Welcome Our New Fellows

As a new year begins, we are excited to welcome six new Cardiovascular Disease fellows and three new fellows in our subspecialty programs for the 2017-2018 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: 2016 to 2017 Fellowship Year

We have just completed a remarkable 2016-17 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 Joe Venturini as the new Chief Fellow for the 2017 – 2018 fellowship class! Joe has hit the ground running and will do an outstanding job. Big thanks to Rohan Kalathiya for his incredible work as Chief Fellow for the past year!!
The New Faces of Cardiology Fellowship

Rajeev Anchan

It might take some people nearly a lifetime before they travel through Omaha, NE or discover its location on a map, but this was my home for the past 29 years. I initially had dreams of playing in the NBA, but instead followed my interests in math and science. I attended Creighton University where I majored in biochemistry and mathematics and worked as a part-time EKG tech. This past year has been memorable: I married my wife in March, my wife completed law school, I completed residency at the University of Nebraska, and sadly we sold our red Vespa. You will probably find us searching for a new coffee shop, learning to ride the L, or going for a jog by the lake. We are excited to embark on this new adventure. I look forward to starting my cardiology fellowship at the University of Chicago and, alas, will consign my NBA career to the seats at the United Center!

Emeka Anyanwu

I’m a first generation Nigerian-Canadian and was born and raised in beautiful and sometimes cold Halifax, Nova Scotia. In search of sunnier days I moved to Bowling Green, Ohio where I have some extended family to study biology and computer science at BGSU. From there I made an easy move across state to study medicine at Case Western Reserve. Finally in my perpetual push for bigger city living I moved to Chicago and began my IM residency here at home base, University of Chicago. I’ve loved living here for the last 3 years and am excited to stick around for 3 more. Outside of the hospital I spend my time cycling, listening to live music, and dabbling in software development. Looking forward to meeting my co-fellows and getting to know the department’s faculty better!

Ilya Karagodin

I was born in Moscow, Russia and immigrated to the United States when I was three years old. My family lived in Idaho and Ohio before finally settling down in the suburbs of Chicago. I then made the distant 10-mile trek to Evanston where I attended college at Northwestern University. Prior to starting medical school, I took a gap year to teach English in Seville, Spain, where I had the opportunity to experience Andalusian life and culture, and where I started dating my wife Michelle, who was studying abroad at the time. Upon my return to the US, I attended medical school at Northwestern University, and went on to complete residency and chief residency at the Medical College of Wisconsin in Milwaukee. Outside of medicine I enjoy traveling to new places, playing soccer, basketball, and chess, and learning how to play the guitar. I couldn’t be more excited to return home to Chicago and start my Cardiology fellowship at the University of Chicago! Most importantly, I cannot wait to meet all my future colleagues at the University of Chicago! -See you all soon!
Isla McClelland

I was born in New York City but moved with my family to the DC area where I was raised. I attended Georgetown University for undergrad and majored in Biology with an Art History minor. While in college I was a member of the Georgetown Women's Crew Team and had the opportunity to study abroad in Turkey, both of which were wonderful experiences. I truly bled Hoya Blue and stayed at Georgetown for both my medical school and residency training. After exploring DC for so many years I am ready for a change and look forward to exploring Chicago! I am a big foodie so am looking forward to trying out the Chicago food scene and will happily take recommendations! When not at work, I love traveling and exploring the world. I also like to be active and have learned that I enjoy many things including volunteering with dog rescues, Olympic lifting, bourbon tastings and relaxing with friends on a beautiful day. I am so excited to starting fellowship at University of Chicago and meeting my co-fellows!

