

Cardiology Fellowship Newsletter



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Welcome Our New Fellows

As a new year begins, we are excited to welcome six new Cardiovascular Disease fellows and seven new fellows in our subspecialty programs for the 2020-2021 year. We are also delighted to have old friends in new roles in Cardiac Imaging and Interventional 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: 2019-2020 Fellowship Year

We have just completed a remarkable 2019-20 fellowship year. COVID-19 couldn't stop us! Our fellows made us proud with many accomplishments, honors, and more. They dedicated countless hours to our Section, providing incredible patient care, 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. Ian Hackett as the new Chief Fellow for the 2020 – 2021 fellowship class! Ian has hit the ground running and will do an outstanding job. Big thanks to Abdul Dia for his incredible work as Chief Fellow for the past year!!

In dealing with the COVID-19 Pandemic, Our fellows showed what incredibly dedicated professionals they are



*Due to COVID 19 we were unable to take our annual Section photo.

The New Faces of Cardiology Fellowship



Anthony Kanelidis

I grew up in Miami, FL and went to college at the University of Miami - Go Canes! I then attended medical school at the University of Miami Miller School of Medicine where I began dating my wife Jess. We were thrilled to couples match for residency in her hometown of Chicago where I am proud to say I have survived all three winters. I had an incredible experience during my Internal Medicine residency at the University of Chicago and could not be happier to continue my fellowship training here and join the Cardiology family. I love the outdoors and enjoy being active, playing sports like water polo and basketball, or going out on the lake to wakeboard or waterski.



Steven Mazzone

I was born and raised in the northern suburbs of Chicago and have lived in the city for the greater part of the last decade. After a brief stint up north attending the University of Wisconsin-Madison (Go Badgers), I returned to pursue a medical degree at Rush Medical College. I was fortunate to match at the University of Chicago for IM residency and am thrilled to be staying to complete my Cardiology Fellowship. A true Chicagoan at heart, I love watching the Bears, Blackhawks and Cubs, playing 16-inch softball and exploring the food scene with my wife. When I'm not at the hospital, I'm spending time with my family, traveling or on a golf course. I am looking forward to working with all of you!



Patrick Miller

I was born and raised in Kansas City (the Kansas side), where my family lives today. I attended college at Miami University (Ohio) where I majored in chemistry. My love for Chicago first began after spending a year here after college working in healthcare consulting. After that year, I returned to my hometown where I attended the University of Kansas School of Medicine. Interested in exploring more of the country, I went east and completed my residency at Georgetown University in Washington, D.C. I've always had a desire to return to Chicago and could not be more excited to do so while training at UCMC. Outside of work I enjoy spending time outdoors, trying new restaurants, and exploring the city. On Sundays you can find me watching my beloved Kansas City Chiefs defend their Super Bowl title. I look forward to getting to know all of you and cannot wait to get started!

Nicole Prabhu

I am originally from Edmond, Oklahoma, a suburb outside of Oklahoma City. I traveled to Atlanta for college, where I studied Economics at Emory. I then came back home where I earned my medical degree from the University of Oklahoma. I have been fortunate to spend the last 4 years in Chicago at Rush where I completed my residency and a chief year. In my spare time, I enjoy baking, yoga, and reading. I have also loved exploring all the unique Chicago neighborhoods, the amazing food scene and the outdoors festivals that Chicago offers. I am so happy to be staying in Chicago, and excited to start my training at University of Chicago and meet all of you!



Ryan Sanderson

I was born in New York and grew up Long Island, but my family is now split between NY and Columbus, Ohio. I went to undergrad at the University of Michigan, where I studied Political Science and Anthropology. I decided to pursue medicine shortly after graduating college, and so I went back to New York to complete a premed postbacc program at Columbia. I've been in the Midwest ever since - first at Ohio State for med school, then at the University of Michigan for residency (where my true allegiances lie). I met my partner, Sophia, during med school and together we have a spirited 90lb chocolate lab named Murphy. I spend most my free time playing golf, working on projects around the house, and finding ways to be outside with Sophia and Murphy (hiking, camping, parks, etc...). I'm so thrilled to be starting Cardiology at UofC and can't wait to get to know everyone.



Jeremy Treger

I was born and raised in Medford, OR where my parents still live. Despite my love of snow and skiing, I headed to southern California for undergrad at Pomona College, where I majored in Chemistry. Afterward, I realized that I missed having four seasons and so was fortunate enough to come to U of C for medical school where I met my wife Melissa. During this time, I also completed a PhD in ion channel biophysics. I enjoyed U of C so much that I decided to stay here to pursue the physician scientist training path to combine my loves for medicine and research, and I'm very excited to be joining the cardiology department for fellowship. Outside of work I enjoy cooking new recipes, running along the lakefront, high-power rocketry, and trying to keep up with my daughter Amina.



The Advanced Fellows of 2019-2020



Ryan Burris - Electrophysiology

I was born and raised in California; I grew up in Orange County and then studied Biochemistry and Cell Biology at UC San Diego for both my undergraduate and graduate degrees. I hopped counties to go back home and went to UC Irvine for medical school, staying on for my Internal Medicine residency and Cardiology fellowship. My curiosity for understanding mechanisms and fundamental scientific principles has driven my studies and I couldn't be happier to further dive into the field of Electrophysiology at the University of Chicago. Outside of work, I enjoy spending time with my nephews and niece, surfing the different beaches near home, and learning bits and pieces about botany and art.



