

CURRICULUM VITAE

John Y Um, MD

CAMPUS ADDRESS: Department of Surgery-Cardiothoracic Surgery
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EDUCATION

1995 BA, Arts, Brown University Providence, RI
1999 MD, Medicine, Brown University School of Medicine, Providence, RI

POST DEGREE TRAINING

07/1999 - 06/2004 Resident in Surgery, Surgery, UMDNJ-RWJ Medical School, New Brunswick, NJ
07/2004 - 06/2005 Chief Resident, Surgery, UMDNJ-RWJ New Brunswick, NJ
07/2005 - 06/2007 Resident, Cardiothoracic Surgery, UCSF School of Medicine San Francisco, CA
07/2007 - 11/2008 Fellow, Thoracic Transplantation & Mechanical Assist Devices, Duke University School of Medicine Durham, NC

ACADEMIC APPOINTMENTS

2016 - Present Associate Professor, Surgery, Division of Cardiothoracic Surgery, UNMC, Omaha, NE
2009 - 2016 Assistant Professor, Surgery, Division of Cardiothoracic Surgery, UNMC, Omaha, NE

CERTIFICATIONS AND LICENSES

2006 - 2026 American Board of Surgery 51155
2010 - 2030 American Board of Thoracic Surgery 7715
2001 - 2005 Inactive, New Jersey Medical License, New Jersey, 25MA07218600
2005 - 2008 Inactive, California Medical License, California, A90965
2007 - 2009 Active, North Carolina Medical License, North Carolina, 2007-01008
2009 - 2022 Active, Nebraska Medical License, Nebraska, 25030

GRANTS AND CONTRACT SUPPORT

Active

Title: Implantation of the HeartMate 3 in Subjects with Heart Failure using Surgical Techniques Other than Full Median Sternotomy (SWIFT)

ID Number: CAR820-20
Funding Agency: St. Jude Medical Business Services, Inc.
Project Period: 2021 - 2023
Total Dollars: \$90,756
Direct Cost: \$0
Role: Principal Investigator

Title: COMPASSIONATE USE: The SynCardia Freedom™ Driver System Study - Continued Access Policy (CAP) Phase

ID Number: 2013-001
Funding Agency: SynCardia Systems, Inc.
Project Period: 2013 - 2014
Total Dollars: \$27,362
Direct Cost: \$22,232
Role: Principal Investigator

Completed

Title: The Portable Organ Care System (OCS) Heart for Resuscitation, Preservations and Assessment of Hearts from Donors after Circulatory Death Continue Access Protocol.

ID Number:
Funding Agency: TransMedics
Project Period: 2021 - 2023
Total Dollars: \$62,970
Direct Cost: \$48,039
Role: Principal Investigator

Title: Clinical Trial to Evaluation the Safety and Effectiveness of the Portable Organ Care System (OCS) Heart for Resuscitation, Preservation, and Assessment of Hearts from Donors after Circulatory Death (DCD Heart Trial)

ID Number:
Funding Agency: TransMedics
Project Period: 2020 - 2022
Total Dollars: \$26,355
Direct Cost: \$19,829
Role: Principal Investigator

Title: MOMENTUM 3 Pivotal Cohort Extended Follow-up Post-Approval Study CIP-10273

ID Number:
Funding Agency: Thoratec Corporation
Project Period: 2019 - 2022
Total Dollars: \$6,725
Direct Cost: \$4,447

Role: Principal Investigator

Title: Bio-inspired engineered pediatric valve regulates MSC differentiation and MSC-monocyte interaction

ID Number:

Funding Agency: American Heart Association - National

Project Period: 2017 - 2021

Total Dollars: \$262,684

Direct Cost: \$244,411

Role: Co Investigator (Duan)

Title: A Clinical Study to Evaluate Ambulatory Counterpulsation for the Treatment of Advanced Heart Failure: A Feasibility Study

ID Number:

Funding Agency: NuPulseCV, Inc.

Project Period: 2019 - 2021

Total Dollars: \$34,529

Direct Cost: \$-111,201

Role: Principal Investigator

Title: Multi-Center Study of MagLev Technology in Patients Undergoing MCS Therapy with Heartmate 3, Continued Access Protocol

ID Number:

Funding Agency: Thoratec Corporation

Project Period: 2016 - 2020

Total Dollars: \$512,947

Direct Cost: \$407,537

Role: Principal Investigator

Title: HeartMate III

ID Number:

Funding Agency: Thoratec Corporation

Project Period: 2015 - 2019

Total Dollars: \$402,757

Direct Cost: \$333,637

Role: Principal Investigator

Title: A Double-blind, Randomized, Placebo-Controlled Study of Levosimendan in Patients with Left Ventricular Systolic Dysfunction Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass (LEVO-CTS)

ID Number:

Funding Agency: Tenax Therapeutics, Inc.