Andrew Oehler

Up until residency I was a Hoosier, born and bred. I grew up in what touts itself as The Crossroads of America: Terre Haute, Indiana. While cardiology was always my plan, I first placed my hopes in placekicking at the University of Toledo in Ohio for the Rockets, ultimately transitioning to Wabash College in Crawfordsville, graduating with a degree in chemistry. I went on to Indiana University for medical school, where I decided to blaze a trail West to Portland, Oregon at the Oregon Health & Science University for residency. There, I further cultivated my interest in cardiac physiology, the physical exam, and medical education. I stayed on for a chief year, during which time I married my wife who happens to be starting her fellowship in Infectious Disease, luckily enough also in Hyde Park. We are excited to get acquainted with the South Side, our new co-fellows, and the breadth of culture this Midwestern metropolis has to offer.

Dong Bo Yu

As a Chinese boy pursuing a Big American Dream, I took a unique journey to get here. At the age of 15, I immigrated from my childhood home of Shenyang, China to Toronto with my wonderful parents. True to my Asian roots, I was a math geek in high school before enrolling at Harvard as an undergrad where I was biochemistry major. I then pursued my MD/PhD degree at UT Southwestern in Dallas, working on the development of novel RNA-based therapeutics for Huntington’s disease. This seven-year cowboy stint concluded with me coming to University of Chicago for residency, where I met some of the most inspiring faculty mentors thus far.

Outside of school, I was big into basketball, traveling, trivia, and foreign languages before discovering my biggest passion in life, my fiancée Jennifer. Estoy esperando vivement tous mes collègues nouveaux!
The Advanced Fellows of 2017 - 2018

Taishi Hirai – Interventional Cardiology
I grew up in a small city in Japan. My hometown Fukui is located 90 miles north of Kyoto against the Sea of Japan and is known for very good seafood and rice. After graduating from high school, I moved to Nagoya for medical school. After medical school and two years of post-graduate training in Japan, I came to Chicago in 2011. I have completed my medicine residency and general cardiology fellowship at Loyola. I am very excited to join the cardiology division of U of C for my interventional year. Outside the hospital, I enjoy playing and watching soccer. I grew up playing soccer and I have been a member of SHOGUN soccer team in the suburbs since I came to Chicago. If you are interested in playing soccer with us, please let me know!

Christopher Jones – Electrophysiology
I grew up in North Carolina where I enjoyed hiking and the great sunny beaches. I studied biochemistry at North Carolina State University before moving on to East Carolina University for medical school and residency. I then attended Marshall University for my Cardiology fellowship. Outside of the hospital I enjoy tennis, golf, and running. I am also an avid photographer; always looking for great moments to capture. I am very excited to begin the next step of my training at the University of Chicago and look forward to working with everyone.

Neha Goyal – Cardiac Imaging
I was born and raised in New Delhi, India. After completing MBBS from Maulana Azad Medical College, I came to the US where I initially worked in the Diabetes and Cardiovascular disease lab at the University of Missouri, Columbia. After that I completed Internal Medicine residency from Marshall University School of Medicine in Huntington, WV. I moved back to Missouri for Cardiovascular disease fellowship as a Research fellow. Early on during fellowship, I was drawn to multimodality Cardiovascular imaging. I am very excited to start imaging fellowship at the University of Chicago.
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 2016-2017:

**Married!**
- Ben Chung married Elisabeth Donahey on May 26, 2017 in Chicago.

**Engaged!**
- Jonathan Rosenberg got engaged to Marissa Schiff on 03/25/2017.

**Fellowship Class of 2043**
- Akhil and Disha Narang brought Shailen Narang into the world. Shailen was born 02/03/2017.
Congratulations to the 2017 Graduates!

Isida Byku will be an Interventional Fellow at Emory University Hospital
Ben Chung will be an Advanced Heart Failure and Transplant fellow here at the University of Chicago
Akhil Narang will be the Advanced Cardiac Imaging fellow here at the University of Chicago
Annie Nguyen will be an Advanced Heart Failure and Transplant fellow here at the University of Chicago
Jonathan Rosenberg will be an Interventional Fellow at University of Chicago
Adam Oesterle will be an Advanced Electrophysiology Fellow at UCSF

Congratulations to our Graduating Advanced Fellows too!