Aalap Narichania – Electrophysiology

I was born and brought up in a suburb of Cleveland, OH. I attended Stanford University where I majored in European History. Along the way I decided to enter medicine and moved to Columbus, OH to attend OSU. I headed back out west to Mayo Clinic AZ for internal medicine residency and completed a chief year. In Arizona, I met my wonderful wife, Paula. We then moved to Wisconsin for cardiology fellowship at UW-Madison. There, I was afflicted with the EP bug. In Madison, we had our son, Ishaan, who revels in mischief. In my free time, I enjoy reading and spending time with my family, outdoors whenever possible. I wouldn't say that I enjoy working out but Paula says that I should. I am thrilled to now be at the University of Chicago for EP fellowship.



Nazia Alvi – Cardiac Imaging

I was born and raised in Karachi, Pakistan and moved to the west suburbs of Chicago with my parents and sister when I was a teenager. We enjoyed trips to the city to Navy Pier, Devon Street and Museums. I attended college at University of Illinois in Urbana-Champaign and went to medical school at Midwestern University - Chicago College of Osteopathic Medicine in Downers Grove. During medical school, I lived in the South Loop and enjoyed exploring Chicago! I ventured about an hour south of Chicago to Riverside Medical Center in Kankakee, for my residency and cardiology fellowship. I have enjoyed being close to the windy city, spending time with friends and family, trying out different restaurants and attending improv and musical shows. In my downtime, I enjoy binge watching TV, cooking, drawing and creating art. I am thrilled to continue my cardiology future with a focus on imaging. I am extremely excited and honored to join the University of Chicago family as an Advanced Imaging Fellow this year! I look forward to working with you!

Ryan Burkhart - Intervention

I was raised in the small town of Woodsfield, Ohio. Attended Muskingum College as an undergraduate where I was a Neuroscience major. I also played college baseball there. After undergrad, I joined the Army and attended Ohio University College of Osteopathic Medicine for Medical School. I did my Residency and a Chief Resident year at William Beaumont Army Medical Center in El Paso, and Cardiology Fellowship at Brooke Army Medical Center in San Antonio. In my free time I enjoy spending time with my family, being outdoors, and playing ball (any kind). I'm very much looking forward to joining the University of Chicago Cardiology Team.



Indra Bole – Heart Failure

I was born and raised in beautiful Maryland and stayed local for college at the University of Maryland, where I studied biology and philosophy. I got my first taste of the Midwest during medical school at Rosalind Franklin University. From there I ventured south to Saint Louis for my internal medicine residency at the Washington University in St. Louis. I stayed on to work a year as a medicine hospitalist before moving back east for general cardiology training at Georgetown University / MedStar Washington Hospital Center. I couldn't stay away from Chicago for long though and am excited to join U of C for my Advanced Heart Failure Fellowship. When not working, I love spending time with my wife Sushma, traveling, cooking, and watching almost any sporting event.



Haider Nazeer – Heart Failure

I was born in Karachi, Pakistan. At the age of 2, I packed up my limited belongings and moved to Houston Texas. Shortly after my father matched into residency in Albany NY and I spent the majority of my life in gorgeous upstate NY. I attended Rensselaer Polytechnic Institute in Troy NY for undergrad. For medical school I stayed in state at Upstate Medical College in Syracuse, New York. I matched into internal medicine at Northwell Health in Long Island, and then was fortunate enough to match cardiology in my hometown of Albany at Albany Medical center. I'm excited to leave my home state of New York for the first time as an adult and thrilled to join the UChicago family and explore the Windy City. In my spare time I enjoy hiking, cooking, live concerts, Netflix deep dives, terrible reality tv and watching the NBA.



Vishnu Priya Pulipati – Preventive

I was born and raised in India. My loving family encouraged me to follow my passion for medicine and I attended Jawaharlal Nehru Medical College. My first international academic opportunity to attend clerkships at Harvard Medical School gave me the chance to meet brilliant physicians from different interests which inspired my journey for further education in the USA. I attended IM Residency at the University of Connecticut, met my husband in the interim (coincidentally a Cardiologist), and moved to Chicago for my Endocrinology fellowship at Rush University Medical Center. I chose to extend my educational aspiration to Preventive Cardiology due to the fascinating cardiometabolic pathophysiology, the emphasis on preserving the quality of life, and the opportunity to extend this learning to patient families by cascade screening where early intervention can make big impacts in health care. Outside of work, I paint, perform yoga, and enjoy traveling



Let's Get Personal!!

Engaged!

- Elisha Wali and Nimit Desai were engaged on June 26th, 2020!!
- Nikhil Singh and Natalie Hartman were engaged in February 2019!!

Expecting!

- Mariam and Abdul Dia will welcome their first baby in November.
- Elisa and Rajeev Anchan will welcome their first baby in October.

Fellowship Class of 2048

- Mary Ellen and Michael Henry welcomed Leo into the world. Leo was born on 6/16/2020.



Congratulations to the 2020 Graduates!



DID YOU KNOW?

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

Dr. Rajeev Anchan will be an Advanced Fellow in Interventional Cardiology at the University of Chicago.

Dr. Emeka Anyanwu will be an Assistant Professor of Medicine/Cardiology, focused on imaging and informatics at the University of Pennsylvania.