Project Period: 2016 - 2017

Total Dollars: \$45,755

Direct Cost: \$33,078

Role: Co Investigator (Zolty)

Title: The SynCardia temporary Total Artificial Heart (TAH-t) Postmarket Surveillance Study
ID Number:
Funding Agency: SynCardia Systems, Inc.
Project Period: 2013 - 2014
Total Dollars: \$8,291
Direct Cost: \$6,470
Role: Principal Investigator

OTHER APPOINTMENTS AND POSITIONS

2013 - Present Surg. Dir. Cardiac Transplantation & Mechanical Circulatory, Cardiothoracic Surgery, UNMC, Omaha, NE, USA

HONORS AND AWARDS

National

1993 PLME Research Grant, Brown University, Providence, RI, USA
2002 Susan B. Deak Award for Excellence in Research, UMDNJ-RWJ, Department of Surgery, New Brunswick, NJ, USA
2002 UMDNJ-RWJ Research Award of Excellence, UMDNJ-RWJ, New Brunswick, NJ, USA
2005 Award for Academic Excellence, UMDNH-RWJ Medical School, Department of Surgery, New Brunswick, NJ, USA

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

2001 - Present Member, American College of Surgeons
2005 - Present Member, Cardiothoracic Surgery Network
2009 - Present Member, International Society for Heart and Lung Transplantation
2010 - 2015 Member, Metro Omaha Medical Society
2010 - 2016 Member, Nebraska Medical Association
2011 - 2021 Fellow, American College of Cardiology
2017 - Present Member, American Society for Artificial Internal Organs (ASAIO)

COMMITTEE ASSIGNMENTS

National/International

1996 - 1996 Volunteer, Traveler's Aid Society
2003 - Present Member, Graduate Medical Education Committee

UNMC

2012 - Present Committee member, ACS mortality review committee
2012 - Present Committee member, CV leadership committee
2012 - Present Committee member, Cardiac Surgery Quality Improvement Committee

2012 - Present Committee Member, SOT Quality Steering Committee
2012 - Present Committee Member, Heart Center Executive Leadership committee

MISCELLANEOUS

2001 Research Fellow, Stephen Lowry, M.D., Dept of Surgery UMDNJ-RWJ
 Medical School
1993 - 1995 Research Assistant, E.A. Hendrickson, Ph.D., Dept. of Biochemistry
1995 - 1999 Research Assistant, Jonathan Richner, Ph.D., Dept. of Surgery Brown
 University School of Medicine

PRESENTATIONS

1. Um; JY. Association of TNF-alpha Promoter Polymorphism and Monocyte TNF Receptors with Clinical Outcomes in ICU Patients with SIRS. Surgical Infection Society 1st Joint International Meeting; 2002. Madrid Spain
2. Unmc. Association of TNF-alpha Promoter Polymorphism and Monocyte TNF Receptors with Clinical Outcomes in ICU Patients with SIRS. Surgical Infection Society 1st Joint International Meeting; 2002. Madrid, Spain
3. Unmc. Mechanical Circulatory Support. UNMC Department of Anesthesiology Grand Rounds; 2009 March. University of Nebraska Medical Center, Omaha, NE
4. Unmc. Heart Transplantation and Mechanical Circulatory Support. International Transplant Nurses Society; 2010 September. Omaha, NE
5. Haglund N; Raichlin E; Ryan T; Um J; Dumitru I. Impact of INTERMACS and Composite Preoperative Mortality Risk Score Stratification on Survival in Patients Receiving Heart Mate II LVAD as Bridge to Transplantation. Heart Failure Society of America; 2010 Sept 19. San Diego, CA
6. Radio S; Um J; Raichlin E; Dumitru I. Cannula Neointima Growth and Thrombi: Impact on LVAD Long Term Function and Outcome. International Society of Heart and Lung Transplantation; 2011 April
7. Grand Rounds. Mechanical Circulatory Support. Department of Surgery Grand Rounds; 2011 December 12. Creighton University Medical Center
8. Um. Cardiovascular disease: End stage heart failure. Surgical educators Day; 2012 Sep 17. University of Nebraska Medical Center, Omaha NE
9. Um. VADS. CT Surgery Grand Rounds; 2012 Oct 9. University of Nebraska Medical Center, Omaha NE
10. Um. Surgical approach to HF, LVAD, indication, selection criteria, complications and follow-up. Cardiology Grand Rounds; 2012 Nov 6. University of Nebraska Medical Center, Omaha NE
11. Saxena S; Um J; Dumitru I; Bookman B; Pilmayer S; Ryan T; Yanonne S; Moulton MJ; Lowes B; Raichlin E. Improvement in severe kidney dysfunction after implantation of continuous flow left ventricular assist devices. American College of Cardiology; 2013 March. San Francisco, CA
12. Saxena S; Um J; Dumitru I; Pilmayer S; Ryan T; Yannone S; Moulton MJ; Lowes B; Raichlin E. Late Right Heart Failure after LVAD Implantation: Clinical Predictors and Outcomes. American College of Cardiology; 2013 March. San Francisco, CA

