - Cardiology Community
- Cardiac Sarcoid diagnosis and treatment

Cardiothoracic Surgery:
- Cardiothoracic surgery topics. (2 responses)
- Cardiothoracic Surgery: ex vivo organ perfusion, DCD donors.
- New surgical techniques, cardiothoracic surgery.
- Thoracic organ Retrieval, cutting edge practices.
- Normothermic regional perfusion of thoracic organs (cardiothoracic surgery).

Infectious Disease
- Hepatitis C outcomes.
- Heart Failure, OHT and Infectious Diseases.
- MCS and infectious diseases.
- Hepatitis and COVID affecting post-transplant outcomes.
- Infection in lung and heart transplantation
- More on infectious complications of heart and lung transplant and MCS.
- More data on the management of MDR NTM infections.
- Treatment of driveline infections.

Nursing and Allied Health
- More nursing topics. (11 responses)
- Nursing and Allied Health sessions (5 responses)
- Allied health.
- Effective education modalities (written, in-person, virtual) for pre and post-transplant - Nursing and Allied Health
- Coordinators’ sessions.
- Psychosocial determinants of health and resources. (Allied Health)
- Psychosocial issues related to transplant.
- Patient management for VAD coordinators
- Psychosocial impacts on transplant decision making.

Topics for Professional Communities
TOPICS FOR PROFESSIONAL COMMUNITIES (continued)

Nursing and Allied Health (continued)
- LVAD driveline infection management and preventive practices - Nursing and Allied Health
- Improvements in psychosocial evaluation of lung transplant patients and their families.
- End of life. (nursing and allied health)
- Transplant care in the family.
- I will be seeking information for care map into nursing and allied health community.
- I’d like to see a session or two specifically for transplant administrators/or MCS program directors for more administrative topics - ROI, Coding, clinics in the time of tele-medicine etc. (Allied)
- Social determinants of health (Allied).
- Specific exercise rehabilitation (i.e. pre-rehab) modalities. (Allied)

Pathology:
- More on pathology (3 responses)
- More interactions of pathological community for both heart and lung and immunologist and pharmacologist community
- More pathology projects in heart transplant.

Pediatrics:
- Pediatric heart transplant (23 responses)
- Pediatric MCS (6 responses)
- Pediatric VAD (4 responses)
- Always appreciate more pediatric sessions. (3 responses)
- Transition of pediatric patients to adult healthcare. (3 responses)
- Need more material on heart failure for children with congenital heart disease. (2 responses)
- Noninvasive rejection surveillance in pediatrics.
- Optimal duration of prophylaxis and preferred agent against CMV disease in pediatrics.
- Donor evaluation algorithms for pediatric heart transplantation.
- Pediatric ethics.
- Pediatric lung transplant - always there are questions.
- Pediatric pulmonary hypertension therapy. Rejection treatment protocols.
- Pediatric single ventricle MCS and transplant.
- Peds heart transplant transition guidelines.
- Additional information on pediatric cardiothoracic transplantation.
- AMR/DSA in pediatric heart transplant.

Topics for Professional Communities
Topics for Professional Communities (continued)

Pediatrics (Continued):
- CMV in peds heart transplant patients.
- New heart failure medications for pediatric population.
- Case based discussions of the ped lung transplant community regarding treatment, failures and successes.
- Stroke in children with MCS.
- Reproductive health in transplant (Pediatrics).
- Pediatric circulatory assistance, what devices to use, in whom should we use and in whom should we not?
- Re transplant for pediatric newborn transplants in the past.
- Biopsy follow up in pediatric programs.
- End of life care - peds transplant or MCS.
- Management strategies for pediatric patients with LNVC and LVAD patients with arrhythmia.
- Dry energy forms of treatment for heart failure, cardiovascular nanomedicine, bioprinting 4 D of solid organs, percutaneous MCS for pediatrics, fully implantable TAH.
- Needs more pediatric presentations on managing heart failure in congenital heart disease.
- Liquid biopsies for rejection in children post heart transplant.
- More about CFDNA in peds.
- PumpKIN trial results.

Pharmacy:
- Pharmacological updates. (3 responses)
- Assessing and improving medication nonadherence.
- Empowering patients to manage their own medications.
- Pharmacy/Heart Transplant/ID- Heart Transplant medication management during COVID infection.
- Transplant pharmacists- infection prophylaxis, treatment of post-lung complications (CLAD, BOOP, APOP).
- I'd like to see more with pharmacogenomics and this would apply to the Pharmacy PC and HTX and LTX IDNs. I'd also like to see more in respect to non-invasive rejection monitoring and MMDx. I think that this would apply to multiple PCs, including pharmacy, cardiology, pulmonology, pathology, etc.
- New antiviral drugs.
- More Pharmacy-related topics
TOPICS FOR PROFESSIONAL COMMUNITIES (continued)

Pharmacy (Continued):
- Patient access to high-cost medications -- with HCV meds, Entresto, SGLT2 inhibitors, etc. --- these therapies have great data on their use, but the challenge is getting them covered by insurance in the US -- resulting in many hours spent writing letters, appeals, etc. There has to be a better (more efficient) way.
- Will be seeking additional pharmacotherapeutic recommendations and developments in both the Advanced lung failure and transplantation as well as Advanced heart failure and transplant areas as part of the Pharmacy professional community.
- Antimicrobials.
- New developments for multi-drug resistant organisms.