Dr. Dong Bo Yu will be a Non-Invasive Cardiologist at ThedaCare Regional Medical center, in Wisconsin.

Dr. Ilya Karagodin will be an Advanced Fellow in Imaging Cardiology at the University of Chicago.

Dr. Isla McClelland will be a Fellow in Adult Congenital Heart Disease at Ohio State University.

Dr. Andrew Oehler will be a Preventative Cardiologist at the Allegheny Health Network, in Pittsburgh, Pennsylvania

Congratulations to our Graduating Advanced Fellows too!

Advanced Heart Failure and Transplant Cardiology

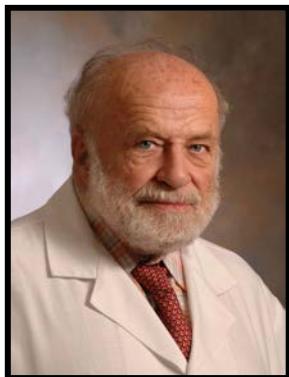
- Heddy Luise Holzhauser will be joining the Heart Failure team as Assistant Professor of Medicine/Cardiology at University of Pennsylvania.

Clinical Cardiac Electrophysiology

- Arun Kannan will be an Assistant Professor at the University of Houston.
- Zenith Jameria will be an Electrophysiologist at the Union Hospital in Terre Haute Indiana.

Interventional Cardiology

- Paul Larsen will be a Cardiologist at Metro Heart Group in St. Louis.
- Joseph Venturini will be a Cardiologist at Advocate Medical Group at Edward Hospital.



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.

2019-2020

Rory R. Childers Cardiology Teaching Award



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

**Congratulations,
Dr. Patel!**

Morton Arnsdorf Cardiovascular Research Day



The symposium highlights 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.

Unfortunately, 2020 Arnsdorf Research Day was a COVID-19 casualty, but it will come back even stronger in 2021!



Despite COVID-19, Our fellows have had a very impressive academic production this year.....

Publications and Abstracts

- Muhlestein JB, **Hackett IS**, May HT, et al. Safety and Efficacy of Periprocedural Heparin Plus a Short-Term Infusion of Tirofiban Versus Bivalirudin Monotherapy in Patients Who Underwent Percutaneous Coronary Intervention (from the Intermountain Heart Institute STAIR Observational Registry). *Am J Cardiol.* 2019;123(12):1927-1934. doi:10.1016/j.amjcard.2019.03.025
- Shah RU, Mukherjee R, Zhang Y, **Hackett IS**, et al. Impact of Different Electronic Cohort Definitions to Identify Patients With Atrial Fibrillation From the Electronic Medical Record. *J Am Heart Assoc.* 2020;9(5):e014527. doi:10.1161/JAHA.119.014527
- **Hackett IS**, Ward RP. Appropriate Use Criteria for Echocardiography in the Era of Value-Based Care: Mission Accomplished or Future Mandates? *Cardiology Current Reports.* In press.
- **Hackett IS**, Kruse E, Besser SA, Sun D, Addetia K, Grinstein J, Lang RM: Redefining Normal Outflow Cannula Velocities for each Left Ventricular Assist Device.
- Karagodin I, **Hackett IS**, Kim G, Lang RM, Grinstein J. Effects of Various LVAD Models on Echocardiographic Markers of Aortic Compliance.
- **Singh N.**, Ding L., Magee G., Shavelle D., Kashyap V., Garg, P. Discharge Prescription Patterns for Anti-Platelet Therapy Following Lower Extremity Peripheral Vascular Intervention. *Circulation: Cardiovascular Interventions.* Accepted for Publication June 6, 2020.
- **Singh N.**, Zeng C., Lewinger JP., Wolfson AM., Shavelle D., Weaver F., Garg PK. Pre-Operative Hemoglobin A1c Levels and Increased Risk of Adverse Limb Events in Diabetic Patients Undergoing Infra-Inguinal Lower Extremity Bypass Surgery: The Vascular Quality Initiative. *Journal of Vascular Surgery.* 2019; 70(4): 1225-1234
- **Singh N.**, Wu S., Chau E., Shavelle D. Prevalence and Treatment of Iron Deficiency in Heart Failure Patients at a Large Safety-Net Hospital. *Circulation.* 2019; 140:A11855.

publications and abstracts continue...