13. Um. Discussing pt. with undiagnosed pheochromocytoma that was placed on ECMO. Multi department M&M; 2013 May 29. Nebraska Medicine, Omaha NE
14. Um. Mechanical Circulatory Support. Dept. of Surgery Grand Rounds; 2013 May 22. University of Nebraska Medical Center, Omaha NE
15. Um. The state of coronary bypass surgery in 2013. CT Surgery Grand Rounds; 2013 Nov 20. University of Nebraska Medical Center, Omaha NE
16. Um. Heart Transplantation 2014. Winter Workshop Nebraska State Assembly of the Association of Surgical Technologists; 2014 Mar 1. omaha, ne 68198
17. Um. ViV vs LV mechanical support-the evolution in patient selection. CT Surgery Grand Rounds; 2014 Jun 17. University of Nebraska Medical Center, Omaha NE
18. Um. Heart Transplantation. CPCU & 850 education lecture; 2014 Nov 19. University of Nebraska Medical Center, Omaha NE
19. Um. Fundamentals of cardiopulmonary bypass. CT Surgery Grand Rounds; 2015 Aug 12. University of Nebraska Medical Center, Omaha NE
20. Ryan, Timothy; Siddique A; Burdorf, Adam; Merritt HM; Um; Moulton MJ. Cost Comparison of Extracorporeal Life Support on Survivors and Non. ISHLT; 2016 April. Washington, DC
21. Varnado, Sarah; Siddique A; Burdoff, Adam; Merritt HM; Um J; Moulton MJ. Myocarditis Treated with VA-ECMO: A Single Centers Experience. ISHLT; 2016 April. Washington, DC
22. Ryan, Timothy; Siddique A; Burdoff, Adam; Um J; Merritt HM. Laboratory Variables Determining 30-Day Mortality in Veno-Arterial and Veno-Venous ECMO Patients. ISHLT; 2016 April. Washington, DC
23. Siddique A; Um J; Merritt HM; Burdoff, Adam; Moulton MJ. Totally Percutaneous RVAD/ECMO Configuration Provides Versatile Support for RV Failure. ISHLT; 2016 April. Washington, DC
24. Varnado, S; Um JY; Vongooru, H; zolty, ronald; Lowes BD; Burdorf, Adam; Fenske, B; Huntsberry, A; Siddique, Al; Moulton MJ; Raichlin E. Heart Rate and Cardiac Allograft Vasculopathy in Heart Transplant Recipients. 36th Annual International Heart and Lung Transplantation Scientific Sessions; 2016 April 27-30. Washington, DC
25. Ryan, TR; Burdorf, Adam; Lowes BD; Um JY; Siddique A; Merritt-Genore, HM; Varnado, SL. Financial Impact of Extracorporeal Life Support on Survivors versus Non-Survivors. 36th Annual International Heart and Lung Transplantation Scientific Sessions; 2016 April 27-30. Washington DC
26. Varnodo S; Brink S; Balk J; Raichlin E; Lowes BD; Vongooru HR; Burdorf Adam; Um JY; Siddique A; Zolty R. CMV Reactivation Using Valganciclovir vs Valacyclovir in Moderate Risk Heart Transplant Recipients. 36th Annual International Heart and Lung Transplantation Scientific Sessions; 2016 April 27-30. Washington DC
27. Varnado S; Burdorf AF; Higgins JV; Lowes BD; Zolty R; Vongooru H; Fenske BM; Siddique A; Moulton MJ; Um JY; Raichlin E. Cardiac allograft sinus tachycardia is associated with impaired exercise tolerance. American College of Cardiology's 65th Annual Scientific Sessions; 2016 April. Chicago, IL
28. Zolty, R; Raichlin E; Burdorf, Adam; Vongooru HR; Ryan TR; Yannone SM; Ferguson K; Siddique A; Moulton MJ; Um JY; Lowes BD. Laparoscopic Sleeve Gastrectomy in Morbidly Obese Patients with End-Stage Heart Failure and LVAD. American Heart Association Scientific Sessions 2016; 2016 November 12-16. New Orleans, LA

