



Cardiology Fellowship

Newsletter

July 2019 Edition

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Welcome Our New Fellows

As a new year begins, we are excited to welcome six new Cardiovascular Disease fellows and four new fellows in our subspecialty programs for the 2019-2020 year. We are also delighted to have old friends in new roles in Cardiac Imaging, Interventional Cardiology, and Advanced Heart Failure and Transplant Cardiology.

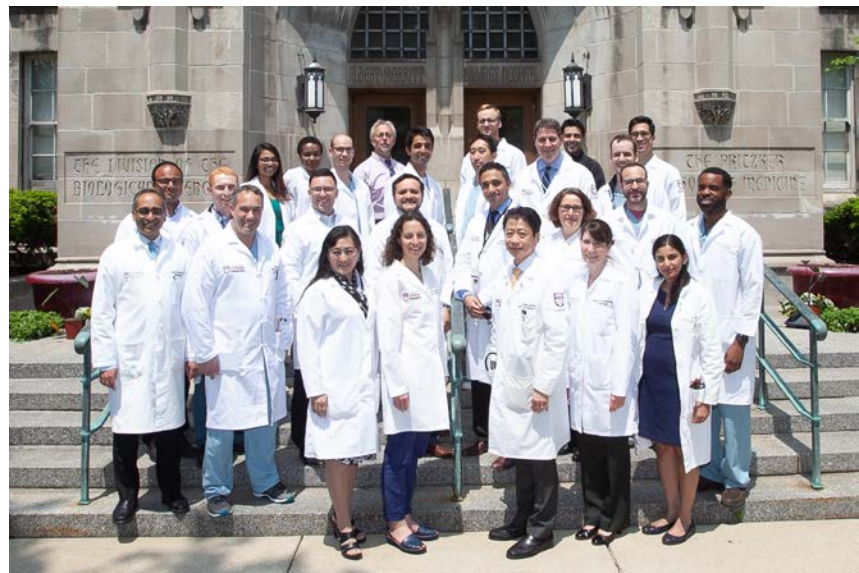
Our incoming class is an accomplished group and we are confident they will all be great additions to our Section. To get to know each of our new fellows, please see their photos and read their bios on subsequent pages. Here's to a great year!

A Year for the Books: 2018-2019 Fellowship Year

We have just completed a remarkable 2018-2019 fellowship year. Our talented fellows made us proud with many accomplishments, honors, and more. They have dedicated many hours to our Section, providing incredible care to our patients, all while developing as leaders, teachers and scientists. On behalf of all Cardiology faculty and staff, we thank you all for your hard work and offer big congratulations to our six graduates.

HAIL TO THE CHIEF

We'd like to welcome Dr. Abdulrahman Dia as the new Chief Fellow for the 2019 - 2020 fellowship class! Abdul has hit the ground running and will do an outstanding job. Big thanks to Isla McClelland for her incredible work as Chief Fellow for the past year!!



The New Faces of Cardiology Fellowship

AbdulRahman Abutaleb

I was born in the UAE, spent my childhood in Egypt and moved to Chicago in my teens. I have been a native to the north suburbs of Illinois until college, when I decided to hopscotch through the University of Illinois at Chicago, Rush University and Northwestern University; saving the best for last in joining the University of Chicago! I have a background in bioengineering and am interested in medical device development. I've been discovering the food scene in Chicago for more than 10 years now and somehow feel like I just scratched the surface. I enjoy playing and watching soccer, and simply hanging out with my friends.



Ian Hackett

I was born in Park Ridge, IL and raised in the northwest suburb of Algonquin, IL, where my parents still live. After attending college and medical school at Saint Louis University (Go Billikens!) I decided to try the 'out west' lifestyle and completed my residency and chief residency at the University of Utah in Salt Lake City. While I loved the mountains and all the natural beauty Utah had to offer, I am beyond ecstatic to be back home and continuing my training at U of C! Outside of work I enjoy cycling, running, cooking with my wife Kenzie, camping, and making memories with great company. I very much look forward to meeting you all and getting to know you.



Linda Lee

I am a native of Chicago and have lived in the area most of my life. I went to the University of Notre Dame for college where I majored in English. After college, I attended medical school at Rush Medical College and then went on to complete my internal medicine training at the University of Chicago. I left U of C for just a year while serving as Chief Resident at Loyola MacNeal Hospital but couldn't stay away for too long...I am thrilled to continue my training as a cardiology fellow at the University of Chicago! In my spare time I enjoy hanging out with friends and family, exploring the restaurant scene, binge watching TV shows, and enjoying all that Chicago has to offer. Looking forward to coming back and meeting all my new co-fellows!



Rishi Pandya

I was born and raised in the southwest suburbs of Chicago, but attended school in Beverly and have always considered the South Side a second home. I attended college at WashU where I studied anthropology, with a focus on medical anthropology and public health. I was excited to come home for medical school at UofC, but as a lifelong Midwesterner, I headed to the East Coast for residency at NYU to see what the hype was about. I enjoyed my time there and was fortunate to stay on for an additional year as a chief resident. However, after four years away I missed the superior pizza of Chicago and am thrilled to return to UofC for fellowship. In my spare time I enjoy vegetarian cooking, traveling, finding the next great cocktail bar, and coming up with witty captions for my Instagram posts about all three.



Nikhil Singh

I was born and raised in the Bay Area, California. As a lifelong Bruins fan I was thrilled to go to UCLA for undergrad. I then switched coasts and went to medical school at the University at Buffalo. After surviving Buffalo winters, I returned to LA to do residency at LAC+USC Medical Center. Most of my free time is spent watching basketball or searching for a new favorite burrito spot. I've heard nothing but great things about Chicago and am excited to see everything this city has to offer!



Eisha Wali

I am a Chicagoland native; I grew up in the western suburbs and went to college at Northwestern University where I double-majored in Economics and Communication Sciences and spent the rest of my time dancing. I moved to Cleveland for medical school at Case Western Reserve University and after four short years away was very excited to come back to do my residency here at the University of Chicago. I enjoyed my time at U of C so much that I stayed on as a hospitalist for a year and am thrilled to have the opportunity to now continue my journey as a cardiology fellow here! When I'm not at the hospital, I can usually be found out exploring new restaurants/rooftops and events around the city or at home with a crossword puzzle and a good TV show.