- **Singh N.**, Singh A., Besser S., Lang R., Mor-Avi V., Kosuri S., Bishop M., DeCara J. Echocardiographic Predictors of New-Onset Atrial Arrhythmias in Patients Undergoing Hematopoietic Stem Cell Transplantation. *Journal of the American Society of Echocardiography*. 2020; 33(6): B17.
- Lee C., Chao A., Balasubramanian S., Shi A., **Singh, N.**, Yau S., Konecna E., Baydur A., Doshi R., Borok Z., Konecny T. Preclinical Chronic Obstructive Pulmonary Disease and Arrhythmogenesis. *CHEST*. 2019; 156(4): Supplement A35.
- Dhillon A., **Singh N.**, Yu W., Caro J., Rowe V., Shavelle D., Clavijo L. Endovascular Revascularization with Bioabsorbable-Polymer Drug-Eluting Stents in Patients with Severe Critical Limb Ischemia. *JACC: Cardiovascular Interventions*. 2019; 12(4): S24
- Wali E, **Lee L**, Nathan S. Intravascular Imaging for Assessment of Cardiac Allograft Vasculopathy Following Heart Transplantation. *Curr Cardiovasc Imaging Rep* 13, 7 (2020).
- Ward RP, **Lee L**, Ward T, Lang RM. Utilization and Appropriateness of Transthoracic Echocardiography in Response to the COVID-19 Pandemic. *Journal of the American Society of Echocardiography* 2020;33(6):690-691.
- **Lee L**, Singh A, Lang RM, Addetia K. Cardiac Remodeling in Professional Female Basketball Players. Abstract accepted for poster presentation at the American Society of Echocardiography 2020 Annual Scientific Session.
- **Lee L**, Patel AR, Ward RP. The Association between High-Sensitivity Troponin and Post Emergency Department Discharge Stress SPECT Myocardial Perfusion Imaging in Patients with Low to Intermediate Risk Chest Pain. Abstract submitted to the American Society of Nuclear Cardiology 2020 Annual Scientific Session.
- **Lee L**, Mishra S, Sun D, Besser S, Mor-Avi V, Lang RM, Ward RP. Utilization of Inpatient Transthoracic Echocardiography in Response to the 2017 AHA/ACC/HRS Guidelines for Syncope. Submitted for peer review at JACC Imaging 2020.
- **Lee L**, DeCara J. Cardiac Point of Care Ultrasound. Submitted for peer review at Current Cardiology Reports 2020.
- **Belkin MN**, Venturini J, Nathan S, Grinstein J. "Belkin MN, Venturini J, Nathan S, Grinstein J. "LVAD Performance Under Pressure: Trouble-Shooting Outflow Graft Dysfunction." *Circulation: Heart Failure*. In press.
- **Belkin MN***, Dela Cruz M*, Nadeem U, Patel A, Kim G, Grinstein J. "Hardened Heart: A Case of Massive Myocardial Deposition." *JACC: Case Reports*. In press.
- **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, Ota T, Jeevanandam V, Kim G, Burkhoff D, Sayer G, Uriel N. "Transcatheter Aortic Valve Implantation in Left Ventricular Assist Device Patients with Aortic Insufficiency." *Structural Heart: The Journal of the Heart Team*. 4(2): 107-112. March 2020.
- **Belkin MN**, Kalantari S, Tehrani D, Besser S, Nguyen A, Chung BB, Smith B, Sarswat N, Uriel N, Kim G, Grinstein J. "The Novel Hemodynamic Variable Aortic Pulsatility Index Predicts Freedom from Advanced Heart Failure Therapies and Death." *International Society of Heart and Lung Transplantation*. Montreal, Canada. April 22, 2020

publications and abstracts continue...

- **Belkin MN**, Alenghat F. "A Composite Metric to Identify HFpEF Patients Likely to Benefit from Spironolactone." American College of Cardiology Scientific Sessions. March 29, 2020.
- **Belkin MN**, Dela Cruz MJ, Nadeem U, Patel A, Kim G, Grinstein J. "Hardened Heart: A Case of Cardiac Calcification." American College of Cardiology Scientific Sessions. March 28, 2020.
- **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
- Belkin M and **Dela Cruz M** (co-first authors), Nadeem U, Patel A, Kim G, Grinstein J. Hardened Heart: A Case of Massive Myocardial Calcium Deposition. JACC: Case Reports. Accepted for publication 2020
- Belkin M, **Dela Cruz M**, Nadeem U, Patel A, Kim G, Grinstein J. Hardened Heart: A Case of Massive Myocardial Calcium Deposition. American College of Cardiology Scientific Session (Chicago 2020)
- **Dela Cruz M**, Ngo L, Chung D, Kalantari S, Nguyen A. It's the Thyroid!: Cardiogenic Shock In A Young Female Patient With Myxedema Coma. American College of Cardiology Scientific Session (Chicago 2020)
- **Dela Cruz M**, Besser S, Sarswat N, Smith B, Grinstein J, Nguyen A, Chung B, Kalantari S, Kim G. Immune Function Testing and Donor Specific Antibody Production Among Heart Transplant Patients. International Society of Heart and Lung Transplantation Annual Meeting (Montreal 2020)
- **Dela Cruz M**, Kim G. Percutaneous Stellate Ganglion Block for Refractory Ventricular Tachycardia Pre-Heart Transplantation. International Society of Heart and Lung Transplantation Annual Meeting (Montreal 2020)
- **Dia, A.** Venturini J, Kalathiya R, Besser S, Estrada R, Friant J, Paul J, Blair J, Nathan S, Shah A. Two Year Follow-up of Bioresorbable Vascular Scaffolds in Severe Infrapopliteal Arterial Disease Vascular 2020; accepted.
- **Dia, A.** Venturini J, Kalathiya R, Besser S, Estrada R, Friant J, Paul J, Blair J, Nathan S, Shah A. Single Arm Retrospective Study of Bioresorbable Vascular Scaffolds to Treat Patients with Severe Infrapopliteal Arterial Disease. Catheterization and Cardiovascular Interventions. 2019; 64(5) 65-73.
- **Dia A**, Cifu A, Shah A. Management of Patients with Severe Aortic Stenosis with Transcatheter Valve Replacement. JAMA. April 2019; 321(15): 1527-1528.
- Ward TJ, Sun D, Oliveria L, Lang RM. **Dia A**, Markuzon N, Ward RP. Utilization of Complete vs. Limited Transthoracic Echocardiography: An Opportunity for Cost Savings in the Era of Value Based Care. American College of Cardiology, 2020 Scientific Sessions. J Am Coll Cardiol. 2020; 75(11):1781.
- Weibeler, D. Anchan, R. **Dia, A.** Shah, A. Conscious Sedation is Associated with Similar Clinical Outcomes and Reduced Procedure Times Compared to General Anesthesia in Patients Undergoing Transcatheter Pulmonic Valve Implantation. SCAI April 2020.
- Deyu Sun, Timothy Ward, Lucas Oliveria, **Abdulrahman Dia**, Natasha Markuzon, Roberto Lang, R. Parker Ward. Automated Tool to Track and Optimize Inpatient Transthoracic Echocardiography Utilization in the Era of Value Based Healthcare. ASE June 2020.