Advanced Cardiac Imaging
Amita Singh will be moving to Madison where she will be an Assistant Professor of Medicine at University of Wisconsin.
Noreen Nazir will be moving to the University of Illinois at Chicago

Non-Invasive Cardiology
Diego Medvedofsky will be a clinical trial imaging specialist at MedStar Hospital in Washington, DC.

Interventional Cardiology
Ajay Patel will be joining a private practice at Bakersfield Heart Hospital.

Advanced Heart Failure and Transplant Cardiology
Jonathan Grinstein will be moving to Maryland where he will be an Advanced Heart Failure Physician at Medstar Heart and Vascular Institute.
Sara Kalantari will be an Assistant Professor at the University of Chicago.

Clinical Cardiac Electrophysiology
Andrew Beaser will be staying at the University Chicago as an Assistant Professor of Medicine in EP.
Kelvin Chua will be returning to Singapore where he will be a clinical electrophysiologist.
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 outstanding mentorship and teaching.

This year, The Rory R. Childers Cardiology Teaching Award was presented to Michael Broman.

Congratulations, Dr. Broman!
Morton Arnsdorf
Cardiovascular Research Day
April 20-21, 2017

The Ninth Annual Cardiovascular Research Day (CRD) Symposium was held April 20-21, 2017. 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 106 abstracts, 27 were basic/translational studies and 79 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, “Deconstructing cell therapy for heart disease” was given by our guest of honor Eduardo Marbán, MD, PhD from Cedars-Sinai Medical Center on April 21st.

Research Day: Featured Abstracts and Presentations

Mark N. Belkin
Incidence and Clinical Significance of New Onset Device-Detected Atrial Tachyarrhythmia: A Meta-Analysis

Amrish Deshmukh
Left Atrial Appendage Occlusion is associated with decreased Thromboembolic Events in LVAD patients

Teruhiko Imamura
Decoupling between Diastolic Pulmonary Artery Pressure and Pulmonary Capillary Wedge Pressure as a Novel Prognostic Factor Following Continuous Flow Ventricular Assist Device Implantation

Diego Medvedofsky
2D and 3D Echocardiography Derived Left Ventricular Function and Shape Indices: Relationship with Mortality

Le Shen
Cardiomyocyte ZO-1 regulates intercalated disc organization and whole heart physiology

Nikola Sladojevic
ROCK2 in T cell differentiation and long-term stroke recovery

Victoria Thomas
Temporal variation in ADP P2Y12 response to clopidogrel and contributors to antiplatelet resistance in a high risk, urban population undergoing PCI

Cardiovascular Research Day wouldn’t have been possible without the participation of our faculty!

Francis Alenghat, MD, PhD
Dottie Hanck, PhD
Marion Hofmann Bowman, MD, PhD, FAHA
James K. Liao, MD
Victor Mor-Avi, PhD
Matthew Sorrentino, MD
Gaurav Upadhyay, MD

The six featured abstract winners on Cardiovascular Research Day. From left to right: Nikola Sladojevic, Le Shen, Victoria Thomas, Mark Belkin, Teruhiko Imamura, Amrish Deshmukh and Diego Medvedofsky
Impressive Academic Production

Arnsdorf Cardiovascular Research Day: Abstracts

- **Mark Belkin, Bow Benjamin Chung**, Roberto Lang, Kirk Spencer, Gabriel Sayer, Sirtaz Adatya, Nitasha Sarswat, Gene Kim, Nir Uriel. "Diffuse Ventricular Hematoma after Heart Transplant and Repeated Myocardial Instrumentation: a Case Report"

- **Lane B Benes**, Cheeling Chan, Amy C Alman, John J Carr, David C Goff Jr, David R Jacobs, Jamal S Rana, James G Terry, Joseph Yeoah, Kiang Liu, Tamar S Polonsky. "Association of 10-Year Change in Cardiovascular Risk Factors with Progression of Pericardial Adipose Tissue: the CARDIA Study"