The Advanced Fellows of 2018-2019



Andrew Chen - Electrophysiology

I was born and raised in Los Angeles California, water polo was my sport of choice during my high school career. I went to the University of California Los Angeles for my undergraduate education receiving my Bachelor's degrees in Neuroscience and Psychobiology. I moved to the Midwest and attended Saint Louis University for medical school. I proceeded to do my residency at Loyola University Medical Center and just completed my cardiology fellowship at the University of Nevada, Las Vegas. I'm excited to be back in Chicago to start my fellowship in electrophysiology and work my new co-fellows. In my spare time, I enjoy sketching, working on cars, working out, and riding my motorcycle. It's an honor and a privilege to be part of the University of Chicago family.



Natasha Mehta - Adv. Heart Failure

I was born and raised in Princeton, New Jersey. I stayed in NJ for my undergraduate education at Rutgers University, and majored in pre-veterinary medicine and biochemistry. I was torn between my passion for animals and "human medicine", and completed a Masters' degree at Drexel University College of Medicine in Philadelphia, before deciding to pursue an MD at Saint George's University. I spent my 1st year of medical school in Newcastle, England followed by a year in Grenada, with the majority of my clinicals in Brooklyn, New York. I returned to Drexel University, in Philadelphia, and conducted a year of basic science research which involved cultivating cardiomyocytes; followed by internal medicine training and general cardiology fellowship which I also completed at Drexel. I have lived in Philadelphia for the last 7 years, and welcome the change of scenery, the food scene, and new opportunities that Chicago has to offer! On a personal note, my husband, Jay, and I eloped last September, and adopted 2 rescue dogs: Lily, a Doberman-Lab, and Juno, a Husky-corgi-who knows what-mix! In my spare time I love playing/exercising with our pups. travelling. I'm quite the foodie. and I'm



Hena Patel - Cardiac Imaging

I was born in upstate New York, but spent most of my life in the suburbs of Detroit, Michigan. I attended college at the University of Michigan where I graduated with degrees in Neuroscience and Political Science. Not ready to leave the comforts of being close to home, I completed my medical training at Wayne State University School of Medicine. Having a good run in Michigan, I finally made the move to Chicago. I was fortunate to have an incredible experience at Rush University Medical Center for both residency and cardiology fellowship. I'm very excited to be staying in Chicago for my advanced cardiac imaging training, and look forward to joining the University of Chicago cardiology family.

Pablo Salazar - Electrophysiology

I am from Chile a small but beautiful country in South America, and before coming to the USA I developed a medical career in internal medicine. I was practicing as faculty and later I had the privilege to be appointed as physician in-chief of the internal medicine division in a medium complexity hospital, leading an amazing group of physicians. Also, I have been complementing my clinical career with a special interest in the field of Medical Education and Health Care Management. After a couple of years of practice, I decided it was time to finally pursue advanced training in Cardiology, the field that has been my passion since medical school. My constant desire for providing the best quality care to my patients made me come to the USA seeking better Cardiology training. I did my cardiology fellowship at The University of Illinois at Chicago. Early in my training I developed an appreciation for the field of electrophysiology, given its increasing role in clinical medicine with its expanding technological advancements and interventional techniques. When I am not focused on medicine I dedicate my time to my family, my wife and my 6-month baby are my true inspiration. I also enjoy watching movies and outdoor activities. I am really excited to join the EP program at The University of Chicago Medicine and looking forward to the next 2 years of professional and personal enrichment.



Let's Get Personal

Fellows DO have a life outside of Cardiology! Here are a few major events that took place over the course of 2018-2019

Married!

- Lane Benes and Ben are getting married this week!

Engaged!

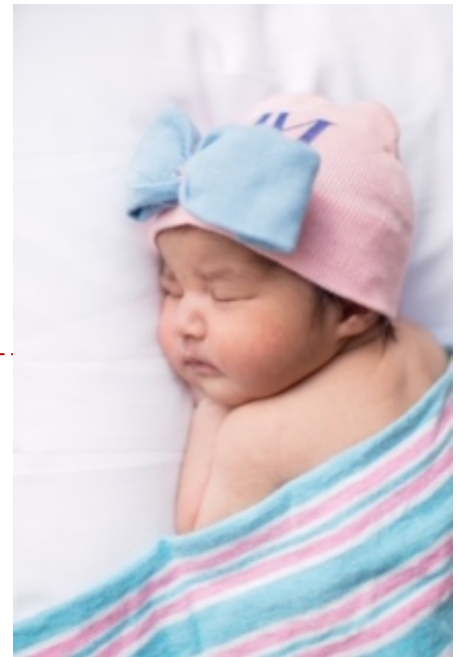
- Isla McClelland and Joe Nobile are engaged!

Expecting!

- Avani and Nikhil Narang will welcome their first baby in December.
- Danielle and Andrew Putnam are expecting a little one.

Fellowship Class of 2048

- Neha and Rohan Kalathiya welcomed Riya into the world. Riya was born on 4/11/2018.
- Beatrice joined mom Cassie and Dad Drew Oehler.



Congratulations to the 2019 Graduates!



Dr. Lane Benes will be a Cardiologist/Lipidologist at Evergreen Hospital

Dr. Tharian Cherian will be an Advanced Fellow in Clinical Cardiac Electrophysiology at the University of Pennsylvania

Dr. Heddy Luise Holzhauser will be an Advanced Fellow in Advanced Heart Failure & Transplant Cardiology at the University of Chicago

Dr. Paul Larsen will be Advanced Fellow in Interventional Cardiology at the University of Chicago

Dr. Andrew Putnam will be a Non-Invasive Cardiologist at Porter Regional Hospital

Dr. Joseph Venturini will be Advanced Fellow in Interventional Cardiology at the University of Chicago

Congratulations to our Graduating Advanced Fellows too!

Advanced Cardiac Imaging

- Kalie Kebed is joining United Heart and Vascular as a Non-Invasive Cardiologist/Structural echocardiography in St. Paul, Minnesota.
- Nina Rashedi has taken a position at Mayo Clinic

Advanced Heart Failure and Transplant Cardiology

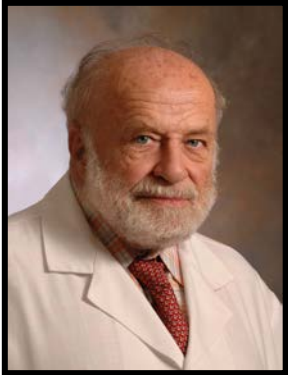
- Imo Ebong will be joining the Heart Failure team as faculty at University of California-Davis in Sacramento.
- Nikhil Narang will be a transplant cardiologist at Advocate Christ/Univ of Illinois.

Clinical Cardiac Electrophysiology

- Chris Jones will be an Electrophysiologist at Lakeland Health in Florida.

Interventional Cardiology

- Rohan Kalathiya will be staying on in Interventional as a Assistant Professor of Medicine.