publications and abstracts continue...

- **Henry M**, Upadhyay G, Lang RL, “Improvement In Mechanical Synchrony In Patients Receiving Corrective His Bundle Pacing: A Sub-analysis Of The His-sync Pilot”. Poster Presentation. HRS Meetings. May 6-9, 2020
- **Henry M**, Upadhyay G, Lang RL, “Improved Left Ventricular Synchrony Demonstrated by Mechanical Dispersion after His Bundle Pacing Compared to Traditional Coronary Sinus Pacing”. Moderate Poster Presentation. ASE Meeting. June 19-22, 2020.
- M, Salman T, **Henry M**, Lopez JJ. Impact of Emergency Medical Services Activation of the Cardiac Catheterization Laboratory and a 24-Hour/Day In-Hospital Interventional Cardiology Team on Treatment Times (Door to Balloon and Medical Contact to Balloon) for ST-Elevation Myocardial Infarction. American Journal Cardiology. PMID 31056110.
- Kebed K, Addetia K, **Henry M**, Yamat M, Weinert L, Besser SA, Mor-Avi V, Lang RM: Refining severe tricuspid regurgitation definition by echocardiography with a new outcomes based “massive” grade. J Am Soc Echocardiogr (in press)
- Nisivaco S, **Henry M**, Ward RP, Balkhy HH. Totally Endoscopic Robotic-Assisted Excision of Right Ventricular Papillary Fibroelastoma. J Robot Surg. 2019 Dec;13(6):779-782.
- Tung, R. Chua, S. Besser, S. Lindau, M. Kolak, **E. Anyanwu**, J. Liao, C. Tabit Association of Rising Violent Crime With Blood Pressure and Cardiovascular Risk: Longitudinal Evidence From Chicago, 2014–2016. Manuscript – American Journal of Hypertension, published August 2019.
- **E. Anyanwu**, V. Kagan, A. Bhatia, D. Tehrani, S. Adatya, G. Kim, N. Sarswat, V. Jeevanandam, G. Sayer, N. Uriel Home Inotropes in Patients with Left Ventricular Devices. Manuscript – American Society for Artificial Internal Organs Journal, published January 2019
- **Karagodin I**, Singh A, Lang RM (2020). Pathoanatomy of Mitral Regurgitation. Accepted for publication in Structural Heart: The Journal of the Heart Team (April 2020). Currently In Press.
- **Karagodin, I**, Kebed K, Singh A, Addetia K, Shah AP, Lang RM (2020). Stabbed Through the Heart: An Unusual VSD Presentation. JACC: Case Reports. 2020 April; 2(4): 559-664.
- **Karagodin I**, Shah A, Lang RM (2020). Guided by the Light: Transillumination of Paravalvular Leak. Accepted for publication in JAMA Cardiology (Feb 2020).
- **Karagodin I**, Genovese D, Kruse E, Patel AR, Rashedi N, Lang RM, and Mor-Avi V (2020). Contrast-Enhanced Echocardiographic Measurement of Longitudinal Strain: Accuracy and its Relationship with Image Quality. Int J Cardiovasc Imaging. 2020 March; 36(3):431-439.
- **Karagodin I**, Kalantari S, Yu DB, Kim G, Sayer G, Addetia K, Tayazime S, Weinert L, Yamat M, Uriel N, Lang RM, Mor-Avi V (2019). Echocardiographic evaluation of the effects of sacubitril-valsartan on vascular properties in heart failure patients. Int J Cardiovasc Imaging. 2020 Feb; 36(2):271-278. PMID: 31583499
- **Karagodin I**, Kruse E, Blair JEA, Shah AP, Lang RM (2019). Asymmetric Calcification in Rheumatic Mitral Stenosis and Implications for Balloon Valvuloplasty. JACC: Case Reports. 2019 Dec; 1(4), 493-494.
- **Karagodin I**, Hipke K, Guile B, Dejanovic T, Kezurer I, Binenbaum M, Gonen R, Ludomirsky A, Lipman Y, Mor-Avi V, Lang, RM (2020). Automated 2D Echocardiographic Assessment of Left Ventricular Function using Machine Learning Software Incorporated into a Handheld Imaging Device. To be presented at Virtual 31st Annual American Society of Echocardiography Scientific Sessions (August 2020). Abstract published in Journal of the American Society of Echocardiography. 2020 Jun; 33 (6): B46-47.

publications and abstracts continue...