29. Birks EJ; rome e; Patel S; Selzman C; Cunningham C; Starling R; Um JY; Goldstein D; Slaughter M; Alturi P; Spevack DM; Farrar D; Lowes BD; Drakos S. Remission From Stage D Heart Failure (RESTAGE-HF): Interim Results and Insights From A Prospective Multi-Center Non-Randomized Study of Myocardial Recovery Using LVADs. American Heart Association Scientific Sessions 2016; 2016 November 12-16. New Orleans, LA
30. Raichlin E; Selim AM; Zolty R; Burdorf AF; Siddique A; Moulton MJ; Um JY; Lowes BD. Cardiopulmonary Stress Test One Year after HTx Predicts the Development of CAV. 37th Annual International Heart and Lung Transplantation Scientific Sessions; 2017 April 5-8. San Diego, CA
31. Selim AM; Zolty R; Burdorf AF; Um JY; Siddique A; Moulton MJ; Lowes BD; Raichlin E. The Transmitral Peak Flow Velocity-Mitral Annular Diastolic Velocity Ratio (e/e') Does Not Predict Left Ventricular Filling Pressure Post Cardiac Transplant. 37th Annual International Heart and Lung Transplantation Scientific Sessions; 2017 April 5-8. San Diego, CA
32. Selim AM; Zolty R; Burdorf AF; Siddique A; Um JY; Moulton MJ; Lowes BD; Raichlin E. Higher Heart Rate is Associated with Lower Incidence of Coronary Allograft Vasculopathy Requiring Angioplasty. 37th Annual International Heart and Lung Transplantation Scientific Sessions; 2017 April 5-8. San Diego, CA
33. Lundgren SW; Raichlin E; Selim AM; lowes bd; Zolty R; Moulton MJ; um jy; Poon C. Depression in patients undergoing left ventricular assist device implantation. 37th Annual International Heart and Lung Transplantation Scientific Sessions; 2017 April 5-8. San Diego, CA
34. Merritt; Moulton MJ; Um; Markin N; Siddique A. Tension Pneumopericardium in an LVAD, Rare but Real. ISHLT; 2017 April. San Diego
35. Merritt HM; Siddique A; Um J; Moulton MJ. The Effect of Recombinant-Activated Factor VII on Patients Requiring ECMO Support. ISHLT; 2017 April. San Diego
36. Selim AM; Raichlin E; Burdorf AF; um jy; Siddique A; Moulton MJ; Lowes BD; Zolty R. Left Ventricular Assist Devices Can Reverse Pulmonary Hypertension Group 2 with Significantly Elevated Pulmonary Vascular Resistance. American Thoracic Society (ATS) 17th International Conference; 2017 May 19-24. Washington DC
37. Jacob Moore; Kwapnoski ZJ; Moulton MJ; Siddique A; Um JY; Merritt-Genore HL. ECMO as a Bridge TO or FROM Cardiac Transplantation. ELSO Annual Meeting; 2017 September. Baltimore, MD
38. Kwapnoski ZJ; Moore, Jacob; Moulton MJ; Um JY; Siddique A; Merritt-Genore HL. The effect of hemoglobin on ECMO outcomes. CREF; 2017 September. San Diego, CA
39. Merritt-Genore HL; Shoiab I; Smith SP; Siddique A; Um JY; Moulton MJ. Delayed Anticoagulation Initiation for ECMO Patients at High Risk of Exsanguination. Southern Thoracic Surgical Association; 2017 November. San Antonio, Texas
40. Kwapnoski ZJ; Siddique A; Um JY; Moulton MJ; Merritt-Genore HL. Nurse-Driven Protocol is Safe and Cost-Effective for ECMO Patients. Society of Thoracic Surgeons; 2018. Ft Lauderdale, FL
41. Luksan AS; Berkheim D; Siddique A; Um JY; Moulton MJ; Merritt-Genore HL. Time is on Your Side: A Comparison of OR Times with ECMO Survival in Post Cardiectomy Patients. ISHLT; 2018. Nice France
42. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Zolty R; Burdorf AF; um jy; lowes bd. Pre-LVAD Utilization of Amiodarone and Its Impact on Post-LVAD Outcomes.