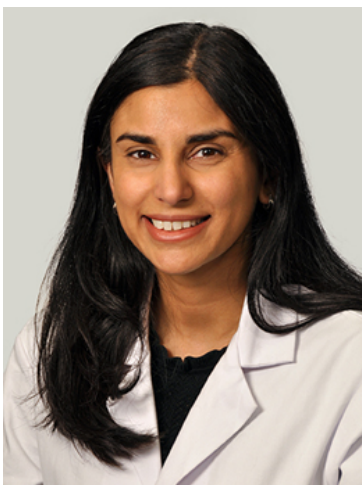
Rory Childers, M.D.
1931 -2014

Dr. Childers came to the University of Chicago in 1963 as a Cardiology fellow and remained here for 50 years. He became a renowned authority on the movement of electrical impulses within the beating heart and the use and interpretation of electrocardiograms. He lectured widely and received many honors. He was awarded the teaching award by the fellows so many times that the award was named after him.

Each year the fellows have the difficult task of choosing a faculty member to give the prestigious Rory Childers Teaching Award. It goes to a faculty member who the graduating class feels has inspired them and provided an outstanding mentorship and teaching.

2018-2019

Rory R. Childers Cardiology Teaching Award



This year, The *Rory R. Childers Cardiology Teaching Award* was presented to **Dr. Nitasha Sarawat**

**Congratulations,
Dr. Sarawat!**

Morton Arnsdorf Cardiovascular Research Day April 4-5, 2018



Morton Arnsdorf, MD
1940 -2010

The 10TH Annual Cardiovascular Research Day (CRD) Symposium was held April 4-5, 2018. The symposium highlighted the research within the Sections of Cardiology, Cardiothoracic Surgery, Vascular Surgery, Cardiac Anesthesiology and Interventional Radiology. This day is named in honor of our esteemed friend, mentor and colleague who we continue to miss greatly.

This year, we had an unprecedented number of abstract submissions; spanning basic research to clinical studies and representing all the disciplines in the cardiovascular field. Of the 75 abstracts, 17 were basic/translational studies and 58 were clinical studies. Many of the studies were performed as collaborations between 2 or more laboratories or groups. This made our Section exceptionally proud.

The Keynote lecture, “*Essential Paradigm for NO-based Signaling in the Cardiovascular System*” was given by our guest of honor Jonathan Stamler, MD from Case Western Reserve University School of Medicine and University Hospitals Cleveland Medical Center on April 5th.

Cardiovascular Research Day wouldn't have been possible without the participation of our committee!

Francis Alenghat, MD, PhD

John Blair, MD

Gene Kim, MD

James K. Liao, MD

Victor Mor-Avi, PhD

Cevher Ozcan, MD

Diane Hill

Melissa Meskers

Research Day: Featured Abstracts and Presentations

A Machine Learning Algorithm for Determination of Left Ventricle Volumes and Function: Comparison to Manual Quantification - **Keith Ameyaw**

Association of Atherosclerosis Prevalence With Age, Race, and Traditional Risk Factors in Patients With Psoriasis - **Kathryn Arnold**

His-Bundle Pacing for Electrical Resynchronization in Patients with Non-Left Bundle Branch Block - **Parth Desai**

Multi-ancestry Analysis Identifies Novel Susceptibility Loci and Genes for Venous Thromboembolism - **Wendy Hernandez**



Impressive Academic Production

Arnsdorf Cardiovascular Research Day...

- Predictive Modeling of Hospital Admissions in Ambulatory Patients with Cardiovascular Disease **Emeka C Anyanwu**,¹ Rhys FM Chua,¹ Stephanie A Besser,¹ Marynia Kolak,² Elizabeth L Tung,³ James K Liao,¹ Corey E Tabit¹ *Sayer, G. Kim, N. Uriel, F.J. Alenghat. ISHLT.*
- Variation in Blood Pressure and Glucose Among Low-Socioeconomic Urban Dwellers is Associated with Distance from Home to Pharmacy **Rhys FM Chua**,¹ Stephanie A Besser,¹ Marynia Kolak,² Elizabeth L Tung,³ **Emeka C Anyanwu**,¹ James K Liao,¹ Corey E Tabit¹
- Social Determinants of Health and Clinical Hypertension and Diabetes Prevalence on Chicago's South Side **Marynia Kolak**,¹ Rhys Chua,² Isaac Kamber,¹ Elizabeth L Tung,³ Stephanie A Besser,² **Emeka C Anyanwu**,² Luc Anselin,¹ James K Liao,² Corey E Tabit²
- Rising Violent Crime and Changes in Cardiovascular Outcomes: Longitudinal Evidence from Chicago 2014-2016 **Elizabeth L Tung**,¹ Rhys FM Chua,² Stephanie A Besser,² Marynia Kolak,³ Stacy T Lindau,⁴ **Emeka C Anyanwu**,² James K Liao,² and Corey E Tabit²
- A Pilot Study of Accelerated Radial Artery Hemostasis Following Percutaneous Transradial Coronary Angiography / Intervention, Utilizing a Novel Topical Hemostatic Agent in Conjunction with Surface Compression **Rajeev Anchan**¹, Linda Lee¹, Stephanie Besser¹, John Blair¹, Jonathan Paul¹, Sandeep Nathan¹
- Transcatheter Aortic Valve Implantation in Left Ventricular Assist Device Patients with Aortic Insufficiency **Mark N Belkin**, Teruhiko Imamura, Anthony J Kanelidis, **Luise Holzhauser**, **Imo Ebong**, **Nikhil Narang**, John E Blair, Sandeep Nathan, Jonathan D Paul, Atman P Shah, Ben Chung, Ann Nguyen, Bryan Smith, Sara Kalantari, Jayant Raikhelkar, Nitasha Sarswat, Gene Kim, Gabriel Sayer, Nir Uriel
- Ratio of Systolic Blood Pressure to Pulmonary Capillary Wedge Pressure Ratio: A Novel Prognostic Marker in Chronic Heart Failure **Nikhil Narang MD**, Teruhiko Imamura MD PhD, John E. Blair MD, **Luise Holzhauser MD**, **Imo Ebong MD**, **Mark N. Belkin MD**, Anthony Kanelidis MD, **Andrew Oehler MD**, **Dong Bo Yu MD PhD**, Takeo Fujino PhD, Daisuke Nitta MD, Ben Chung MD, Ann Nguyen MD, Bryan A. Smith MD, Jayant Raikhelkar MD, Nitasha Sarswat MD, Gene H. Kim MD, Valluvan Jeevanandam MD, Gabriel Sayer MD, Nir Uriel MD
- Functional Assessment of Decellularized Extracellular Matrix in Patients Undergoing LVAD Implantation **Dong Bo Yu**¹ Marcella Vaicik², Ann Nguyen¹, Daniel Rodgers¹, Stephanie Besser¹, **Nikhil Narang**¹, **Heddy Luise Holzhauser**¹, **Imo Ebong**¹, Anthony Kanelidis¹, Gabriel Sayer¹, Jayant Raikhelkar¹, Nitasha Sarswat¹, Bryan Smith¹, Sara Kalantari¹, Bow Young Chung¹, Eric Brey², John Georgiadis², Nir Uriel¹, Gene Kim¹
- Re-Defining Severe Tricuspid Regurgitation: Introducing A New Grade of Torrential Tricuspid Regurgitation Based on Outcomes Data **Kalie Kebed**, Karima Addetia, **Michael Henry**, Megan Yamat, Lynn Weinert, Stephanie A. Besser, Roberto M. Lang