- Yamat M, **Karagodin I**, Addetia K, Soulat-Dufour L, Singh A, DeCara JM, Mor-Avi V, Lang RM (2020). Improved Visualization of Cardiac Orifices Using Transillumination with 3D Transesophageal Echocardiography. To be presented at Virtual 31st Annual American Society of Echocardiography Scientific Sessions (August 2020). Abstract published in Journal of the American Society of Echocardiography. 2020 Jun; 33(6): B100
- Singh A, Su J, Kebed K, Addetia K, **Karagodin I**, Mor-Avi V, Lang RM, Bonnefous O (2020). Semi-Automated Quantification of Mitral Regurgitation with 3D Color Data: A More Physiologic Approach to Mitral Regurgitation Severity? To be presented at Virtual 31st Annual American Society of Echocardiography Scientific Sessions (August 2020). Abstract published in Journal of the American Society of Echocardiography. 2020 Jun; 33(6): B94.
- **Karagodin I**, Hackett I, Kim G, Lang RM, Grinstein J (2020). Effects of Various LVAD models on Echocardiographic Markers of Aortic Compliance. Accepted for presentation at the 40th Annual International Society of Heart and Lung Transplantation (ISHLT) Scientific Sessions (canceled due to COVID-19). Abstract published in Journal of Heart and Lung Transplantation. 2020 April; 39(4): S349.
- Henry M, **Karagodin I**, Patel S, Lang RM, Nathan S. Mechanical Mitral Valve Thrombosis Successfully Treated with Catheter-Directed tPA (2020). Accepted for presentation at the 69th Annual American College of Cardiology Scientific Sessions, Chicago, IL (canceled due to COVID-19). Abstract published in JACC. 2020 March; 75(11): 3329.
- Erley J, Tanacli R, Genovese D, Tapaskar N, Rashedi N, Bucius P, Kawaji K, Lang, RM, Kelle S, **Karagodin I**, Mor-Avi V, Patel AR (2020). Agreement Between Cardiac Magnetic Resonance and Echocardiography Techniques for Assessment of Right-Ventricular Myocardial Strain. Poster presented at the Society for Cardiovascular Magnetic Resonance (SCMR) 23rd Annual Scientific Sessions, Orlando, FL, Feb 14th, 2020. Published online by SCMR (Feb 2020).
- Carter S, Jameria Z, **Karagodin I**, Tung R, Upadhyay G (2019). Assessing Real-World Safety and Performance of the Medtronic 3830 Pacing Lead After MRI. Presented at 3rd Annual Physiology of Pacing Symposium, Chicago, IL, November 1, 2019, Poster Presentation.
- **Karagodin I**, Genovese D, Kruse E, Patel AR, Rashedi N, Lang RM, and Mor-Avi V (2019). Contrast-Enhanced Echocardiographic Measurement of Longitudinal Strain: Accuracy and its Relationship with Image Quality. Presented at 30th Annual American Society of Echocardiography Scientific Sessions (June 2019; Portland, OR). Abstract published in Journal of the American Society of Echocardiography. 2019 Jun; 32(6): B124.
- **Karagodin I**, Nagle K, Scheidemantle B, Chung J, Paul J, Larsen P, Kalathiya R, Song T, DeCara JM, Addetia K, Tabit C, Sorrentino M, Ward RP (2019). Metastatic Pericardial Mesothelioma: A Rare Case of Constrictive Pericarditis. Presented at American College of Cardiology Scientific Sessions (March 2019; New Orleans, LA). Abstract published in JACC. 2019 March; 73(9): 2640.
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publications and abstracts continue...

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- **Luise Holzhauser**, MD; Laura Lourenco, PharmD, BCPS; Nitasha Sarswat, MD, Gene Kim, MD; Bow Chung, MD; Ann B. Nguyen, MD. Early Experience of COVID-19 in Two Heart Transplant Recipients: Case Reports and Review of Treatment Options Am J Transplant. 2020 May 7;10.1111/ajt.15982. doi: 10.1111/ajt.15982..
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publications and abstracts continue...