Pulmonology:
- Humoral rejection - Pulmonology. (3 responses)
- Chronic Pulmonary Extracorporeal Support - Pulmonology (2 responses)
- Pulmonary HTN diagnosis and treatment – Pulmonology.
- Pulmonary vascular remodeling

Research and Immunology
- Research in lung transplant.
- HLA epitope mapping; Research and Immunology.
- How do develop research skills and lab skills.
- Extended donor related research and outcomes (research community).
- Ongoing pulmonary hypertension research and early career advice.
- Updates on psychosocial issues and research.
- Immunology and desensitization in lung transplantation. (research and immunology)
- Current immunology of transplantation.
- Surgical basic science investigation.
- Workshops on research technologies. Seminars on research-specific topics, perhaps every 2-3 months or so. I discussed this with John Greenland, and I think it's a great idea.
SPECIFIC TOPICS

AMR:

- AMR. (27 responses)
- Desensitization & AMR in heart & lung transplants. (4 responses)
- AMR treatment protocols. (2 responses)
- Treatment protocols for AMR in lung transplant. (2 responses)
- AMR in heart transplantation. (2 responses)
- AMR and cell free DNA. Re-visiting airway issues. Re-discussion of recipient selection guidelines.
- AMR and cellular rejection in heart transplant, MCS.
- AMR, short protocols of DAA w/HCV + donors, antifungal prophyl w/lung transplant.
- Updates on AMR consensus. ANY updates consensus should be the prerogative to ask the first and senior authors of the current consensus their willingness to remain first and senior authors on any updated consensus. We should be professional and respect our colleagues who worked hard on the prior consensus.
- New treatments for chronic AMR.
- Consensus regarding treatment of lung AMR.
- AMR management.
- Need more discussion of AMR treatment, monitoring, and cutting-edge practices.
- New AMR agents.
- Novel AMR treatment and desensitization protocols.

Bio Markers:

- ddcfDNA biomarker. (9 responses)
- Biomarker use in heart/lung transplant.
- Biomarkers as risk factors of severe infection.
- Biomarkers in thoracic outcomes – RIPC
- Diagnostics, biomarkers

CAV:

- CAV. (9 responses)
- Prevention of CAV in heart transplant. (5 responses)
- Sirolimus effect on CAV.
- Gut microbiome and CAV/ACR.
- Developments in CAV imaging (IDN advanced heart failure and transplantation and professional community, cardiology, research and immunology).

Specific Topics
SPECIFIC TOPICS (continued)

CMV:
- CMV prevention. (4 responses)
- CMV prophylaxis.
- CMV T-cell immunity in cardiothoracic transplant recipients, desensitization in cardiothoracic transplant recipients, Management of AT1R-ab in cardiothoracic transplant recipients
- New developments for resistant CMV treatment and prophylaxis therapies.
- Quanterferon CMV.

COVID-19:
- COVID. (26 responses)
- COVID and lung transplant. (17 responses)
- COVID emerging data. (9 responses)
- COVID vaccine immune responses after transplant. (7 responses)
- COVID-19 and immunosuppression. (2 responses)
- COVID cardiomyopathy. (2 responses)
- Would be interested in seeing how COVID has put strain on provider resources and burnout.
- Continue with COVID discussions. (2 responses)
- Fungal prophylaxis in OHT post COVID-19.
- The most pressing topic for me currently is in regards to COVID-19 immunization and if transplant recipients should receive a 3rd dose to improve immune responses. This applies to the ID Professional Community and the Lung transplant and heart transplant IDNs.
- Longer term outcomes related to COVID and COVID vaccination.
- Outcomes of post-COVID transplant recipients.

DCD:
- DCD heart transplantation (15 responses)
- DCD heart transplantation (AHF and transplantation), machine perfusion as preservation (AHF and transplantation).
- DCD heart utilization, and ex-vivo thoracic organ perfusion, trends in waitlist with new heart allocation system.
- Thoraco-abdominal normothermic regional perfusion to recover heart and lungs in DCD category.
- DCD donation (HFTX; MCS; Critical Care; Cardiology; Pulmonary; Lung Tx).

Specific Topics
SPECIFIC TOPICS (continued)

DCD (continued):
- Outcomes of ongoing DCD OCS trial. (heart transplant)
- Ex vivo heart and lung perfusion DCD donation.

Donors:
- Donor expansion.
- Donor long preservation, CAV.
- Donor management and selection.
- Donor organ allocation.
- Donor selection, donor management, organ preservation, organ allocation and its influence on transplant outcome.
- Hep C donors.
- Donor management and procurement.
- Donor preservation.
- Extension of donor pool for lung transplant.

ECMO
- More information on ECMO. (16 responses)
- ECMO & MCS. (5 responses)
- ECMO in lung transplantation. (4 responses)
- ECMO bridging to VAD and transplant.
- ECMO in ARDS and bridge to lung transplant.