Arnsdorf Cardiovascular Research Day continued...

- Metastatic Pericardial Mesothelioma: A Rare Case of Constrictive Pericarditis **Ilya Karagodin**¹, Kathleen Nagle¹, Brooke Scheidemantle², Jonathan Chung³, Jonathan Paul¹, **Paul Larsen**¹, **Rohan Kalathiya**¹, Tae Song⁴, Jeanne DeCara¹, Karima Addetia¹, Corey Tabit¹, Matthew Sorrentino¹, R. Parker Ward¹
- Percutaneous Transapical Left Ventricular Access to Treat Paravalvular Leak and Ventricular Septal Defect **Joseph M. Venturini**¹, **Isla McClelland**¹, John EA Blair¹, Akhil Narang,² **Rohan Kalathiya**¹, Roberto M. Lang,¹ Karima Addetia,¹ Jonathan Paul,¹ Sandeep Nathan,¹ Atman P. Shah¹
- Modified Bipolar Radiofrequency Ablation “Simultaneous Sensing” Configuration For Refractory Intramural Ventricular Arrhythmias **Arun Kannan MD**, Zaid Aziz MD, Frank Miele, Gaurav A Upadhyay MD, Andrew D Beaser MD, Hemal M Nayak MD and Roderick Tung MD.
- Contrast-Enhanced Echocardiographic Measurement of Longitudinal Strain: Accuracy and Its Relationship with Image Quality **Ilya Karagodin**¹, Davide Genovese¹, Eric Kruse¹, Amit R. Patel¹, **Nina Rashedi**¹, Roberto M. Lang¹, Victor Mor-Avi¹
- Hypertrophic Cardiomyopathy: A Role of Cardiac MRI Beyond Late Gadolinium Enhancement and Risk Stratification **Kalie Y Kebed**, Karima Addetia, Amit R Patel
- Underestimation of Mitral Regurgitation on Transthoracic Echocardiography: The Scope of the Problem and When to be Suspicious **Isla McClelland**¹, **Kalie Kebed**², Megan Yamat², Deyu Sun ², Victor Mor-Avi², Roberto M. Lang², Karima Addetia²
- Sources of Error in the Indirect Quantification of Mitral Regurgitation Using 4-Dimensional Flow Cardiac Magnetic Resonance **Nina Rashedi**, **Kalie Y. Kebed**, Jennifer Erley, Davide Genovese, Akhil Narang, Karima Addetia, Victor Mor-Avi, Roberto M. Lang, Amit R. Patel
- Wali, E, **Larsen PM**, **Venturini J**, Lee L, Hirai T, Rosenberg J, Paul J, Blair J, Tung R, Shah A, Nathan, S. Impact of Clinical Indication/Risk Strata on Outcomes in Patients Supported with Impella Microaxial Heart Pumps. Dr. Morton F. Arnsdorf Cardiovascular Research Day, Chicago, IL, 2019
- Analyzing the Impact of Catheter Directed Therapy on Long-Term Clinical Outcomes in Patients With Acute Pulmonary Embolism **Anthony V Serritella**, MD, **Andrew Putnam**, MD, Alexandru Marginean, MD, Murtaza Bharmal, MD, **Isla McClelland**, MD, Janet Friant, APN, Sandeep Nathan, MD, Atman Shah, MD, John Blair, MD, Jonathan Paul, MD
- Percutaneous Transapical Left Ventricular Access to Treat Paravalvular Leak and Ventricular Septal Defect **Joseph M. Venturini**¹, **Isla McClelland**¹, John EA Blair,¹ Akhil Narang,² **Rohan Kalathiya**¹, Roberto M. Lang,¹ Karima Addetia,¹ Jonathan Paul,¹ Sandeep Nathan,¹ Atman P. Shah¹
- Functional Status, Quality of Life and Ventricular Tachyarrhythmias Improve with Right Ventricular Pacing Compared to Biventricular Pacing in LVAD Patients **Ben Bow Chung**, Jon Grinstein, Sarah Weatherford, Sarah Tayazime, Daniel Rodgers, Diego Medvedofsky, Ann Nguyen, **Nikhil Narang**, Gene Kim, Nitasha Sarswat, Jayant Raikhelkar, Sara Kalantari, Bryan Smith, Valluvan Jeevanandam, Roberto Lang, Gabriel Sayer, Nir Uriel
- CardioMEMS Guides Successful CAR T-cell Therapy **Anthony J. Kanelidis** MD, Jayant Raikhelkar MD, **Luise Holzhauser** MD, Ann B. Nguyen MD, Ben Bow Chung MD, Bryan Smith MD, Gene Kim MD, **Nikhil Narang** MD, Gabriel Sayer MD, Tamar S. Polonsky MD, Nir Uriel MD



Arnsdorf Cardiovascular Research Day continued...