- American College of Cardiology Scientific Sessions; 2018 March 9-12. Orlando, Florida
43. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Zolty R; Burdorf AF; um jy; lowes bd. Left Ventricular Assist Device Does Not Improve Cellular Immunity in End-Stage Heart Failure. American College of Cardiology Scientific Sessions; 2018 March 9-12. Orlando, Florida
 44. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Zolty R; Burdorf AF; um jy; Lowes BD. Post-Left Ventricular Assist Device Inotropic Score Predicts Short- and Long-Term Mortality. American College of Cardiology Scientific Sessions; 2018 March 9-12. Orlando, Florida
 45. Urban M; Siddique A; Merritt HM; Um JY; Moulton MJ. Outcome Analysis of Percutaneous VA ECMO as a Bridge to Durable LVAD. ELSO Annual Meeting; 2018 Sept
 46. Karnatak RK; Cawcutt KA; Kalil AC; ryan t; Moulton MJ; Siddique A; um jy; sandovsky y. Does Left Ventricular Assist Device Increase the Risk for Infections Over Time? A Phenotypic Evaluation. 2019 ATS International Conference; 2019
 47. Urban M; Merritt-Genore HL; Siddique A; Moulton MJ; ryan t; Um JY. . Impact of Venous-Arterial Membrane Oxygenation on Outcome of "Crash and Burn" Patients Transitioned to Durable Left Ventricular Assist Device. 39th Annual International Heart and Lung Transplantation Scientific Sessions; 2019 April. Orlando, FL
 48. Macdonald CJ; Urban M; Moulton MJ; McCain NT; Stoller DA; Zolty R; um jy; Siddique A. Recurrent Pump Thrombosis is Common after Axial Continuous Flow LVAD Exchange. 39th Annual International Heart and Lung Transplantation Scientific Sessions; 2019 April. Orlando, FL
 49. URBAN, M; Fristoe LW; ryan t; Siddique A; Castleberry A; um jy. Percutaneous Temporary Right Ventricular Mechanical Support With Double Lumen Cannula During Left Ventricular Assist Device Implantation - A Word Of Caution. 2020 ASAIO On Demand Virtual Meeting; 2020
 50. Urban M; Siddique A; Castleberry A; ryan t; um jy. Do centrifugal-flow left ventricular assist devices offer survival advantage over axial-flow devices in patients transitioned from venoarterial extracorporeal membrane oxygenation?. 2020 AATS Mechanical Support for the Heart and Lung Symposium; 2020. Houston, TX
 51. Boudreaux JC; Urban M; Castleberry A; um jy; Moulton MJ; Siddique A. Impact of Individual Surgeon Volume on Outcomes Following LVAD Implantation. . International Society for Heart and Lung Transplantation (ISHLT) 41st annual meeting and scientific sessions; 2021
 52. Greni SE; Siddique A; Castleberry A; Lowes BD; um jy; Moulton MJ; Lundgren SW; Stoller DA; Urban M. Risk Factors Associated with Post Heart Transplantation Left Ventricular versus Right Ventricular Primary Graft Dysfunction. ISHLT 41st Annual Meeting and Scientific Sessions; 2021
 53. Muellner MJ; Siddique A; Castleberry A; um jy; Lowes BD; Stoller DA; Moulton MJ; Urban M. Donor Transient Myocardial Dysfunction "Structural versus Hypoxic Brain Injury. ISHLT 41st Annual Meeting and Scientific Sessions; 2021
 54. Boudreaux JC; Urban M; um jy; thompson sl; Moulton MJ; Siddique A. Impact Of Tracheostomy In Patients Receiving VV ECMO. 2021 ASAIO Annual Conference; 2021
 55. Urban M; Moody ML; Castleberry A; lowes bd; Siddique A; um jy. Impact of Donation

- After Circulatory Death Heart Transplantation on Waitlist Outcomes and Transplantation Activity. ISHLT 42nd Annual Meeting and Scientific Sessions; 2022
56. Urban M; Castleberry A; Markin NW; Chacon MM; lowes bd; Siddique A; um jy. Early Outcomes of Donation After Circulatory Death Heart Transplantation with Thoracoabdominal Normothermic Regional Perfusion. ISHLT 42nd Annual Meeting and Scientific Sessions; 2022
 57. Urban M; Castleberry A; Lowes BD; Moody ML; Fristoe LW; Siddique A; um jy. Evaluation of Safety and Effectiveness of the Paragonix_ SherpaPak Cardiac Transport System in Donation After Circulatory Death Heart Transplantation. ISHLT 42nd Annual Meeting and Scientific Sessions; 2022
 58. URBAN, M; Castleberry A; Siddique A; um jy; Merani S. Donor organ utilization and transplantation in donation after circulatory death using thoracoabdominal normothermic regional perfusion. American Transplant Congress; 2022. Boston, MA

PUBLICATIONS

A. ARTICLES PUBLISHED IN SCHOLARLY JOURNALS

1. Lee SE, Pulaski CR, He DM, Benjamin DM, Voss M, Um J, Hendrickson EA. Isolation of mammalian cell mutants that are X-ray sensitive, impaired in DNA double-strand break repair and defective for V(D)J recombination. *Mutation Research-DNA Repair*. 336 : 279-291. 1995
2. Calvano JE, Um JY, Agnese DM, Hahm SJ, Kumar A, Coyle SM, Calvano SE, Lowry SF. Influence of the TNF- α and TNF- β polymorphisms upon infectious risk and outcome in surgical intensive care patients. *Surgical Infections*. 4 : 163-169. 2003
3. Calvano JE, Agnese DM, Um JY, Goshima M, Singhal R, Coyle SM, Reddell MT, Kumar A, Calvano SE, Lowry SF. Modulation of the lipopolysaccharide receptor complex (CD14, TLR4, MD-2) and toll-like receptor 2 in systemic inflammatory response syndrome-positive patients with and without infection: relationship to tolerance. *Shock (Augusta, Ga.)*. 20 : 415-419. 2003
4. Kalil AC, Coyle SM, Um JY, LaRosa SP, Turlo MA, Calvano SE, Sundin DP, Nelson DR, Lowry SF. Effects of drotrecogin alfa (activated) in human endotoxemia. *Shock (Augusta, Ga.)*. 21 : 222-229. 2004
5. Reddy SLC; Balsara K; Lin S; Palmer S; Um JY; Catarino P; Bush E; Davis RD. Post lung transplantation bronchiolitis obliterans syndrome. A regression analysis of clinical predictors. *Journal of Heart and Lung Transplantation*. 2008; Vol. 27 (2S): p. S97
6. Taylor MD; Um J; Kozower BD; Jones DR; Ailawadi G; Scavuzzo M; Guthrie T; Meyers BF; Davis RD; Patterson GA; Lau CL. 1 Risk of bronchiolitis obliterans in lung transplant recipients who require ECMO for primary graft failure. *Journal of Heart and Lung Transplantation*. 2009; Vol. 28 (2S): p. S107
7. Welsby IJ, Um J, Milano CA, Ortel TL, Arepally G. Plasmapheresis and heparin reexposure as a management strategy for cardiac surgical patients with heparin-induced thrombocytopenia. *Anesthesia and Analgesia*. 110 : 30-35. 2010
8. Poterucha JT, Haglund NA, Um JY, Porter TR, Dumitru I. Dynamic pulmonary artery obstruction causing right ventricular failure after cardiac transplantation in a patient with