- **Chua, Balkhy, Nayak, Upadhyay, Raiman, Broman, Tung.** "Feasibility of Intraoperative High-Density Electroanatomic Mapping For Physiologic Optimization of Totally Endoscopic Robotic Epicardial Left Ventricular Lead Placement"

- **Kelvin Chua, Gaurav Upadhyay, Roderick Tung.** "VARIABLE ACTIVATION PATTERNS OF RETROGRADE FAST PATHWAY AND RELATIONSHIP TO TRIANGLE OF KOCH ANATOMY: HIGH RESOLUTION MAPPING OF AV NODAL REENTRY"

- **Ben Bow Chung, Maura Knapp, Daniel Rodgers, Teruhiko Imamura, Eltayeb Karrar, Jing Zhou, Linlin Zhang, Gene Kim, Sirtaz Adatya, Nitasha Sarswat, Gabriel Sayer, James Liao, Nir Uriel.** "Longitudinal Leukocyte Rho Kinase (ROCK) Activity Increases in Acute Heart Transplant Rejection"

- **Ben Bow Chung, Gene Kim, Sirtaz Adatya, Nitasha Sarswat, Nir Uriel, Gabriel Sayer.** "Noncompaction Cardiomyopathy in a Patient with Mitochondrial Disease and Situs Inversus"


- Teruhiko Imamura, Sirtaz Adatya, **Ben Chung, Ann Nguyen**, Daniel Rodgers, Gabriel Sayer, Nitasha Sarswat, Gene Kim, Jayant Raikhelkar, Takeyoshi Ota, Tae Song, Colleen Juricek, **Diego Medvedofsky**, Valluvan Jeevanandam, Roberto Lang, Jerry D Estep, Daniel Burkhoff, Nir Uriel. "Cannula and Pump Positions are Associated with Left Ventricular Unloading and Clinical Outcome in Patients with HeartWare Left Ventricular Assist Device"
Arnsdorf Cardiovascular Research Day continued...

- Teruhiko Imamura, **Ben Chung, Ann Nguyen**, Daniel Rodgers, Gabriel Sayer, Sirtaz Adatya, Nitasha Sarwat, Gene Kim, Jayant Raikhelkar, Takeyoshi Ota, Tae Song, Colleen Juricek, Valluvan Jeevanandam, Mandeep Mehra, Daniel Burkhoff, Nir Uriel. “Decoupling between Diastolic Pulmonary Artery Pressure and Pulmonary Capillary Wedge Pressure as a Novel Prognostic Factor Following Continuous Flow Ventricular Assist Device Implantation”

- Keigo Kawaji; **Akhil Narang, Noreen Nazir**; Donel Tani; Hui Wang; Jouke Smink; Nael Osman; and Amit R. Patel. “A Single Breath-Hold Simultaneous Acquisition Approach of both Cine CMR and Strain Encoded CMR Acquisition for a Combined Assessment of Myocardial Wall Motion.”

- Keigo Kawaji; **Noreen Nazir; Akhil Narang; Kohei Matsumoto; Donel Tani; Hui Wang; Jouke Smink; Nael Osman; and Amit R. Patel. “Scan-Time Reduction by Improved Utilization of Idle Times by Permuting Pre-Scan Ordering: Feasibility Demonstration of a single breath-hold Strain-Encoded CMR.”