- **Oehler A**; Kanelidis, A J; Kalantari S; Smith B; Sayer G; Narang N; Holzhauser H L; Nguyen A; Chung B; Quinn M; Rhee C; Siegler M; Uriel N. *Education and Decision-Making in Patients and Caregivers Considering Ventricular Assist Devices. Poster Presentation.* Dr. Morton F. Arnsdorf Cardiovascular Research Day. Chicago, IL. April 2019.
- Provider Perspectives on Advance Directives in Patients with Left Ventricular Assist Devices **Andrew Oehler**, A. J. Kanelidis, S. Kalantari, B. Smith, G. Sayer, **N. Narang**, **H. L. Holzhauser**, A. Nguyen, B. Chung, M. Quinn, C. Rhee, M. Siegler, & N. Uriel
- RVOT/Ao Ratio on Computed Tomography Better Predicts RV Dysfunction and Invasive Hemodynamic Abnormalities as Compared to RV/LV Ratio in Patients with Pulmonary Embolism **Alexandru Marginean¹**, Andrew Putnam², Atman Shah², Sandeep Nathan², John Blair², Jonathan Chung³, Jonathan
- Radiofrequency Catheter-Based Pulmonary Denervation for Severe Pulmonary Hypertension: Initial Feasibility **Swati N. Rao MD**, Andrew D. Beaser MD, Zaid Aziz MD, Gaurav A. Upadhyay MD FHRS, Hemal Nayak MD FHRS, Remzi Bag MD and Roderick Tung MD FHRS
- Is Abnormal Global Longitudinal Strain Associated with the Presence of Late Gadolinium Enhancement: A Comparison of Strain Encoded Cardiac Magnetic Resonance and 2-Dimensional Echocardiography **Natalie Tapaskar¹**, Jennifer Erley², Davide Genovese², **Nina Rashedi¹**, Sebastian Kelle², Keigo Kawaji¹, Neha Goyal¹, Victor Mor-Avi¹, Roberto M. Lang¹, Amit R. Patel¹
- Cost-Utility of Extracorporeal Cardiopulmonary Resuscitation (ECPR) in Patients with Cardiac Arrest Murtaza Bharmal MD¹, **Joseph M. Venturini MD¹**, Rhys F. M. Chua MPH¹, Willard Sharp MD², David Beiser MD², Corey Tabit MD¹, Taishi Hirai MD^{1,3}, Jonathan R. Rosenberg MD^{1,4}, Janet Friant APN¹, John E.A. Blair MD¹, Jonathan D. Paul MD¹, Sandeep Nathan MD¹, Atman P. Shah MD¹
- Prognostic Value of Right Ventricular Function in Percutaneous Veno- Arterial Extracorporeal Membrane Oxygenation **Anupama Joseph, MD**; **Joseph Venturini, MD**; John E.A. Blair, MD, Jonathan Paul, MD, Atman P. Shah, MD; Sandeep Nathan, MD, MSc
- Effects of Sacubitril-Valsartan on Vascular Properties in Heart Failure Patients. **Ilya Karagodin**; Sara Kalantari; **Dong Bo Yu**; Gene Kim; Gabriel Sayer; Karima Addetia; Sarah Tayazime; Lynn Weinert; Megan Yamat; Nir Uriel; Roberto Lang; Victor Mor-Avi. Presented at Arnsdorf Cardiovascular Research Day 2018. Currently *Under Review* for publication.

Publications and Abstracts

- **Luise Holzhauser**, Roberto Lang, Gabriel Sayer and Nir Uriel Reverse ramp testing in LVAD support and Myocardial Recovery – in press American Society for ASAIO J. 2019 Jun 6. doi: 10.1097/MAT. [Epub ahead of print]
- **Luise Holzhauser**, Jonathan R. Rosenberg, Nir Uriel, Atman P. Shah LVAD decommissioning- a percutaneous cardiac catheterization lab approach Cardiovasc Revasc Med. 2018 Sep 11. pii: S1553-8389(18)30404-4
- **Holzhauser L**, Nguyen A, Jeevanandam V, Uriel N. HeartNet™ in an explanted heart of a Jehovah's Witness. J Card Surg. 2018 Sep 30. doi: 10.1111/jocs.13825.
- **L. Holzhauser**, G. Kim, G. Sayer, N. Uriel. The Effect of Left-Ventricular Assist Device Therapy on Cardiac Biomarkers: Implications for the Identification of Myocardial Recovery Curr Heart Fail Rep. 2018 Aug;15(4):250-259. doi: 10.1007/s11897-018-0399-3.
- **L. Holzhauser**, T. Imamura, A. Nguyen, B. Chung, T. Ota, S. Adatya, G. Kim, G. Sayer, N. Sarswat, J. Raikhelkar, V. Jeevanandam, N. Uriel. Consequence of Retained Defibrillator and Pacemaker Leads Following Heart Transplantation - An Under Recognized Problem. J Card Fail. 2018 Jan 8. pii: S1071-9164(18)30005-8. doi: 10.1016/j.cardfail.2017.12.012.
- Jenke, A ; Schur, R; Röger, C; Karadeniz, Z; Grüger, M; **Holzhauser, L**; Savvatis, K; Poller, W.; Schultheiss, H-P; Landmesser, U; Skurk, C. Adiponectin attenuates pro-fibrotic extracellular matrix remodeling following cardiac injury by up-regulating matrix metalloproteinase 9 expression in mice. [Physiol Rep](#). 2017 Dec;5(24). pii: e13523. doi: 10.14814/phy2.13523.
- Heart Transplant Under Sizing is Associated with Adverse Early Hemodynamics but Does Not Affect Survival **L.Holzhauser**, A.J.Kanelidis, T.Imamura, N.Bassi, T.Fujino, N.Daisuke, C.Murks, J.Powers, T.Riley, A.Nguyen, B.Chung, J.Raikhelkar, B.Smith, G.Kim, G.Sayer, N.Uriel, ISHLT, *Annual Scientific Sessions 2019*
- Adiponectin attenuates pro-fibrotic extracellular matrix remodeling following cardiac injury by up-regulating matrix metalloproteinase 9 expression in mice Jenke, A ; Schur, R; Röger, C; Karadeniz, Z; Grüger, M; **Holzhauser, L**; Savvatis, K; Poller, W.; Schultheiss, H-P; Landmesser, U; Skurk, C. [Physiol Rep](#). 2017 Dec;5(24). pii: e13523. doi: 10.14814/phy2.13523.
- What is the Role of Angiogenesis Markers in Cardiac Allograft Vasculopathy Following Heart Transplantation? **L. Holzhauser**, T. Imamura, T. Riley, J. Powers, C. Murks, B. Chung, V. Jeevanandam, A. Nguyen, **N. Narang, I. Ebong**, N. Sandeep, J. Raikhelkar, B. Smith, G. Sayer, G. Kim, F. Alenghat, N. Uriel. ISHLT, Annual Scientific Sessions 2019
- Cardiac Allograft Vasculopathy is Linked to Impaired Generation of Regulatory M2 Macrophages **L. Holzhauser**, T. Imamura, K.A. Arnold, A. Schroeder, C. Murks, J. Powers, T. Riley, G. Kim, J. Raikhelkar, B. Smith, A. Nguyen, S. Nathan, B. Chung, V. Jeevanandam, **N. Narang, I. Ebong**, G. Sayer, N. Uriel, F. Alenghat. ISHLT, Annual Scientific Sessions
- Pulmonary Arterial Hypertension With Concomitant Left Ventricular Dysfunction - A Challenging Clinical Scenario **Luise Holzhauser**, Jayant Raikhelkar, Lira Palen, Ann Nguyen, Bow Chung, Gene Kim, Bryan Smith, **Nikhil Narang, Imo Ebong**, Gabriel Sayer and Nir Uriel. ACC Annual Scientific Sessions. 2019

DID YOU KNOW?