- Imamura T, Nitta D, Fujino T, Smith B, Kalantari S, Nguyen A, Narang N, **Holzhauser L**, Rodgers D, Song T, Ota T, Jeevanandam V, Kim G, Sayer G, Uriel N. Deep Y-Descent in Right Atrial Waveforms Following Left Ventricular Assist Device Implantation. *J Card Fail.* 2020 Jan 11. pii: S1071-9164(19)30669-4.
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- **Luise Holzhauser MD**, Teruhiko Imamura MD PhD, Nikhil Bassi MD, Takeo Fujino MD PhD, Daisuke Nitta MD PhD, Anthony J. Kanelidis MD, Nikhil Narang MD, Gene Kim MD, Jayant Raikhelkar MD, Catherine Murks, PhD, APN, David Onsager MD, Tae Song MD, Takeyoshi Ota MD PhD, Valluvan Jeevanandam MD, Gabriel Sayer MD, Nir Uriel MD Increasing Heart Transplant Donor Pool by Liberalization of Size Matching *J Heart Lung Transplant.* 2019 Nov;38(11):1197-1205. doi: 10.1016/j.healun.2019.08.020.
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- **Zenith A Jameria, MD**, Nathaniel Shatz, BA, CEPS, Arun Kannan, MD et al. Influence of Pacemapping Rate on QRS Morphology Matching: Proof and Recognition of the “TR Fusion” Phenomenon. (In process)
- **Zenith A Jameria MD**, Daniel Ahn MS, Takuro Nishimura MD PhD et al. Vasopressor-Supported Mapping of Hemodynamically Unstable Scar-Related Ventricular Tachycardia: Efficacy and Safety of Dopamine Pre-loading. (In process)
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- **Rao, S**, Kwasnik A, Tung R. Direct Epicardial Recordings in the Region of the Septopulmonary Bundle: Anatomy “Behind” Posterior Wall Activation. *JACC EP* Accepted 4/2020
- **Rao SN**, Beaser A, Aziz Z, Upadhyay G, Nayak H, Bag R, Tung R. Radiofrequency Catheter-Based Pulmonary Denervation for Severe Pulmonary Hypertension: Initial United States Feasibility. Annual F. Arnsdorf Cardiovascular Research Day 2019, University of Chicago, Chicago, IL
- **Rao S**, Nayak H, Upadhyay G, Beaser A, Aziz Z, Tung R. Direct Epicardial Recordings of the Septopulmonary Bundle Activation of the Posterior of Left Atrium: Mechanisms of Endocardial Ablation Failure Heart Rhythm Society Scientific Sessions 2020, Virtual Conference
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- Patel AR and **Patel H**. Cardiac Sarcoidosis: Remembering the Forgotten Right Ventricle. *JACC: Cardiovascular Imaging* 2020 (PMID: 32307252). In Press

Posters and Presentations

- **Belkin MN**, Chung D, Ngo LM, Nguyen AB. “Persistent Hemodynamic Instability in a Postpartum Septic Patient.” American College of Cardiology Scientific Sessions. March 28, 2020.
- **Dia A**, McClelland I, Petropolus P, Shah A. Treatment of Severe Pulmonary Insufficiency in a Patient with Tetralogy of Fallot and Left Pulmonary Artery Stenosis with an Edwards Sapien3 Valve. Transcatheter Valvular Therapeutics Structural Heart Summit. June 2019; Chicago, IL
- Petropolus P, **Dia A**, McClelland I, Shah A. Transapical Closure of a Bioprosthetic Mitral Perivalvular Leak in a Patient with a History of Rheumatic Heart Disease and Severe Right Sided Heart Failure. Transcatheter Valvular Therapeutics Structural Heart Summit. June 2019; Chicago, IL
- **Dia A**, Venturini J, McClelland I, Shah. Minimalist Transcatheter Pulmonary Valve Replacement: Initial Experience. Pediatric and Adult Interventional Cardiac Symposium. September 2019: San Diego, CA.
- **Emeka C. Anyanwu** EHR-Integrated Core Competency Reporting: A Story from the Cardiac Cath Lab @ AMIA Clinical Informatics Conference 2020
- EHR-Integrated Core Competency Reporting for Cardiology Fellows in the Cath Lab – SmartData Reduces Documentation Burden; **Emeka C. Anyanwu**¹; Benjamin Petro²; Julie A. Johnson³; Stacie Landron³; John S. Moses⁴; Vineet Arora⁵; Cheng-Kai Kao⁵; Parker Ward @ UChicago Medicine Medical Education Day 2019
- SALAD-BAAR: A Numerical Risk Score For Admission or ER Presentation in Ambulatory Cardiology Patients. **E Anyanwu**, RFM Chua, SA Besser, M Kolak, EL Tung, J Liao, C Tabit @ ACC 2020
- Differential Characteristics Associated With Hospital Admission in Cardiac Patients **EC Anyanwu**, R Chua, S Besser, MA Kolak, E Tung, JK Liao, CE Tabit @ AHA 2019
- **McClelland I** and Addetia K. Iron Supplementation as a Cause of Artifact on Cardiovascular Magnetic Resonance Imaging. Poster presentation at SCMR – 2020
- Rashedi N, Landeras L, Mor-Avi V, Genovese D, Lai P, Wang H, Kebed K, **McClelland I**, Brau A, Janich M, Lang R and Patel A. Validation of Non-Contrast Multiple Overlapping Thin Slab 4D-Flow Cardiac Magnetic Resonance Imaging. Poster presentation at SCMR – 2020
- **McClelland I** and Singh A. Challenging Case Presentation: Primary Pericardial Mesothelioma. Challenging case oral presentation at Innovations in Cardiovascular Therapeutics – 2019
- **McClelland I**, Dia A, Kalathiya R, Gruenstein D, Shah AP. Treatment of Severe Pulmonary Insufficiency in a Patient with Tetralogy of Fallot and Left Pulmonary Artery Stenosis with an Edwards Sapien3 Valve. Challenging case oral presentation at TVT – 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. J Am Soc Echocardiogr. (2020 Apr 15);S0894-7317(20)30098-5. doi: 10.1016/j.echo.2020.02.010. Oral rapid fire presentation and poster presentation at ASE - 2019

Posters and Presentations continued....