- **Diego Medvedofsky**, Francesco Maffessanti, Lynn Weinert, David M. Tehrani, **Akhil Narang**, Karima Addetia, Stephanie A. Besser, Amit R. Patel, Kirk T. Spencer, Victor Mor-Avi, Roberto M. Lang, “2D and 3D Echocardiography Derived Left Ventricular Function and Shape Indices: Relationship with Mortality”


- **Diego Medvedofsky**, David Tehrani, Keigo Kawaji, Victor Mor-Avi, Roberto M. Lang, Nir Uriel, Amit R. Patel. “Cardiac Magnetic Resonance Imaging to Diagnose Orthotopic Heart Transplant Rejection”


- **Diego Medvedofsky**, Sirtaz Adatya, Jiri Maly, Eric Kruse, Peter Ivák, Poornima Sood, Roberto M. Lang, Francesco Maffessanti, Dominik Berliner, Johann Bauersachs, Axel Haverich, Michael Želízko, Ivan Netuka, Jan D. Schmitto, Nir Uriel. “Echocardiographic Changes in Patients Implanted with a Fully Magnetically Levitated Left Ventricular Assist Device (HeartMate 3)”


Arnsdorf Cardiovascular Research Day continued...

- Lynn Weinert, Isida Byku, Amita Singh, Aldo Prado, Victor Mor-Avi, Roberto M Lang, **Diego Medvedofsky**. “Three-Dimensional Echocardiographic Automated Quantification of Left-Heart Chambers Using Adaptive Analytics Algorithm: Importance of Experience”


- **Akhil Narang**, Kanako Kishiki, Nimit J. Desai, Kirk T. Spencer MD, Victor Mor-Avi PhD, Roberto M. Lang MD, Karima Addetia MD. “Global Longitudinal Strain Predicts Mortality in Patients with Severe Aortic Insufficiency and Preserved Left Ventricular Ejection Fraction”


- **Akhil Narang**, Lynn Weinert, Kanako Kishiki, Francesco Maffessanti, Victor Mor-Avi, Roberto M. Lang, Karima Addetia. “Superiority of 3D over 2D Analysis of Right Ventricular Function in Predicting Mortality”


- **Noreen T. Nazir, Amita Singh**, Gaurav Upadhyay, Amit R. Patel, Karima Addetia. “Utility Of Cardiovascular MRI In Sudden Cardiac Death Survivors”


- **Ann B. Nguyen**, Stephanie A. Besser, **Ben Bow Chung**, Gene Kim, Sirtaz Adatya, Nitha Sarswat, Gabriel Sayer, Jayant Raikhelkar, Nir Uriel. “Changes in Metabolic Profiles Following Left Ventricular Assist Device Implantation”

NEW WEBSITE!
http://cardsfellowsbsd.uchicago.edu/default.asp
**Arnsdorf Cardiovascular Research Day continued...**

- **Ann B. Nguyen**, Stephanie A. Besser, **Ben Bow Chung**, Laura Lourenco, Gene Kim, Sirtaz Adatya, Nitasha Sarwat, Gabriel Sayer, Jayant Raikhelkar, Nir Uriel. “Short-term Risk of Rejection in Heart Transplant Patients Receiving Granulocyte Colony-Stimulating Factor”

- **Adam Oesterle**, Gaurav Upadhyay, Michael Broman, Roderick Tung, Hemal Nayak. “Atrial Fibrosis from AF Extends Beyond the Left Atrium: Right Atrial Fibrosis Assessed by Electroanatomic Voltage Mapping Correlates with Left Atrial Fibrosis in Patients with Atrial Fibrillation Undergoing RFA”

- **Adam Oesterle**, Hemal Nayak, Gaurav Upadhyay, Michael Broman, James K. Liao, Roderick Tung. “Rho Kinase Activity is Elevated in Patients Presenting for Atrial Fibrillation Ablation”

- **Andrew Putnam, MD**, Stephanie Besser, PhD, Matthew Churpek, MD, MPH, PhD, Kyle Carey, MA, John Blair, MD, Sandeep Nathan, MD, Atman Shah, MD, Jonathan Paul, MD. “Characteristics of Conservatively versus Invasively Managed Patients with PE at The University of Chicago”