The Section of Cardiology was founded in 1950 at the University of Chicago.

Publications and abstracts continued...

- Peripheral blood-derived myeloid subtypes are associated with cardiac allograft vasculopathy **L. Holzhauser**, K.A. Arnold, A. Schroeder, T. Imamura, A. Nguyen, B. Chung, **N. Narang**, M. Costanzo, V. Jeevanandam, C. Murks, T. Riley, J. Powers, N. Sarswat, S. Kalantari, J. Raikhelkar, G. Sayer, G. Kim, N. Uriel, F.J. Alenghat. *AHA Annual Scientific Sessions*. 2018
- Sharma K, Vaishnav J, **Kalathiya R**, Hu J, et al. Randomized Evaluation of Heart Failure with Preserved Ejection Fraction Patients with Acute Heart Failure and Dopamine (ROPA-DOP) Trial. *JACC Heart Fail*. 2018 Oct;6(10):859-870. <http://heartfailure.onlinejacc.org/content/6/10/859>
- **McClelland I, Kalathiya R**, Shah AP. Chapter 20: Percutaneous assist devices as salvage from cardiogenic shock. In: *Difficult Decisions Cardiothoracic Critical Care Surgery, Difficult Decisions in Surgery: An Evidence-Based Approach*. VA Lonchyna ed., Springer Nature, 275-288, 2019. https://doi.org/10.1007/978-3-030-04146-5_20
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- **Narang N, Holzhauser L**, Ebong L, Chung B, Nguyen A, Imamura T, Kalantari S, Smith BA, Kim G, Raikhelkar J, Sarswat N, Jeevanandam V, Sayer G, Uriel N. It's All in The Tissue: A Rare Case of Acute Cardiogenic Shock: Oral Presentation—**Finalist for American Heart Association Laennec Young Clinician Award**. Presented at The American Heart Association Scientific Sessions November 10th, 2018

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- **Kebed KY**, Lang RM, Patel AR. Myocardial Tissue Characterization with Cardiac Magnetic Resonance for the definitive diagnosis of Infiltrative Cardiomyopathies. *JACC: Cardiovascular Imaging*. [Accepted June 2019]
- **Kebed K**, Addetia K, Patel AR. Hypertrophic Cardiomyopathy: A Role of Cardiac MRI Beyond Late Gadolinium Enhancement and Risk Stratification. Society of Cardiac Magnetic Resonance Annual Scientific Sessions. Bellevue, Washington. Feb, 2019. [Oral presentation]
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- Sun D, **Kebed K**, Addetia K, Mor-Avi V, Markuzon N, Lang R. Measurement Errors in the Serial Assessment of Aortic Valve Stenosis Severity. American Society of Echocardiography 2019, Portland, OR.
- Sun D, **Kebed K**, Addetia K, Mor-Avi V, Markuzon N, Lang R. Echocardiographic Criteria for Severe Aortic Stenosis Revisited: Insights from a Quarter Century of Data. American Society of Echocardiography 2019, Portland, OR.
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- **Ebong IA**; Breathett K. The Time is Now: Reducing racial Risk of Hypertension with Post Pregnancy Follow Up. *J Women's Health (Larchmt)*. 2018 Sep 5. doi: 10.1089/jwh.2018.7351.
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- **McClelland I**, Nayak HM, Tung R, Upadhyay GA. Respiratory Rate Trending as a Cause for Atrial Lead Noise: A First Report in an Implantable Cardioverter Defibrillator Patient. *HeartRhythm Case Reports*. (2018 Aug 18);4(11): 545-547. doi: 10.1016/j.hrcr.2018.08.007
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Publications and abstracts continued...

- A Pilot Study of Accelerated Radial Artery Hemostasis Following Percutaneous Transradial Coronary Angiography / Intervention, Utilizing a Novel Topical Hemostatic Agent in Conjunction with Surface Compression **Rajeev Anchan**¹, Linda Lee¹, Stephanie Besser¹, John Blair¹, Jonathan Paul¹, Sandeep Nathan¹
- Predictive Modeling of Hospital Admissions in Ambulatory Patients with Cardiovascular Disease **Emeka C Anyanwu**,¹ Rhys FM Chua,¹ Stephanie A Besser,¹ Marynia Kolak,² Elizabeth L Tung,³ James K Liao,¹ Corey E Tabit¹ Sayer, G. Kim, N. Uriel, F.J. Alenghat. *ISHLT. Annual Scientific Sessions. 2018*
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- When Blood is Not an Option: Transplanting a Jehovah's Witness Patient with Cardiogenic Shock and Thrombocytopenia **L.Holzhauser**, C.Murks, J.Powers, T.Riley, A.Nguyen, B.Chung, J.Raikhelkar, B.Smith, G.Kim, G.Sayer, N.Uriel, ISHLT, Annual Scientific Sessions 2019
- Circulating monocyte subtypes correlate with cardiac allograft vasculopathy and differ from atherosclerotic disease – a tool for monitoring? **L. Holzhauser**, K.A. Arnold, A. Schroeder, T. Imamura, A. Nguyen, B. Chung, N. Narang, M. Costanzo, V. Jeevanandam, C. Murks, T. Riley, J. Powers, N. Sarswat, S. Kalantari, J. Raikhelkar, G. Sayer, G. Kim, N. Uriel, F.J. Alenghat. *ISHLT. Annual Scientific Sessions. 2018*
- **Venturini JM, McClelland I, Kalathiya R**, Rosenberg J, Hirai T, Lang RM, Addetia K, Blair JAE, Nathan S, Jeevanandam V, Shah AP. Percutaneous Transapical Left Ventricular Access to Treat Paravalvular Leak and Ventricular Septal Defect. *J Invasive Cardiol.* 2019;published online before print, June 2019.

Publications and abstracts continued...