- mustard-senning corrected d-transposition of the great arteries. *Congenital Heart Disease*. 7 : 2012
9. Sandkovsky U, Florescu DF, Um JY, Raichlin E, Lowes BD, Kapalis M, Hewlett A, Duncan KF, Ryan T, Dimaio D, Wedel W, Kalil AC. Cytomegalovirus reactivation and colitis after left ventricular assist device placement. *International Journal of Infectious Diseases*. 17 : e348-e351. 2013
 10. Raichlin E; Um J; Dumitru I; Lowes B; Moulton MJ; Gebhart C; Grant W; Hammel JM. Combined Heart and Liver Transplantation Against Positive Cross-Match for Patient With Hypoplastic Left Heart Syndrome. *Transplantation*. 2014; Vol. 98 (12)
 11. Anderson DR; Duryee MJ; Shurmur SW; Um JY; Bussey WD; Hunter CD; Garvin RP; Sayles HR; Mikuls TR; Klassen LW; Thiele GM. Unique antibody responses to malondialdehyde-acetaldehyde (MAA)-protein adducts predict coronary artery disease. *PLoS ONE*. 2014; Vol. 11: p. e107440
 12. Schulte,TE; Um, JY; Shillcutt, SK. Transesophageal echocardiography examination for percutaneous right ventricular assist device placement. *Anesthesia and Analgesia*. 118 : 69-71. 2014
 13. Eugenia Raichlin; John Y. Um; Kim F. Duncan; Ioana Dumitru; Brian D. Lowes; Moulton MJ; Catherine L. Gebhart; Wendy J. Grant; James M. Hammel. Combined heart and liver transplantation against positive cross-match for patient with hypoplastic left heart syndrome. *Transplantation*. 98 : e100-e102. 2014
 14. Nicholas A. Haglund; Adam Burdorf; Tara Jones; Valerie Shostrom; John Um; Timothy Ryan; Sasha Shillcutt; Patricia Fischer; Zachary L. Cox; Eugenia Raichlin; Brian D. Lowes; Ioana Dumitru. Inhaled Milrinone After Left Ventricular Assist Device Implantation. *Journal of Cardiac Failure*. 2014
 15. Daniel R Anderson; Michael J. Duryee; Scott W. Shurmur; John Y Um; Walter D. Bussey; Carlos D. Hunter; Robert P. Garvin; Harlan R. Sayles; Ted R Mikuls; Lynell Warren Klassen; Geoffrey Milton Thiele. Unique antibody responses to malondialdehyde-acetaldehyde (MAA)-protein adducts predict coronary artery disease. *PloS one*. 9 : 2014
 16. Florescu MC, Sacks AR, Um JY. Cardiac Assist Devices and Hemodialysis Catheter Procedures - What Do the Nephrologists Need to Know?. *Seminars in Dialysis*. 2015
 17. Nicholas A. Haglund; Adam Burdorf; Tara Jones; Valerie Shostrom; John Um; Timothy Ryan; Sasha Shillcutt; Patricia Fischer; Zachary L. Cox; Eugenia Raichlin; Brian D. Lowes; Ioana Dumitru. Inhaled milrinone after left ventricular assist device implantation. *Journal of Cardiac Failure*. 21 : 792-797. 2015
 18. Florescu, MC; Sacks AR; Um JY. Cardiac Assist Devices and Hemodialysis Catheter Procedures - What Do the Nephrologists Need to Know?. *Seminars in Dialysis*. 28 : 670-675. 2015
 19. Lowes BD; Rome E; Dhar, K; Kittrell, J; Eudy JD; Um JY; Moulton, A; Zao, J; Redder, R; Moulton MJ; Anderson DR. Damaging Cardiac and Cancer Genetic Variants in the LVAD Population. *The VAD Journal*. 2015 Nov
 20. Eugenia Raichlin; Bipul Baibhav; Brian D D Lowes; Ronald Zolty; Elizabeth R R Lyden; Hareeprasad R R Vongooru; Aleem Siddique; Moulton MJ; John Y Y Um. Outcomes in Patients with Severe Pre-existing Renal Dysfunction after Continuous Flow Left Ventricular Assist Device Implantation. *ASAIO Journal*. 2016
 21. Nicholas A. Haglund; Adam Burdorf; Tara Jones; Valerie Shostrom; John Um; Timothy