- **McClelland I**, Dia A, Kalathiya R, Gruenstein D, Shah AP. Treatment of Severe Pulmonary Insufficiency in a Patient with Tetralogy of Fallot and Left Pulmonary Artery Stenosis with an Edwards Sapien3 Valve. Challenging case oral presentation at TVT – 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. *J Am Soc Echocardiogr.* (2020 Apr 15);S0894-7317(20)30098-5. doi: 10.1016/j.echo.2020.02.010. Oral rapid fire presentation and 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 Narang¹, Heddy Luise Holzhauser¹, Imo Ebong¹, 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 Narang¹, Heddy Luise Holzhauser¹, Imo Ebong¹, 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
- 2020 Janet Rowley University of Chicago Department of Medicine Research Day - March 10, 2020. Functional assessment of decellularized extracellular matrix in patients undergoing LVAD implantation. **Yu D**, Vaicik M, Rodgers D, Nguyen A, Holzhauser HL, Sayer G, Raikhelkar J, Sarswat N, Smith B, Kalantari S, Chung BY, Brey E, Georgiadis J, Uriel N, Kim GH,
- The International Society for Heart and Lung Transplantation (ISHLT) 40th Annual Meeting and Scientific Sessions. Outflow Cannular Systolic Slope as a Predictor of Myocardial Recovery Leading to Successful LVAD Decommission: A Case Series. **Yu D**, Kruse E, Rodgers D, Holzhauser HL, Sarswat N, Smith B, Kalantari S, Chung BY, Nguyen Ann, Mehta N, Raikhelkar J, Sayer G, Uriel N, Song T, Ota T, Jeevanandam V, Kim GH, Grinstein J. April 22-25, 2020 (ePoster), Montreal, QC, Canada
- 69th Annual Scientific Session of the American College of Cardiology & World Congress of Cardiology (ACC.20/WCC), An Unexpected Cause for Alarm. **Yu D**, Smith B, Kim G. March 28-30, 2020 (ePoster), Chicago, IL
- The International Society for Heart and Lung Transplantation (ISHLT) 39th Annual Meeting and Scientific Sessions, April 3-6, 2019, Orlando, FL. Functional Assessment of Decellularized Extracellular Matrix in Patients Undergoing LVAD Implantation. **Yu D**, Vaicik M, Nguyen A, Rodgers D, Besser S, Narang N, Holzhauser HL, Ebong I, Kanelidis A, Sayer G, Raikhelkar J, Sarswat N, Smith B, Kalantari S, Chung BY, Brey E, Georgiadis J, Uriel N, Kim GH
- 10th Annual Arnsdorf Cardiovascular Research Day, April 19, 2019. Chicago, IL. Functional assessment of decellularized extracellular matrix in patients undergoing LVAD implantation. **Yu D**, Kim GH, Vaicik M, Sayer G, Raikhelkar J, Sarswat N, Brey E, Georgiadis J, Uriel N.

Posters and Presentations continued....

- **Zenith A Jameria**, MD, Nathaniel Shatz, BA, CEPS, Arun Kannan, MD et al. Influence of Pacemapping Rate on QRS Morphology Matching: Proof and Recognition of the “TR Fusion” Phenomenon. Heart Rhythm May 5, 2020
- **Zenith Jameria MD**, Arun Kannan MD, Andrew Chen MD, et al. Pressure-Volume Loop Analysis During Conduction System Pacing for Cardiac Resynchronization Therapy. Physiology of Pacing Symposium November 01, 2019
- **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. Provider Perspectives on Advance Directives in Patients with Left Ventricular Assist Devices. Poster Presentation. Heart Failure Society of American National Meeting. Philadelphia, PA. September 2019.
- **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.
- **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.
- **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. Provider Perspectives on Advance Directives in Patients with Left Ventricular Assist Devices. Poster Presentation. Dr. Morton F. Arnsdorf Cardiovascular Research Day. Chicago, IL. April 2019.
- **Oehler A**. The Christian Ethics of Dying in the Modern Medical Age. University of Chicago Undergraduate Guest Lectureship. Undergraduates, University of Chicago, May 2019.
- **Chen A**, Wey HE, Desai PV, Lattell J, Genovese D, Jameria Z, Kannan A, Aziz Z, Beaser A, Broman M, Nayak HM, Ozcan C, Tung R, and GA Upadhyay– Impact of subvalvular lead tip position on QRS and echocardiographic indices among patients undergoing His bundle pacing - HRS 2020
- Hannah E. Wey MD, Parth V. Desai MD, **Andrew Chen MD**, Jonathan Lattell MD, Davide Genovese MD, Zaid Aziz MD Andrew Beaser MD, Hemal M. Nayak MD FHRS, Roderick Tung MD FHRS, and Gaurav A. Upadhyay - Subvalvular His-Bundle Pacing Lead Position and Impact on Tricuspid Regurgitation MD FHRS AHA 2019

Awards, Leadership, Involvement...

Emeka Anyanwu

2019 Janet Rowley Trainee Clinical Abstract Award

Abdul Dia

Selected one of 3 Illinois Cardiology Fellows for the ACC-IL Jeopardy team, which would have dominated at ACC 2020 if not for COVID-19!

Ilya Karagodin

Top Investigator Travel Grant at 2019 ASE Scientific Sessions

Luise Holzhauser

Finalist "Northwestern Young Cardiovascular Investigator Forum" 2019
Increasing Heart Transplant Donor Pool by Liberalization of Size Matching

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

Isla McClelland

Recipient of ASE Top Investigator Travel Award 2019

IL-ACC Fellow in Training Representative

Dong Bo Yu

Abstract Winner in the Translational Research Category, Janet Rowley
Department of Medicine Research Day