- Predictive Modeling of Hospital Admissions in Ambulatory Patients with Cardiovascular Disease **Emeka C Anyanwu**,¹ Rhys FM Chua,¹ Stephanie A Besser,¹ Marynia Kolak,² Elizabeth L Tung,³ James K Liao,¹ Corey E Tabit¹ *Sayer, G. Kim, N. Uriel, F.J. Alenghat.* Janet Rowley Research Day
- Metastatic Pericardial Mesothelioma: A Rare Cause of Constrictive Pericarditis. **Ilya Karagodin**; Kathleen Nagle; Brooke Scheidemantle; Jonathan Chung; Jonathan Paul; **Paul Larsen**; **Rohan Kalathiya**; Tae Song; Jeanne DeCara; Karima Addetia; Corey Tabit; Matthew Sorrentino; R. Parker Ward. *Journal of the American College of Cardiology* 73 (9 Supplement 1), 2640.
- Metastatic Pericardial Mesothelioma: A Rare Cause of Constrictive Pericarditis. **Ilya Karagodin**; Kathleen Nagle; Brooke Scheidemantle; Jonathan Chung; Jonathan Paul; **Paul Larsen**; **Rohan Kalathiya**; Tae Song; Jeanne DeCara; Karima Addetia; Corey Tabit; Matthew Sorrentino; R. Parker Ward. Presented at ACC 2019.
- **Narang N**, Imamura T, Blair JE, Holzhauser L, Ebong I, Belkin MN, Kaneliidis A, Oehler A, Yu DV, Fajino T, Nitta D, Chung B, Nguyen A, Smith BA, Raikhelkar J, Sarswat N, Kim GH, Jeevanandam VJ, Sayer GS, Uriel N. Ratio of Systolic Blood Pressure to Pulmonary Capillary Wedge Pressure Ratio: A Novel Prognostic Marker in Chronic Heart Failure. Full Oral Presentation. To be presented at the 38th Annual Meeting and Scientific Sessions for the International Society for Heart and Lung Transplantation, April 6th 2019
- Bharmal M, **Venturini JM**, Chua RFM, Sharp W, Beiser DG, Tabit C, Hirai T, Rosenberg JR, Friant J, Blair JAE, Paul J, Nathan S, Shah AP. Cost-utility Analysis of Extracorporeal Cardiopulmonary Resuscitation in Patients with Cardiac Arrest. *Resuscitation*. 2019;136:126-130.
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- Bharmal M, **Venturini JM**, Shah AP. Cost-utility Analysis of Extracorporeal Cardiopulmonary Resuscitation in Patients with Cardiac Arrest. Poster presentation at TCT 2018, San Deigo, CA.
- Joseph A, **Venturini JM**, Blair JEA, Paul J, Shah AP, Nathan S. Prognostic Value of Right Ventricular Function in Percutaneous Veno-Arterial Extracorporeal Membrane Oxygenation. Poster presentation at TCT 2018, San Diego, CA

Posters and Presentations

- **Anchan, R.** The Gravid Atrium: An Uncommon Cause of Shortness of Breath in Pregnancy and the Expanding Role of Cardiac Magnetic Resonance Imaging. ACC 2019 Case Presentation
- **Kalathiya RJ, Venturini JM,** Blair JE. Difficult case of compromised RCA ostium post type A aortic dissection repair. Challenging Cases. *Transcatheter Cardiovascular Therapeutics (TCT)*, San Diego, CA, September 2018.
- **Kalathiya RJ,** Shah AP. Percutaneous management of a large ascending aortic pseudoaneurysm. Interesting Case Presentation. *Cardiovascular Research Technologies (CRT) 2019*, Washington D.C., March 2019.
- **McClelland I, Dia A,** Shah AP. Treatment of Severe Pulmonary Insufficiency in a Patient with Tetralogy of Fallot and Left Pulmonary Artery Stenosis with an Edwards Sapien3 Valve. TVT Conference 2019.
- Petropulos P, **Dia A, Venturini J,** Shah AP. Transapical Closure of a Bioprosthetic Mitral Perivalvular Leak in a Patient with a History of Rheumatic Heart Disease and Severe Right Sided Heart Failure. TVT Conference 2019.
- **Kebed, K.** American Society of Echocardiography Scientific Sessions Endocarditis-A multifaceted disease Portland, Oregon June 2019
- **Kebed, K** The Heart Beat of Cardiology: Practical Application of Echocardiography Mayo Clinic In Collaboration With University of Chicago Medical Center, Chicago, IL December 2018
- **Ebong, I.** Gender Differences in Heart Failure: Does sex make a difference? Grand Rounds, University of California, Davis, Sacramento, California on February 2019.
- Larsen, P. "Impella and the Impact of Clinical Indication & Risk Strata on Outcomes" University of Chicago, Section of Cardiology Grand Grounds, Chicago, IL. June 2019
- **McClelland I,** Mor-Avi V, Lang RM, Ward RP. Prevalence of Clinically Important Abnormalities Found on Transthoracic Echocardiograms Ordered for Indication of Heart Murmur Found on Physical Exam. *Poster presentation at ASE - 2019*
- Contrast-Enhanced Echocardiographic Measurement of Longitudinal Strain: Accuracy and Its Relationship with Image Quality. **Ilya Karagodin;** Davide Genovese; Eric Kruse; Amit R. Patel; **Nina Rashedi;** Roberto M. Lang; Victor Mor-Avi. Presented at Department of Medicine Research Day 2019. Currently Under Review for publication.
- **Effects of Sacubitril-Valsartan on Vascular Properties in Heart Failure Patients.** **Ilya Karagodin;** Sara Kalantari; Dong Bo Yu; Gene Kim; Gabriel Sayer; Karima Addetia; Sarah Tayazime; Lynn Weinert; Megan Yamat; Nir Uriel; Roberto Lang; Victor Mor-Avi. Presented at ASE 2018 Conference. Currently *Under Review* for publication.

Posters and Presentations continued....