- Ryan; Sasha Shillcutt; Patricia Fischer; Zachary L. Cox; Eugenia Raichlin; Daniel R. Anderson; Brian D. Lowes; Ioana Dumitru. Corrigendum. *Journal of Cardiac Failure*. 22 : 246. 2016
22. Raichlin E; Baibhav B; Lowes BD; Zolty R; Lyden ER; Vongooru HR; Siddique A; Moulton MJ; Um JY. Outcomes in Patients with Severe Preexisting Renal Dysfunction after Continuous-Flow Left Ventricular Assist Device Implementation. *ASAIO journal (American Society for Artificial Internal Organs : 1992)*. 2016 May; p. 261-267. 1058-2916
 23. Dhar K, Moulton AM, Rome E, Qiu F, Kittrell J, Raichlin E, Zolty R, Um JY, Moulton MJ, Basma H, Anderson DR, Eudy JD, Lowes BD. Targeted myocardial gene expression in failing hearts by RNA sequencing. *Journal of Translational Medicine*. 14 : 2016
 24. Sara Varnado; Yael Peled-Potashnik; Ashley Huntsberry; Brian D. Lowes; Ronald Zolty; Adam Burdorf; Elizabeth R. Lyden; Moulton MJ; John Y. Um; Eugenia Raichlin. Effect of diltiazem on exercise capacity after heart transplantation. *Clinical Transplantation*. 31 : 2017
 25. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Burdorf AF; Zolty R; um jy; Lowes BD. Electrocardiographic characteristics, antiarrhythmic utilization, and outcomes in patients with left ventricular assist devices. *The VAD Journal*. 2018
 26. Scott Lundgren; Brian D Lowes; Ronald Zolty; Adam Burdorf; Eugenia Raichlin; John Y Um; Cecilia Poon. Do Psychosocial Factors Have Any Impact on Outcomes After Left Ventricular Assist Device Implantation?. *ASAIO journal (American Society for Artificial Internal Organs : 1992)*. 64 : e43-e47. 2018
 27. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Burdorf AF; Zolty R; um jy; Lowes BD. Electrocardiographic characteristics, antiarrhythmic utilization, and outcomes in patients with left ventricular assist devices. *The VAD Journal*. 2018 Aug
 28. Lundgren SW; Stoller DA; Hyden MP; Burdorf AF; Zolty R; um jy; lowes bd. Electrocardiographic characteristics, antiarrhythmic utilization, and outcomes in patients with left ventricular assist devices. *The VAD Journal*. 2018 Aug
 29. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Burdorf AF; Zolty R; um jy; lowes bd. Electrocardiographic characteristics, antiarrhythmic utilization, and outcomes in patients with left ventricular assist devices. *The VAD Journal*. 2018 Aug
 30. Lundgren SW; Lyden ER; Stoller DA; Hyden MP; Burdorf AF; Zolty R; um jy; Lowes BD. Electrocardiographic characteristics, antiarrhythmic utilization, and outcomes in patients with left ventricular assist devices. *The VAD Journal*. 2018 Aug
 31. Scott Lundgren; Cecilia Y.M. Poon; Ahmed Selim; Brian D. Lowes; Ronald Zolty; Adam Burdorf; Yael Potashnik-Peled; Moulton MJ; John Y. Um; Eugenia Raichlin. Depression and anxiety in patients undergoing left ventricular assist device implantation. *International Journal of Artificial Organs*. 41 : 76-83. 2018
 32. Urban M; Siddique A; Merritt-Genore HL; um jy. What are the results of Venoarterial Extracorporeal Membrane Oxygenation Bridging to Heart Transplantation?. *Interactive cardiovascular and thoracic surgery*. 2019; p. 632-634. 1569-9293
 33. Joshua Newman; Max Liebo; Brian D Lowes; Haseeb Ilias Basha; Yael Peled; Emily Cendrowski; Ronald Zolty; Dylan Douglas; John Y Um; Edwin McGee; Alain Heroux; Eugenia Raichlin. The effect of donor alcohol abuse on outcomes following heart transplantation. *Clinical Transplantation*. 2019
 34. Max Liebo; Joshua Newman; Anjali Joshi; Brian D Lowes; Yael Peled-Potashnik;

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 50. Marian Urban; Morgan Moody; Elizabeth Lyden; Lecia Kinen; Anthony W. Castleberry; Aleem Siddique; Brian D. Lowes; Douglas A Stoller; Scott W. Lungren; John Y Um. Impact of donation after circulatory death heart transplantation on waitlist outcomes and transplantation activity. *Clinical Transplantation*. 2023
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B. ARTICLES ACCEPTED FOR PUBLICATION IN SCHOLARLY JOURNALS

1. Lowes BD; Rome ET; Dhar K; Kittrell J; Eudy JD; Um JY; Moulton AM; Zao J; Redder R; Moulton MJ; Anderson DR; Raichlin E. Damaging Cardiac and Cancer Genetic Variants in the LVAD Population. *The VAD Journal*. 2015; Vol. 1: p. 1-11
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C. ARTICLES SUBMITTED FOR PUBLICATION IN SCHOLARLY JOURNALS