Genetics:
- Xenografts. (4 responses)
- Cell free DNA. (3 responses)
- Genomics.
- Tacro genetics.
- Genetic cardiomyopathies updates.
SPECIFIC TOPICS (continued)

Guidelines:
- Guidelines update. (9 responses)
- Heart Transplant Candidate Guidelines.
- PVD with new guidelines coming soon and new treatment of heart failure with new guidelines coming soon.
- Histocompatibility steering committee. This committee should be composed by a majority of laboratory professionals and with oversight from a designated Heart and Lung surgeon. This committee should work on guidelines for HLA antibody testing practices and recommendations for treatment (pre- and post-).
- Updated guidelines for heart transplantation.

HLA:
- More session dedicated to HLA (7 responses)
- Management of pre-transplant anti-HLA antibodies.
- Clinical significance of HLA and non-HLA antibodies, and modalities of treatment.
- HLA desensitization.
- Lung transplants and HLA antibody related situations.

Immunosuppression:
- Immunosuppression in heart and lung transplantation. (12 responses)
- Immunosuppressive protocols. (3 responses)
- New immunosuppressants. (2 responses)
- Immunosuppression protocols, heart transplant rejection monitoring.
- Immunosuppressive treatment management.
- Immune suppressants for the post-transplantation
- More information on the use and experience of m-Tor inhibitors in post heart transplants as a single agent for immunosuppression.
- More on desensitization strategies and controversies in immunosuppression.
- Personalizing immunosuppression regimens.

LVAD:
- LVAD (20 responses)
- LVAD CARE advancements (2 responses)
- LVAD and infections.

Specific Topics
SPECIFIC TOPICS (continued)

LVAD (continued):
- LVAD reduction in adverse events.
- LVAD/ post-transplant management.
- RV failure and LVAD.
- Quality improvement for LVAD/MCS. Creating study designs for best outcomes and tips for avoiding pitfalls in research.
- LVAD decommissioning.
- How to start an LVAD program.
- Fully implantable LVADs.
- Management of PH in mitral valve disease - when to LVAD vs. when to pursue valve intervention?

New/Emerging Technology:
- Emerging technologies. (9 responses)
- Interested in learning more about emerging technologies for rejection and CAV monitoring post-transplant.
- Incorporating novel technology to better monitor/track our patients: HF and MCS.
- New techniques or devices for congenital heart diseases.
- New technologies.
- New developments and therapies by mechanical assist devices.

Patient care:
- Assessment and monitoring of patients via telehealth. (9 responses)
- Multidisciplinary decisions in patient management. (6 responses)
- Patient assessments. (2 responses)
- Pregnancy in Tx recipient.
- Intersection of pall care and transplant.
- Reforming patient education to meet patients’ needs.
- Role of palliative care and heart and lung transplant interface.
SPECIFIC TOPICS (continued)

Rejection:
- Antibody mediated rejection. (**18 responses**)
- Molecular microscope for cardiac rejection.
- More on the desensitized management for the highly sensitized patients, novel modalities on diagnosing rejection.
- Diagnosis of rejection.
- Molecular phenotyping of rejection and dysfunction.
- Rejection therapies.
- Advances in detecting acute rejection, both in heart transplant and lung transplant patients

Transplant/Post Transplant
- Dual organ transplant experience and best practice. (**3 responses**)
- Transplant challenges.
- Transplant incompatibility.
- Transplant in zero urgency, as should it be the approach.
- Transplant results with new allocation system.
- Transplantation basics - could do a track for novices and another one for advanced providers.
- DOACs post-transplant.
- DVT post-transplant, evaluation, and treatment.
- Management of post-transplant esophageal dysfunction.
- Mechanisms of injury and how they apply to each organ and when they are involved from donor through preservation, transplantation and short and long term post-transplant. What new insights there are and what specific treatments that are in the pipeline or available.
- Postoperative ICU management of lung and heart transplant recipients.
- Chimerism.
- Difficult scenarios.
- Falls and Imbalance after starting transplant regimen.

VAD
- VAD. (**14 responses**)
- Advances and new guidelines/practices with VADs.
- Complications of VAD therapy.
- New technologies in VAD’s.
- Hurdles to totally implantable VADs.
SPECIFIC TOPICS (continued)

Additional topics:

- AI, remote monitoring, team building, continued education for trainees.
- Criteria in terms of smoking (history) for candidates, biochemical verification of abstinence? (Smoking, alcohol, etc.) Home long? What method?
- Hemocompatibility.
- I would like to see/learn more on how industry can improve practice, support HCPs and patients, and be part of the "team" as opposed to simply feeling the financial support is all desired.
- Integration with medical records for transplant monitoring.
- International communication.
- Investigation and early management of GERD.
- Machine learning algorithms and techniques for predictions and data processing in medicine.
- MMF and its ability to decrease risk of malignancy -- this is a new idea for me.
- Molecular diagnostics.
- Nutrition.
- Physical activities of transplant recipient.
- Please consider fees.
- Surgical techniques.
- Tx and malignancy.