- **Benes LB**, Brummell K, Roth M, Shen L, Davidson MH. Prevalence of Variants of Lipoprotein Metabolism Genes in a Single Lipidology Clinic. National Lipid Association 2019 Scientific Sessions, Miami, FL, May 2019.
- **Benes LB** What the Cardiologist Needs to Know about Lipoprotein (a). American College of Cardiology, Illinois Chapter Fellows-In-Training Lipid Program. Chicago, IL, May 2019.
- **Rajeev Anchan**¹, Linda Lee¹, Stephanie Besser¹, John Blair¹, Jonathan Paul¹, Sandeep Nathan^{1A} Pilot Study of Accelerated Radial Artery Hemostasis Following Percutaneous Transradial Coronary Angiography / Intervention, Utilizing a Novel Topical Hemostatic Agent in Conjunction with Surface Compression. Janet Rowley Research Day, Chicago, IL April 2019
- **Rajeev Anchan**¹, Linda Lee¹, Stephanie Besser¹, John Blair¹, Jonathan Paul¹, Sandeep Nathan^{1A} Pilot Study of Accelerated Radial Artery Hemostasis Following Percutaneous Transradial Coronary Angiography / Intervention, Utilizing a Novel Topical Hemostatic Agent in Conjunction with Surface Compression. Pending acceptance at TCT Sept 2019
- **Belkin MN**, Imamura T, Kanelidis AJ, Holzhauser L, Ebong I, Narang N, Blair JE, Nathan S, Paul JD, Shah AP, Chung BB, Nguyen A, Smith B, Kalantari S, Raikhelkar J, Sarswat N, Kim G, Sayer G, Uriel N. "Transcatheter Aortic Valve Implantation in Left Ventricular Assist Device Patients with Aortic Insufficiency." International Society of Heart and Lung Transplantation. Orlando, Florida. April 4, 2019
- Contrast-Enhanced Echocardiographic Measurement of Longitudinal Strain: Accuracy and Its Relationship with Image Quality **Ilya Karagodin**; Davide Genovese; Eric Kruse; Amit R. Patel; Nina Rashedi; Roberto M. Lang; Victor Mor-Avi Presented at ASE 2019 Conference. Currently *Under Review* for publication
- Effects of Sacubitril-Valsartan on Vascular Properties in Heart Failure Patients. **Ilya Karagodin**; Sara Kalantari; **Dong Bo Yu**; Gene Kim; Gabriel Sayer; Karima Addetia; Sarah Tayazime; Lynn Weinert; Megan Yamat; Nir Uriel; Roberto Lang; Victor Mor-Avi. Presented at Department of Medicine Research Day 2018. Currently *Under Review* for publication.
- Effects of Sacubitril-Valsartan on Vascular Properties in Heart Failure Patients. **Ilya Karagodin**; Sara Kalantari; **Dong Bo Yu**; Gene Kim; Gabriel Sayer; Karima Addetia; Sarah Tayazime; Lynn Weinert; Megan Yamat; Nir Uriel; Roberto Lang; Victor Mor-Avi. Presented at ACC FIT Research Day 2018. Currently *Under Review* for publication.
- **Oehler A**; Kanelidis, A J; Kalantari S; Smith B; Sayer G; **Narang N**; **Holzhauser H L**; Nguyen A; Chung B; Quinn M; Rhee C; Siegler M; Uriel N. *Education and Decision-Making in Patients and Caregivers Considering Ventricular Assist Devices*. Poster Presentation. International Society of Heart and Lung Transplantation Meeting. Orlando, FL. April 2019.
- Wali, E, **Larsen PM**, **Venturini J**, Lee L, Hirai T, Rosenberg J, Paul J, Blair J, Tung R, Shah A, Nathan, S. Impact of Clinical Indication/Risk Strata on Outcomes in Patients Supported with Impella Microaxial Heart Pumps. Transcatheter Cardiovascular Therapeutics (TCT), San Diego, CA, 2018.
- Wali, E, **Larsen PM**, **Venturini J**, Lee L, Hirai T, Rosenberg J, Paul J, Blair J, Tung R, Shah A, Nathan, S. Impact of Clinical Indication/Risk Strata on Outcomes in Patients Supported with Impella Microaxial Heart Pumps. A-CURE, Chicago, IL, 2018.

Posters and Presentations continued...

- **McClelland I**, Mor-Avi V, Lang RM, Ward RP. Prevalence of Clinically Important Abnormalities Found on Transthoracic Echocardiograms Ordered for Indication of Heart Murmur Found on Physical Exam. *Oral rapid fire presentation ASE – 2019*
- **McClelland I, Kebed K**, Yamat M, Sun D, Mor-Avi V, Lang RM, Addetia K. Underestimation of Mitral Regurgitation on Transthoracic Echocardiography: The Scope of the Problem and When to be Suspicious. *Poster presentation at ASE – 2019*
- Functional Assessment of Decellularized Extracellular Matrix in Patients Undergoing LVAD Implantation **Dong Bo Yu**¹ Marcella Vaicik², Ann Nguyen¹, Daniel Rodgers¹, Stephanie Besser¹, Nikhil **Narang**¹, **Heddy Luise Holzhauser**¹, **Imo Ebong**¹, Anthony Kanelidis¹, Gabriel Sayer¹, Jayant Raikhelkar¹, Nitasha Sarswat¹, Bryan Smith¹, Sara Kalantari¹, Bow Young Chung¹, Eric Brey², John Georgiadis², Nir Uriel¹, Gene Kim¹ 39th Annual Meeting and Scientific Sessions (upcoming), April 3-6, 2019, Orlando,
- Functional Assessment of Decellularized Extracellular Matrix in Patients Undergoing LVAD Implantation **Dong Bo Yu**¹ Marcella Vaicik², Ann Nguyen¹, Daniel Rodgers¹, Stephanie Besser¹, Nikhil **Narang**¹, **Heddy Luise Holzhauser**¹, **Imo Ebong**¹, Anthony Kanelidis¹, Gabriel Sayer¹, Jayant Raikhelkar¹, Nitasha Sarswat¹, Bryan Smith¹, Sara Kalantari¹, Bow Young Chung¹, Eric Brey², John Georgiadis², Nir Uriel¹, Gene Kim¹ 2018 Janet Rowley University of Chicago Department of Medicine Research Day - March 6, 2018
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National Leadership Involvement...

Emeka Anyanwu

2019 Janet Rowley Trainee Clinical Abstract Award

Imo Ebong

2018 Medtronic HFSA Travel Scholarship

Luise Holzhauser

Heart Failure Society of America (HFSA) Travel Award "3rd Annual Future Leaders in Heart Failure Symposia" Washington, DC 05/2019

2019 Finalist "Northwestern Young Cardiovascular Investigator Forum" Peripheral Blood Derived Myeloid Subtypes are Associated with Cardiac Allograft Vasculopathy

Ilya Karagodin

2018 ASE Council on Vascular Ultrasound Abstract Award

2019 Top Investigator Travel Grant at ASE 2019

Kalie Kebed

Curriculum development

Alliance for Physician Certification and Advancement

Certification Board of Cardiovascular Magnetic Resonance (CBCMR) Regional question writing workshop, CMR Subject Matter Expert April 2018

American Society of Echocardiography Pocket Guides

Echocardiography Formula Review Guide: Native Valves and Intracardiac Pressures
Mitral Stenosis author April 2019

Nikhil Narang

2018 American Heart Association Laennec Young Clinician Award Finalist
Featured Oral Presentation at the 2018 American Heart Association Scientific Sessions

2018 Northwestern Cardiovascular Young Investigators Forum—Selected as Young Investigator, Oral Research Presentation, October 2018