1. Schulte TE; Um JY; Shillcutt SK. Transesophageal Guidance of Percutaneous Right Ventricular Assist Device. *Anesthesia and Analgesia (English)*. 2012; International Anesthesia Research Society. (English) USA
2. Haglund; Luethge M; Duryee MJ; Hunter CD; Corcoran T; Alnouti Y; Beck J; Shillcutt S; Markin N; Anderson D; Cox Z; Maltais S; Lenihan D; Thiele G; Um J; Dumitru I. Characterization of nebulized milrinone and proposal of a clinical delivery system: are we finally ready for objective clinical application?. *Journal of cardiovascular pharmacology and therapeutics*. 2014; 1074-2484
3. Um. Targeting Myocardial Gene Expression in Failing Hearts by RNA Sequencing. *PLoS medicine*. 2015; 1549-1277
4. Raichlin E; Baibhav B; Lowes BD; Zolty R; Lyden E; Vongooru H; Siddique A; Moulton MJ; Um J. Outcomes in Patients with Severe Pre-existing Renal Dysfunction after Continuous Flow Left Ventricular Assist Device Implantation. *Journal of cardiac failure*. 2015; 1071-9164
5. Siddique A; Merritt-Genore HL; Um JY; O'Leary EL; Moulton MJ. Technique for Percutaneous RVAD placement. *Annals of Thoracic Surgery*. 2017 Sep; 1341-1098

D. BOOKS PUBLISHED, IN PREPARATION, SUBMITTED OR IN PRESS

Not Applicable

E. CHAPTERS IN BOOKS

Not Applicable

F. BOOKS OR JOURNALS EDITED

Not Applicable

G. ABSTRACTS AND PRELIMINARY COMMUNICATIONS

1. Haglund NA; Um J; Dumitru I; Faber E; Morris M; Duncan K; Raichlin E. Combined Heart and Kidney Transplantation Followed by Autologous Stem Cell Transplantation for Systemic AL Amyloidosis. *ISHLT*; San Diego, CA. 2011 Apr
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4. Saxena S; Raichlin E; Um J; Duncan K; Dumitru I; Lowes B; Hammel JM. Late Right Heart Failure after Left Ventricular Assist Device Implantation: Clinical Predictors and Outcomes. *ISHLT*; Montreal, CA. 2013
5. Saxena S; Um J; Dumitru I; Pilmaier S; Ryan T; Yannone S; Moulton MJ; Lowes B;

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6. Um J; Ryan T. Contemporary Experience with Percutaneous and Surgical Right Ventricular Assist Devices. *The Journal of H.* 2013 Apr , Vol. 32: S229-628
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 12. Jacob Moore; Kwapnoski ZJ; Moulton MJ; Um J; Siddique A; Merritt-Genore HL. ECMO Support as Bridge TO or FROM Cardiac Transplantation. ELSO Annual Meeting; Baltimore, MD. ASAIO. 2017
 13. Peled-Potashnik Y; Varnado S; Lowes BD; Zolty R; Lyden ER; Moulton MJ; Um J; Raichlin E. Sinus Tachycardia Is Associated with Impaired Exercise Tolerance following Heart Transplantation. *Clinical Transplantation.* 2017 Mar
 14. Merritt HM; Um J; Siddique A; Moulton MJ. The Effect of Recombinant-Activated Factor VII on Patients Requiring ECMO Support. ISHLT; *Journal of Heart and Lung Transplantation.* 2017 Apr
 15. Varnado S; Peled-Potashnik Y; Huntsberry AM; Lowes BD; Zolty R; Burdorf AF; Lyden ER; Moulton MJ; Um J; Raichlin E. Effect of Diltiazem on Exercise Capacity after Heart Transplantation. *Clinical Transplantation.* 2017 May
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 17. Lundgren SW; Poon C; Selim AM; Lowes BD; Zolty R; Burdorf AF; Peled-Potashnik Y; Moulton MJ; Um J; Raichlin E. Depression and Anxiety in patients undergoing left ventricular assist device implantation. *International Journal of Artificial Organs.* 2017 Nov
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- Heart and Lung Transplantation 39th Annual Meeting and Scientific Session; Orlando, Florida. 2019 Apr
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H. PUBLISHED AUDIOVISUAL OR COMPUTER-BASED EDUCATIONAL MATERIALS AND COMPUTER SOFTWARE

Not Applicable

I. PUBLISHED CONTINUING EDUCATION MATERIALS

Not Applicable

J. EDITORIALS

Not Applicable

K. CONFERENCE PROCEEDING

Not Applicable

COMMUNITY SERVICE

1999 - 1999 Organizer, Under-served Community Health Fair

EDUCATION / TEACHING ACTIVITY

A. ADDITIONAL INSTRUCTION

Other

Clinical Instructor, Department of Surgery, UMDNJ-RWJ, , 2004 - 2005