- **Andrew Putnam**, MD, Stephanie Besser, PhD, Matthew Churpek, MD, MPH, PhD, Kyle Carey, MA, John Blair, MD, Sandeep Nathan, MD, Atman Shah, MD, Jonathan Paul, MD. “Characteristics of Conservatively versus Invasively Managed Patients with PE at The University of Chicago”


- **Amita Singh**, Eric Kruse, Lynn Weinert, Karima Addetia, Roberto M. Lang. “Load Dependency of Left Atrial Strain in Healthy Volunteers”


- **Amita Singh**, Kanako Kishiki, Victor Mor-Avi, Francesco Maffessanti, Mardi Gomberg-Maitland, Roberto M. Lang, Karima Addetia. “Occult Left Atrial Dysfunction in Severe Pulmonary Arterial Hypertension: A Novel Application of Left Atrial Strain”

- **Jeremy Stone** MD, Victor Mor-Avi PhD, Agnieszka Ardelt MD, Roberto M. Lang. “Are Cerebral ECG T-Waves in Stroke Patients a Sign of Associated Transient Cardiac Dysfunction?”

- **Jeremy Stone** MD, Linda Lee MD, R Parker Ward MD. “High Prevalence of Important Echocardiographic Abnormalities in Patients with a Normal Electrocardiogram”


- Upadhyay GA, **Chua K, Beaser A**, Aziz Z, Nayak HN, and Tung R. “Mechanism of His bundle pacing in patients with bundle-branch block: Deductive evidence derived from multielectrode mapping of the left septum”

- **Joseph M Venturini**, Elizabeth Retzer, Janet Friant, David Beiser, Dana Edelson, Jonathan Paul, John Blair, Sandeep Nathan, Atman P Shah. “Use of a Mechanical Compression Device Increases Return of Spontaneous Circulation in Patients with Cardiac Arrest in the Cardiac Catheterization Laboratory”

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**DID YOU KNOW?**

The Section of Cardiology was founded in 1950 at the University of Chicago.
Arndorf Cardiovascular Research Day continued…


Publications and Abstracts

- Benes, L: Association of 10 Year Change in Cardiovascular Risk Factors with Progression of Pericardial Adipose Tissue: the CARDIA StudyOmega-3 carboxylic acids monotherapy and combination with statins in the management of dyslipidemia Benes LB, Bassi NS, Davidson MH
- Byku: Three-dimensional Echocardiographic Automated Quantification of Left Heart Chamber Volumes Using an Adaptive Analytics Algorithm: Feasibility and Impact of Image Quality in Non selected Patients
- Effect of Atrial Fibrillation on Mortality, Stroke Risk, and Quality of Life Scores in Patients With Heart Failure (from the Outcomes Registry for Better Informed Treatment of Atrial Fibrillation [ORBITAF]). Cherian TS, Shradar P, Fonarow GC, Allen LA, Piccini JP, Peterson ED, Thomas L, Kowey PR, Gersh BJ, Mahaffey KW.
continued...

- **Laffin LJ**, Bakris GL. Catheter-based renal denervation for hypertension: will it ever be ready for "prime time"? "Am J Hypertens". 2016; hpw 123 (online November 12, 2016).
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Posters and Presentations

- **Luise Holzhauser** ISHLT 2017: Consequence of Retained Defibrillator and Pacemaker Leads Following Heart Transplantation An Under-Sensed Problem?


Continued….

- Putnam. Characteristics of Conservatively versus Invasively Managed Patients with PE at The University of Chicago


National Leadership Involvement...

Akhil Narang

2018 American College of Cardiology Scientific Sessions Planning Committee
2018 American Society of Echocardiography Scientific Sessions Planning Committee
2017 ACC Leadership Council: FIT Section, Early Career Section, Cardiovascular Management Section
2017 ACC FIT Section Leadership Council, IL FIT Co-Representative
JACC Editorial Board – Social Media Section Editor